



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1 RMC

NGS Name: 1 RMC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092323/

USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	25	53 N	19 W	470244.00	924115.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	1958	GOOD	Horz=? Vert=YES	NO			STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1958)

Stamping: 1 RMC 1958 1295

3.4 MILES NORTH AND 3.4 MILES WEST OF THE PROSIT POST OFFICE, 83.0 FEET SOUTHEAST AND 57.0 FEET SOUTH OF COUNTY ROAD 47 AT A FENCE NORTHEAST, 50.0 FEET NORTH OF A RAILROAD, AT THE TOP OF SMALL A CUT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.529 12B = -96.519 09 = -96.420 03 = -96.247

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27115.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27115.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 19 MHD 1948

NGS Name: 19

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0718](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	29	52 N	20 W	465757.60	925419.56	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (1960)

Stamping:

IN THE SOUTHEAST END OF THE NORTHEAST HEADWALL OF A TRUNK HIGHWAY 73 BOX CULVERT, 2.7 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE FLOODWOOD HIGH SCHOOL, AT TRUNK HIGHWAY 73 MILEPOINT 46.25, 43.0 FEET NORTHEAST OF TRUNK HIGHWAY 73.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1240.247	0.016	378.028	0.005	2/1	2021	00000963
NGVD29	1239.505	0.016	377.802	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.731 12B = -95.712 09 = -95.649 03 = -95.508

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<u>Location:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/19-RN0718-3NE-10JUL2017.jpg	NE	Jul 10, 2017
<u>Monument:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/19-RN0718-2-10JUL2017.jpg		Jul 10, 2017
<u>Disk:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/19-RN0718-1-10JUL2017.jpg		Jul 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27136.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27136.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 2 RMC

NGS Name: 2 RMC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092323/

USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	6	52 N	18 W	470142.00	923941.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	1958	GOOD	Horz=? Vert=YES	NO			STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1958)

Stamping: 2 RMC 1958 1297

2.0 MILES NORTH AND 2.0 MILES WEST OF THE PROSIT POST OFFICE, 11.0 FEET SOUTH AND 43.0 FEET WEST OF A GRADE CROSSING, NEAR THE JUNCTION OF COUNTY ROAD 47 (EAST AND NORTH WEST) AND A ROAD (WEST).

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.345 12B = -96.332 09 = -96.230 03 = -96.060

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27143.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27143.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 3 JKR

NGS Name: 3 JKR

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>				
SW	28	51 N	19 W	465221.00	924550.00						
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>				
1952	2017	GOOD	Horz=NO Vert=NO	NO			STEEL SPIKE ADJ TO MON				

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	USGS

Description: (1952) **Stamping:** 3 JKR 1952

7.6 MILES SOUTHEAST OF FLOODWOOD, 9.1 MILES SOUTHEAST AND EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, THEN 1.3 MILES NORTH ON NYGAARD ROAD, 172.0 FEET SOUTH OF A RAILROAD STATION, 44.0 FEET SOUTH OF A RAILROAD CROSSING, 49.0 FEET EAST OF NYGAARD ROAD, 2.0 FEET NORTH OF A FENCE.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.865 12B = -94.852 09 = -94.770 03 = -94.649

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_77828.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_77828.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 3 RMC

NGS Name: 3 RMC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092323/

USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	9	52 N	18 W	470022.00	923740.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	1997	GOOD	Horz=? Vert=YES	NO			STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1958)

Stamping: 3 RMC 1958 1340

0.6 MILE NORTHWEST OF THE PROSIT POST OFFICE ON A RAILROAD, 0.4 MILE SOUTH OF THE AEERIE LAKE CROSSING, AT THE END OF A ROAD TO A RAILROAD ON THE SOUTH SIDE OF MAPLE LAKE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.102 12B = -96.092 09 = -95.977 03 = -95.810

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27169.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27169.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 30 WR

NGS Name: 30 WR

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 47092313/
USGS Quad: CASCO

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>				
NE	10	55 N	19 W	471557.00	924411.00						
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>				
1950	1950	GOOD	Horz=? Vert=YES	NO			STEEL SPIKE ADJ TO MON				
<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>									
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS									

Description: (1950)

Stamping: 30 WR 1950

2.0 MILES SOUTH AND 3.5 MILES EAST OF A COOP STORE AT LITTLE SWAN, 0.6 MILE SOUTH OF THE JUNCTION OF COUNTY ROAD 434 AND A RAILROAD, 50.0 FEET EAST OF A ROAD AT A DIM LOGGING ROAD EAST, AT THE NORTHWEST CORNER OF A SMALL CLEARING.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.916 12B = -97.913 09 = -97.844 03 = -97.713

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27172.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27172.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 31 WR

NGS Name: 31 WR

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092324/

USGS Quad: MEADOWLANDS NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	15	55 N	19 W	471450.00	924449.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	1950	GOOD	Horz=? Vert=YES	NO			STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1950)

Stamping: 31 WR 1950

3.5 MILES SOUTH AND 3.0 MILES EAST OF THE LITTLE SWAN COOP STORE, 55.0 FEET NORTHEAST OF A ROAD AT A RIGHT ANGLE TURN, 18.0 FEET NORTH AND 23.0 FEET EAST OF A ROAD AT THE JUNCTION OF A DIM ROAD EAST, 2.0 FEET WEST OF A GATE POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.854 12B = -97.854 09 = -97.785 03 = -97.641

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27174.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27174.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 32 WR

NGS Name: 32 WR

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092331/

USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	17	55 N	19 W	471449.00	924712.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	1950	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1950)

Stamping: 32 WR 1950

3.5 MILES SOUTH AND 1.0 MILE EAST OF THE LITTLE SWAN COOP STORE, 600.0 FEET EAST OF COUNTY ROAD 230 AT A DIM ROAD EAST, 20.0 FEET WEST OF A GATE POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.798 12B = -97.802 09 = -97.729 03 = -97.588

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27177.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27177.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 4 JKR

NGS Name: 4 JKR

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 46092414/

USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	25	51 N	19 W	465235.00	924120.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2017	GOOD	Horz=NO Vert=NO	YES			STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1952)

Stamping: 4 JKR 1952

3.7 MILES EAST OF PAUPORES ON A RAILROAD, 40.0 FEET NORTH AND 38.0 FEET EAST OF A FIELD ROAD CROSSING, 1.0 FOOT NORTH OF A WIRE FENCE.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.885 12B = -94.875 09 = -94.783 03 = -94.652

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27195.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27195.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 49 SEM

NGS Name: 49 SEM

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 46093111/

USGS Quad: ISLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	16	51 N	21 W	465439.00	930022.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	1967	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1967)

Stamping: 49 SEM 1967

1.0 MILE SOUTH AND 4.5 MILES WEST OF FLOODWOOD, 39.0 FEET SOUTH AND 27.0 FEET EAST OF AN EAST-WEST ROAD AT A TEE-ROAD NORTH, 4.0 FEET SOUTH OF A TELEPHONE POLE, 1.3 FEET NORTH OF A STEEL FENCE POST WITH A WITNESS TAG.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.144 12B = -95.131 09 = -95.046 03 = -94.944

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27222.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27222.pdf



Geodetic Data Sheet (Brief)
GSID Station # 77829

6 JKR

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6 JKR

NGS Name: 6 JKR

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0749](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	28	51 N	19 W	465222.00	924551.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2017	GOOD	Horz=NO Vert=NO	NO			STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	CGS

Description:

Stamping: 3 JKR 1952 1239

STATION 6 JKR IS LOCATED NEAR THE RAILROAD CROSSING AT PAUPORES. IT IS 46.6 FEET SOUTH OF THE SOUTH RAIL OF THE MAIN LINE TRACK OF THE BURLINGTON NORTHERN RAILROAD, 21.0 FEET SOUTH OF THE SOUTH RAIL OF THE SPUR SIDING TRACKS, 44.0 EAST OF THE CENTER OF NYGAARD ROAD, 36.0 FEET NORTHEAST OF A RAILROAD CROSSING POST.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.869 12B = -94.855 09 = -94.773 03 = -94.652

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_77829.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_77829.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 A

NGS Name: 6906 A

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0646](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	6	51 N	20 W	465547.00	925517.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1978	DESTROYED	Horz=NO Vert=NO	NO			STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1978)

Stamping: 6906 A 1974

18.4 MILES NORTH OF CROMWELL, 17.6 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 210 IN CROMWELL, THEN 0.8 MILE NORTH ALONG TRUNK HIGHWAY 2.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1240.034	0.016	377.963	0.005	2/0	1991	00000025
NGVD29	1239.482	0.016	377.795	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.380 12B = -95.361 09 = -95.285 03 = -95.170

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27263.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27263.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 A RESET

NGS Name: 6906 A RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1743](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	6	51 N	20 W	465546.91	925518.09	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	VERTICAL CONTROL DISK	MNDT

Description: (1978)

Stamping: 6906 A 1974 RESET 1978

IN FLOODWOOD, IN THE NORTHEAST CORNER OF A TRUNK HIGHWAY 2 BOX CULVERT AT A SMALL CREEK, 0.5 MILE NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73, AT TRUNK HIGHWAY 2 MILEPOINT 220.25, 56.0 FEET NORTHEAST OF TRUNK HIGHWAY 2.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1239.932	0.016	377.932	0.005	2/1	2021	00000963
NGVD29	1239.233	0.016	377.719	0.005	2	1978	L23566

Geoid Separations(ft): GEOID18 = -95.380 12B = -95.361 09 = -95.285 03 = -95.170

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_A_RESET-RN1743-3NE-24JUL2017.jpg	NE	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_A_RESET-RN1743-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_A_RESET-RN1743-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27264.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27264.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27265

6906 B

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 B

NGS Name: 6906 B

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0644](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	1	51 N	21 W	465622.56	925600.35	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

Monument Type

CULVERT - ANY SIZE, ANY TYPE

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (2002)

Stamping: 6906 B 1974

IN THE SOUTHEAST HEADWALL OF A TRUNK HIGHWAY 2 BOX CULVERT AT A DRAINAGE DITCH, 1.4 MILES NORTHWEST ON TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73, AT TRUNK HIGHWAY 2 MILEPOINT 219.4, 29.0 FEET NORTHEAST OF TRUNK HIGHWAY 2.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1247.645	0.016	380.283	0.005	2/1	2021	00000963
NGVD29	1247.078	0.016	380.110	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.466 12B = -95.446 09 = -95.374 03 = -95.252

*** No Horizontal Positions in the Database ***

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_B-RN0644-3NE-24JUL2017.jpg	NE	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_B-RN0644-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_B-RN0644-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27265.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27266

6906 C

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 C

NGS Name: 6906 C

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0639](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/1077
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	35	52 N	21 W	465708.64	925710.91	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 3 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	VERTICAL CONTROL DISK	MNDT

Description: (2001) **Stamping:** 6906 C 1974

2.1 MILES NORTHWEST OF FLOODWOOD, 2.55 MILES NORTHWEST ON TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73, AT TRUNK HIGHWAY 2 MILEPOINT 218.25, 0.25 MILE NORTH OF A RAILROAD CROSSING, 33.0 FEET WEST OF A TOWNSHIP ROAD, 106.0 FEET SOUTHWEST OF THE SOUTHWEST RAILROAD TRACKS, 86.8 FEET SOUTHWEST OF STATION HALDEN MNDT, 124.0 FEET WEST OF HALDEN MNDT RM 1, 72.0 FEET SOUTHWEST OF A RAILROAD CROSSING POST, 77.0 FEET SOUTHWEST OF A WITNESS POST AND 0.9 FOOT EAST OF ANOTHER WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1264.046	0.016	385.282	0.005	2/0	1991	00000025
NGVD29	1263.518	0.016	385.121	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.567 12B = -95.551 09 = -95.479 03 = -95.357

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 57 08.63740	92 57 10.91305	374362.112	210701.246	114105.800	64221.868	356.202	3	1999	17648
NAD83 (1986)	46 57 08.63048	92 57 10.91374	374362.060	210700.545	114105.784	64221.655		3	1986	17289
NAD27	46 57 08.83763	92 57 10.18511						3	1977	15924

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 D

NGS Name: 6906 D

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	52 N	21 W	465715.00	925801.00	2	

NGS ACRN:	RN0637	Get Map
NGS Quad / Sta Num :	46092444/	
USGS Quad:	FLOODWOOD	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2005	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 2 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: 6906 D 1974

3.25 MILES NORTHWEST OF FLOODWOOD, 3.25 MILES NORTHWEST ON TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73, AT TRUNK HIGHWAY 2 MILEPOINT 217.58, 375.0 FEET WEST OF TRUNK HIGHWAY 2, 20.0 FEET SOUTH OF A TOWNSHIP ROAD, 187.3 FEET EAST-NORTHEAST OF A HOUSE, 1.5 FEET NORTHWEST OF A CORNER FENCE POST, 1.0 FOOT NORTH OF A WITNESS POST, THE GEODETIC UNIT FOUND THE ROD TIPPED AND THE DISK WAS GONE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1265.162	0.016	385.622	0.005	2/0	1991	00000025
NGVD29	1264.637	0.016	385.462	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.574 12B = -95.558 09 = -95.489 03 = -95.364

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27267.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27267.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27268

6906 E

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 E

NGS Name: 6906 E

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	52 N	21 W	465754.00	925913.00	2	

NGS ACRN: [RN0635](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2005	DESTROYED	Horz=NO Vert=NO	NO			STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	VERTICAL CONTROL DISK	MNDT

Description: (2001) **Stamping:** 6906 E 1974

4.5 MILES NORTHWEST OF FLOODWOOD, 4.5 MILES NORTHWEST ON TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73, AT TRUNK HIGHWAY 2 MILEPOINT 216.3, 130.0 FEET SOUTHWEST OF TRUNK HIGHWAY 2, 10.0 FEET NORTHWEST OF AN ENTRANCE, 63.7 FEET SOUTHWEST OF THE NORTHEAST END OF A CULVERT, 1.5 FEET EAST OF A WITNESS POST, FOUND THE ROD AND THE DISK TIPPED OVER, THE ROD WAS STRAIGHTENED, SEE STATION 6906 E RESET.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1265.112	0.016	385.607	0.005	2/0	1991	00000025
NGVD29	1264.604	0.016	385.452	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.656 12B = -95.643 09 = -95.574 03 = -95.446

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27268.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27268.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 E 1

NGS Name: 6906 E 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0633](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	21	52 N	21 W	465835.00	925953.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1978	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

WALL

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1978)

Stamping: 6906 E 1 1974

5.4 MILES NORTHWEST OF FLOODWOOD, 5.4 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1264. 988	0. 016	385. 569	0. 005	2/0	1991	00000025
NGVD29	1264. 492	0. 016	385. 418	0. 005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.751 12B = -95.741 09 = -95.672 03 = -95.538

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27269.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27270

6906 E 1 RESET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 E 1 RESET

NGS Name: 6906 E 1 RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1740](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	21	52 N	21 W	465834.26	925951.71	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

Monument Type

CULVERT - ANY SIZE, ANY TYPE

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (2002)

Stamping: 6906 E 1 1974 RESET 1978

5.5 MILES NORTHWEST OF FLOODWOOD, IN THE NORTHEAST CORNER OF A TRUNK HIGHWAY 2 BOX CULVERT, 5.4 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 215.35, 45.0 FEET NORTHEAST OF TRUNK HIGHWAY 2.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1264. 646	0. 016	385. 465	0. 005	2/1	2021	00000963
NGVD29	1264. 062	0. 016	385. 287	0. 005	2	1978	L23566

Geoid Separations(ft): GEOID18 = -95.751 12B = -95.741 09 = -95.672 03 = -95.538

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_E_1_RESET-RN1740-3NE-24JUL2017.jpg	NE	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_E_1_RESET-RN1740-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_E_1_RESET-RN1740-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27270.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27270.pdf



Geodetic Data Sheet (Brief)
GSID Station # 42617

6906 E RESET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 E RESET

NGS Name: 6906 E RESET

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	52 N	21 W	465753.26	925913.55	2	C

NGS ACRN: [DG4253](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2017	GOOD	Horz=NO Vert=YES	YES		RECESSED 4 IN.	MARKER IS STEEL ROD

Monument Type

COPPER CLAD ROD (NO SLEEVE) (DEPTH 24 FT)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (2003)

Stamping: 6906 E RESET 1974 2001

4.45 MILES NORTHWEST OF FLOODWOOD, 4.75 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 216.30, 130.0 FEET SOUTHWEST OF TRUNK HIGHWAY 2, 16.0 FEET NORTHWEST OF AN ENTRANCE TO MAT INCORPORATED, 2.3 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1265.378	0.016	385.688	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -95.653 12B = -95.643 09 = -95.571 03 = -95.443

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 57 53.26129	92 59 13.55061	365884.844	215278.873	111521.924	65617.132	356.528		2012	GPS2800
NAD83 (2007)	46 57 53.26140	92 59 13.55148	365884.784	215278.885	111521.905	65617.135	356.557		2007	GPS2300
NAD83 (1996)	46 57 53.26117	92 59 13.55096	365884.819	215278.861	111521.916	65617.128	356.585	C	2004	GPS1957

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_E_RESET-DG4253-3NW-24JUL2017.jpg	NW	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_E_RESET-DG4253-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_E_RESET-DG4253-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_42617.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_42617.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 F

NGS Name: 6906 F

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	16	52 N	21 W	465910.00	930047.00	2	

NGS ACRN: [RN0866](#)

[Get Map](#)

NGS Quad / Sta Num : 46093111/

USGS Quad: ISLAND

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2005	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

COPPER CLAD ROD (NO SLEEVE)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: 6206 F

6.4 MILES NORTHWEST OF FLOODWOOD, 3.15 MILES SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 200, AT TRUNK HIGHWAY 2 MILEPOINT 214.35, 104.0 FEET NORTHEAST OF TRUNK HIGHWAY 2, 40.0 FEET SOUTHEAST OF A FARM ENTRANCE, 58.3 FEET EAST-NORTHEAST OF THE SOUTHEAST END OF A CULVERT UNDER A FARM ENTRANCE, 67.4 FEET EAST OF A POWER POLE, 1.0 FOOT SOUTHWEST OF A WITNESS POST, FOUND CONCRETE CULVERT REINFORCED WITH THE DISK MISSING, SEE STATION 6906 F RESET.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1266.349	0.016	385.984	0.005	2/0	1991	00000025
NGVD29	1265.867	0.016	385.837	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.827 12B = -95.817 09 = -95.748 03 = -95.610

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27271.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27271.pdf



Geodetic Data Sheet (Brief)
GSID Station # 42618

6906 F RESET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 F RESET

NGS Name: 6906 F RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DG4240](#) [Get Map](#)
NGS Quad / Sta Num : 46093111/
USGS Quad: ISLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	16	52 N	21 W	465910.39	930047.68	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2003)

Stamping: 6906 F RESET 2001

6.5 MILES NORTHWEST OF FLOODWOOD, 6.7 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 214.35, 104.0 FEET NORTHEAST OF TRUNK HIGHWAY 2, 40.0 FEET SOUTHEAST OF AN ENTRANCE, 67.5 EAST OF A POWER POLE, 1.0 FOOT SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1266.346 0.016	385.983 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.827 12B = -95.817 09 = -95.748 03 = -95.613

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 59 10.39219	93 00 47.67620	359412.351	223139.411	109549.104	68013.028	356.770		2012	GPS2800
NAD83 (2007)	46 59 10.39233	93 00 47.67712	359412.287	223139.425	109549.084	68013.033	356.800		2007	GPS2300
NAD83 (1996)	46 59 10.39217	93 00 47.67675	359412.313	223139.409	109549.092	68013.028	356.828	C	2004	GPS1957

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_F_RESET-DG4240-3NE-24JUL2017.jpg	NE	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_F_RESET-DG4240-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_F_RESET-DG4240-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_42618.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_42618.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27272

6906 G

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 G

NGS Name: 6906 G

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	17	52 N	21 W	465948.03	930206.39	2	3

NGS ACRN: [RN0869](#) [Get Map](#)
NGS Quad / Sta Num : 46093111/
USGS Quad: ISLAND

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

Monument Type

CULVERT - ANY SIZE, ANY TYPE

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (2002)

Stamping: 6906 G 1974

7.4 MILES NORTHWEST OF FLOODWOOD, IN THE NORTHEAST CORNER OF A TRUNK HIGHWAY 2 BOX CULVERT, 1.8 MILES SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 200 (THE JUNCTION IS 10.0 MILES NORTHWEST OF FLOODWOOD), AT TRUNK HIGHWAY 2 MILEPOINT 213.05, 27.0 FEET NORTHEAST OF TRUNK HIGHWAY 2, 35.0 FEET NORTHWEST OF A FIELD ROAD NORTHEAST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1269.269	0.016	386.874	0.005	2/1	2021	00000963
NGVD29	1268.774	0.016	386.723	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.895 12B = -95.882 09 = -95.813 03 = -95.679

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_G-RN0869-3NE-24JUL2017.jpg	NE	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_G-RN0869-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_G-RN0869-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27272.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27272.pdf



Geodetic Data Sheet (Brief)
GSID Station # 42619

6906 H

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 H

NGS Name: 6906 H

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF9084](#) [Get Map](#)
 NGS Quad / Sta Num : 46092444/
 USGS Quad: FLOODWOOD

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	36	52 N	21 W	465708.59	925709.90	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2001	2017	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	SURVEY DISK	MNDT

Description: (2003) **Stamping:** 6906 H 2001

2.5 MILES NORTHWEST OF FLOODWOOD, 2.8 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD TO TRUNK HIGHWAY 2 MILEPOINT 218.25, THEN 0.25 MILE NORTH ON COUNTY ROAD 186, 37.0 FEET EAST OF COUNTY ROAD 186, 68.0 FEET SOUTHWEST OF THE SOUTHWEST RAIL, 2.2 FEET EAST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height	Accuracy	Orthometric (Meters) Height	Accuracy	Survey Order/(Class)	Project Info Year	Reference
NAVD88	1263.994	0.016	385.266	0.005	2/1	2011	00000675

Geoid Separations(ft): GEOID18 = -95.567 12B = -95.551 09 = -95.479 03 = -95.357

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (2011)	46 57 08.58555	92 57 09.90400	374432.084	210695.544	114127.127	64220.130	356.123		2012	GPS2800
NAD83 (2007)	46 57 08.58565	92 57 09.90488	374432.023	210695.554	114127.109	64220.133	356.152		2007	GPS2300
NAD83 (1996)	46 57 08.58540	92 57 09.90464	374432.039	210695.529	114127.114	64220.126	356.176	C	2004	GPS1957

Station Photos

Type	File Name	Dir	Date
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_H-DF9084-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_42619.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_42619.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 H RESET

NGS Name: 6906 H RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9923](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	52 N	21 W	465708.59	925709.90	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=NO Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017)

Stamping: 6906 H RESET 2017

2.5 MILES NORTHWEST OF FLOODWOOD, 2.8 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD TO TRUNK HIGHWAY 2 MILEPOINT 218.25, THEN 0.25 MILE NORTH ON COUNTY ROAD 186, 37.0 FEET EAST OF COUNTY ROAD 186 (SAVANNA ROAD), 68.0 FEET SOUTHWEST OF THE SOUTHWEST RAIL, 2.2 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1263. 938 0. 016	385. 249 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.567 12B = -95.551 09 = -95.479 03 = -95.357

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_H_RESET-DQ9923-3E-24JUL2017.jpg	E	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_H_RESET-DQ9923-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_H_RESET-DQ9923-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107896.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107896.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107771

6906 J

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 J

NGS Name: 6906 J

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9921](#) [Get Map](#)
 NGS Quad / Sta Num : 46092444/
 USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	6	51 N	20 W	465604.86	925539.46	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2020	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 36 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6906 J 2017

0.5 MILE NORTHWEST OF FLOODWOOD, 1.0 MILE NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 219.20, 38.3 FEET NORTHEAST OF TRUNK HIGHWAY 2, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u>	<u>Orthometric (Feet)</u>	<u>Orthometric (Meters)</u>	<u>Survey</u>	<u>Project Info</u>
<u>Datum</u>	<u>Height</u>	<u>Accuracy</u>	<u>Order/(Class)</u>	<u>Year</u>
NAVD88	1246. 713	0. 016	2/1	2021

Geoid Separations(ft): GEOID18 = -95.423 12B = -95.403 09 = -95.328 03 = -95.213

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
<u>Adjustment</u>	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 56 04. 86146	92 55 39. 45878	380667. 596	204199. 924	116027. 715	62240. 261	350. 933	3	2020	GPSBM

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_J-DQ9921-3NE-07JUL2020.jpg	NE	Jul 7, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_J-DQ9921-2-07JUL2020.jpg		Jul 7, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_J-DQ9921-1-07JUL2020.jpg		Jul 7, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107771.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107771.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 K

NGS Name: 6906 K

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9922](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	36	52 N	21 W	465643.21	925637.82	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 46 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6906 K 2017

1.6 MILES NORTHWEST OF FLOODWOOD, 2.0 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 218.75, 36.3 FEET NORTHEAST OF TRUNK HIGHWAY 2, 125.0 FEET SOUTHEAST OF AN ENTRANCE, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1258.925 0.016	383.721 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.508 12B = -95.492 09 = -95.420 03 = -95.298

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_K-DQ9922-3NE-02AUG2017.jpg	NE	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_K-DQ9922-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_K-DQ9922-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107772.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107772.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107773

6906 L

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 L

NGS Name: 6906 L

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9924](#) [Get Map](#)
 NGS Quad / Sta Num : 46092444/
 USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	35	52 N	21 W	465703.58	925725.52	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2021	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 31 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6906 L 2017

2.5 MILES NORTHWEST OF FLOODWOOD, 2.7 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 218.0, 42.2 FEET NORTHEAST OF TRUNK HIGHWAY 2, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1265. 873 0. 016	385. 839 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.551 12B = -95.535 09 = -95.462 03 = -95.341

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 57 03. 57678	92 57 25. 52378	373345. 144	210195. 046	113795. 827	64067. 578	356. 728	3	2021	GPSBM

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_L-DQ9924-3NE-25JUL2021.jpg	NE	Jul 25, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_L-DQ9924-2-25JUL2021.jpg		Jul 25, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_L-DQ9924-1-25JUL2021.jpg		Jul 25, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107773.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107773.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107985

6906 M

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 M

NGS Name: 6906 M

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9927](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	22	52 N	21 W	465802.80	925919.87	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2021	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 52 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6906 M 2017

4.5 MILES NORTHWEST OF FLOODWOOD, 4.65 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 216.05, 55.9 FEET NORTHEAST OF TRUNK HIGHWAY 2, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1263. 472 0. 016	385. 107 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.676 12B = -95.666 09 = -95.597 03 = -95.466

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 58 02. 79865	92 59 19. 87040	365453. 139	216248. 184	111390. 340	65912. 578	355. 974	3	2021	GPSBM

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_M-DQ9927-3NE-25JUL2021.jpg	NE	Jul 25, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_M-DQ9927-2-25JUL2021.jpg		Jul 25, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_M-DQ9927-1-25JUL2021.jpg		Jul 25, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107985.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107985.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107986

6906 N

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 N

NGS Name: 6906 N

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9930](#) [Get Map](#)
NGS Quad / Sta Num : 46093111/
USGS Quad: ISLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	17	52 N	21 W	465921.30	930111.57	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2020	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6906 N 2017

6.8 MILES NORTHWEST OF FLOODWOOD, 6.75 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 213.95, 38.3 FEET NORTHEAST OF TRUNK HIGHWAY 2, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1268. 741 0. 016	386. 713 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.846 12B = -95.836 09 = -95.768 03 = -95.633

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 59 21. 30407	93 01 11. 57452	357763. 442	224256. 953	109046. 515	68353. 656	357. 490	3	2020	GPSBM

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_N-DQ9930-3NE-07JUL2020.jpg	NE	Jul 7, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_N-DQ9930-2-07JUL2020.jpg		Jul 7, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_N-DQ9930-1-07JUL2020.jpg		Jul 7, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107986.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107986.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107987

6906 P

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 P

NGS Name: 6906 P

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	17	52 N	21 W	465947.27	930204.61	2	3

NGS ACRN: [DQ9931](#) [Get Map](#)
NGS Quad / Sta Num : 46093111/
USGS Quad: ISLAND

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 43 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: 6906 P 2017

7.4 MILES NORTHWEST OF FLOODWOOD, 7.6 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 213.10, 36.4 FEET NORTHEAST OF TRUNK HIGHWAY 2, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1268.767	0.016	386.721	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -95.892 12B = -95.879 09 = -95.813 03 = -95.676

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_P-DQ9931-3NE-07AUG2017.jpg	NE	Aug 7, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_P-DQ9931-2-07AUG2017.jpg		Aug 7, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_P-DQ9931-1-07AUG2017.jpg		Aug 7, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107987.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107987.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6906 Q

NGS Name: 6906 Q

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9932](#) [Get Map](#)
NGS Quad / Sta Num : 47093222/
USGS Quad: WAWINA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	7	52 N	21 W	470005.87	930246.69	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 42 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: 6906 Q 2017

8.2 MILES NORTHWEST OF FLOODWOOD, 8.3 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 212.45, 35.2 FEET SOUTHWEST OF TRUNK HIGHWAY 2, 100.4 FEET NORTHWEST OF AN ENTRANCE, 1.5 FEET NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1271.136 0.016	387.443 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.922 12B = -95.909 09 = -95.843 03 = -95.708

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<u>Location:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_Q-DQ9932-3SW-14AUG2017.jpg	SW	Aug 14, 2017
<u>Monument:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_Q-DQ9932-2-14AUG2017.jpg		Aug 14, 2017
<u>Disk:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6906_Q-DQ9932-1-14AUG2017.jpg		Aug 14, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107988.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107988.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27273

6907 A

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 A

NGS Name: 6907 A

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	3	50 N	17 W	465048.00	922900.00	2	

NGS ACRN: [RN0048](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	DESTROYED	Horz=NO Vert=NO	YES			NO MAG MATERIAL

Monument Type

CULVERT - ANY SIZE, ANY TYPE

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (2019)

Stamping: 6907 A 1974

2.1 MILES SOUTHEAST OF SAGINAW, 1.2 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33, AT TRUNK HIGHWAY 2 MILEPOINT 243.75, 39.0 FEET SOUTH OF TRUNK HIGHWAY 2, 50.0 FEET EAST OF A FIELD ROAD SOUTH, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 2 BOX CULVERT.

Station Notes

NEW BOX CULVERT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1276.316	0.016	389.022	0.005	2/0	1991	00000025
NGVD29	1276.037	0.016	388.937	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.386 12B = -94.370 09 = -94.278 03 = -94.098

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_A-RN0048-3N-26JUL2017.jpg	N	Jul 26, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27273.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27273.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 AA

NGS Name: 6907 AA

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9898](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	1	50 N	18 W	465056.85	923419.35	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6907 AA 2017

11.0 MILES NORTH-NORTHWEST OF CLOQUET, 5.4 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOINT 239.4, 79.3 FEET NORTH-NORTHEAST OF TRUNK HIGHWAY 2, 123.6 FEET EAST-SOUTHEAST OF AN ENTRANCE, 1.5 FEET SOUTH-SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1268. 209 0. 016	386. 551 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.563 12B = -94.560 09 = -94.458 03 = -94.291

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AA-DQ9898-3N-09AUG2017.jpg	N	Aug 9, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AA-DQ9898-2-09AUG2017.jpg		Aug 9, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AA-DQ9898-1-09AUG2017.jpg		Aug 9, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107929.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107929.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 AB

NGS Name: 6907 AB

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1052](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	2	50 N	17 W	465042.00	922813.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1979	2008	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 2 IN.	MARKER IS STEEL ROD

Monument Type

COPPER CLAD ROD (NO SLEEVE) (DEPTH 32 FT)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1979)

Stamping: 6907 AB 1979

1.6 MILES SOUTHWEST OF SAGINAW, 0.6 MILE SOUTHWEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33, 96.0 FEET SOUTH OF TRUNK HIGHWAY 2, 18.1 FEET EAST OF A CORNER FENCE POST, 84.7 FEET EAST OF A POWER POLE, 39.5 FEET NORTHEAST OF A 10.0 INCH DIAMETER PINE TREE, 28.1 FEET SOUTH OF STATION SAG MNDT, 78.5 FEET EAST-SOUTHEAST OF SAG MNDT RM 1, 0.7 FOOT NORTH OF A WITNESS A POST, AT TRUNK HIGHWAY 2 MILEPOINT 244.25. IN 1995 THE GEODETIC UNIT COULD NOT FIND THE STATION AND SAG MNDT RM 1, TRUNK HIGHWAY 2 HAD BEEN REBUILT INTO A 4 LANE ROADWAY.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1330.007	0.016	405.387	0.005	2/2	1991	00000025
NGVD29	1329.738	0.016	405.305	0.005	2	1979	L23566

Geoid Separations(ft): GEOID18 = -94.340 12B = -94.327 09 = -94.235 03 = -94.048

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27274.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27275

6907 AC

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 AC

NGS Name: 6907 AC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1053](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	3	50 N	17 W	465047.61	922859.97	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1979	2017	GOOD	Horz=NO Vert=YES	YES		RECESSED 3 IN.	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 34 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2007) **Stamping:** 6907 AC 1979

9.3 MILES NORTH-NORTHWEST OF CLOQUET, 1.25 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.5 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOINT 243.60, 104.5 FEET NORTH OF TRUNK HIGHWAY 2, 16.5 FEET EAST OF DRIVEWAY NUMBER 7625, 0.7 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1284. 141	0. 016	391. 407	0. 005	2/1	2021	00000963
NGVD29	1283. 849	0. 016	391. 318	0. 005	2	1979	L23566

Geoid Separations(ft): GEOID18 = -94.386 12B = -94.370 09 = -94.278 03 = -94.094

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AC-RN1053-3E-26JUL2017.jpg	E	Jul 26, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AC-RN1053-2-26JUL2017.jpg		Jul 26, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AC-RN1053-1-26JUL2017.jpg		Jul 26, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27275.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27275.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27276

6907 AD

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 AD

NGS Name: 6907 AD

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1054](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	4	50 N	17 W	465050.47	922929.81	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1979	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 2 IN.	MARKER IS STEEL ROD

Monument Type

COPPER CLAD ROD (NO SLEEVE) (DEPTH 40 FT)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: 6907 AD 1979

9.5 MILES NORTH-NORTHWEST OF CLOQUET, 1.65 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.5 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOINT 243.20, 96.7 FEET NORTH OF TRUNK HIGHWAY 2, 46.6 FEET NORTHEAST OF STATION ANDY RESET, 42.1 FEET EAST OF STATION ANDY RM 1, 0.8 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1320.585	0.016	402.515	0.005	2/1	2021	00000963
NGVD29	1320.293	0.016	402.426	0.005	2	1979	L23566

Geoid Separations(ft): GEOID18 = -94.409 12B = -94.396 09 = -94.304 03 = -94.121

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AD-RN1054-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AD-RN1054-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AD-RN1054-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27276.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27277

6907 AE

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 AE

NGS Name: 6907 AE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1056](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	6	50 N	17 W	465049.20	923229.18	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1979	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 26 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2001) **Stamping:** 6907 AE 1979

3.3 MILES EAST OF BROOKSTON, 3.05 MILES EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31 (THE JUNCTION IS 1.0 MILE SOUTH OF BROOKSTON) AT TRUNK HIGHWAY 2 MILEPOINT 240.9, 99.0 FEET NORTH OF TRUNK HIGHWAY 2, 20.0 FEET EAST OF A DRIVEWAY, 4.7 FEET NORTH-NORTHWEST OF A TELEPHONE CABLE MARKER NUMBER 731, 56.9 FEET EAST OF A RIGHT-OF-WAY MONUMENT, 7.3 FEET EAST-SOUTHEAST OF A POWER POLE NUMBER GL221, 7.2 FEET EAST-SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1317.048	0.016	401.437	0.005	2/1	2021	00000963
NGVD29	1316.631	0.016	401.310	0.005	2	1979	L23566

Geoid Separations(ft): GEOID18 = -94.491 12B = -94.485 09 = -94.393 03 = -94.491

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>				<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 50 49.20159	92 32 29.18281	477116.897	171867.467	145425.521	52385.309	372.645		2012	GPS2800						
NAD83 (2007)	46 50 49.20172	92 32 29.18369	477116.835	171867.480	145425.502	52385.313	372.672		2007	GPS2300						
NAD83 (1996)	46 50 49.20136	92 32 29.18365	477116.838	171867.444	145425.503	52385.302	372.707	C	2004	GPS1957						
NAD83 (1986)	46 50 48.64626	92 32 29.55375	477091.045	171811.232	145417.641	52368.168		2	1986	17289						

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AE-RN1056-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AE-RN1056-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AE-RN1056-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27277.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27278

6907 AF

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 AF

NGS Name: 6907 AF

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1058](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/1053
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	1	50 N	18 W	465054.42	923418.12	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1979	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 4 IN.	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 28 FT)	VERTICAL CONTROL DISK	MNDT

Description: (1999) **Stamping:** 6907 AF 1979

2.0 MILES SOUTHEAST OF BROOKSTON, 1.55 MILES EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31(THE JUNCTION IS 1.0 MILE SOUTH OF BROOKSTON), AT TRUNK HIGHWAY 2 MILEPOINT 237.40, 104.4 FEET SOUTH OF TRUNK HIGHWAY 2, 1.0 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1259. 587	0. 016	383. 923	0. 005	2/1	2021	00000963
NGVD29	1267. 793	0. 016	386. 424	0. 005	2	1979	L23566

Geoid Separations(ft): GEOID18 = -94.554 12B = -94.554 09 = -94.452 03 = -94.285

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>Geodetic Position</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD27	46 50 54. 61580	92 34 17. 41540							1950	UNK

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AF-RN1058-3S-25JUL2017.jpg	S	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AF-RN1058-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AF-RN1058-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27278.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27278.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27279

6907 AG

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 AG

NGS Name: 6907 AG

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1060](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	33	51 N	18 W	465117.23	923709.76	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1979	2020	GOOD	Horz=YES Vert=YES	YES		PROJECTS 3 IN.	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 48 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2019) **Stamping:** 6907 AG 1979

1.0 MILE SOUTHWEST OF BROOKSTON, 0.8 MILE WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31 (THE JUNCTION IS 1.0 MILE SOUTH OF BROOKSTON), AT TRUNK HIGHWAY 2 MILEPOINT 237.1, 100.0 FEET NORTH OF TRUNK HIGHWAY 2, 16.3 FEET WEST-NORTHWEST OF CABLE MARKER POST NUMBER 12, 34.0 FEET WEST OF DRIVEWAY NUMBERS 8917 AND 8919, 1.0 FOOT EAST-SOUTHEAST OF A RIGHT-OF-WAY POST AND A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1254.584	0.016	382.398	0.005	2/1	2021	00000963
NGVD29	1253.984	0.016	382.215	0.005	2	1979	L23566

Geoid Separations(ft): GEOID18 = -94.655 12B = -94.655 09 = -94.557 03 = -94.399

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 51 17.22616	92 37 09.76415	457618.477	174739.305	139482.391	53260.647	353.545		2012	GPS2800
NAD83 (2007)	46 51 17.22628	92 37 09.76503	457618.416	174739.317	139482.372	53260.650	353.577		2007	GPS2300
NAD83 (1996)	46 51 17.22604	92 37 09.76490	457618.425	174739.293	139482.375	53260.643	353.618	C	2004	GPS1957

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AG-RN1060-3N-06JUL2020.jpg	N	Jul 6, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AG-RN1060-2-06JUL2020.jpg		Jul 6, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AG-RN1060-1-06JUL2020.jpg		Jul 6, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27279.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27279.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27280

6907 AH

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 AH

NGS Name: 6907 AH

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1062](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	36	51 N	19 W	465120.95	924050.27	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1979	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 2 IN.	MARKER IS STEEL ROD

Monument Type

COPPER CLAD ROD (NO SLEEVE) (DEPTH 19 FT)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: 6907 AH 1979

4.3 MILES WEST-SOUTHWEST OF BROOKSTON, 3.9 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31, AT TRUNK HIGHWAY 2 MILEPOINT 234.2, NORTHEAST OF THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 848, 107.0 FEET NORTH OF TRUNK HIGHWAY 2, 25.0 FEET WEST OF COUNTY ROAD 848, 2.6 FEET WEST OF A STEVENS STREET SIGN POST, 3.3 FEET EAST OF A POWER POLE NUMBER GL122, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1333.406	0.016	406.423	0.005	2/1	2021	00000963
NGVD29	1332.796	0.016	406.237	0.005	2	1979	L23566

Geoid Separations(ft): GEOID18 = -94.682 12B = -94.672 09 = -94.590 03 = -94.449

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AH-RN1062-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AH-RN1062-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AH-RN1062-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27280.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27280.pdf



Geodetic Data Sheet (Brief)
GSID Station # 41797

6907 AJ

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 AJ

NGS Name: 6907 AJ

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DG5877](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	7	51 N	20 W	465516.54	925443.03	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1979	2017	GOOD	Horz=NO Vert=NO	YES	69103	FLUSH	NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (2002)

Stamping: 6907 AJ 1979

IN FLOODWOOD, IN THE ABUTMENT IN THE NORTHEAST CORNER OF TRUNK HIGHWAY 2 BRIDGE NUMBER 69103 OVER THE SAVANNA RIVER, 300.0 FEET NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 221.0, 25.0 FEET NORTHEAST OF TRUNK HIGHWAY 2.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1250. 805	0. 016	381. 246	0. 005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -95.305 12B = -95.289 09 = -95.210 03 = -95.098

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AJ-DG5877-3NW-27JUL2017.jpg	NW	Jul 27, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AJ-DG5877-2-27JUL2017.jpg		Jul 27, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AJ-DG5877-1-27JUL2017.jpg		Jul 27, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41797.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41797.pdf



Geodetic Data Sheet (Brief)
GSID Station # 69159

6907 AK

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 AK

NGS Name: 6907 AK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DO7554](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	2	50 N	17 W	465039.23	922752.02	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2007) **Stamping:** 6907 AK 2007

2.0 MILES SOUTHWEST OF SAGINAW, 0.3 MILE WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33, AT TRUNK HIGHWAY 2 MILEPOINT 244.55, 159.7 FEET SOUTH OF EASTBOUND TRUNK HIGHWAY 2, 28.4 FEET EAST OF AN ENTRANCE TO A WEIGH STATION, 8.6 FEET NORTH OF LIGHT POLE NUMBER 2241, 7.6 FEET NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1321. 969 0. 016	402. 937 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.321 12B = -94.304 09 = -94.212 03 = -94.025

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AK-DO7554-3S-26JUL2017.jpg	S	Jul 26, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AK-DO7554-2-26JUL2017.jpg		Jul 26, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AK-DO7554-1-26JUL2017.jpg		Jul 26, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_69159.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_69159.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107956

6907 AL

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 AL

NGS Name: 6907 AL

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9899](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	50 N	18 W	465100.33	923449.80	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6907 AL 2017

16.7 MILES SOUTHEAST OF FLOODWOOD, 17.9 MILES SOUTHEAST AND EAST ALONG TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 239.0, 41.5 FEET SOUTH OF TRUNK HIGHWAY 2, 128.1 FEET SOUTH-SOUTHWEST OF TRUNK HIGHWAY 2 MILEPOST 239, 92.5 FEET NORTHWEST OF A POWER POLE, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1244. 040 0. 016	379. 184 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.580 12B = -94.580 09 = -94.478 03 = -94.311

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AL-DQ9899-3S-09AUG2017.jpg	S	Aug 9, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AL-DQ9899-2-09AUG2017.jpg		Aug 9, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AL-DQ9899-1-09AUG2017.jpg		Aug 9, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107956.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107956.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 AM

NGS Name: 6907 AM

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9900](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	3	50 N	18 W	465114.54	923600.86	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) Stamping: 6907 AM 2017

11.8 MILES NORTHWEST OF CLOQUET, 6.8 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOINT 238.0, 83.1 FEET NORTH-NORTHEAST OF TRUNK HIGHWAY 2, 33.2 FEET SOUTHEAST OF SHINOB MNDT RM 1, 1.5 FEET SOUTH-SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1291. 284 0. 016	393. 584 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.636 12B = -94.636 09 = -94.537 03 = -94.373

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AM-DQ9900-3SE-09AUG2017.jpg	SE	Aug 9, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AM-DQ9900-2-09AUG2017.jpg		Aug 9, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AM-DQ9900-1-09AUG2017.jpg		Aug 9, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107935.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107935.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 AN

NGS Name: 6907 AN

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9902](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	31	51 N	18 W	465120.74	924031.04	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 51 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) Stamping: 6907 AN 2017

12.4 MILES EAST-SOUTHEAST OF FLOODWOOD, 13.35 MILES SOUTHEAST AND EAST ALONG TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 234.45, 94.6 FEET NORTH OF TRUNK HIGHWAY 2, 79.9 FEET WEST-SOUTHWEST OF A POWER POLE, 5.0 FEET SOUTH OF A RIGHT-OF-WAY POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1330.092 0.016	405.413 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.678 12B = -94.672 09 = -94.586 03 = -94.445

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AN-DQ9902-3N-10AUG2017.jpg	N	Aug 10, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AN-DQ9902-2-10AUG2017.jpg		Aug 10, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AN-DQ9902-1-10AUG2017.jpg		Aug 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107937.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107937.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 AP

NGS Name: 6907 AP

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9906](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	33	51 N	19 W	465112.46	924505.01	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6907 AP 2017

9.0 MILES SOUTHEAST OF FLOODWOOD, 9.75 MILES SOUTHEAST AND EAST ALONG TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 238.85, 80.0 FEET NORTH OF TRUNK HIGHWAY 2, 23.7 FEET EAST OF AN ENTRANCE, 19.0 FEET SOUTH OF A FENCE LINE, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1328.885	0.016	405.045	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -94.678 12B = -94.665 09 = -94.583 03 = -94.458

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AP-DQ9906-3N-07AUG2017.jpg	N	Aug 7, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AP-DQ9906-2-07AUG2017.jpg		Aug 7, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AP-DQ9906-1-07AUG2017.jpg		Aug 7, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107900.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107900.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 AQ

NGS Name: 6907 AQ

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9909](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

1/4	Sec	Twp	Rng	Reference	Reference	Vert	Horz
				Latitude	Longitude	Order	Order
SE	36	51 N	20 W	465109.41	924901.91	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2017	2021	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) Stamping: 6907 AQ 2017

6.9 MILES SOUTHEAST OF FLOODWOOD, 6.65 MILES SOUTHEAST AND EAST ALONG TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 227.7, 86.9 FEET NORTH OF TRUNK HIGHWAY 2, 124.6 FEET WEST OF AN EXTENDED ENTRANCE, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	1288.833 0.016	392.837 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.685 12B = -94.672 09 = -94.586 03 = -94.472

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions Latitude Longitude	County (Feet) X Y	County (Meters) X Y	Ellipsoid Hgt (m)	Surv Ord	Project Info Year Reference
NAD83 (2011)	46 51 09.41263 92 49 01.90679	408117.716 174117.052	124394.529 53070.984	363.992	3	2021 GPSBM

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AQ-DQ9909-3N-25JUL2021.jpg	N	Jul 25, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AQ-DQ9909-2-25JUL2021.jpg		Jul 25, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AQ-DQ9909-1-25JUL2021.jpg		Jul 25, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107989.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107989.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107990

6907 AR

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 AR

NGS Name: 6907 AR

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9910](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	35	51 N	20 W	465123.76	925007.77	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2021	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017)

Stamping: 6907 AR 2017

6.2 MILES SOUTHEAST OF FLOODWOOD, 5.65 MILES SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 226.75, 38.8 FEET NORTHEAST OF TRUNK HIGHWAY 2, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1265. 729 0. 016	385. 795 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.724 12B = -94.711 09 = -94.623 03 = -94.511

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AR-DQ9910-3NE-25JUL2021.jpg	NE	Jul 25, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AR-DQ9910-2-25JUL2021.jpg		Jul 25, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AR-DQ9910-1-25JUL2021.jpg		Jul 25, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107990.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107990.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107991

6907 AS

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 AS

NGS Name: 6907 AS

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9913](#) [Get Map](#)
NGS Quad / Sta Num : 46092441/
USGS Quad: MCCARTY RIVER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	21	51 N	20 W	465254.82	925209.28	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2021	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 28 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6907 AS 2017

3.8 MILES SOUTHEAST OF FLOODWOOD, 3.3 MILES SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 224.35, 37.1 FEET NORTHEAST OF TRUNK HIGHWAY 2, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1248.059 0.016	380.409 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.964 12B = -94.944 09 = -94.859 03 = -94.747

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AS-DQ9913-3NE-25JUL2021.jpg	NE	Jul 25, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AS-DQ9913-2-25JUL2021.jpg		Jul 25, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AS-DQ9913-1-25JUL2021.jpg		Jul 25, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107991.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107991.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 AT

NGS Name: 6907 AT

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9914](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	21	51 N	20 W	465325.16	925237.89	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 32 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6907 AT 2017

3.0 MILES SOUTHEAST OF FLOODWOOD, 2.6 MILES ALONG TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 223.65, 41.1 FEET NORTHEAST OF TRUNK HIGHWAY 2, 92.5 FEET SOUTHEAST OF AN ENTRANCE, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	1252. 921 0. 016	381. 891 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.036 12B = -95.019 09 = -94.934 03 = -94.823

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AT-DQ9914-3NE-14AUG2017.jpg	NE	Aug 14, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AT-DQ9914-2-14AUG2017.jpg		Aug 14, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AT-DQ9914-1-14AUG2017.jpg		Aug 14, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107992.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107992.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107993

6907 AU

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 AU

NGS Name: 6907 AU

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9915](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	16	51 N	20 W	465357.49	925311.72	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 43 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6907 AU 2017

2.2 MILES SOUTHEAST OF FLOODWOOD, 1.85 MILES SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 222.9, 67.3 FEET SOUTHWEST OF TRUNK HIGHWAY 2, 51.9 FEET SOUTHEAST OF AN ENTRANCE, 1.5 FEET NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1270. 575 0. 016	387. 272 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.115 12B = -95.098 09 = -95.013 03 = -94.905

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AU-DQ9915-3SW-14AUG2017.jpg	SW	Aug 14, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AU-DQ9915-2-14AUG2017.jpg		Aug 14, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_AU-DQ9915-1-14AUG2017.jpg		Aug 14, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107993.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107993.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 B

NGS Name: 6907 B

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0780](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/1050
USGS Quad: BROOKSTON

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	5	50 N	17 W	465048.23	923048.11	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1974	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER IS STEEL ROD

Monument Type	Disk Type	Mon. Agency
COPPER CLAD ROD (NO SLEEVE) (DEPTH 24 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2001) **Stamping:** 6907 B 1974

9.6 MILES NORTH-NORTHWEST OF CLOQUET, 2.7 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS NORTH-NORTHWEST OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOINT 242.2, 102.0 FEET SOUTH OF TRUNK HIGHWAY 2, 97.50 FEET WEST-NORTHWEST OF INDU MNDT RM 3, 95.0 FEET WEST OF A RIGHT-OF-WAY POST, 53.0 FEET WEST OF AN ENTRANCE, 38.6 FEET EAST OF A POWER POLE, 1.0 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1333.655	0.016	406.499	0.005	2/1	2021	00000963
NGVD29	1334.292	0.016	406.693	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.445 12B = -94.432 09 = -94.340 03 = -94.163

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (1996)	46 50 48.23033	92 30 48.10707	484143.083	171762.124	147567.107	52353.200	378.057	3	1999	17648
NAD83 (1986)	46 50 48.22459	92 30 48.10936	484142.923	171761.542	147567.058	52353.023		3	1986	17289
NAD27	46 50 48.43201	92 30 47.40857						3	1977	15924

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_B-RN0780-3SW-25JUL2017.jpg	SW	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_B-RN0780-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_B-RN0780-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27281.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27281.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27282

6907 C

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 C

NGS Name: 6907 C

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	5	50 N	17 W	465048.00	923159.00	2	

NGS ACRN: RN0779	Get Map
NGS Quad / Sta Num : 46092412/	
USGS Quad: BROOKSTON	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	NOT FOUND	Horz=? Vert=YES	NO			STEEL SPIKE ADJ TO MON

Monument Type

COPPER CLAD ROD (NO SLEEVE) (DEPTH 24 FT)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1974)

Stamping: 6907 C 1974

3.7 MILES EAST-SOUTHEAST OF BROOKSTON, 2.0 MILES EAST OF THE EAST END OF TRUNK HIGHWAY 2 BRIDGE NUMBER 5190 OVER A RAILROAD AND THE ST. LOUIS RIVER, AT TRUNK HIGHWAY 2 MILEPOINT 241.25, 101.5 FEET SOUTH OF TRUNK HIGHWAY 2, 12.0 FEET EAST OF AN ENTRANCE SOUTH, 100.5 FEET NORTH OF THE NORTHEAST CORNER OF A GARAGE, 0.3 FOOT NORTH OF AN EAST-WEST FENCE LINE AND A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1319.361	0.016	402.142	0.005	2/0	1991	00000025
NGVD29	1318.938	0.016	402.013	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.488 12B = -94.481 09 = -94.390 03 = -94.212

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27282.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27282.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 D

NGS Name: 6907 D

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0772](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	1	50 N	18 W	465057.00	923429.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1977	DESTROYED	Horz=NO Vert=NO	NO	5190		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STRUCTURE (MASSIVE)	SURVEY DISK	MNDT

Description: (1977) **Stamping:** 6907 D 1974

1.1 MILES EAST OF CLOQUET, 1.1 MILES EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 31 IN CLOQUET.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	Orthometric (Feet)		Orthometric (Meters)		Survey <u>Order/(Class)</u>	Project Info	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1256.129	0.016	382.869	0.005	2/0	1991	00000025
NGVD29	1255.660	0.016	382.726	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.567 12B = -94.567 09 = -94.462 03 = -94.294

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27283.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27283.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 D RESET 1977

NGS Name: 6907 D RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1064](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	1	50 N	18 W	465054.00	923430.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	2006	DESTROYED	Horz=NO Vert=NO	NO	5190		NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
WALL - LIGHT RETAINING	SURVEY DISK	MNDT

Description: (1977)

Stamping: 6907 D 1974 RESET 1977

1.8 MILES SOUTHEAST OF BROOKSTON, 1.4 MILES EAST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31, AT TRUNK HIGHWAY 2 MILEPOINT 239.25, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 2 BRIDGE NUMBER 5190 OVER A RAILROAD AND THE ST. LOUIS RIVER, 18.5 FEET SOUTH OF TRUNK HIGHWAY 2.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.557 12B = -94.557 09 = -94.455 03 = -94.288

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27284.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27284.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 E

NGS Name: 6907 E

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0771](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	50 N	18 W	465059.00	923439.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1977	DESTROYED	Horz=NO Vert=NO	NO	5190		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - LARGE	SURVEY DISK	MNDT

Description: (1977) **Stamping:** 6907 E 1974

0.9 MILE EAST OF CLOQUET, 0.9 MILE EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 31 IN CLOQUET.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1256.231	0.016	382.900	0.005	2/0	1991	00000025
NGVD29	1255.759	0.016	382.756	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.573 12B = -94.573 09 = -94.472 03 = -94.304

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27285.pdf

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Geodetic Data Sheet (Brief)
GSID Station # 27286

6907 E RESET 1977

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 E RESET 1977

NGS Name: 6907 E RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1065](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	50 N	18 W	465100.00	923442.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	2005	DESTROYED	Horz=NO Vert=NO	NO	5190		NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - LARGE	SURVEY DISK	MNDT

Description: (1977)

Stamping: 6907 E 1974 RESET 1977

1.7 MILES SOUTHEAST OF BROOKSTON, 1.25 MILES EAST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31, IN THE NORTHWEST CORNER OF TRUNK HIGHWAY 2 BRIDGE NUMBER 5190, AT TRUNK HIGHWAY 2 MILEPOINT 239.1, 18.5 FEET NORTH OF TRUNK HIGHWAY 2.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.577 12B = -94.577 09 = -94.475 03 = -94.308

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27286.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27287

6907 F

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 F

NGS Name: 6907 F

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0685](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	34	51 N	18 W	465142.00	923618.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	DESTROYED	Horz=NO Vert=NO	YES	7698		NO MAG MATERIAL

Monument Type

BRIDGE CURB

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1974)

Stamping: 6907 F 1974

AT THE SOUTH EDGE OF BROOKSTON, 0.5 MILE NORTH ON COUNTY ROAD 31 FROM THE JUNCTION OF COUNTY ROAD 31 AND TRUNK HIGHWAY 2, IN THE NORTHEAST CURB OF COUNTY ROAD 31 BRIDGE NUMBER 7698 OVER STONEY BROOK, 12.4 FEET EAST OF COUNTY ROAD 31, 3.2 FEET SOUTH OF THE NORTH END OF A CURB, 3.0 FEET SOUTH OF A CHISELED SQUARE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1229. 712	0. 016	374. 817	0. 005	2/1	2011	00000672
NGVD29	1229. 135	0. 016	374. 641	0. 005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.714 12B = -94.711 09 = -94.616 03 = -94.452

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_F-RN0685-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_F-RN0685-2-01NOV2006.jpg		Nov 1, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_F-RN0685-1-01NOV2006.jpg		Nov 1, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27287.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 F 1

NGS Name: 6907 F 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0687](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	27	51 N	18 W	465209.00	923610.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1984	DESTROYED	Horz=NO Vert=NO	NO			NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (1984)

Stamping: 6907 F1 1974

IN BROOKSTON, IN THE SOUTHEAST CORNER OF A COUNTY ROAD 31 BRIDGE OVER THE ST. LOUIS RIVER, 1.05 MILES NORTH ALONG COUNTY ROAD 31 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31, 11.8 FEET EAST OF COUNTY ROAD 31.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1230.959	0.016	375.197	0.005	2/0	1991	00000025
NGVD29	1230.355	0.016	375.013	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.790 12B = -94.787 09 = -94.691 03 = -94.527

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27288.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27288.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27289

6907 G

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 G

NGS Name: 6907 G

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0767](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	3	50 N	18 W	465115.00	923624.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	DESTROYED	Horz=NO Vert=NO	NO	5192		NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - LARGE	SURVEY DISK	MNDT

Description: (1974)

Stamping: 6907 G 1974

0.5 MILE SOUTH OF BROOKSTON, 0.15 MILE WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31, AT TRUNK HIGHWAY 2 MILEPOINT 237.75, 16.9 FEET SOUTH OF TRUNK HIGHWAY 2, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 2 BRIDGE NUMBER 5192 OVER STONEY BROOK.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1241. 622	0. 016	378. 447	0. 005	2/0	1991	00000025
NGVD29	1241. 011	0. 016	378. 261	0. 005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.632 12B = -94.632 09 = -94.537 03 = -94.373

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27289.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27289.pdf



Geodetic Data Sheet (Brief)
GSID Station # 62896

6907 G 1

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 G 1

NGS Name: 6907 G 1

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	35	51 N	18 W	465128.00	923518.00	2	

NGS ACRN: [DM4176](#) [Get Map](#)
 NGS Quad / Sta Num : 46092412/
 USGS Quad: BROOKSTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2006	2017	NOT FOUND	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type

SEE DESCRIPTIVE TEXT

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (2006)

Stamping: 6907 G 1 2006

1.0 MILES SOUTHEAST OF BROOKSTON, 1.40 MILES SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31 NORTH (THE JUNCTION IS 1.0 MILE SOUTH OF BROOKSTON) TO TRUNK HIGHWAY 2 MILEPOINT 238.60, THEN 0.75 MILE NORTHERLY ON A ROAD TO THE BROOKSTON TRANSFER STATION FIRE NUMBER 8609, 50.5 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A BUILDING, 10.0 FEET NORTHEAST OF THE NORTHWEST CORNER OF A WEIGHT STATION BUILDING.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1283.665	0.016	391.262	0.005	2/1	2011	00000672

Geoid Separations(ft): GEOID18 = -94.665 12B = -94.665 09 = -94.563 03 = -94.399

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_G_1-DM4176-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_G_1-DM4176-2-16AUG2007.jpg		Aug 16, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_G_1-DM4176-1-16AUG2007.jpg		Aug 16, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62896.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27290

6907 H

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 H

NGS Name: 6907 H

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0766](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	33	51 N	18 W	465118.00	923707.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	DESTROYED	Horz=NO Vert=NO	YES			STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - MEDIUM	SURVEY DISK	MNDT

Description: (1979)

Stamping: 6907 H 1974

0.8 MILE SOUTHWEST OF BROOKSTON, 0.7 MILE WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31, AT TRUNK HIGHWAY 2 MILEPOINT 237.2, 29.7 FEET NORTH OF A TRUNK HIGHWAY 2, IN THE NORTHWEST CORNER OF A TRUNK HIGHWAY 2 BOX CULVERT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1251.356	0.016	381.414	0.005	2/0	1991	00000025
NGVD29	1250.742	0.016	381.227	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.655 12B = -94.655 09 = -94.560 03 = -94.403

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_H-RN0766-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27290.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27290.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27291

6907 J

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 J

NGS Name: 6907 J

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0758](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	6	50 N	18 W	465118.00	924007.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2007	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

WALL

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: 6907 J 1974

3.2 MILES WEST-SOUTHWEST OF BROOKSTON, 3.1 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31, AT TRUNK HIGHWAY 2 MILEPOINT 234.75, 26.7 FEET SOUTH OF A TRUNK HIGHWAY 2, 85.0 FEET EAST OF A TOWNSHIP ROAD SOUTH, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 2 BOX CULVERT.

Station Notes

THE GEODETIC UNIT COULD NOT FIND ON 8-29-01, NO BOX CULVERTS IN THE AREA.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	Orthometric (Feet)		Orthometric (Meters)		Survey <u>Order/(Class)</u>	Project Info	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1318.459	0.016	401.867	0.005	2/0	1991	00000025
NGVD29	1317.802	0.016	401.667	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.668 12B = -94.665 09 = -94.577 03 = -94.436

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27291.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27291.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27292

6907 K

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 K

NGS Name: 6907 K

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0753](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/1060
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	36	51 N	19 W	465119.09	924155.81	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 16 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2001) **Stamping:** 6907 K 1974

4.4 MILES WEST-SOUTHWEST OF BROOKSTON, 0.85 MILE WEST ON TRUNK HIGHWAY 2 FROM COUNTY ROAD 848, 0.15 MILE WEST ON TRUNK HIGHWAY 2 FROM COUNTY ROAD 847, 103.5 FEET NORTH OF TRUNK HIGHWAY 2, 21.0 FEET SOUTH-SOUTHWEST OF A POWER POLE, 3.2 FEET EAST OF THE SOUTHEAST CORNER OF A TOWN HALL BUILDING, 175.1 FEET NORTHWEST OF STATION ENG MNDT, 162.4 FEET WEST-NORTHWEST OF ENG MNDT RM 1.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1367.189	0.016	416.720	0.005	2/1	2021	00000963
NGVD29	1366.470	0.016	416.501	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.678 12B = -94.668 09 = -94.586 03 = -94.452

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 51 19.09184	92 41 55.80707	437737.783	174981.362	133422.743	53334.426	387.886	3	1999	17648
NAD83 (1986)	46 51 19.08507	92 41 55.80880	437737.660	174980.676	133422.706	53334.217		3	1986	17289
NAD27	46 51 19.28256	92 41 55.10607						3	1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_K-RN0753-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_K-RN0753-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_K-RN0753-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27292.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27293

6907 L

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 L

NGS Name: 6907 L

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0750](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	34	51 N	19 W	465114.14	924425.99	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 6 IN.	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 8 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2001) **Stamping:** 6907 L 1974

1.7 MILES SOUTHEAST OF PAUPORES, 6.5 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31, AT TRUNK HIGHWAY 2 MILEPOINT 231.38, 110.0 FEET NORTH OF TRUNK HIGHWAY 2, 71.0 FEET WEST-NORTHWEST OF A POWER POLE, 9.5 FEET NORTH OF A BARBED WIRE FENCE, 0.5 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1341.579	0.016	408.914	0.005	2/1	2021	00000963
NGVD29	1340.893	0.016	408.705	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.675 12B = -94.665 09 = -94.583 03 = -94.458

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 51 14.13937	92 44 25.98847	427297.752	174515.499	130240.615	53192.431	380.048		2012	GPS2800
NAD83 (2007)	46 51 14.13949	92 44 25.98932	427297.693	174515.512	130240.597	53192.434	380.075		2007	GPS2300
NAD83 (1996)	46 51 14.13912	92 44 25.98890	427297.722	174515.474	130240.606	53192.423	380.115	C	2004	GPS1957

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_L-RN0750-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_L-RN0750-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_L-RN0750-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27293.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 M

NGS Name: 6907 M

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0748](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	4	50 N	19 W	465110.00	924549.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1978	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

WALL

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (1978)

Stamping: 6907 M 1974

1.9 MILES WEST OF BROOKSTON, 1.9 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 845 IN BROOKSTON.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1292.474	0.016	393.947	0.005	2/0	1991	00000025
NGVD29	1291.851	0.016	393.757	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.675 12B = -94.665 09 = -94.580 03 = -94.455

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27294.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27294.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27295

6907 M RESET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 M RESET

NGS Name: 6907 M RESET

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	4	50 N	19 W	465109.67	924549.88	2	3

NGS ACRN: [RN1820](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

Monument Type

CULVERT - ANY SIZE, ANY TYPE

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: 6907 M 1974 RESET 1978

1.4 MILES SOUTH OF PAUPORES, IN THE SOUTHWEST CORNER OF A TRUNK HIGHWAY 2 BOX CULVERT AT A SMALL CREEK, 4.4 MILES SOUTHEAST AND EAST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86 IN GOWAN, AT TRUNK HIGHWAY 2 MILEPOINT 230.3, 42.0 FEET SOUTH OF TRUNK HIGHWAY 2, 200.0 FEET EAST OF NYGAARD ROAD NORTH.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1292. 383	0. 016	393. 919	0. 005	2/1	2021	00000963
NGVD29	1291. 808	0. 016	393. 744	0. 005	2	1978	L23566

Geoid Separations(ft): GEOID18 = -94.675 12B = -94.665 09 = -94.580 03 = -94.455

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_M_RESET-RN1820-3S-25JUL2017.jpg	S	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_M_RESET-RN1820-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_M_RESET-RN1820-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27295.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27295.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27296

6907 N

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 N

NGS Name: 6907 N

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0745](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/1064
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	5	50 N	19 W	465108.00	924702.64	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 8 IN.	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 10 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2001) **Stamping:** 6907 N 1974

7.7 MILES SOUTHWEST OF FLOODWOOD, 8.3 MILES SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 229.3, 118.3 FEET SOUTH OF TRUNK HIGHWAY 2, 50.8 FEET SOUTH OF STATION PAUP MNDT, 85.0 FEET SOUTHWEST OF A POWER POLE NUMBER 11514, 30.0 FEET SOUTHWEST OF A RIGHT-OF-WAY POST, 26.0 FEET SOUTH OF AN EAST-WEST POWER LINE CROSSING, 1.0 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1342.048	0.016	409.057	0.005	2/1	2021	00000963
NGVD29	1341.421	0.016	408.866	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.672 12B = -94.662 09 = -94.577 03 = -94.458

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 51 08.00018	92 47 02.64232	416406.815	173936.870	126921.051	53016.064	380.252	3	1999	17648
NAD83 (1986)	46 51 07.99302	92 47 02.64392	416406.701	173936.145	126921.016	53015.843		3	1986	17289
NAD27	46 51 08.19192	92 47 01.93258						3	1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_N-RN0745-3S-25JUL2017.jpg	S	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_N-RN0745-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_N-RN0745-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27296.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27296.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 P

NGS Name: 6907 P

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0743](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	31	51 N	19 W	465110.15	924738.90	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 4 IN.	MARKER IS STEEL ROD

Monument Type

COPPER CLAD ROD (NO SLEEVE) (DEPTH 16 FT)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: 6907 P 1974

7.2 MILES SOUTHEAST OF FLOODWOOD, 8.0 MILES SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 SOUTH IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 228.8, 135.8 FEET NORTH OF TRUNK HIGHWAY 2, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1328.882	0.016	405.044	0.005	2/1	2021	00000963
NGVD29	1328.252	0.016	404.852	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.682 12B = -94.672 09 = -94.583 03 = -94.465

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<u>Location:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_P-RN0743-3N-25JUL2017.jpg	N	Jul 25, 2017
<u>Monument:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_P-RN0743-2-25JUL2017.jpg		Jul 25, 2017
<u>Disk:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_P-RN0743-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27297.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27297.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 Q

NGS Name: 6907 Q

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0678](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	36	51 N	20 W	465109.00	924919.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2005	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
WALL	SURVEY DISK	MNDT

Description: (2001)

Stamping: 6907 Q 1974

1.5 MILES SOUTHEAST OF GOWAN, 1.6 MILES SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86, AT TRUNK HIGHWAY 2 MILEPOINT 227.45, 23.5 FEET NORTH OF TRUNK HIGHWAY 2, IN THE NORTHWEST CORNER OF A TRUNK HIGHWAY 2 DOUBLE BOX CULVERT AT THE AMIK RIVER, THE GEODETIC UNIT REPORTED ON 8-29-01 THE BOX THE CULVERT WAS GONE, AND A NEW CULVERT IS PRESENT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1265.378	0.016	385.688	0.005	2/0	1991	00000025
NGVD29	1264.751	0.016	385.497	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.685 12B = -94.672 09 = -94.583 03 = -94.468

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27298.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27298.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27299

6907 R

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 R

NGS Name: 6907 R

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0677](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/1066
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	50 N	20 W	465108.07	924944.39	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 14 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2001) **Stamping:** 6907 R 1974

1.3 MILES SOUTHEAST OF GOWAN, 1.3 MILES SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86 IN GOWAN, AT TRUNK HIGHWAY 2 MILEPOINT 227.15, 27.0 FEET SOUTH OF A TOWNSHIP ROAD, 60.0 FEET SOUTH OF A STATION CARTY MNDT, 1.0 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1297. 573	0. 016	395. 501	0. 005	2/1	2021	00000963
NGVD29	1296. 920	0. 016	395. 302	0. 005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.682 12B = -94.668 09 = -94.580 03 = -94.468

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 51 08. 06893	92 49 44. 39155	405164. 076	173994. 967	123494. 257	53033. 772	366. 687	3	1999	17648
NAD83 (1986)	46 51 08. 06211	92 49 44. 39305	405163. 968	173994. 276	123494. 225	53033. 561		3	1986	17289
NAD27	46 51 08. 26134	92 49 43. 67713						3	1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_R-RN0677-3S-24JUL2017.jpg	S	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_R-RN0677-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_R-RN0677-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27299.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 S

NGS Name: 6907 S

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0673](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	35	51 N	20 W	465122.00	925004.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1978	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

WALL

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1978)

Stamping: 6907 S 1974

5.4 MILES WEST OF BROOKSTON, 5.4 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 845 IN BROOKSTON.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1251.835	0.016	381.560	0.005	2/0	1991	00000025
NGVD29	1251.208	0.016	381.369	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.718 12B = -94.708 09 = -94.619 03 = -94.504

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27300.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27300.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27301

6907 S RESET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 S RESET

NGS Name: 6907 S RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1742](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	35	51 N	20 W	465122.36	925004.91	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	VERTICAL CONTROL DISK	MNDT

Description: (2001)

Stamping: 6907 S RESET 1974 1978

IN THE NORTHEAST CORNER OF A TRUNK HIGHWAY 2 BOX CULVERT, 0.9 MILE SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86 IN GOWAN, AT TRUNK HIGHWAY 2 MILEPOINT 226.7, 81.0 FEET NORTHEAST OF TRUNK HIGHWAY 2.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1250. 841	0. 016	381. 257	0. 005	2/1	2021	00000963
NGVD29	1250. 106	0. 016	381. 033	0. 005	2	1978	L23566

Geoid Separations(ft): GEOID18 = -94.721 12B = -94.708 09 = -94.619 03 = -94.508

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_S_RESET-RN1742-3NE-24JUL2017.jpg	NE	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_S_RESET-RN1742-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_S_RESET-RN1742-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27301.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27301.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27302

6907 T

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 T

NGS Name: 6907 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0667](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/1069
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	27	51 N	20 W	465201.59	925100.92	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 21 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2001) **Stamping:** 6907 T 1974

4.75 MILES SOUTHEAST OF FLOODWOOD, 4.65 MILES SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 (THE JUNCTION IS 0.5 MILE SOUTHEAST OF FLOODWOOD), AT TRUNK HIGHWAY 2 MILEPOINT 225.75, 121.4 FEET NORTHEAST OF TRUNK HIGHWAY 2, 86.5 FEET SOUTHWEST OF THE SOUTHWEST MAIN RAILROAD TRACKS, 67.6 FEET NORTH OF GOW MNDT RM 2, 1.2 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1252. 537	0. 016	381. 774	0. 005	2/1	2021	00000963
NGVD29	1251. 914	0. 016	381. 584	0. 005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.826 12B = -94.813 09 = -94.724 03 = -94.609

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 52 01. 59336	92 51 00. 91764	399872. 644	179444. 338	121881. 426	54694. 744	352. 919	3	1999	17648
NAD83 (1986)	46 52 01. 58677	92 51 00. 91937	399872. 521	179443. 671	121881. 388	54694. 540		3	1986	17289
NAD27	46 52 01. 78709	92 51 00. 20338						3	1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_T-RN0667-3N-24JUL2017.jpg	N	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_T-RN0667-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_T-RN0667-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27302.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27302.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27303

6907 U

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 U

NGS Name: 6907 U

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	51 N	20 W	465239.20	925152.10	2	

NGS ACRN: [RN0665](#) [Get Map](#)
NGS Quad / Sta Num : 46092441/
USGS Quad: MCCARTY RIVER

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=NO	NO	RR		NO MAG MATERIAL

Monument Type

WALL

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: 6907 U 1974

1.3 MILES NORTHWEST OF GOWAN, IN THE SOUTHEAST CORNER OF A RAILROAD CULVERT AT A SMALL CREEK, 1.3 MILES NORTHWEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86, AT TRUNK HIGHWAY 2 MILEPOINT 224.7, 167.8 FEET NORTHEAST OF TRUNK HIGHWAY 2, 146.2 FEET NORTH-NORTHEAST OF A RAILROAD SIGN, 15.0 FEET NORTHEAST OF THE NORTHEAST RAIL THE OF A RAILROAD TRACKS.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1240.381	0.016	378.069	0.005	2/0	1991	00000025
NGVD29	1239.791	0.016	377.889	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.921 12B = -94.908 09 = -94.819 03 = -94.708

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27303.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27303.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 V

NGS Name: 6907 V

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0662](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	21	51 N	20 W	465330.00	925242.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1977	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

WALL

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (1977)

Stamping: 6907 V 1974

8.6 MILES WEST OF BROOKSTON, 8.6 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 845 IN BROOKSTON.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1253. 410	0. 016	382. 040	0. 005	2/0	1991	00000025
NGVD29	1252. 826	0. 016	381. 862	0. 005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.046 12B = -95.033 09 = -94.947 03 = -94.836

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27304.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27304.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27305

6907 V RESET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 V RESET

NGS Name: 6907 V RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1741](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	21	51 N	20 W	465330.00	925242.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	2017	NOT FOUND	Horz=NO Vert=NO	YES		PROJECTS 6 IN.	STEEL SPIKE ADJ TO MON

Monument Type

SEE DESCRIPTIVE TEXT

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (2019)

Stamping: 6907V 1974 RESET 1977

2.4 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86 IN GOWAN, AT TRUNK HIGHWAY 2 MILEPOINT 223.55, 72.0 FEET NORTHEAST OF TRUNK HIGHWAY 2.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NGVD29	1250.486	0.016	381.149	0.005	2	1977	L23566

Geoid Separations(ft): GEOID18 = -95.049 12B = -95.033 09 = -94.947 03 = -94.836

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_V_RESET-RN1741-3N-24JUL2017.jpg	N	Jul 24, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27305.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27306

6907 W

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 W

NGS Name: 6907 W

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0660](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/1072
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	16	51 N	20 W	465354.82	925305.31	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1999	GOOD	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 24 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2001) **Stamping:** 6907 W 1974

2.0 MILES SOUTHEAST OF FLOODWOOD, 1.9 MILES SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73, AT TRUNK HIGHWAY 2 MILEPOINT 223.05, 109.7 FEET NORTHEAST OF TRUNK HIGHWAY 2, 97.5 FEET SOUTHEAST OF APCO MNDT RM 1, 96.56 FEET EAST-SOUTHEAST OF STATION APCO MNDT, 16.6 FEET SOUTHWEST OF RAILROAD MILEPOST 73, 3.8 FEET NORTHWEST OF A TELEPHONE POLE NUMBER A115, 0.8 FOOT SOUTHWEST OF A WITNESS POST, 100.3 FEET EAST-SOUTHEAST OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1263.400	0.016	385.085	0.005	2/0	1991	00000025
NGVD29	1262.822	0.016	384.909	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.108 12B = -95.092 09 = -95.006 03 = -94.898

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (1996)	46 53 54.81986	92 53 05.31221	391292.352	190962.158	119266.147	58205.382	356.147	3	1999	17648
NAD83 (1986)	46 53 54.81310	92 53 05.31463	391292.180	190961.474	119266.095	58205.174		3	1986	17289
NAD27	46 53 55.01425	92 53 04.59707						3	1977	15924

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27306.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27306.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27307

6907 X

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 X

NGS Name: 6907 X

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0652](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

1/4	Sec	Twp	Rng	Reference	Reference	Vert	Horz
				Latitude	Longitude	Order	Order
NE	7	51 N	20 W	465517.40	925441.75	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1974	2006	GOOD	Horz=NO Vert=NO	NO	RR		NO MAG MATERIAL

Monument Type	Disk Type	Mon. Agency
BRIDGE ABUTMENT	VERTICAL CONTROL DISK	MNDT

Description: (1999) **Stamping:** 6907 X 1974

0.05 MILE NORTH OF THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 AT FLOODWOOD, IN THE SOUTHWEST CORNER OF A RAILROAD BRIDGE OVER THE SAVANNA RIVER, AT TRUNK HIGHWAY 2 MILEPOINT 220.95, 22.0 FEET SOUTHWEST OF THE SOUTHWEST RAIL OF THE RAILROAD TRACKS, 13.1 FEET NORTH-NORTHEAST OF THE SOUTHWEST END OF A BRIDGE ABUTMENT, 2.5 FEET NORTHEAST OF THE SOUTHWEST EDGE OF CONCRETE.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1247.694	0.016	380.298	0.005	2/1	2004	00000464
NGVD29	1247.137	0.016	380.128	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.308 12B = -95.289 09 = -95.213 03 = -95.098

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (2011)	46 55 17.40172	92 54 41.74563	384644.594	199367.422	117239.907	60767.312	351.247		2012	GPS2800
NAD83 (2007)	46 55 17.40181	92 54 41.74649	384644.535	199367.431	117239.889	60767.315	351.275		2007	GPS2300
NAD83 (1996)	46 55 17.40164	92 54 41.74582	384644.581	199367.414	117239.903	60767.309	351.292	C	2003	GPS1769

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27307.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107926

6907 Y

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 Y

NGS Name: 6907 Y

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9892](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	3	50 N	17 W	465046.71	922907.24	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2019) **Stamping:** 6907 Y 2017

9.2 MILES NORTH OF CLOQUET, 1.3 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOINT 243.5, 59.1 FEET SOUTH OF TRUNK HIGHWAY 2, 22.2 FEET WEST OF DRIVEWAY NUMBER 7642, 2.1 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1303. 049	0. 016	397. 170	0. 005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -94.386 12B = -94.373 09 = -94.281 03 = -94.098

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_Y-DQ9892-3S-09AUG2017.jpg	S	Aug 9, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_Y-DQ9892-2-09AUG2017.jpg		Aug 9, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_Y-DQ9892-1-09AUG2017.jpg		Aug 9, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107926.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6907 Z

NGS Name: 6907 Z

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	5	50 N	17 W	465049.52	923131.04	2	3

NGS ACRN: [DQ9894](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 33 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6907 Z 2017

8.3 MILES SOUTH OF CLOQUET, 3.3 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOINT 240.35, 73.4 FEET NORTH OF TRUNK HIGHWAY 2, 20.7 FEET EAST OF AN ENTRANCE, 29.9 FEET SOUTHWEST OF A POWER POLE NUMBER GL232, 6.0 FEET EAST-SOUTHEAST OF A CABLE BOX, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1323. 157 0. 016	403. 299 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.465 12B = -94.458 09 = -94.367 03 = -94.189

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_Z-DQ9894-3N-09AUG2017.jpg	N	Aug 9, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_Z-DQ9894-2-09AUG2017.jpg		Aug 9, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6907_Z-DQ9894-1-09AUG2017.jpg		Aug 9, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107927.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6908 AN

NGS Name: 6908 AN

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0373](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	1	50 N	17 W	465039.14	922603.44	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1974	2017	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

Monument Type

CULVERT - ANY SIZE, ANY TYPE

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: 6908 AN 1974

1.0 MILE SOUTH-SOUTHEAST OF SAGINAW, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 2 BOX CULVERT AT A SMALL CREEK, 1.1 MILES EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33, 0.85 MILE WEST OF THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 194, 68.0 FEET SOUTH OF TRUNK HIGHWAY 2, 208.0 FEET WEST OF TRUNK HIGHWAY 2 MILEPOST 246.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1320.289	0.016	402.425	0.005	2/1	2021	00000963
NGVD29	1320.043	0.016	402.350	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.239 12B = -94.226 09 = -94.130 03 = -93.937

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6908_AN-RN0373-3S-26JUL2017.jpg	S	Jul 26, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6908_AN-RN0373-2-26JUL2017.jpg		Jul 26, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6908_AN-RN0373-1-26JUL2017.jpg		Jul 26, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27321.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27321.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27336

6911 A

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 A

NGS Name: 6911 A

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0386](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/1171
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	36	50 N	17 W	464609.19	922657.85	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	NOT FOUND	Horz=NO Vert=NO	NO		FLUSH	MARKER IS STEEL ROD

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 12 FT)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1974)

Stamping: 6911 A 1974

3.0 MILES NORTH OF CLOQUET, 4.1 MILES NORTH OF THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 45,
 THEN 200.0 FEET SOUTH ON COUNTY ROAD 696, 28.0 FEET EAST OF COUNTY ROAD 696.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1298.209	0.016	395.695	0.005	2/0	1991	00000025
NGVD29	1297.937	0.016	395.612	0.005	2	1974	L23563

Geoid Separations(ft): GEOID18 = -93.602 12B = -93.586 09 = -93.500 03 = -93.317

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 46 09.18527	92 26 57.84713	500149.873	143483.538	152445.986	43733.870	367.226	3	1999	17648
NAD83 (1986)	46 46 09.17945	92 26 57.85171	500149.554	143482.948	152445.889	43733.690		3	1986	17289
NAD27	46 46 09.38710	92 26 57.15077						3	1977	15924

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27336.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27336.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 AA

NGS Name: 6911 AA

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1877](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	35	51 N	17 W	465150.02	922738.06	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 62 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6911 AA 2017

10.3 MILES NORTH OF CLOQUET, 1.3 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 12.6, 40.3 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 33, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	1366. 910 0. 016	416. 635 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.488 12B = -94.475 09 = -94.376 03 = -94.186

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_AA-DR1877-3E-15AUG2017.jpg	E	Aug 15, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_AA-DR1877-2-15AUG2017.jpg		Aug 15, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_AA-DR1877-1-15AUG2017.jpg		Aug 15, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108057.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108057.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108058

6911 AB

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 AB

NGS Name: 6911 AB

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1876](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	22	51 N	17 W	465300.39	922811.73	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (17) **Stamping:** 6911 AB 2017

11.6 MILES NORTH OF CLOQUET, 2.8 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 14.15, 47.4 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 33, 37.1 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 33, 314.1 FEET NORTH OF A CROSSOVER FOR COUNTY ROAD 874 (INDEPENDENCE ROAD), 12.9 FEET SOUTH OF A LEFT TURN LANE SIGN POST, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1361. 516 0. 016	414. 991 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.688 12B = -94.685 09 = -94.570 03 = -94.383

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_AB-DR1876-3N-15AUG2017.jpg	N	Aug 15, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_AB-DR1876-2-15AUG2017.jpg		Aug 15, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_AB-DR1876-1-15AUG2017.jpg		Aug 15, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108058.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108058.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 AC

NGS Name: 6911 AC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1873](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	10	51 N	17 W	465449.08	922814.55	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6911 AC 2017

13.8 MILES NORTH OF CLOQUET, 4.9 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 16.20, 72.8 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 33, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1342. 442 0. 016	409. 177 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.977 12B = -94.980 09 = -94.855 03 = -94.662

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_AC-DR1873-3W-16AUG2017.jpg	W	Aug 16, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_AC-DR1873-2-16AUG2017.jpg		Aug 16, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_AC-DR1873-1-16AUG2017.jpg		Aug 16, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108059.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108059.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 AD

NGS Name: 6911 AD

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1871](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	34	52 N	17 W	465619.42	922816.62	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 16 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (17) **Stamping:** 6911 AD 2017

15.5 MILES NORTH OF CLOQUET, 6.6 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 17.9, 94.6 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 33, 29.4 FEET NORTH OF ENTRANCE NUMBER 5901, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1356. 887	0. 016	413. 580	0. 005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -95.223 12B = -95.223 09 = -95.095 03 = -94.901							
* No Horizontal Positions in the Database *							

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_AD-DR1871-3W-16AUG2017.jpg	W	Aug 16, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_AD-DR1871-2-16AUG2017.jpg		Aug 16, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_AD-DR1871-1-16AUG2017.jpg		Aug 16, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108060.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108060.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27337

6911 B

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 B

NGS Name: 6911 B

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	25	50 N	17 W	464651.86	922643.16	2	

NGS ACRN: RN0385	Get Map
NGS Quad / Sta Num : 46092143/	
USGS Quad: SAGINAW	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=YES	NO		FLUSH	NO MAG MATERIAL

Monument Type

CONCRETE FOOTING - LARGE

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1974)

Stamping: 6911 B 1974

3.2 MILES NORTH OF CLOQUET, 6.65 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND INTERSTATE HIGHWAY 35 IN CLOQUET TO TRUNK HIGHWAY 33 MILEPOINT 6.65, THEN 0.2 MILE EAST ON COUNTY ROAD 56 (MORRIS THOMAS ROAD), THEN 0.1 MILE NORTH ON A GRASS TRAIL TO A TOWER, IN THE WEST EDGE OF A RADIO TOWER BASE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1293. 245	0. 016	394. 182	0. 005	2/0	1991	00000025
NGVD29	1292. 976	0. 016	394. 100	0. 005	2	1974	L23563

Geoid Separations(ft): GEOID18 = -93.704 12B = -93.691 09 = -93.605 03 = -93.415

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27337.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27337.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27338

6911 C

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 C

NGS Name: 6911 C

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0383](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	26	50 N	17 W	464712.56	922659.18	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=YES	NO		FLUSH	NO MAG MATERIAL

Monument Type

ROCK (0 TO 1 METERS)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1974)

Stamping: 6911 C 1974

3.6 MILES NORTH OF CLOQUET, 7.15 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND INTERSTATE HIGHWAY 35 IN CLOQUET, AT TRUNK HIGHWAY 33 MILEPOINT 7.15, 71.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 33, 3.2 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1245.329	0.016	379.577	0.005	2/1	2021	00000963
NGVD29	1245.050	0.016	379.492	0.005	2	1974	L23563

Geoid Separations(ft): GEOID18 = -93.769 12B = -93.756 09 = -93.671 03 = -93.481

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27338.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27338.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27339

6911 D

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 D

NGS Name: 6911 D

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0382](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	24	50 N	17 W	464752.00	922658.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1999	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

WALL

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (2019)

Stamping: 6911 D 1974

4.2 MILES SOUTH OF SAGINAW, 3.35 MILES SOUTH ON TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2, 20.5 FEET EAST OF TRUNK HIGHWAY 33, AT TRUNK HIGHWAY 33 MILEPOINT 7.9, 3.8 FEET NORTHEAST OF A SIGN POST, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 33 BOX CULVERT AT THE WHITE PINE RIVER.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1198.196	0.016	365.211	0.005	2/0	1991	00000025
NGVD29	1197.927	0.016	365.129	0.005	2	1974	L23563

Geoid Separations(ft): GEOID18 = -93.871 12B = -93.855 09 = -93.773 03 = -93.579

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27339.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27339.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27340

6911 E

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 E

NGS Name: 6911 E

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0381](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	23	50 N	17 W	464807.93	922659.60	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=YES	NO		FLUSH	MARKER IS STEEL ROD

Monument Type

COPPER CLAD ROD (NO SLEEVE) (DEPTH 15 FT)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1974)

Stamping: 6911 E 1974

5.9 MILES NORTH OF CLOQUET, 3.05 MILES SOUTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 8.2, 96.0 FEET WEST OF TRUNK HIGHWAY 33, 212.0 FEET NORTH OF AN ENTRANCE TO THE PINE RIVER CEMETERY, 13.3 FEET NORTH OF A HEADSTONE, 4.8 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1216.103	0.016	370.669	0.005	2/1	2021	00000963
NGVD29	1215.824	0.016	370.584	0.005	2	1974	L23563

Geoid Separations(ft): GEOID18 = -93.914 12B = -93.897 09 = -93.815 03 = -93.619

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27340.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27340.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27341

6911 F

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 F

NGS Name: 6911 F

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0380](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	24	50 N	17 W	464831.29	922652.43	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

Monument Type

CULVERT - ANY SIZE, ANY TYPE

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (1974)

Stamping: 6911 F 1974

IN THE SOUTHEAST CORNER OF A COUNTY ROAD 865 BOX CULVERT IN THE DUTCH SLOUGH, 2.6 MILES SOUTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET) TO TRUNK HIGHWAY 33 MILEPOINT 8.65, THEN 0.05 MILE EAST ON COUNTY ROAD 6 (MAPLE GROVE ROAD), 21.0 FEET SOUTH OF COUNTY ROAD 6 (MAPLE GROVE ROAD).

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1200.191	0.016	365.819	0.005	2/1	2021	00000963
NGVD29	1199.909	0.016	365.733	0.005	2	1974	L23563

Geoid Separations(ft): GEOID18 = -93.970 12B = -93.950 09 = -93.868 03 = -93.671

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_F-RN0380-3S-18JUL2007.jpg	S	Jul 18, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_F-RN0380-2-18JUL2007.jpg		Jul 18, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_F-RN0380-1-18JUL2007.jpg		Jul 18, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27341.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27341.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 G

NGS Name: 6911 G

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	12	50 N	17 W	464952.12	922655.73	2	

NGS ACRN: [RN0377](#)

[Get Map](#)

NGS Quad / Sta Num : 46092143/

USGS Quad: SAGINAW

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=YES	NO		FLUSH	MARKER IS STEEL ROD

Monument Type

COPPER CLAD ROD (NO SLEEVE) (DEPTH 23 FT)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1974)

Stamping: 6911 G 1974

7.8 MILES NORTH OF CLOQUET, 1.35 MILES SOUTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET) TO TRUNK HIGHWAY 33 MILEPOINT 9.9, THEN 0.3 MILE NORTH ON OLD TRUNK HIGHWAY 33, 192.0 FEET EAST OF OLD TRUNK HIGHWAY 33, 162.4 FEET NORTH-NORTHWEST OF DRIVEWAY NUMBER 4368, 58.0 FEET SOUTHEAST OF AN OLD RAILROAD GRADE, 0.9 FOOT SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1260.965	0.016	384.343	0.005	2/1	2021	00000963
NGVD29	1260.716	0.016	384.267	0.005	2	1974	L23563

Geoid Separations(ft): GEOID18 = -94.166 12B = -94.150 09 = -94.065 03 = -93.871

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27342.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27342.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27343

6911 H

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 H

NGS Name: 6911 H

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	13	50 N	17 W	464842.00	922654.00	2	

NGS ACRN: [RN0379](#)

[Get Map](#)

NGS Quad / Sta Num : 46092143/

USGS Quad: SAGINAW

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	DESTROYED	Horz=NO Vert=NO	NO			NO MAG MATERIAL

Monument Type

WALL

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (1974)

Stamping: 6911 H

2.35 MILES SOUTH ON TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 IN SAGINAW, 21.0 FEET EAST OF TRUNK HIGHWAY 33, AT TRUNK HIGHWAY 33 MILEPOINT 8.9, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 33 BOX CULVERT AT THE DUTCH SLOUGH.

Station Notes

A NEW BOX CULVERT WAS PUT IN PLACE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1202. 645	0. 016	366. 567	0. 005	2/0	1991	00000025
NGVD29	1202. 379	0. 016	366. 486	0. 005	2	1974	L23563

Geoid Separations(ft): GEOID18 = -93.996 12B = -93.979 09 = -93.897 03 = -93.701

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27343.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27343.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27344

6911 J

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 J

NGS Name: 6911 J

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0378](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	14	50 N	17 W	464922.87	922702.50	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ROCK (0 TO 1 METERS)	VERTICAL CONTROL DISK	MNDT

Description: (2019) **Stamping:** 6911 J 1974

7.3 MILES NORTH OF CLOQUET, 1.6 MILES SOUTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 9.65, 246.7 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 33, 57.0 FEET SOUTH OF WITTE ROAD, 227.0 FEET WEST AND 50.0 FEET SOUTH OF THE NORTHEAST CORNER OF SECTION 14, 39.7 FEET EAST OF DRIVEWAY NUMBER 7307 EXTENDED, 6.8 FEET NORTH OF A WITNESS POST, IN A 10.0 FOOT BY 12.0 FOOT BOULDER.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1228. 810	0. 016	374. 542	0. 005	2/1	2021	00000963
NGVD29	1228. 551	0. 016	374. 463	0. 005	2	1974	L23563

Geoid Separations(ft): GEOID18 = -94.101 12B = -94.084 09 = -94.002 03 = -93.806

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_J-RN0378-3S-02AUG2017.jpg	S	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_J-RN0378-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_J-RN0378-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27344.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27345

6911 K

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 K

NGS Name: 6911 K

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	50 N	17 W	465045.00	922726.00	2	

NGS ACRN: [RN0053](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1978) **Stamping:** 6911 K

1.2 MILES SOUTHWEST OF SAGINAW, AT THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33, 234.0 FEET NORTH OF TRUNK HIGHWAY 2, 65.6 FEET EAST OF TRUNK HIGHWAY 33, 52.7 FEET NORTH-NORTHEAST OF SAGINAW RM 2, 0.9 FOOT WEST OF A WITNESS POST.

Station Notes

THE ROAD HAS BEEN WIDENED OUT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1336.900	0.016	407.488	0.005	2/0	1991	00000025
NGVD29	1336.648	0.016	407.411	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -94.317 12B = -94.301 09 = -94.209 03 = -94.019

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_K-RN0053-3S-25JUL2017.jpg	S	Jul 25, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27345.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27346

6911 L

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 L

NGS Name: 6911 L

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	35	51 N	17 W	465107.06	922741.17	2	3

NGS ACRN: [RN1027](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	NO MAG MATERIAL

Monument Type

CONCRETE FOOTING - SMALL

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (2007)

Stamping: 6911 L 1978

9.3 MILES NORTH OF CLOQUET, 0.7 MILE NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET) TO TRUNK HIGHWAY 33 MILEPOINT 11.95, THEN 0.3 MILE SOUTHWEST ON COUNTY ROAD 873 (SEVILLE ROAD) TO THE FIRST PARKING LOT ENTRANCE, THEN 0.01 MILE NORTHWEST TO A FLAG POLE, IN THE SOUTHEAST CORNER OF A FLAGPOLE BASE AT THE SAGINAW POWER AUTOMATION, 79.0 FEET NORTH-NORTHEAST OF THE SOUTHEAST CORNER OF AN OLD SCHOOL, 17.5 FEET EAST OF THE EAST WALL OF AN OLD SCHOOL.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1338.954	0.016	408.114	0.005	2/1	2021	00000963
NGVD29	1338.715	0.016	408.041	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -94.380 12B = -94.367 09 = -94.271 03 = -94.084

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_L-RN1027-3NW-02AUG2017.jpg	NW	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_L-RN1027-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_L-RN1027-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27346.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27346.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 M

NGS Name: 6911 M

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1028](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	51 N	17 W	465154.00	922736.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	1987	DESTROYED	Horz=NO Vert=NO	NO	5498		SEE DESCRIPTION

Monument Type

BRIDGE ABUTMENT

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1987)

Stamping: 6911 M 1978

0.9 MILE NORTHWEST OF SAGINAW, 1.4 MILES NORTH ON TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 33 BRIDGE NUMBER 5498 OVER COUNTY ROAD 894 AND A RAILROAD, 19.0 FEET EAST OF TRUNK HIGHWAY 33, AT TRUNK HIGHWAY 33 MILEPOINT 12.65.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1369.741	0.016	417.498	0.005	2/1	1991	00000025
NGVD29	1369.489	0.016	417.421	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -94.495 12B = -94.485 09 = -94.383 03 = -94.196

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27347.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27347.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27348

6911 M 1

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 M 1

NGS Name: 6911 M 1

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	51 N	17 W	465153.76	922738.55	2	3

NGS ACRN: [DO7550](#) [Get Map](#)
 NGS Quad / Sta Num : 46092143/
 USGS Quad: SAGINAW

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1987	2017	GOOD	Horz=NO Vert=NO	YES	69113	FLUSH	NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1987)

Stamping: 6911 M 1 1987

10.15 MILES NORTH OF CLOQUET, IN AN ABUTMENT IN THE SOUTHEAST CORNER OF SOUTHBOUND TRUNK HIGHWAY 33 BRIDGE NUMBER 69113 OVER THE RAILROAD TRACKS AND COUNTY ROAD 694 (SAGINAW ROAD), 1.4 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 12.70, 20.0 FEET EAST OF TRUNK HIGHWAY 33.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1371.444	0.016	418.017	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -94.498 12B = -94.485 09 = -94.386 03 = -94.196

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_M_1-DO7550-3N-02AUG2017.jpg	N	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_M_1-DO7550-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_M_1-DO7550-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27348.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27348.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27349

6911 M RESET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 M RESET

NGS Name: 6911 M RESET

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	51 N	17 W	465153.50	922737.31	2	3

NGS ACRN:	DO7551	Get Map
NGS Quad / Sta Num :	46092143/	
USGS Quad:	SAGINAW	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1987	2017	GOOD	Horz=NO Vert=NO	YES	69114	FLUSH	NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1987)

Stamping: 6911 M RESET 1987

10.15 MILES NORTH OF CLOQUET, IN AN ABUTMENT IN THE SOUTHEAST CORNER OF NORTHBOUND TRUNK HIGHWAY 33 BRIDGE NUMBER 69114 OVER THE RAILROAD TRACKS AND COUNTY ROAD 694 (SAGINAW ROAD), 1.4 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 12.70, 26.0 FEET RIGHT OF TRUNK HIGHWAY 33.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1371.670	0.016	418.086	0.005	2/1	2021	00000963
NGVD29	1371.480	0.016	418.028	0.005	2	1987	L24513

Geoid Separations(ft): GEOID18 = -94.495 12B = -94.485 09 = -94.383 03 = -94.196

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_M_RESET-DO7551-3E-02AUG2017.jpg	E	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_M_RESET-DO7551-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_M_RESET-DO7551-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27349.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27349.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27350

6911 N

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 N

NGS Name: 6911 N

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	26	51 N	17 W	465233.00	922745.00	2	

NGS ACRN: [RN1029](#) [Get Map](#)
 NGS Quad / Sta Num : 46092144/
 USGS Quad: INDEPENDENCE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2008	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

CULVERT - ANY SIZE, ANY TYPE

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1978)

Stamping: 6911 N 1978

0.9 MILE NORTHWEST OF SAGINAW, 2.2 MILES NORTH ON TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2, IN THE SOUTHEAST HEADWALL OF A TRUNK HIGHWAY 33 BOX CULVERT AT BEAR TRAP CREEK, AT TRUNK HIGHWAY 33 MILEPOINT 13.45, 19.4 FEET NORTHEAST OF TRUNK HIGHWAY 33.

Station Notes

THE BOX CULVERT WAS REPLACED.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1333.787	0.016	406.539	0.005	2/1	1991	00000025
NGVD29	1333.531	0.016	406.461	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -94.600 12B = -94.593 09 = -94.485 03 = -94.294

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27350.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27350.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 P

NGS Name: 6911 P

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1034](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	15	51 N	17 W	465341.27	922814.05	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1978	2017	GOOD	Horz=NO Vert=YES	YES		RECESSED 12 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	VERTICAL CONTROL DISK	MNDT

Description: (2007) **Stamping:** 6911 P 1978

12.0 MILES NORTH OF CLOQUET, 3.6 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), 58.7 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 33, AT TRUNK HIGHWAY 33 MILEPOINT 14.85, 48.2 FEET NORTH OF COUNTY ROAD 7, 35.0 FEET EAST OF A POWER POLE NUMBER 87, 35.3 FEET EAST OF A TELEPHONE PEDESTAL NUMBER 1250-8, 3.0 FEET NORTHWEST OF AN INDUSTRIAL ROAD SIGN POST, 1.3 FEET EAST OF A WITNESS POST.

Station Notes

IN 1978 THIS STATION REPLACED SUNSET AZ MK (CJ2861).

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1335.243	0.016	406.983	0.005	2/1	2021	00000963
NGVD29	1335.007	0.016	406.911	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -94.796 12B = -94.796 09 = -94.678 03 = -94.488

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_P-RN1034-3W-02AUG2017.jpg	W	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_P-RN1034-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_P-RN1034-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27351.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27352

6911 Q

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 Q

NGS Name: 6911 Q

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1035](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	51 N	17 W	465433.20	922814.80	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER IS STEEL ROD

Monument Type

COPPER CLAD ROD (NO SLEEVE) (DEPTH 14 FT)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (2007)

Stamping: 6911 Q 1978

13.0 MILES NORTH OF CLOQUET, 4.6 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 15.85, 120.4 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 33, 18.0 FEET SOUTH OF COUNTY ROAD 869 (SUNSET LAKE ROAD), 50.7 FEET SOUTHWEST OF A POWER POLE NUMBER 16-1274, 1.0 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1337. 396	0. 016	407. 639	0. 005	2/1	2021	00000963
NGVD29	1337. 146	0. 016	407. 563	0. 005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -94.934 12B = -94.937 09 = -94.813 03 = -94.619

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_Q-RN1035-3S-02AUG2017.jpg	S	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_Q-RN1035-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_Q-RN1035-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27352.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27352.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27353

6911 R

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 R

NGS Name: 6911 R

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1040](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	34	52 N	17 W	465624.00	922818.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	NOT FOUND	Horz=NO Vert=NO	NO		PROJECTS 2 IN.	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	VERTICAL CONTROL DISK	MNDT

Description: (1978) **Stamping:** 6911 R 1978

6.5 MILES NORTH OF SAGINAW, 1.3 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 53, AT TRUNK HIGHWAY 33 MILEPOINT 18.0, 98.0 FEET WEST OF TRUNK HIGHWAY 33, 68.0 FEET NORTH OF A FIELD ROAD WEST, 137.0 FEET NORTHWEST OF MILEPOST 18, 81.8 FEET NORTHWEST OF THE NORTH END OF A METAL CULVERT, 6.9 FEET SOUTH OF A POWER POLE, 0.5 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1354. 295	0. 016	412. 790	0. 005	2/1	1991	00000025
NGVD29	1354. 036	0. 016	412. 711	0. 005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -95.236 12B = -95.233 09 = -95.108 03 = -94.911

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27353.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27353.pdf



Geodetic Data Sheet (Brief)
GSID Station # 69163

6911 S

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 S

NGS Name: 6911 S

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DO7553](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	2	50 N	17 W	465039.60	922728.60	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1987	2017	GOOD	Horz=NO Vert=NO	YES	69116	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	BENCH MARK DISK	MNDT

Description: (1987)

Stamping: 6911 S 1987

1.5 MILES SOUTHWEST OF SAGINAW, IN THE RAIL IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 33 BRIDGE NUMBER 69116 OVER TRUNK HIGHWAY 2, AT THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2, AT TRUNK HIGHWAY 33 MILEPOINT 11.25, 23.6 FEET EAST OF TRUNK HIGHWAY 33.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1355.962 0.016	413.298 0.005	2/1	2013 00000797

Geoid Separations(ft): GEOID18 = -94.304 12B = -94.288 09 = -94.199 03 = -94.009

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_S-DO7553-3E-25JUL2017.jpg	E	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_S-DO7553-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_S-DO7553-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_69163.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_69163.pdf



Geodetic Data Sheet (Brief)
GSID Station # 69164

6911 T

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 T

NGS Name: 6911 T

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	2	50 N	17 W	465042.70	922730.60	2	

NGS ACRN: DO7552	Get Map
NGS Quad / Sta Num : 46092143/	
USGS Quad: SAGINAW	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1987	2017	GOOD	Horz=NO Vert=NO	YES	69115	FLUSH	NO MAG MATERIAL

Monument Type

BRIDGE RAILING

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (1987)

Stamping: 6911 T 1987

1.45 MILES SOUTHWEST OF SAGINAW, IN THE RAIL IN THE NORTHWEST CORNER OF TRUNK HIGHWAY 33 BRIDGE NUMBER 69115 OVER TRUNK HIGHWAY 2, AT THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2, AT TRUNK HIGHWAY 33 MILEPOINT 11.30, 23.8 FEET WEST OF TRUNK HIGHWAY 33.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1356. 972	0. 016	413. 606	0. 005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -94.314 12B = -94.298 09 = -94.206 03 = -94.019

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_T-DO7552-3W-25JUL2017.jpg	W	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_T-DO7552-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_T-DO7552-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_69164.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_69164.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 U

NGS Name: 6911 U

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DO7549](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	51 N	17 W	465222.55	922734.08	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2020	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 24 FT)	SURVEY DISK	MNDT

Description: (2007) **Stamping:** 6911 U 2007

6.0 MILES SOUTH OF INDEPENDENCE, 6.2 MILES SOUTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 53 IN INDEPENDENCE, AT TRUNK HIGHWAY 33 MILEPOINT 13.25, 72.5 FEET EAST-NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 33, 30.0 FEET NORTH OF SMITH ROAD, 30.0 FEET WEST OF A POWER POLE, 0.9 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1339. 712 0. 016	408. 345 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.567 12B = -94.557 09 = -94.452 03 = -94.262

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 52 22. 54570	92 27 34. 08390	497631. 803	181311. 734	151678. 477	55263. 927	379. 507	3	2020	GPSBM

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_U-DO7549-3E-06JUL2020.jpg	E	Jul 6, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_U-DO7549-2-06JUL2020.jpg		Jul 6, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_U-DO7549-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_73906.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_73906.pdf



Geodetic Data Sheet (Brief)
GSID Station # 73910

6911 V

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 V

NGS Name: 6911 V

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DO7548](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	23	51 N	17 W	465257.71	922812.54	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2017	GOOD	Horz=NO Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2007)

Stamping: 6911 V 2007

5.5 MILES SOUTH OF INDEPENDENCE, 5.4 MILES SOUTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 53 IN INDEPENDENCE, AT TRUNK HIGHWAY 33 MILEPOINT 14.10, 85.0 FEET SOUTHWEST OF SOUTHBOUND TRUNK HIGHWAY 33, 75.5 FEET NORTHWEST OF COUNTY ROAD 874 (INDEPENDENCE ROAD), 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1364. 951 0. 016	416. 038 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.682 12B = -94.678 09 = -94.567 03 = -94.380

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_V-DO7548-3SW-02AUG2017.jpg	SW	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_V-DO7548-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_V-DO7548-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_73910.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_73910.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 W

NGS Name: 6911 W

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1884](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	26	50 N	17 W	464651.29	922658.79	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (17) **Stamping:** 6911 W 2017

4.3 MILES NORTH OF CLOQUET, 4.5 MILES SOUTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 6.75, 45.1 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 33, 81.8 FEET SOUTH OF TIGER DRIVE, 28.4 FEET SOUTHEAST OF A POWER POLE WITH A GUY WIRE, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1276. 631 0. 016	389. 118 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -93.714 12B = -93.697 09 = -93.612 03 = -93.425

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_W-DR1884-3W-21AUG2017.jpg	W	Aug 21, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_W-DR1884-2-21AUG2017.jpg		Aug 21, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_W-DR1884-1-21AUG2017.jpg		Aug 21, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108062.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108062.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 X

NGS Name: 6911 X

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1881](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	13	50 N	17 W	464854.25	922657.65	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (17) **Stamping:** 6911 X 2017

6.7 MILES NORTH OF CLOQUET, 2.15 MILES SOUTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 9.1, 33.9 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 33, 50.9 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 33, 306.1 FEET NORTH OF DRIVEWAY NUMBER 4174 EXTENDED, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1208. 262 0. 016	368. 279 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.029 12B = -94.012 09 = -93.927 03 = -93.733

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_X-DR1881-3S-22AUG2017.jpg	S	Aug 22, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_X-DR1881-2-22AUG2017.jpg		Aug 22, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_X-DR1881-1-22AUG2017.jpg		Aug 22, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108063.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108063.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 Y

NGS Name: 6911 Y

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1880](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	11	50 N	17 W	464934.97	922704.52	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (17) **Stamping:** 6911 Y 2017

7.4 MILES NORTH OF CLOQUET, 1.35 MILES SOUTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 9.9, 37.5 FEET WEST-SOUTHWEST OF SOUTHBOUND TRUNK HIGHWAY 33, 162.1 FEET NORTH-NORTHWEST OF COUNTY ROAD 113 EXTENDED, 1.5 FEET EAST-NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1238. 951 0. 016	377. 633 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.134 12B = -94.114 09 = -94.032 03 = -93.838

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_Y-DR1880-3SW-22AUG2017.jpg	SW	Aug 22, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_Y-DR1880-2-22AUG2017.jpg		Aug 22, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_Y-DR1880-1-22AUG2017.jpg		Aug 22, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108064.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108064.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108065

6911 Z

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6911 Z

NGS Name: 6911 Z

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1878](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	35	51 N	17 W	465117.72	922733.83	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 42 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (17) **Stamping:** 6911 Z 2017

9.5 MILES NORTH OF CLOQUET, 0.7 MILE NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 12.0, 56.1 FEET EAST-NORTHEAST OF SOUTHBOUND TRUNK HIGHWAY 33, 28.3 FEET WEST-SOUTHWEST OF NORTHBOUND TRUNK HIGHWAY 33, 94.5 FEET NORTH-NORTHWEST OF THE CROSSOVER FOR COUNTY ROAD 873 (SEVILLE ROAD), 1.5 FEET NORTH-NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1338. 016 0. 016	407. 828 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.403 12B = -94.390 09 = -94.291 03 = -94.104

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_Z-DR1878-3SE-15AUG2017.jpg	SE	Aug 15, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_Z-DR1878-2-15AUG2017.jpg		Aug 15, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6911_Z-DR1878-1-15AUG2017.jpg		Aug 15, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108065.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108065.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27389

6916 M

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6916 M

NGS Name: 6916 M

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1044](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	26	52 N	17 W	465719.00	922724.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2017	DESTROYED	Horz=NO Vert=NO	NO	69029		MARKER W/BAR MAGNET

Monument Type

BRIDGE ABUTMENT

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (1978)

Stamping: 6916 M 1970

8.0 MILES NORTH OF SAGINAW, AT THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 53 IN INDEPENDENCE, IN THE SOUTHEAST END OF THE SOUTHWEST ABUTMENT OF NORTHBOUND TRUNK HIGHWAY 33 BRIDGE NUMBER 69029 OVER SOUTHBOUND TRUNK HIGHWAY 53, AT TRUNK HIGHWAY 33 MILEPOINT 19.35, 14.1 FEET SOUTHEAST OF NORTHBOUND TRUNK HIGHWAY 33.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1353.895	0.016	412.668	0.005	2/1	2012	00000702
NGVD29	1353.636	0.016	412.589	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -95.338 12B = -95.334 09 = -95.207 03 = -95.013

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27389.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27389.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27390

6916 N

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6916 N

NGS Name: 6916 N

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6471](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	36	52 N	17 W	465630.00	922615.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2017	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1992)

Stamping: 6916 N 1992

1.3 MILES SOUTHEAST OF THE JUNCTION OF TRUNK HIGHWAY 53 AND TRUNK HIGHWAY 33, 69.5 FEET NORTH-NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 53, AT TRUNK HIGHWAY 53 MILEPOINT 22.7, 23.5 FEET EAST OF AN ENTRANCE, 1.3 FEET WEST-NORTHWEST OF A POWER POLE, 1.3 FEET SOUTH-SOUTHWEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1348.534	0.016	411.034	0.005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -95.151 12B = -95.147 09 = -95.016 03 = -94.823

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27390.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27390.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6916 N RESET

NGS Name: 6916 N RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1894](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	36	52 N	17 W	465629.75	922615.55	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017)

Stamping: 6916 N RESET 2017

1.3 MILES SOUTHEAST OF THE JUNCTION OF TRUNK HIGHWAY 53 AND TRUNK HIGHWAY 33, 69.5 FEET NORTH-NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 53, AT TRUNK HIGHWAY 53 MILEPOINT 22.7, 23.5 FEET EAST OF AN ENTRANCE, 1.3 FEET WEST-NORTHWEST OF A POWER POLE, 1.3 FEET SOUTH-SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1348.462 0.016	411.012 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.151 12B = -95.147 09 = -95.016 03 = -94.819

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6916_N_RESET-DR1894-3NE-02AUG2017.jpg	NE	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6916_N_RESET-DR1894-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6916_N_RESET-DR1894-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108219.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108219.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6916 V

NGS Name: 6916 V

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	52 N	17 W	465643.56	922635.89	2	3

NGS ACRN: [DR1893](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (17) **Stamping:** 6916 V 2017

13.5 MILES NORTHWEST OF HERMANTOWN, 11.5 MILES NORTHWEST ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND TRUNK HIGHWAY 194 IN THE NORTHWEST PART OF HERMANTOWN, AT TRUNK HIGHWAY 53 MILEPOINT 23.1, 48.1 FEET SOUTHWEST OF NORTHBOUND TRUNK HIGHWAY 53, 32.4 FEET NORTHEAST OF SOUTHBOUND TRUNK HIGHWAY 53, 36.4 FEET NORTHEAST OF A DITCH BLOCK, 1.5 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1365.020 0.016	416.059 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.203 12B = -95.200 09 = -95.072 03 = -94.875

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6916_V-DR1893-3NW-16AUG2017.jpg	NW	Aug 16, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6916_V-DR1893-2-16AUG2017.jpg		Aug 16, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6916_V-DR1893-1-16AUG2017.jpg		Aug 16, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108068.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108068.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108075

6916 W

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6916 W

NGS Name: 6916 W

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1895](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	36	52 N	17 W	465616.16	922557.51	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 17 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (17) **Stamping:** 6916 W 2017

12.9 MILES NORTHWEST OF HERMANTOWN, 10.7 MILES NORTHWEST ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND TRUNK HIGHWAY 194 IN THE NORTHWEST PART OF HERMANTOWN, AT TRUNK HIGHWAY 53 MILEPOINT 22.35, 76.6 FEET NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 53, 59.9 FEET SOUTHEAST OF A DRIVEWAY, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1340. 604 0. 016	408. 617 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.098 12B = -95.095 09 = -94.967 03 = -94.767

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6916_W-DR1895-3NE-16AUG2017.jpg	NE	Aug 16, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6916_W-DR1895-2-16AUG2017.jpg		Aug 16, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6916_W-DR1895-1-16AUG2017.jpg		Aug 16, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108075.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108075.pdf



Geodetic Data Sheet (Brief)
GSID Station # 42918

6917 A

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 A

NGS Name: 6917 A

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1049](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	26	52 N	17 W	465728.00	922734.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	2001	DESTROYED	Horz=NO Vert=NO	NO	3232	FLUSH	NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (2006)

Stamping: 6917 A 1967

5.8 MILES SOUTH ON TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 AT CANYON, 0.35 MILE NORTHWEST ON TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 53 AT INDEPENDENCE, IN THE NORTHEAST END OF THE SOUTHEAST ABUTMENT OF SOUTHBOUND TRUNK HIGHWAY 53 BRIDGE NUMBER 3232 OVER THE CLOQUET RIVER, 21.2 FEET NORTHEAST OF SOUTHBOUND TRUNK HIGHWAY 53, AT TRUNK HIGHWAY 53 MILEPOINT 24.25

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1310.037	0.016	399.300	0.005	2/1	2012	00000702
NGVD29	1309.771	0.016	399.219	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -95.371 12B = -95.367 09 = -95.239 03 = -95.046

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_42918.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_42918.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 A RESET

NGS Name: 6917 A RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	26	52 N	17 W	465727.74	922733.72	3	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2017	GOOD	Horz=NO Vert=YES	YES	69120	FLUSH	NO MAG MATERIAL

Monument Type
BRIDGE RAILING

Disk Type
REFERENCE MARK DISK

Mon. Agency
MN DT

Description: (2004)

Stamping: 6917 A RESET 2001

IN THE NORTHEAST END OF THE SOUTHEAST RAIL OF SOUTHBOUND TRUNK HIGHWAY 53 BRIDGE NUMBER 69120 OVER THE CLOQUET RIVER, 5.8 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 24.25, 21.2 FEET NORTHEAST OF SOUTHBOUND TRUNK HIGHWAY 53.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.371 12B = -95.364 09 = -95.239 03 = -95.042

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_A_RESET-3NE-02AUG2017.jpg	NE	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_A_RESET-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_A_RESET-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27394.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27394.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27398

6917 AD

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AD

NGS Name: 6917 AD

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6449](#) [Get Map](#)
NGS Quad / Sta Num : 47092243/
USGS Quad: CENTRAL LAKES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	3	55 N	17 W	471616.74	922841.64	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 4 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)	VERTICAL CONTROL DISK	MNDT

Description: (1992) **Stamping:** 6917 AD 1992

7.5 MILES NORTH OF COTTON, 7.2 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 46.20, 136.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53, 2.2 FEET WEST OF A POWER POLE, 3.3 FEET SOUTHWEST OF A WITNESS POST.

Station Notes

DUE TO THE PROXIMITY TO A POWER POLE, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1397.520 0.016	425.965 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.943 12B = -97.939 09 = -97.884 03 = -97.713

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AD-DF6449-3E-13SEP2017.jpg	E	Sep 13, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AD-DF6449-2-13SEP2017.jpg		Sep 13, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AD-DF6449-1-13SEP2017.jpg		Sep 13, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27398.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27398.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27400

6917 AF

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AF

NGS Name: 6917 AF

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	22	55 N	17 W	471423.69	922901.56	2	3

NGS ACRN: [DF6451](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1992)

Stamping: 6917 AF 1992

5.0 MILES NORTH OF COTTON, 5.0 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 44.0, 77.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 45.7 FEET SOUTHWEST OF MILEPOST NUMBER 44, 1.5 FEET EAST OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1344. 210	0. 016	409. 716	0. 005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -97.851 12B = -97.848 09 = -97.779 03 = -97.592

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AF-DF6451-3W-14SEP2017.jpg	W	Sep 14, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AF-DF6451-2-14SEP2017.jpg		Sep 14, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AF-DF6451-1-14SEP2017.jpg		Sep 14, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27400.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27400.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27401

6917 AG

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AG

NGS Name: 6917 AG

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6452](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	55 N	17 W	471314.00	922918.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2017	DESTROYED	Horz=NO Vert=NO	NO			MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1992)

Stamping: 6917 AG 1992

3.5 MILES NORTH OF COTTON, 77.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, AT TRUNK HIGHWAY 53 MILEPOINT 42.65, AND 1.5 FEET EAST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1338.787	0.016	408.063	0.005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -97.762 12B = -97.759 09 = -97.687 03 = -97.493

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27401.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27401.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AG RESET

NGS Name: 6917 AG RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1844](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	27	55 N	17 W	471318.29	922918.10	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2017	2017	GOOD	Horz=NO Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6917 AG RESET 2017

3.5 MILES NORTH OF COTTON, 3.3 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 42.70, 77.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height	Accuracy	Orthometric (Meters) Height	Accuracy	Survey Order/(Class)	Project Info Year	Reference
NAVD88	1338.606	0.016	408.008	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -97.769 12B = -97.766 09 = -97.693 03 = -97.500

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AG_RESET-DR1844-3W-14SEP2017.jpg	W	Sep 14, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AG_RESET-DR1844-2-14SEP2017.jpg		Sep 14, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AG_RESET-DR1844-1-14SEP2017.jpg		Sep 14, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108249.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108249.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AH

NGS Name: 6917 AH

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	34	55 N	17 W	471237.00	922918.00	2	

NGS ACRN:	DF6453	Get Map
NGS Quad / Sta Num :	47092234/	
USGS Quad:	COTTON	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2015	DESTROYED	Horz=NO Vert=NO	NO	6603		NO MAG MATERIAL

Monument Type

CONCRETE FOOTING - LARGE

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (1992)

Stamping: 6917 AH 1992

3.0 MILES NORTH OF COTTON, 18.0 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 53, AT TRUNK HIGHWAY 53 MILEPOINT 41.9, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 53 BRIDGE NUMBER 6603.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1333.498	0.016	406.451	0.005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -97.703 12B = -97.700 09 = -97.621 03 = -97.428

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27402.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27402.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27403

6917 AJ

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AJ

NGS Name: 6917 AJ

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	34	55 N	17 W	471236.28	922916.45	2	3

NGS ACRN:	DF6454	Get Map
NGS Quad / Sta Num :	47092234/	
USGS Quad:	COTTON	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2017	GOOD	Horz=NO Vert=NO	YES	69019	FLUSH	NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (1992)

Stamping: 6917 AJ 1992

3.0 MILES NORTH OF COTTON, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 53 BRIDGE NUMBER 69019 OVER PALEFACE CREEK, 2.9 MILES ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 41.9, 23.5 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO A FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE. THE SURVEY MARK IS UNSUITABLE FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1332. 717	0. 016	406. 213	0. 005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -97.700 12B = -97.700 09 = -97.621 03 = -97.424

*** No Horizontal Positions in the Database ***

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AJ-DF6454-3N-14SEP2017.jpg	N	Sep 14, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AJ-DF6454-2-14SEP2017.jpg		Sep 14, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AJ-DF6454-1-14SEP2017.jpg		Sep 14, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27403.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27403.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27404

6917 AK

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AK

NGS Name: 6917 AK

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	27	53 N	17 W	470314.64	922822.75	2	3

NGS ACRN: [DF6463](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 2 IN.	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (2019)

Stamping: 6917 AK 1992

1.0 MILE NORTH OF CANYON, 1.0 MILE NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON TO TRUNK HIGHWAY 53 MILEPOINT 31.0, THEN 0.1 MILE WEST ON COUNTY ROAD 739 (BERG ROAD), 31.5 FEET SOUTH OF COUNTY ROAD 739 (BERG ROAD), 1.9 FEET NORTH OF A POWER POLE, 1.0 FOOT SOUTH OF A WITNESS POST. THE ROD DEPTH IS UNKNOWN.

Station Notes

DUE TO THE PROXIMITY TO A POWER POLE, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS. THE ROD DEPTH IS UNKNOWN.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1346.595	0.016	410.443	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -96.322 12B = -96.329 09 = -96.181 03 = -95.991

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AK-DF6463-3S-19SEP2017.jpg	S	Sep 19, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AK-DF6463-2-19SEP2017.jpg		Sep 19, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AK-DF6463-1-19SEP2017.jpg		Sep 19, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27404.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27404.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AL

NGS Name: 6917 AL

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	3	52 N	17 W	470043.00	922818.00	2	

NGS ACRN:	DF6467	Get Map
NGS Quad / Sta Num :	47092233/	
USGS Quad:	CANYON	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2017	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1992)

Stamping: 6917 AL 1992

2.0 MILES SOUTH OF CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 28.1, 75.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 2.0 FEET EAST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE. THE ROD DEPTH IS UNKNOWN.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1409.180	0.016	429.519	0.005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -95.909 12B = -95.909 09 = -95.774 03 = -95.584

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27405.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27405.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108250

6917 AL RESET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AL RESET

NGS Name: 6917 AL RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1863](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	3	52 N	17 W	470043.64	922818.35	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=NO Vert=YES	YES		RECESSED 4 IN.	STEEL ROD IMBED IN MON

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: 6917 AL RESET 2017

2.0 MILES SOUTH OF CANYON, 1.9 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 28.1, 75.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 2.0 FEET EAST OF A WITNESS POST.

Station Notes

THE ROD DEPTH IS UNKNOWN.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1408.964	0.016	429.453	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -95.912 12B = -95.909 09 = -95.774 03 = -95.587

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AL_RESET-DR1863-3W-19SEP2017.jpg	W	Sep 19, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AL_RESET-DR1863-2-19SEP2017.jpg		Sep 19, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AL_RESET-DR1863-1-19SEP2017.jpg		Sep 19, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108250.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108250.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27406

6917 AM

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AM

NGS Name: 6917 AM

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6468](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	10	52 N	17 W	470009.00	922818.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2017	DESTROYED	Horz=NO Vert=NO	NO			MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)	VERTICAL CONTROL DISK	MNDT

Description: (1992) Stamping: 6917 AM 1992

2.6 MILES SOUTH OF CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 27.5, 99.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 17.5 FEET NORTH OF AN ENTRANCE, 1.0 FOOT EAST OF A STEEL RIGHT-OF-WAY POST, 1.0 FOOT EAST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1382. 271	0. 016	421. 317	0. 005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -95.820 12B = -95.820 09 = -95.686 03 = -95.495

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27406.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27406.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108251

6917 AM RESET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AM RESET

NGS Name: 6917 AM RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1866](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	10	52 N	17 W	470011.42	922818.48	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=NO Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2019) **Stamping:** 6917 AM RESET 2017

2.6 MILES SOUTH OF CANYON, 2.5 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 27.5, 99.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 17.5 FEET NORTH OF DRIVEWAY NUMBER 6795, 1.0 FOOT EAST OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1382. 182 0. 016	421. 290 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.827 12B = -95.827 09 = -95.692 03 = -95.502

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AM_RESET-DR1866-3W-20SEP2017.jpg	W	Sep 20, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AM_RESET-DR1866-2-19SEP2017.jpg		Sep 19, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AM_RESET-DR1866-1-19SEP2017.jpg		Sep 19, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108251.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108251.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27407

6917 AN

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AN

NGS Name: 6917 AN

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6469](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	52 N	17 W	465942.89	922817.20	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2017	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

Monument Type

CULVERT - ANY SIZE, ANY TYPE

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1992)

Stamping: 6917 AN 1992

3.15 MILES SOUTH OF CANYON, IN THE SOUTHWEST CORNER OF A TRUNK HIGHWAY 53 BOX CULVERT, 3.05 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 26.95, 29.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 0.6 FOOT NORTH OF THE SOUTHWEST CORNER OF A CULVERT.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO A FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE. THE SURVEY MARK IS UNSUITABLE FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1326. 464 0. 016	404. 307 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.754 12B = -95.751 09 = -95.620 03 = -95.426

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AN-DF6469-3W-19SEP2017.jpg	W	Sep 19, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AN-DF6469-2-19SEP2017.jpg		Sep 19, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AN-DF6469-1-19SEP2017.jpg		Sep 19, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27407.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27407.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27408

6917 AP

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AP

NGS Name: 6917 AP

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	26	52 N	17 W	465755.58	922750.66	2	3

NGS ACRN: [DF6470](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1992)

Stamping: 6917 AP 1992

17.0 MILES NORTH OF CLOQUET, 0.9 MILE NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 16.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 53 MILEPOINT 24.8, 100.5 FEET EAST-NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 53, 47.0 FEET SOUTH OF ENTRANCE NUMBER 6216, 15.4 FEET NORTH OF AN UNDERGROUND CABLE PEDESTAL, 1.9 FEET SOUTH-SOUTHEAST OF A POWER POLE, 1.1 FEET NORTH-NORTHWEST OF A WITNESS POST.

Station Notes

DUE TO THE PROXIMITY TO A POWER POLE AND TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1313.232	0.016	400.274	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -95.459 12B = -95.453 09 = -95.321 03 = -95.128

*** No Horizontal Positions in the Database ***

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AP-DF6470-3E-02AUG2017.jpg	E	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AP-DF6470-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AP-DF6470-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27408.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27408.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AS

NGS Name: 6917 AS

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1868](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	52 N	17 W	465732.68	922741.36	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 21 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6917 AS 2107

IN INDEPENDENCE, 0.1 MILE NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 47 (SWAN LAKE ROAD) IN INDEPENDENCE, AT TRUNK HIGHWAY 53 MILEPOINT 24.35, 66.2 FEET SOUTHWEST OF SOUTHBOUND TRUNK HIGHWAY 53, 33.0 FEET NORTHEAST OF A GRAVEL ROAD, 56.9 FEET SOUTHWEST OF THE SOUTH END OF A GUARD RAIL, 1.5 FEET NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1302.054 0.016	396.867 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.390 12B = -95.384 09 = -95.256 03 = -95.062

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AS-DR1868-3SW-17OCT2017.jpg	SW	Oct 17, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AS-DR1868-2-17OCT2017.jpg		Oct 17, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AS-DR1868-1-17OCT2017.jpg		Oct 17, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108293.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108293.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AT

NGS Name: 6917 AT

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1869](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	26	52 N	17 W	465736.15	922736.37	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 21 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) Stamping: 6917 AT 2017

IN INDEPENDENCE, 0.3 MILE NORTHWEST ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND TRUNK HIGHWAY 33 IN INDEPENDENCE, AT TRUNK HIGHWAY 53 MILEPOINT 24.40, 35.5 FEET NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 53, 5.0 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1305.798 0.016	398.008 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.397 12B = -95.390 09 = -95.262 03 = -95.069

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AT-DR1869-3NE-17OCT2017.jpg	NE	Oct 17, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AT-DR1869-2-17OCT2017.jpg		Oct 17, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AT-DR1869-1-17OCT2017.jpg		Oct 17, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108294.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108294.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AU

NGS Name: 6917 AU

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1867](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	23	52 N	17 W	465823.58	922807.59	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6917 AU 2107

4.6 MILES SOUTH OF CANYON, 1.3 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 6.0 MILES SOUTH OF CANYON), AT TRUNK HIGHWAY 53 MILEPOINT 25.40, 34.5 FEET WEST-SOUTHWEST OF NORTHBOUND TRUNK HIGHWAY 53, 49.3 FEET EAST-NORTHEAST OF SOUTHBOUND TRUNK HIGHWAY 53, 74.7 FEET SOUTH-SOUTHEAST OF A CROSSOVER, 1.5 FEET EAST-NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1323. 908 0. 016	403. 528 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.544 12B = -95.538 09 = -95.410 03 = -95.216

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AU-DR1867-3S-17OCT2017.jpg	S	Oct 17, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AU-DR1867-2-17OCT2017.jpg		Oct 17, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AU-DR1867-1-17OCT2017.jpg		Oct 17, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108295.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108295.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AV

NGS Name: 6917 AV

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1861](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	35	53 N	17 W	470146.79	922814.97	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2021	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 36 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) Stamping: 6917 AV 2017

0.7 MILE SOUTH OF CANYON, 0.7 MILE SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 29.30, 75.0 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 53, 45.7 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 53, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1337.097 0.016	407.548 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.076 12B = -96.082 09 = -95.938 03 = -95.751

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u> <u>Latitude</u> <u>Longitude</u>	<u>County (Feet)</u> <u>X</u> <u>Y</u>	<u>County (Meters)</u> <u>X</u> <u>Y</u>	<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAD83 (2011)	47 01 46.79432 92 28 14.96557	494806.474 238481.857	150817.315 72689.415	378.298	3	2021 GPSBM

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AV-DR1861-3S-26JUL2021.jpg	S	Jul 26, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AV-DR1861-2-26JUL2021.jpg		Jul 26, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AV-DR1861-1-26JUL2021.jpg		Jul 26, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108296.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108296.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AW

NGS Name: 6917 AW

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1859](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	53 N	17 W	470238.94	922813.90	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2021	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 28 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) Stamping: 6917 AW 2017

0.3 MILE NORTH OF CANYON, 0.3 MILE NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 30.30, 34.9 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53, 54.7 FEET SOUTH OF THE WEST LEG OF A ROAD SIGN, 5.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1338.311 0.016	407.918 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.220 12B = -96.227 09 = -96.076 03 = -95.889

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u> <u>Latitude</u> <u>Longitude</u>	<u>County (Feet)</u> <u>X</u> <u>Y</u>	<u>County (Meters)</u> <u>X</u> <u>Y</u>	<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAD83 (2011)	47 02 38.93582 92 28 13.90458	494881.362 243764.888	150840.141 74299.686	378.602	3	2021 GPSBM

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AW-DR1859-3E-26JUL2021.jpg	E	Jul 26, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AW-DR1859-2-26JUL2021.jpg		Jul 26, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AW-DR1859-1-26JUL2021.jpg		Jul 26, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108297.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108297.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AX

NGS Name: 6917 AX

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1858](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	23	53 N	17 W	470332.01	922815.05	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6917 AX 2017

1.3 MILES NORTH OF CANYON, 1.3 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 31.30, 35.5 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53, 5.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1345.129 0.016	409.996 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.361 12B = -96.371 09 = -96.220 03 = -96.030

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AX-DR1858-3E-17OCT2017.jpg	E	Oct 17, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AX-DR1858-2-17OCT2017.jpg		Oct 17, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AX-DR1858-1-17OCT2017.jpg		Oct 17, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108298.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108298.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108299

6917 AY

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AY

NGS Name: 6917 AY

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1856](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	2	53 N	17 W	470551.74	922816.88	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 66 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6917 AY 2017

4.8 MILES SOUTH OF COTTON, 4.95 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 34.0, 32.4 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53, 7.3 FEET SOUTH OF MILEPOST NUMBER 34, 5.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1358.524 0.016	414.079 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.729 12B = -96.739 09 = -96.598 03 = -96.404

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AY-DR1856-3E-18OCT2017.jpg	E	Oct 18, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AY-DR1856-2-18OCT2017.jpg		Oct 18, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AY-DR1856-1-18OCT2017.jpg		Oct 18, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108299.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108299.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108300

6917 AZ

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 AZ

NGS Name: 6917 AZ

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	2	53 N	17 W	470633.91	922817.32	2	3

NGS ACRN: [DR1855](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: 6917 AZ 2017

4.0 MILES SOUTH OF COTTON, 4.15 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 34.8, 34.1 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53, 5.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1356.900	0.016	413.584	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -96.837 12B = -96.847 09 = -96.709 03 = -96.516

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AZ-DR1855-3E-18OCT2017.jpg	E	Oct 18, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AZ-DR1855-2-18OCT2017.jpg		Oct 18, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_AZ-DR1855-1-18OCT2017.jpg		Oct 18, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108300.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108300.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 BA

NGS Name: 6917 BA

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	26	54 N	17 W	470824.80	922821.30	2	3

NGS ACRN: [DR1853](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 21 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6917 BA 2017

2.0 MILES SOUTH OF COTTON, 2.05 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 36.90, 97.2 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53, 25.5 FEET NORTH OF MCKAY ROAD, 10.1 FEET WEST OF A RIGHT-OF-WAY POST, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1335.998	0.016	407.213	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -97.126 12B = -97.119 09 = -97.008 03 = -96.811

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BA-DR1853-3E-18OCT2017.jpg	E	Oct 18, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BA-DR1853-2-18OCT2017.jpg		Oct 18, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BA-DR1853-1-18OCT2017.jpg		Oct 18, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108302.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108302.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 BB

NGS Name: 6917 BB

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	22	54 N	17 W	470916.57	922822.84	2	3

NGS ACRN: [DR1852](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 38 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6917 BB 2017

1.0 MILES SOUTH OF COTTON, 1.05 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 37.9, 46.1 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 53, 38.6 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 53, 42.0 FEET SOUTH OF THE CROSSOVER FOR CEMETERY ROAD, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1332. 225 0. 016	406. 063 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.250 12B = -97.247 09 = -97.142 03 = -96.942

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BB-DR1852-3S-17OCT2017.jpg	S	Oct 17, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BB-DR1852-2-17OCT2017.jpg		Oct 17, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BB-DR1852-1-17OCT2017.jpg		Oct 17, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108303.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108303.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 BC

NGS Name: 6917 BC

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	10	54 N	17 W	471052.46	922848.73	2	3

NGS ACRN: [DR1848](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 22 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) Stamping: 6917 BC 2017

1.0 MILE NORTH OF COTTON, 0.85 MILE NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 39.85, 30.5 FEET NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 53, 134.0 FEET NORTH-NORTHEAST OF THE END OF A GUARD RAIL, 5.0 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1318.665 0.016	401.930 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.490 12B = -97.487 09 = -97.388 03 = -97.191

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BC-DR1848-3NE-18OCT2017.jpg	NE	Oct 18, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BC-DR1848-2-18OCT2017.jpg		Oct 18, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BC-DR1848-1-18OCT2017.jpg		Oct 18, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108304.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108304.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 BD

NGS Name: 6917 BD

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	3	54 N	17 W	471104.73	922910.68	2	3

NGS ACRN: [DR1847](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 27 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: 6917 BD 2017

1.2 MILES NORTH OF COTTON, 1.05 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, THEN 0.3 MILE WEST AND NORTHWEST ON COUNTY ROAD 563 (RANDALL ROAD), THEN 0.1 MILE SOUTH ON SOUTHBOUND TRUNK HIGHWAY 53, AT TRUNK HIGHWAY 53 MILEPOINT 40.15, 53.2 FEET WEST-SOUTHWEST OF SOUTHBOUND TRUNK HIGHWAY 53, 22.4 FEET SOUTH-SOUTHEAST OF A FIELD ENTRANCE, 1.5 FEET EAST-NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1313. 613	0. 016	400. 390	0. 005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -97.529 12B = -97.526 09 = -97.431 03 = -97.234

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BD-DR1847-3W-17OCT2017.jpg	W	Oct 17, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BD-DR1847-2-17OCT2017.jpg		Oct 17, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BD-DR1847-1-17OCT2017.jpg		Oct 17, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108306.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108306.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108305

6917 BE

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 BE

NGS Name: 6917 BE

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	3	54 N	17 W	471140.64	922918.94	2	3

NGS ACRN: [DR1846](#) [Get Map](#)
 NGS Quad / Sta Num : 47092234/
 USGS Quad: COTTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6917 BE 2017

1.8 MILES NORTH OF COTTON, 1.85 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 40.80, 72.3 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 82.4 FEET NORTHEAST OF A POWER POLE, 2.6 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1326. 326 0. 016	404. 265 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.605 12B = -97.605 09 = -97.510 03 = -97.313

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BE-DR1846-3W-17OCT2017.jpg	W	Oct 17, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BE-DR1846-2-17OCT2017.jpg		Oct 17, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BE-DR1846-1-17OCT2017.jpg		Oct 17, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108305.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108305.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 BF

NGS Name: 6917 BF

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	34	55 N	17 W	471239.28	922915.50	2	3

NGS ACRN: [DR1845](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) Stamping: 6917 BF 2017

2.9 MILES NORTH OF COTTON, 2.95 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 41.95, 88.8 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53, 10.5 FEET NORTH-NORTHWEST OF A FIBER OPTIC MARKER POST, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1330. 568 0. 016	405. 558 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.706 12B = -97.703 09 = -97.624 03 = -97.431

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BF-DR1845-3E-18OCT2017.jpg	E	Oct 18, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BF-DR1845-2-18OCT2017.jpg		Oct 18, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BF-DR1845-1-18OCT2017.jpg		Oct 18, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108311.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108311.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108313

6917 BG

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 BG

NGS Name: 6917 BG

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1841](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	15	55 N	17 W	471436.64	922858.76	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 54 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6917 BG 2017

5.0 MILES NORTH OF COTTON, 5.25 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 44.25, 34.6 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53, 5.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1347. 878 0. 016	410. 834 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.864 12B = -97.861 09 = -97.795 03 = -97.608

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BG-DR1841-3E-18OCT2017.jpg	E	Oct 18, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BG-DR1841-2-18OCT2017.jpg		Oct 18, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_BG-DR1841-1-18OCT2017.jpg		Oct 18, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108313.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108313.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 D

NGS Name: 6917 D

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1048](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	26	52 N	17 W	465732.96	922732.28	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2018	GOOD	Horz=NO Vert=NO	YES	69030	FLUSH	NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (1978)

Stamping: 6917 D 1970

6.0 MILES SOUTH OF CANYON, 5.7 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON, 0.3 MILE NORTHWEST ON TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND TRUNK HIGHWAY 33 IN INDEPENDENCE, IN THE SOUTHWEST END OF THE SOUTHEAST ABUTMENT OF NORTHBOUND TRUNK HIGHWAY 53 BRIDGE NUMBER 69030 OVER THE CLOQUET RIVER, AT TRUNK HIGHWAY 53 MILEPOINT 24.3, 19.3 FEET SOUTHWEST OF NORTHBOUND TRUNK HIGHWAY 53.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1313. 108	0. 016	400. 236	0. 005	2/1	2021	00000963
NGVD29	1312. 848	0. 016	400. 157	0. 005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -95.384 12B = -95.377 09 = -95.249 03 = -95.056

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<u>Location:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_D-RN1048-3S-02AUG2017.jpg	S	Aug 2, 2017
<u>Monument:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_D-RN1048-2-02AUG2017.jpg		Aug 2, 2017
<u>Disk:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_D-RN1048-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27409.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27409.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 F

NGS Name: 6917 F

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092233/

USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	34	53 N	17 W	470143.00	922815.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	2017	DESTROYED	Horz=NO Vert=NO	NO	69031		NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (1978)

Stamping: 6917 F 1967

IN THE SOUTHEAST CORNER OF SOUTHBOUND TRUNK HIGHWAY 53 BRIDGE NUMBER 69031 OVER HELLWIG CREEK, 0.8 MILE SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON, 0.2 MILE NORTH OF COUNTY ROAD 141, AT TRUNK HIGHWAY 53 MILEPOINT 29.2, 19.4 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 53.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.066 12B = -96.073 09 = -95.928 03 = -95.741

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27410.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27410.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27411

6917 F 1

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 F 1

NGS Name: 6917 F 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6466](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	35	53 N	17 W	470142.42	922813.87	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	GOOD	Horz=NO Vert=NO	YES	69074	FLUSH	NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (1978)

Stamping: 6917 F 1 1978

0.8 MILE SOUTH OF CANYON, IN THE SOUTHEAST CORNER OF NORTHBOUND TRUNK HIGHWAY 53 BRIDGE NUMBER 69074 OVER HELLWIG CREEK, 0.8 MILE SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 29.2.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO A FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1339. 043 0. 016	408. 141 0. 005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -96.063 12B = -96.069 09 = -95.925 03 = -95.738

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_F_1-DF6466-3N-18SEP2017.jpg	N	Sep 18, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_F_1-DF6466-2-18SEP2017.jpg		Sep 18, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_F_1-DF6466-1-18SEP2017.jpg		Sep 18, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27411.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27411.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27412

6917 F 2

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 F 2

NGS Name: 6917 F 2

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	34	53 N	17 W	470141.70	922815.75	2	3

NGS ACRN:	DF6465	Get Map
NGS Quad / Sta Num :	47092233/	
USGS Quad:	CANYON	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2017	GOOD	Horz=NO Vert=NO	YES	69031	FLUSH	NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (1992)

Stamping: 6917 F 2 1992

0.75 MILE SOUTH OF CANYON, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 53 BRIDGE NUMBER 69031 OVER HELLWIG CREEK, 0.80 MILE SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 29.2, 20.0 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 53.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO A FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1335.699	0.016	407.122	0.005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -96.063 12B = -96.069 09 = -95.925 03 = -95.738

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_F_2-DF6465-3N-18SEP2017.jpg	N	Sep 18, 2017
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_F_2-DF6465-1-18SEP2017.jpg		Sep 18, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27412.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27412.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27413

6917 G 1

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 G 1

NGS Name: 6917 G 1

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	15	53 N	17 W	470407.69	922821.14	2	3

NGS ACRN: [DF6462](#)

[Get Map](#)

NGS Quad / Sta Num : 47092233/

USGS Quad: CANYON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON

Monument Type

CONCRETE POST (PREFABRICATED)

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (1978)

Stamping: 6917 G 1 1967

2.0 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 32.0, 219.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 35.0 FEET NORTH OF COUNTY ROAD 133, 1.0 FOOT SOUTH OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1348.488	0.016	411.020	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -96.460 12B = -96.470 09 = -96.322 03 = -96.132

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_1-DF6462-3N-19SEP2017.jpg	N	Sep 19, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_1-DF6462-2-19SEP2017.jpg		Sep 19, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_1-DF6462-1-19SEP2017.jpg		Sep 19, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27413.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27413.pdf



Geodetic Data Sheet (Brief)
GSID Station # 65666

6917 G 1 A

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 G 1 A

NGS Name: 6917 G 1 A

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	53 N	19 W	470411.00	924256.00	2	

NGS ACRN: [DM5616](#) [Get Map](#)
NGS Quad / Sta Num : 47092323/
USGS Quad: MEADOWLANDS

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1964	2007	GOOD	Horz=NO Vert=YES	YES	69502	FLUSH	NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (2007)

Stamping: 6917 G 1 A 2003

0.5 MILE EAST OF MEADOWLANDS, IN AN ABUTMENT AT THE SOUTHEAST CORNER OF COUNTY ROAD 133 BRIDGE NUMBER 69502 OVER THE WHITEFACE RIVER, 0.85 MILE EAST ALONG COUNTY ROAD 133 FROM THE JUNCTION OF COUNTY ROAD 133 AND CENTRAL AVENUE IN MEADOWLANDS, 18.4 FEET SOUTH OF COUNTY ROAD 133. THE DISK WAS SET IN THE BRIDGE WHEN BUILT IN 1964 THEN STAMPED WHEN RECOVERED IN 2003.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1269. 997 0. 016	387. 096 0. 005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -96.771 12B = -96.765 09 = -96.673 03 = -96.493

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_1_A-DM5616-3S-23MAY2007.jpg	S	May 23, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_1_A-DM5616-2-23MAY2007.jpg		May 23, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_1_A-DM5616-1-23MAY2007.jpg		May 23, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65666.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65666.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 G 2

NGS Name: 6917 G 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092233/

USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	10	53 N	17 W	470514.00	922821.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	2017	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 5 IN.	MARKER W/BAR MAGNET

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (1978)

Stamping: 6917 G 2 1967

3.25 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON, AT TRUNK HIGHWAY 53 STATION 1499+18, 94.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 293.0 FEET NORTH OF COUNTY ROAD 232, 1.2 FEET OF A WITNESS POST.

Station Notes

THE CONCRETE WAS FOUND TO BE BROKEN AND THE DISK WAS MISSING.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.634 12B = -96.644 09 = -96.499 03 = -96.306

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27414.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27414.pdf



Geodetic Data Sheet (Brief)
GSID Station # 65905

6917 G 2 A

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 G 2 A

NGS Name: 6917 G 2 A

County: ST. LOUIS, MN (Sheet 1)

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	19	53 N	18 W	470418.00	924051.00	2	

NGS ACRN: [DM5617](#) [Get Map](#)
NGS Quad / Sta Num : 47092323/
USGS Quad: MEADOWLANDS

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2007	2021	POOR	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (2019)

Stamping: 6917 G 2 A 2007

2.5 MILES EAST OF MEADOWLANDS, 2.5 MILES EAST ALONG COUNTY ROAD 133 FROM THE JUNCTION OF COUNTY ROAD 133 AND A SCHOOL IN MEADOWLANDS, 23.5 FEET SOUTH OF COUNTY ROAD 133, 44.0 FEET EAST OF EXTENDED COUNTY ROAD 209, 5.5 FEET NORTH OF A WITNESS POST.

Station Notes

FOUND CAP OFF OF ROD. USE WITH CAUTION.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height	Accuracy	Orthometric (Meters) Height	Accuracy	Survey Order/(Class)	Project Info Year	Reference
NAVD88	1281.736	0.016	390.674	0.005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -96.785 12B = -96.778 09 = -96.680 03 = -96.496

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_2_A-DM5617-3S-12JUN2007.jpg	S	Jun 12, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_2_A-DM5617-2-12JUN2007.jpg		Jun 12, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_2_A-DM5617-1-12JUN2007.jpg		Jun 12, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65905.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65905.pdf



Geodetic Data Sheet (Brief)
GSID Station # 65906

6917 G 3

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 G 3

NGS Name: 6917 G 3

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DM5618](#) [Get Map](#)
NGS Quad / Sta Num : 47092323/
USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	17	53 N	18 W	470417.17	923858.72	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2020	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 43 FT)	SURVEY DISK	MNDT

Description: (2007) **Stamping:** 6917 G 3 2007

4.0 MILES EAST OF MEADOWLANDS, 4.0 MILES EAST ALONG COUNTY ROAD 133 FROM THE JUNCTION OF COUNTY ROAD 133 AND A SCHOOL IN MEADOWLANDS, 30.0 FEET NORTH OF COUNTY ROAD 133, 12.0 FEET WEST OF AN ENTRANCE, 21.8 FEET SOUTHWEST OF A TELEPHONE BOX, 3.0 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1287. 009 0. 016	392. 281 0. 005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -96.762 12B = -96.755 09 = -96.650 03 = -96.466

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 04 17. 17309	92 38 58. 72247	450246. 615	253781. 152	137235. 443	77352. 650	362. 798	3	2020	GPSBM

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_3-DM5618-3N-12JUL2020.jpg	N	Jul 12, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_3-DM5618-2-12JUL2020.jpg		Jul 12, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_3-DM5618-1-12JUL2020.jpg		Jul 12, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65906.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65906.pdf



Geodetic Data Sheet (Brief)
GSID Station # 65907

6917 G 4

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 G 4

NGS Name: 6917 G 4

County: ST. LOUIS, MN (Sheet 1)

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	16	53 N	18 W	470409.00	923709.00	2	

NGS ACRN: [DM5619](#)

[Get Map](#)

NGS Quad / Sta Num : 47092322/

USGS Quad: PAYNE

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2007	2007	GOOD	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (2007)

Stamping: 6917 G 4 2007

2.0 MILES SOUTH-SOUTHWEST OF PAYNE, 5.5 MILES EAST ALONG COUNTY ROAD 133 FROM THE JUNCTION OF COUNTY ROAD 133 AND A SCHOOL IN MEADOWLANDS, 48.0 FEET NORTH OF COUNTY ROAD 133, 14.0 FEET WEST OF AN ENTRANCE, 33.5 FEET SOUTHWEST OF A MINIMUM ROAD SIGN, 32.0 FEET EAST-NORTHEAST OF THE NORTH LEG OF THE WHITEFACE RIVER STATE FOREST SIGN, 2.4 FEET SOUTH OF A WITNESS POST.

Station Notes

FOUND CAP LOOSE. USE WITH CAUTION.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height	Accuracy	Orthometric (Meters) Height	Accuracy	Survey Order/(Class)	Project Info Year	Reference
NAVD88	1293.567	0.016	394.280	0.005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -96.712 12B = -96.706 09 = -96.598 03 = -96.414

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_4-DM5619-3N-12JUN2007.jpg	N	Jun 12, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_4-DM5619-2-12JUN2007.jpg		Jun 12, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_4-DM5619-1-12JUN2007.jpg		Jun 12, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65907.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65907.pdf



Geodetic Data Sheet (Brief)
GSID Station # 65908

6917 G 5

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 G 5

NGS Name: 6917 G 5

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	53 N	18 W	470410.00	923554.00	2	

NGS ACRN: [DM5620](#) [Get Map](#)
NGS Quad / Sta Num : 47092322/
USGS Quad: PAYNE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2007	GOOD	Horz=NO Vert=YES	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	SURVEY DISK	MNDT

Description: (2007) **Stamping:** 6917 G 5 2007

1.8 MILES SOUTH OF PAYNE AT THE JUNCTION OF COUNTY ROAD 7 AND COUNTY ROAD 133, IN A HEADWALL OF A BOX CULVERT IN THE SOUTHEAST CORNER OF A COUNTY ROAD 133 CULVERT OVER A CREEK, 33.4 FEET SOUTH OF COUNTY ROAD 133, 99.6 FEET EAST OF COUNTY ROAD 7.

Station Notes

THE DISK IS SET IN A DRILL HOLE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1303.688	0.016	397.365	0.005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -96.696 12B = -96.689 09 = -96.571 03 = -96.391

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_5-DM5620-3W-12JUN2007.jpg	W	Jun 12, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_5-DM5620-2-12JUN2007.jpg		Jun 12, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_5-DM5620-1-12JUN2007.jpg		Jun 12, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65908.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65908.pdf



Geodetic Data Sheet (Brief)
GSID Station # 65909

6917 G 6

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 G 6

NGS Name: 6917 G 6

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DM5621](#) [Get Map](#)
NGS Quad / Sta Num : 47092322/
USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	1	53 N	18 W	470556.00	923401.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2007	POOR	Horz=NO Vert=NO	YES		PROJECTS 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 29 FT)	SURVEY DISK	MNDT

Description: (2007) **Stamping:** 6917 G 6 2007

1.5 MILES EAST-NORTHEAST OF PAYNE, 0.2 MILE NORTH ALONG COUNTY ROAD 7 FROM THE CENTER OF PAYNE, THEN 1.5 MILES EAST ON COUNTY ROAD 232 TO A DITCH CROSSING, 33.7 FEET SOUTH OF COUNTY ROAD 232, 10.9 FEET WEST OF AN ENTRANCE, 1.8 FEET NORTH OF A WITNESS POST.

Station Notes

FOUND CAP LOOSE. USE WITH CAUTION.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1311.201 0.016	399.655 0.005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -96.939 12B = -96.932 09 = -96.814 03 = -96.630

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_6-DM5621-3S-12JUN2007.jpg	S	Jun 12, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_6-DM5621-2-12JUN2007.jpg		Jun 12, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_6-DM5621-1-12JUN2007.jpg		Jun 12, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65909.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65909.pdf



Geodetic Data Sheet (Brief)
GSID Station # 65910

6917 G 7

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 G 7

NGS Name: 6917 G 7

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DM5622](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	9	53 N	17 W	470514.44	922956.65	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2020	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)	SURVEY DISK	MNDT

Description: (2007) **Stamping:** 6917 G 7 2007

3.4 MILES NORTH-NORTHWEST OF CANYON, 3.1 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON TO TRUNK HIGHWAY 53 MILEPOINT 33.25, THEN 1.3 MILES WEST ON COUNTY ROAD 232, 35.6 FEET NORTH OF COUNTY ROAD 232, 20.9 FEET WEST OF A DRIVEWAY, 95.9 FEET WEST OF A POWER POLE, 73.0 FEET SOUTHWEST OF AN EAST GATE POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1359.236 0.016	414.296 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.699 12B = -96.706 09 = -96.565 03 = -96.378

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 05 14.44096	92 29 56.65542	487774.692	259524.138	148674.024	79103.116	384.848	3	2020	GPSBM

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_7-DM5622-3N-12JUL2020.jpg	N	Jul 12, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_7-DM5622-2-12JUL2020.jpg		Jul 12, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_G_7-DM5622-1-12JUL2020.jpg		Jul 12, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65910.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65910.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27415

6917 H

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 H

NGS Name: 6917 H

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	10	53 N	17 W	470532.43	922820.41	2	3

NGS ACRN: [DF6461](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 3 IN.	STEEL ROD IMBED IN MON

Monument Type

CONCRETE POST (PREFABRICATED)

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (2007)

Stamping: 6917 H 1967

3.5 MILES NORTH OF CANYON, 3.5 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 33.6, 95.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 173.0 FEET NORTH OF A FIELD ENTRANCE WEST, 1.1 FEET SOUTH OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1361.087	0.016	414.860	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -96.683 12B = -96.689 09 = -96.548 03 = -96.355

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_H-DF6461-3W-19SEP2017.jpg	W	Sep 19, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_H-DF6461-2-19SEP2017.jpg		Sep 19, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_H-DF6461-1-19SEP2017.jpg		Sep 19, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27415.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27415.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27416

6917 J

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 J

NGS Name: 6917 J

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	54 N	17 W	470755.98	922817.04	2	3

NGS ACRN: [DF6459](#) [Get Map](#)
 NGS Quad / Sta Num : 47092234/
 USGS Quad: COTTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2017	GOOD	Horz=NO Vert=NO	YES	91065	FLUSH	NO MAG MATERIAL

Monument Type

CULVERT - ANY SIZE, ANY TYPE

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (1970)

Stamping: 6917 J 1970

2.6 MILES SOUTH OF COTTON, IN THE SOUTHEAST CORNER OF NORTHBOUND TRUNK HIGHWAY 53 BOX CULVERT NUMBER 91065 OVER JENKINS CREEK, 2.6 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 36.40, 25.8 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO A FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE. THE SURVEY MARK IS UNSUITABLE FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1336. 041 0. 016	407. 226 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.050 12B = -97.047 09 = -96.929 03 = -96.732

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_J-DF6459-3E-18SEP2017.jpg	E	Sep 18, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_J-DF6459-2-18SEP2017.jpg		Sep 18, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_J-DF6459-1-18SEP2017.jpg		Sep 18, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27416.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27416.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 K

NGS Name: 6917 K

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6458](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	15	54 N	17 W	470925.00	922823.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2017	NOT FOUND	Horz=NO Vert=NO	NO			STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2019)

Stamping:

1.0 MILE SOUTH OF COTTON, AT TRUNK HIGHWAY 53 STATION 1752+00, 160.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1331.470	0.016	405.833	0.005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -97.270 12B = -97.267 09 = -97.162 03 = -96.965

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27417.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27417.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27418

6917 L

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 L

NGS Name: 6917 L

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	53 N	17 W	470237.00	922812.00	2	

NGS ACRN: [DF6464](#) [Get Map](#)
 NGS Quad / Sta Num : 47092233/
 USGS Quad: CANYON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	1992	DESTROYED	Horz=NO Vert=NO	NO			NO MAG MATERIAL

Monument Type

CONCRETE FOOTING - MEDIUM

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (1978)

Stamping: 6917 L 1970

IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 53 BOX CULVERT HEADWALL, 0.3 MILE NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 30.25, 17.9 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53.

Station Notes

THE CULVERT HAS BEEN REPLACED.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1340.355	0.016	408.541	0.005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -96.214 12B = -96.220 09 = -96.069 03 = -95.882

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27418.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27418.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27419

6917 M

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 M

NGS Name: 6917 M

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	3	53 N	17 W	470611.70	922820.60	2	

NGS ACRN: [DF6460](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 2 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2007) **Stamping:** 6917 M 1967

4.6 MILES SOUTH OF COTTON, 4.5 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 34.4, 86.5 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 1.0 FOOT SOUTH OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1364. 741 0. 016	415. 974 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.785 12B = -96.791 09 = -96.653 03 = -96.460

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_M-DF6460-3W-19SEP2017.jpg	W	Sep 19, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_M-DF6460-2-19SEP2017.jpg		Sep 19, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_M-DF6460-1-19SEP2017.jpg		Sep 19, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27419.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27419.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27420

6917 M 1

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 M 1

NGS Name: 6917 M 1

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	NGS ACRN: DF6456 NGS Quad / Sta Num : 47092234/ USGS Quad: COTTON	Get Map
NE	10	54 N	17 W	471048.87	922846.61	2	3		
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>		
1964	2017	GOOD	Horz=NO Vert=NO	YES	69018	FLUSH	NO MAG MATERIAL		

Monument Type

BRIDGE ABUTMENT

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (1992)

Stamping: 6917 M 1 1964

0.75 MILE NORTH OF COTTON, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 53 BRIDGE NUMBER 69018, 0.75 MILE NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 39.75, 19.5 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO A FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE. THE SURVEY MARK IS UNSUITABLE FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1322.845	0.016	403.204	0.005	2/1	2021	00000963
Geoid Separations(ft): GEOID18 = -97.480 12B = -97.477 09 = -97.378 03 = -97.182							
* No Horizontal Positions in the Database *							

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_M_1-DF6456-3N-14SEP2017.jpg	N	Sep 14, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_M_1-DF6456-2-14SEP2017.jpg		Sep 14, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6917_M_1-DF6456-1-14SEP2017.jpg		Sep 14, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27420.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27420.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27421

6917 N

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 N

NGS Name: 6917 N

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6455](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	3	54 N	17 W	471107.00	922910.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1953	1990	DESTROYED	Horz=NO Vert=NO	NO	6604		NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (1992)

Stamping: 6917 N

IN THE SOUTHEAST CORNER OF SOUTHBOUND TRUNK HIGHWAY 53 BRIDGE NUMBER 6604 OVER THE WHITEFACE RIVER,
 1.2 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN
 COTTON.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1318.278	0.016	401.812	0.005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -97.533 12B = -97.533 09 = -97.434 03 = -97.237

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27421.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27421.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 P

NGS Name: 6917 P

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092234/

USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	22	55 N	17 W	471338.00	922913.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1966	2017	NOT FOUND	Horz=? Vert=YES	NO			STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (1966)

Stamping:

5.0 MILES NORTH OF COTTON, AT TRUNK HIGHWAY 53 STATION 1733+66, 108.0 FEET EAST OF TRUNK HIGHWAY 53.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.795 12B = -97.792 09 = -97.720 03 = -97.529

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27422.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27422.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27423

6917 Q

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6917 Q

NGS Name: 6917 Q

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6450](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	22	55 N	17 W	471504.00	922854.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1966	2017	DESTROYED	Horz=NO Vert=NO	NO			STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (1992)

Stamping:

6.0 MILES NORTH OF COTTON, AT TRUNK HIGHWAY 53 STATION 1771+04, AT TRUNK HIGHWAY 53 MILEPOINT 44.8, 80.0 FEET EAST OF TRUNK HIGHWAY 53, 1.0 FOOT WEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1355.017 0.016	413.010 0.005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -97.890 12B = -97.887 09 = -97.825 03 = -97.644

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27423.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27423.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 A

NGS Name: 6927 A

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	32	51 N	20 W	465135.44	925441.38		C

NGS ACRN: [DE9539](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1953	2017	DESTROYED	Horz=NO Vert=NO	NO			NO MAG MATERIAL

Monument Type

CULVERT - ANY SIZE, ANY TYPE

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (1999)

Stamping: 6927 A 1953

4.2 MILES SOUTH ON TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73, IN THE SOUTHEAST HEADWALL OF A TRUNK HIGHWAY 73 BOX CULVERT, AT TRUNK HIGHWAY 73 MILEPOINT 38.70, STATION 221+96, THE 25.0 FEET EAST OF TRUNK HIGHWAY 73.

Station Notes

THE DISK HAS BEEN REMOVED.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.741 12B = -94.731 09 = -94.636 03 = -94.534

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>		
NAD83 (2011)	46 51 35.43998	92 54 41.38451	384537.276	176878.767	117207.196	53912.756	356.576		2012	GPS2800		
NAD83 (2007)	46 51 35.44010	92 54 41.38538	384537.215	176878.779	117207.178	53912.760	356.605		2007	GPS2300		
NAD83 (1996)	46 51 35.43977	92 54 41.38493	384537.246	176878.746	117207.187	53912.750	356.627	C	2003	GPS1769		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27504.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27504.pdf



Geodetic Data Sheet (Brief)
GSID Station # 40552

6927 B

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 B

NGS Name: 6927 B

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9540](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	8	51 N	20 W	465442.29	925439.23	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	SURVEY DISK	MNDT

Description: (1999) **Stamping:** 6927 B 1999

0.65 MILE SOUTH OF FLOODWOOD, 0.65 MILE SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 42.3, 67.0 FEET EAST OF TRUNK HIGHWAY 73, 16.1 FEET SOUTH-SOUTHWEST OF A POWER POLE, 21.0 FEET NORTH OF AN ENTRANCE, 3.0 FEET SOUTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1270.388 0.016	387.215 0.005	2/1	2004 00000464

Geoid Separations(ft): GEOID18 = -95.216 12B = -95.200 09 = -95.121 03 = -95.010

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 54 42.29254	92 54 39.22971	384798.329	195809.221	117286.765	59682.770	358.196		2012	GPS2800
NAD83 (2007)	46 54 42.29264	92 54 39.23057	384798.270	195809.232	117286.747	59682.773	358.224		2007	GPS2300
NAD83 (1996)	46 54 42.29245	92 54 39.22986	384798.319	195809.212	117286.762	59682.767	358.241	C	2003	GPS1769

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40552.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40552.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 B RESET

NGS Name: 6927 B RESET

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	8	51 N	20 W	465442.29	925439.23	2	3

NGS ACRN: [DR5171](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=NO Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017)

Stamping: 6927 B RESET 2017

0.65 MILE SOUTH OF FLOODWOOD, 0.65 MILE SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 42.3, 67.0 FEET EAST OF TRUNK HIGHWAY 73, 16.1 FEET SOUTH-SOUTHWEST OF A POWER POLE, 21.0 FEET NORTH OF AN ENTRANCE, 3.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1270.306	0.016	387.190	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -95.216 12B = -95.200 09 = -95.121 03 = -95.010

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_B_RESET-DR5171-3E-06SEP2017.jpg	E	Sep 6, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_B_RESET-DR5171-2-06SEP2017.jpg		Sep 6, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_B_RESET-DR5171-1-06SEP2017.jpg		Sep 6, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108198.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108198.pdf



Geodetic Data Sheet (Brief)
GSID Station # 40553

6927 C

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 C

NGS Name: 6927 C

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	17	51 N	20 W	465412.18	925439.49	2	C

NGS ACRN: [DE9541](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	SURVEY DISK	MNDT

Description: (1999) **Stamping:** 6927 C 1999

1.2 MILES SOUTH OF FLOODWOOD, 1.2 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 41.75, 76.0 FEET EAST OF TRUNK HIGHWAY 73, 40.0 FEET SOUTH OF COUNTY ROAD 839, 3.0 FEET NORTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1276.290 0.016	389.014 0.005	2/1	2004 00000464

Geoid Separations(ft): GEOID18 = -95.138 12B = -95.124 09 = -95.042 03 = -94.934

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u> <u>Latitude</u> <u>Longitude</u>	<u>County (Feet)</u> <u>X</u> <u>Y</u>	<u>County (Meters)</u> <u>X</u> <u>Y</u>	<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAD83 (2011)	46 54 12.17948 92 54 39.48984	384762.329 192758.353	117275.792 58752.864	360.011		2012 GPS2800
NAD83 (2007)	46 54 12.17957 92 54 39.49071	384762.268 192758.363	117275.774 58752.866	360.040		2007 GPS2300
NAD83 (1996)	46 54 12.17928 92 54 39.49019	384762.304 192758.333	117275.785 58752.857	360.065	C	2003 GPS1769

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40553.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40553.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 C RESET

NGS Name: 6927 C RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5173](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	17	51 N	20 W	465412.18	925439.49	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 8 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017)

Stamping: 6927 C RESET 2017

1.2 MILES SOUTH OF FLOODWOOD, 1.2 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 41.75, 76.0 FEET EAST OF TRUNK HIGHWAY 73, 36.7 FEET SOUTH OF COUNTY ROAD 839, 3.0 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1276.097 0.016	388.955 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.138 12B = -95.124 09 = -95.042 03 = -94.934

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_C_RESET-DR5173-3SE-10AUG2017.jpg	SE	Aug 10, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_C_RESET-DR5173-2-10AUG2017.jpg		Aug 10, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_C_RESET-DR5173-1-10AUG2017.jpg		Aug 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108136.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108136.pdf



Geodetic Data Sheet (Brief)
GSID Station # 40556

6927 D

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 D

NGS Name: 6927 D

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	29	51 N	20 W	465202.06	925439.25	2	C

NGS ACRN:	DE9542	Get Map
NGS Quad / Sta Num :	46092443/	
USGS Quad:	PRAIRIE LAKE	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (1999)

Stamping: 6927 D 1999

3.75 MILES SOUTH OF FLOODWOOD, 3.75 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 39.2, 123.0 FEET EAST OF TRUNK HIGHWAY 73, 33.0 FEET NORTH OF COUNTY ROAD 840, 7.0 FEET EAST OF AN ENTRANCE, 2.6 FEET WEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1270.978	0.016	387.395	0.005	2/1	2004	00000464

Geoid Separations(ft): GEOID18 = -94.810 12B = -94.800 09 = -94.705 03 = -94.603

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>				
NAD83 (2011)	46 52 02.05521	92 54 39.25094	384701.406	179574.460	117257.223	54734.405	358.500		2012	GPS2800
NAD83 (2007)	46 52 02.05532	92 54 39.25181	384701.346	179574.472	117257.205	54734.408	358.528		2007	GPS2300
NAD83 (1996)	46 52 02.05500	92 54 39.25136	384701.377	179574.439	117257.214	54734.398	358.550	C	2003	GPS1769

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40556.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40556.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 D RESET

NGS Name: 6927 D RESET

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	29	51 N	20 W	465202.05	925439.25	2	3

NGS ACRN: [DR5177](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 12 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017)

Stamping: 6927 D RESET 2017

3.75 MILES SOUTH OF FLOODWOOD, 3.75 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 39.2, 123.0 FEET EAST OF TRUNK HIGHWAY 73, 33.0 FEET NORTH OF COUNTY ROAD 840 (MIRBAT ROAD), 7.0 FEET EAST OF A FIELD ENTRANCE, 2.6 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1270. 755 0. 016	387. 327 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.810 12B = -94.800 09 = -94.705 03 = -94.603

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_D_RESET-DR5177-3N-10AUG2017.jpg	N	Aug 10, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_D_RESET-DR5177-2-10AUG2017.jpg		Aug 10, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_D_RESET-DR5177-1-10AUG2017.jpg		Aug 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108144.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108144.pdf



Geodetic Data Sheet (Brief)
GSID Station # 40557

6927 E

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 E

NGS Name: 6927 E

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9543](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	32	51 N	20 W	465122.56	925440.80	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	SURVEY DISK	MNDT

Description: (2019) **Stamping:** 6927 E 1999

4.5 MILES SOUTH OF FLOODWOOD, 4.5 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 38.45, 74.0 FEET EAST OF TRUNK HIGHWAY 73, 5.8 FEET SOUTH OF A FENCE CORNER, 4.0 FEET SOUTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1269.591 0.016	386.972 0.005	2/1	2004 00000464

Geoid Separations(ft): GEOID18 = -94.708 12B = -94.701 09 = -94.603 03 = -94.498

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 51 22.55717	92 54 40.80038	384570.190	175573.286	117217.228	53514.845	358.106		2012	GPS2800
NAD83 (2007)	46 51 22.55728	92 54 40.80125	384570.129	175573.298	117217.210	53514.848	358.134		2007	GPS2300
NAD83 (1996)	46 51 22.55696	92 54 40.80079	384570.161	175573.265	117217.220	53514.838	358.157	C	2003	GPS1931

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40557.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40557.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108187

6927 E RESET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 E RESET

NGS Name: 6927 E RESET

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	32	51 N	20 W	465122.56	925440.80	2	3

NGS ACRN: [DR5179](#) [Get Map](#)
 NGS Quad / Sta Num : 46092443/
 USGS Quad: PRAIRIE LAKE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: 6927 E RESET 2017

4.5 MILES SOUTH OF FLOODWOOD, 4.5 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 38.45, 74.0 FEET EAST OF TRUNK HIGHWAY 73, 5.8 FEET SOUTH OF A FENCE CORNER, 4.0 FEET SOUTH OF A WITNESS POST.

Station Pair: FALBO - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1269.440	0.016	386.926	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -94.708 12B = -94.701 09 = -94.603 03 = -94.498

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_E_RESET-DR5179-3E-06SEP2017.jpg	E	Sep 6, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_E_RESET-DR5179-2-06SEP2017.jpg		Sep 6, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_E_RESET-DR5179-1-06SEP2017.jpg		Sep 6, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108187.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108187.pdf



Geodetic Data Sheet (Brief)
GSID Station # 40558

6927 F

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 F

NGS Name: 6927 F

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9544](#) [Get Map](#)
 NGS Quad / Sta Num : 46092443/
 USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	5	50 N	20 W	465036.08	925437.56	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)	SURVEY DISK	MNDT

Description: (2019) **Stamping:** 6927 F 1999

5.4 MILES SOUTH OF FLOODWOOD, 5.4 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 37.55, 71.0 FEET SOUTHEAST OF TRUNK HIGHWAY 73, 15.0 FEET SOUTHWEST OF AN ENTRANCE, 69.0 FEET WEST-NORTHWEST OF A POWER POLE, 2.5 FEET SOUTHEAST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1267.563 0.016	386.354 0.005	2/1	2004 00000464

Geoid Separations(ft): GEOID18 = -94.583 12B = -94.577 09 = -94.481 03 = -94.376

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 50 36.07928	92 54 37.56415	384767.456	170862.990	117277.355	52079.144	357.530		2012	GPS2800
NAD83 (2007)	46 50 36.07940	92 54 37.56501	384767.396	170863.002	117277.337	52079.147	357.559		2007	GPS2300
NAD83 (1996)	46 50 36.07907	92 54 37.56457	384767.427	170862.969	117277.346	52079.137	357.581	C	2003	GPS1769

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40558.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40558.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108185

6927 F RESET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 F RESET

NGS Name: 6927 F RESET

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	5	50 N	20 W	465036.08	925437.56	2	3

NGS ACRN: [DR5180](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: 6927 F RESET 2017

5.4 MILES SOUTH OF FLOODWOOD, 5.4 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 37.55, 71.0 FEET SOUTHEAST OF TRUNK HIGHWAY 73, 69.0 FEET WEST-NORTHWEST OF A POWER POLE WITH A GUY WIRE, 15.0 FEET SOUTHWEST OF A FIELD ENTRANCE, 2.5 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1267. 363	0. 016	386. 293	0. 005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -94.583 12B = -94.577 09 = -94.481 03 = -94.376

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_F_RESET-DR5180-3SE-06SEP2017.jpg	SE	Sep 6, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_F_RESET-DR5180-2-06SEP2017.jpg		Sep 6, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_F_RESET-DR5180-1-06SEP2017.jpg		Sep 6, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108185.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108185.pdf



Geodetic Data Sheet (Brief)
GSID Station # 40560

6927 G

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 G

NGS Name: 6927 G

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9545](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	18	50 N	20 W	464906.87	925445.93	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	SURVEY DISK	MNDT

Description: (1999) **Stamping:** 6927 G 1999

7.15 MILES SOUTH OF FLOODWOOD, 7.15 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 35.80, 73.0 FEET WEST OF TRUNK HIGHWAY 73, 5.1 FEET NORTH-NORTHEAST OF A RIGHT-OF-WAY POST, 2.7 FEET NORTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1292. 865 0. 016	394. 066 0. 005	2/1	2004 00000464

Geoid Separations(ft): GEOID18 = -94.331 12B = -94.327 09 = -94.229 03 = -94.127

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>				
NAD83 (2011)	46 49 06. 87453	92 54 45. 93094	384132. 460	161828. 533	117083. 808	49325. 436	365. 317		2012	GPS2800
NAD83 (2007)	46 49 06. 87465	92 54 45. 93180	384132. 400	161828. 546	117083. 790	49325. 439	365. 346		2007	GPS2300
NAD83 (1996)	46 49 06. 87432	92 54 45. 93137	384132. 430	161828. 512	117083. 799	49325. 429	365. 369	C	2003	GPS1769

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40560.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40560.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 G RESET

NGS Name: 6927 G RESET

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	18	50 N	20 W	464906.87	925445.93	2	3

NGS ACRN: [DR5183](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=NO Vert=YES	YES		RECESSED 6 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: 6927 G RESET 2017

7.15 MILES SOUTH OF FLOODWOOD, 7.15 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 35.80, 73.0 FEET WEST OF TRUNK HIGHWAY 73, 5.1 FEET NORTH-NORTHWEST OF A RIGHT-OF-WAY POST, 2.7 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1292. 671	0. 016	394. 007	0. 005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -94.331 12B = -94.327 09 = -94.229 03 = -94.127

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_G_RESET-DR5183-3W-06SEP2017.jpg	W	Sep 6, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_G_RESET-DR5183-2-06SEP2017.jpg		Sep 6, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_G_RESET-DR5183-1-06SEP2017.jpg		Sep 6, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108182.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108182.pdf



Geodetic Data Sheet (Brief)
GSID Station # 40561

6927 H

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 H

NGS Name: 6927 H

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9546](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	18	50 N	20 W	464834.65	925445.78	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (1999)

Stamping: 6927 H 1999

8.0 MILES SOUTH OF FLOODWOOD, 7.95 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 35.05, 250.0 FEET NORTH OF TRUNK HIGHWAY 73, 23.0 FEET WEST OF COUNTY ROAD 827, 3.2 FEET SOUTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1291.989	0.016	393.799	0.005	2/1	2004	00000464

Geoid Separations(ft): GEOID18 = -94.239 12B = -94.232 09 = -94.134 03 = -94.035

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>				
NAD83 (2011)	46 48 34.65168	92 54 45.78334	384123.456	158563.785	117081.064	48330.338	365.085		2012	GPS2800
NAD83 (2007)	46 48 34.65179	92 54 45.78420	384123.396	158563.797	117081.045	48330.342	365.114		2007	GPS2300
NAD83 (1996)	46 48 34.65146	92 54 45.78377	384123.426	158563.763	117081.054	48330.332	365.137	C	2003	GPS1769

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40561.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40561.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 H RESET

NGS Name: 6927 H RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5185](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	18	50 N	20 W	464834.65	925445.78	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6927 H RESET 2017

8.0 MILES SOUTH OF FLOODWOOD, 7.95 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 35.05, 250.0 FEET NORTH OF TRUNK HIGHWAY 73, 23.0 FEET WEST OF COUNTY ROAD 827 (MOBERG ROAD), 3.2 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	1291.799 0.016	393.741 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.239 12B = -94.232 09 = -94.134 03 = -94.035

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_H_RESET-DR5185-3W-06SEP2017.jpg	W	Sep 6, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_H_RESET-DR5185-2-06SEP2017.jpg		Sep 6, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_H_RESET-DR5185-1-06SEP2017.jpg		Sep 6, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108181.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108181.pdf



Geodetic Data Sheet (Brief)
GSID Station # 40564

6927 J

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 J

NGS Name: 6927 J

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9547](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	21	50 N	20 W	464743.33	925313.67	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 50 FT)	SURVEY DISK	MNDT

Description: (1999) **Stamping:** 6927 J 1999

8.0 MILES NORTH OF CROMWELL, 8.25 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 210 IN CROMWELL, AT A TRUNK HIGHWAY 73 MILEPOINT 33.45, 69.0 FEET NORTH OF TRUNK HIGHWAY 73, 45.0 FEET EAST OF AN ENTRANCE, 3.7 FEET NORTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1289.981 0.016	393.187 0.005	2/1	2004 00000464

Geoid Separations(ft): GEOID18 = -94.091 12B = -94.081 09 = -93.989 03 = -93.884

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>				
NAD83 (2011)	46 47 43.32798	92 53 13.66902	390502.122	153327.100	119025.285	46734.194	364.503		2012	GPS2800
NAD83 (2007)	46 47 43.32809	92 53 13.66988	390502.062	153327.112	119025.267	46734.197	364.532		2007	GPS2300
NAD83 (1996)	46 47 43.32775	92 53 13.66949	390502.089	153327.077	119025.275	46734.187	364.557	C	2003	GPS1769

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40564.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40564.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 J RESET

NGS Name: 6927 J RESET

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	21	50 N	20 W	464743.33	925313.67	2	3

NGS ACRN: [DR5188](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 50 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017)

Stamping: 6927 J RESET 2017

8.0 MILES NORTH OF CROMWELL, 8.25 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 210 IN CROMWELL, AT TRUNK HIGHWAY 73 MILEPOINT 33.46, 69.0 FEET NORTH OF TRUNK HIGHWAY 73, 45.0 FEET EAST OF AN ENTRANCE TO A GRAVEL PIT, 14.7 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1289. 751 0. 016	393. 117 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.091 12B = -94.081 09 = -93.989 03 = -93.884

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_J_RESET-DR5188-3N-06SEP2017.jpg	N	Sep 6, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_J_RESET-DR5188-2-06SEP2017.jpg		Sep 6, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_J_RESET-DR5188-1-06SEP2017.jpg		Sep 6, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108216.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108216.pdf



Geodetic Data Sheet (Brief)
GSID Station # 40565

6927 K

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 K

NGS Name: 6927 K

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	50 N	20 W	464718.09	925245.29	2	C

NGS ACRN: [DE9548](#) [Get Map](#)
 NGS Quad / Sta Num : 46092443/
 USGS Quad: PRAIRIE LAKE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (1999)

Stamping: 6927 K 1999

7.65 MILES NORTH OF CROMWELL, 7.65 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 210 IN CROMWELL, TO TRUNK HIGHWAY 73 MILEPOINT 32.85, THEN 0.1 MILE EAST ON A ROAD, 30.0 FEET NORTH OF A ROAD, 3.5 FEET WEST-SOUTHWEST OF A FENCE CORNER, 113.6 FEET WEST OF A POWER POLE, 2.5 FEET WEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1305.900	0.016	398.039	0.005	2/1	2004	00000464

Geoid Separations(ft): GEOID18 = -94.016 12B = -94.002 09 = -93.914 03 = -93.809

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 47 18.08916	92 52 45.28821	392462.874	150759.095	119622.923	45951.464	369.374		2012	GPS2800
NAD83 (2007)	46 47 18.08928	92 52 45.28907	392462.814	150759.108	119622.905	45951.468	369.402		2007	GPS2300
NAD83 (1996)	46 47 18.08893	92 52 45.28865	392462.843	150759.072	119622.914	45951.457	369.426	C	2003	GPS1931

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40565.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40565.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 K RESET

NGS Name: 6927 K RESET

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	50 N	20 W	464718.09	925245.29	2	3

NGS ACRN: [DR5189](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017)

Stamping: 6927 K RESET 2017

7.65 MILES NORTH OF CROMWELL, 7.65 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 210 IN CROMWELL TO TRUNK HIGHWAY 73 MILEPOINT 32.85, THEN 0.1 MILE EAST ON COUNTY ROAD 86, 30.0 FEET NORTH OF COUNTY ROAD 86, 3.5 FEET WEST-SOUTHWEST OF A FENCE CORNER, 2.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1305.834 0.016	398.019 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.016 12B = -94.002 09 = -93.914 03 = -93.809

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_K_RESET-DR5189-3N-06SEP2017.jpg	N	Sep 6, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_K_RESET-DR5189-2-06SEP2017.jpg		Sep 6, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_K_RESET-DR5189-1-06SEP2017.jpg		Sep 6, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108215.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108215.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108543

6927 L

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 L

NGS Name: 6927 L

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5184](#) [Get Map](#)
 NGS Quad / Sta Num : 46092443/
 USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	17	50 N	20 W	464906.30	925444.43	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6927 L 2017

7.5 MILES SOUTH OF FLOODWOOD, 7.15 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 35.8, 32.3 FEET EAST OF TRUNK HIGHWAY 73, 45.3 FEET NORTH OF AN ENTRANCE, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1293. 915 0. 016	394. 386 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.331 12B = -94.324 09 = -94.229 03 = -94.127

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_L-DR5184-3E-10OCT2017.jpg	E	Oct 10, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_L-DR5184-2-10OCT2017.jpg		Oct 10, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_L-DR5184-1-10OCT2017.jpg		Oct 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108543.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108543.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 M

NGS Name: 6927 M

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	20	51 N	20 W	465334.96	925440.43	2	3

NGS ACRN: [DR5174](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: 6927 M 2017

1.9 MILES SOUTH OF FLOODWOOD, 1.9 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 41.0, 43.3 FEET EAST OF TRUNK HIGHWAY 73, 18.9 FEET SOUTHEAST OF MILEPOST NUMBER 41, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1286.316	0.016	392.070	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -95.046 12B = -95.029 09 = -94.944 03 = -94.839

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_M-DR5174-3E-09OCT2017.jpg	E	Oct 9, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_M-DR5174-2-09OCT2017.jpg		Oct 9, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_M-DR5174-1-09OCT2017.jpg		Oct 9, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108553.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108553.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108554

6927 N

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6927 N

NGS Name: 6927 N

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5172](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	8	51 N	20 W	465434.05	925441.24	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 22 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017)

Stamping: 6927 N 2017

1.25 MILES SOUTH OF FLOODWOOD, 0.75 MILE SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 42.1, 64.2 FEET WEST OF TRUNK HIGHWAY 73, 46.5 FEET NORTH OF AN ENTRANCE, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1273. 856 0. 016	388. 272 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.193 12B = -95.180 09 = -95.098 03 = -94.990

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_N-DR5172-3W-09OCT2017.jpg	W	Oct 9, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_N-DR5172-2-09OCT2017.jpg		Oct 9, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6927_N-DR5172-1-09OCT2017.jpg		Oct 9, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108554.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108554.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6928 A

NGS Name: 6928 A

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5120](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	6	57 N	20 W	465541.37	925452.45	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6928 A 2017

IN FLOODWOOD, 0.3 MILE NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 43.4, 36.3 FEET EAST OF TRUNK HIGHWAY 73, 43.5 FEET SOUTH OF A GRAVEL ROAD, 90.9 FEET NORTH OF THE NORTHEAST CORNER OF A BRIDGE, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1244. 594	0. 016	379. 353	0. 005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -95.367 12B = -95.351 09 = -95.275 03 = -95.161

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_A-DR5120-3E-31JUL2017.jpg	E	Jul 31, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_A-DR5120-2-31JUL2017.jpg		Jul 31, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_A-DR5120-1-31JUL2017.jpg		Jul 31, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107774.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107774.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6928 B

NGS Name: 6928 B

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5121](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	6	51 N	20 W	465629.46	925437.02	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 46 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6928 B 2017

0.9 MILE NORTH OF FLOODWOOD, 1.2 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 44.4, 33.7 FEET WEST-NORTHWEST OF TRUNK HIGHWAY 73, 39.3 FEET NORTH-NORTHEAST OF A FIELD ENTRANCE, 1.5 EAST-SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1249. 331 0. 016	380. 797 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.495 12B = -95.479 09 = -95.403 03 = -95.282

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_B-DR5121-3W-01AUG2017.jpg	W	Aug 1, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_B-DR5121-2-01AUG2017.jpg		Aug 1, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_B-DR5121-1-01AUG2017.jpg		Aug 1, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107775.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107775.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6928 C

NGS Name: 6928 C

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	32	52 N	20 W	465701.98	925411.09	2	3

NGS ACRN: [DR5122](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 46 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6928 C 2017

1.9 MILES NORTH OF FLOODWOOD, 1.95 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 45.1, 36.1 FEET EAST-SOUTHEAST OF TRUNK HIGHWAY 73, 16.9 FEET NORTH-NORTHEAST OF A FIELD ENTRANCE, 1.5 WEST-NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1251. 976 0. 016	381. 603 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.584 12B = -95.567 09 = -95.498 03 = -95.367

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_C-DR5122-3E-31JUL2017.jpg	E	Jul 31, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_C-DR5122-2-31JUL2017.jpg		Jul 31, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_C-DR5122-1-31JUL2017.jpg		Jul 31, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107776.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107776.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6928 D

NGS Name: 6928 D

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5124](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	20	52 N	20 W	465820.97	925435.43	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 51 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6928 D 2017

3.0 MILES NORTH OF FLOODWOOD, 3.65 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 46.75, 33.0 FEET WEST OF TRUNK HIGHWAY 73, 12.7 FEET NORTH OF A FIELD ENTRANCE, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1249.108 0.016	380.729 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.790 12B = -95.771 09 = -95.712 03 = -95.567

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_D-DR5124-3W-01AUG2017.jpg	W	Aug 1, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_D-DR5124-2-01AUG2017.jpg		Aug 1, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_D-DR5124-1-01AUG2017.jpg		Aug 1, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107777.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107777.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6928 E

NGS Name: 6928 E

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5125](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	18	52 N	20 W	465856.93	925436.09	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 43 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6928 E 2017

4.0 MILES NORTH OF FLOODWOOD, 4.25 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 47.5, 100.5 FEET WEST OF TRUNK HIGHWAY 73, 18.6 FEET NORTH OF COUNTY ROAD 732 (PARANTALA ROAD). 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1251. 313 0. 016	381. 401 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.886 12B = -95.866 09 = -95.810 03 = -95.659

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_E-DR5125-3N-01AUG2017.jpg	N	Aug 1, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_E-DR5125-2-01AUG2017.jpg		Aug 1, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_E-DR5125-1-01AUG2017.jpg		Aug 1, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107778.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107778.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6928 F

NGS Name: 6928 F

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5129](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	6	52 N	20 W	470044.34	925525.98	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 33 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6928 F 2017

6.0 MILES NORTH OF FLOODWOOD, 6.5 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 49.7, 82.3 FEET EAST-NORTHEAST OF TRUNK HIGHWAY 73, 29.6 FEET SOUTH-SOUTHEAST OF A FIELD ENTRANCE, 1.5 FEET WEST-SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1247. 832 0. 016	380. 340 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.158 12B = -96.138 09 = -96.092 03 = -95.925

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_F-DR5129-3E-31JUL2017.jpg	E	Jul 31, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_F-DR5129-2-31JUL2017.jpg		Jul 31, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_F-DR5129-1-31JUL2017.jpg		Jul 31, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107779.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107779.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6928 G

NGS Name: 6928 G

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5130](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	36	53 N	21 W	470135.07	925553.57	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 47 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6928 G 2017

7.1 MILES NORTH OF FLOODWOOD, 7.5 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 50.7, 65.6 FEET EAST-NORTHEAST OF TRUNK HIGHWAY 73, 1.5 FEET WEST-SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1258.190 0.016	383.497 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.279 12B = -96.263 09 = -96.217 03 = -96.043

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_G-DR5130-3E-02AUG2017.jpg	E	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_G-DR5130-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_G-DR5130-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107780.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107780.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6928 H

NGS Name: 6928 H

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5133](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	25	53 N	21 W	470309.02	925708.27	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 44 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6928 H 2017

8.9 MILES NORTH OF FLOODWOOD, 9.65 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 52.85, 55.2 FEET NORTHEAST OF TRUNK HIGHWAY 73, 83.9 FEET EAST OF COUNTY ROAD 186 (NORTH SAVANNA ROAD), 14.4 FEET SOUTHWEST OF CABLE BOX NUMBER A 69, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u>	<u>Orthometric (Feet)</u>	<u>Orthometric (Meters)</u>	<u>Survey</u>	<u>Project Info</u>
<u>Datum</u>	<u>Height</u>	<u>Accuracy</u>	<u>Order/(Class)</u>	<u>Year</u>
NAVD88	1249.453	0.016	2/1	2021

Geoid Separations(ft): GEOID18 = -96.476 12B = -96.463 09 = -96.424 03 = -96.240

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
<u>Adjustment</u>	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 03 09.01847	92 57 08.27107	374779.359	247213.403	114232.977	75350.796	351.431	3	2022	GPSBM

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_H-DR5133-3NE-01AUG2017.jpg	NE	Aug 1, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_H-DR5133-2-01AUG2017.jpg		Aug 1, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_H-DR5133-1-05DEC2022.jpg		Dec 5, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107781.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107781.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6928 J

NGS Name: 6928 J

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5134](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	23	53 N	21 W	470335.48	925802.13	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 48 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6928 J 2017

9.5 MILES NORTH OF FLOODWOOD, 10.5 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 53.7, 53.8 FEET SOUTHWEST OF TRUNK HIGHWAY 73, 21.5 FEET NORTHWEST OF AN ENTRANCE, 1.5 NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1247.412 0.016	380.212 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.519 12B = -96.509 09 = -96.466 03 = -96.279

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_J-DR5134-3SW-02AUG2017.jpg	SW	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_J-DR5134-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_J-DR5134-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107782.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107782.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6928 K

NGS Name: 6928 K

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	10	53 N	21 W	470505.36	925915.80	2	3

NGS ACRN: [DR5137](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 58 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) Stamping: 6928 K 2017

11.5 MILES NORTH-NORTHWEST OF FLOODWOOD, 12.5 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 55.75, 97.4 FEET WEST-SOUTHWEST OF TRUNK HIGHWAY 73, 42.6 FEET NORTH OF COUNTY ROAD 133, 5.0 FEET EAST-NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1262. 212	0. 016	384. 723	0. 005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -96.660 12B = -96.657 09 = -96.611 03 = -96.430

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_K-DR5137-3N-02AUG2017.jpg	N	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_K-DR5137-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_K-DR5137-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107783.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107783.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6928 L

NGS Name: 6928 L

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	10	53 N	21 W	470541.92	925933.44	2	3

NGS ACRN: [DR5138](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 52 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6928 L 2017

12.2 MILES NORTH-NORTHWEST OF FLOODWOOD, 13.25 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 56.5, 50.9 FEET WEST-SOUTHWEST OF TRUNK HIGHWAY 73, 25.3 FEET NORTH-NORTHWEST OF A FIELD ENTRANCE, 1.5 FEET NORTH-NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1267. 888	0. 016	386. 453	0. 005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -96.716 12B = -96.709 09 = -96.663 03 = -96.489

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_L-DR5138-3SW-02AUG2017.jpg	SW	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_L-DR5138-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_L-DR5138-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107784.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107784.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107785

6928 M

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6928 M

NGS Name: 6928 M

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5142](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	21	54 N	21 W	470846.67	930005.26	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 61 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017)

Stamping: 6928 M 2017

20.0 MILES SOUTH-SOUTHWEST OF HIBBING, 18.65 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 60.1, 46.6 FEET WEST-SOUTHWEST OF TRUNK HIGHWAY 73, 1.5 FEET EAST-NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1297.022 0.016	395.333 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.965 12B = -96.958 09 = -96.913 03 = -96.745

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_M-DR5142-3SW-02AUG2017.jpg	SW	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_M-DR5142-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_M-DR5142-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107785.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107785.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6928 N

NGS Name: 6928 N

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5143](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	16	54 N	21 W	470919.97	930020.44	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 39 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6928 N 2017

19.4 MILES SOUTH-SOUTHWEST OF HIBBING, 18.0 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 60.80, 66.4 FEET WEST-SOUTHWEST OF TRUNK HIGHWAY 73, 64.7 FEET SOUTH-SOUTHEAST OF COUNTY ROAD 184 (FLOODWOOD RIVER ROAD), 9.8 FEET EAST-NORTHEAST OF THE SOUTHEAST CORNER OF A CABLE BOX, 1.5 FEET EAST-NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1302.547	0.016	397.017	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -96.995 12B = -96.991 09 = -96.939 03 = -96.778

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_N-DR5143-3SW-02AUG2017.jpg	SW	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_N-DR5143-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6928_N-DR5143-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107786.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107786.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6929 A

NGS Name: 6929 A

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5146](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	4	54 N	21 W	471104.31	930110.15	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 29 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: 6929 A 2017

17.3 MILES SOUTH-SOUTHWEST OF HIBBING, 15.9 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 62.95, 31.2 FEET SOUTHWEST OF TRUNK HIGHWAY 73, 21.2 FEET SOUTHEAST OF AN ENTRANCE, 1.5 FEET NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1313. 183 0. 016	400. 259 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.060 12B = -97.063 09 = -96.998 03 = -96.853

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6929_A-DR5146-3SW-01AUG2017.jpg	SW	Aug 1, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6929_A-DR5146-2-01AUG2017.jpg		Aug 1, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6929_A-DR5146-1-01AUG2017.jpg		Aug 1, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107787.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107787.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6929 B

NGS Name: 6929 B

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	33	55 N	21 W	471226.44	930116.21	2	3

NGS ACRN: [DR5148](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 57 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: 6929 B 2017

15.8 MILES SOUTH-SOUTHWEST OF HIBBING, 14.3 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 64.55, 29.1 FEET WEST-NORTHWEST OF TRUNK HIGHWAY 73, 6.7 FEET WEST-NORTHWEST OF A GUARD RAIL, 1.5 FEET EAST-SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1319.564	0.016	402.204	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -97.109 12B = -97.119 09 = -97.040 03 = -96.919

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6929_B-DR5148-3W-26JUL2017.jpg	W	Jul 26, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6929_B-DR5148-2-26JUL2017.jpg		Jul 26, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6929_B-DR5148-1-26JUL2017.jpg		Jul 26, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107788.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107788.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6929 C

NGS Name: 6929 C

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5151](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	20	55 N	21 W	471409.51	930141.28	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) Stamping: 6929 C 2017

13.7 MILES SOUTH-SOUTHWEST OF HIBBING, 12.1 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 66.7, 72.1 FEET EAST-NORTHEAST OF TRUNK HIGHWAY 73, 175.5 FEET SOUTH-SOUTHEAST OF GILBOE ROAD, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1336.280 0.016	407.299 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.155 12B = -97.175 09 = -97.077 03 = -96.978

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6929_C-DR5151-3E-02AUG2017.jpg	E	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6929_C-DR5151-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6929_C-DR5151-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107789.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107789.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6929 D

NGS Name: 6929 D

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5152](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	17	55 N	21 W	471458.62	930140.52	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 5 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 55 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6929 D 2017

12.4 MILES SOUTH-SOUTHWEST OF HIBBING, 11.15 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 67.65, 30.0 FEET EAST-SOUTHEAST OF TRUNK HIGHWAY 73, 1.5 FEET WEST-NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1343. 698 0. 016	409. 560 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.191 12B = -97.211 09 = -97.106 03 = -97.021

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6929_D-DR5152-3SE-02AUG2017.jpg	SE	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6929_D-DR5152-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6929_D-DR5152-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107790.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107790.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6929 E

NGS Name: 6929 E

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	5	55 N	21 W	471642.46	930127.49	2	3

NGS ACRN: DR5157	Get Map
NGS Quad / Sta Num : 47093212/	
USGS Quad: SILICA	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 26 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 6929 E 2017

10.6 MILES SOUTH-SOUTHWEST OF HIBBING, 9.15 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 69.7, 44.6 FEET WEST OF TRUNK HIGHWAY 73, 7.5 FEET NORTH OF AN ENTRANCE, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1339.682 0.016	408.336 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.313 12B = -97.336 09 = -97.221 03 = -97.152

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6929_E-DR5157-3W-26JUL2017.jpg	W	Jul 26, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6929_E-DR5157-2-26JUL2017.jpg		Jul 26, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6929_E-DR5157-1-26JUL2017.jpg		Jul 26, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107791.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107791.pdf



Geodetic Data Sheet (Brief)
GSID Station # 65904

6947 L 10

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6947 L 10

NGS Name: 6947 L 10

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	20	53 N	19 W	470407.00	924631.00	2	

NGS ACRN: [DM5613](#) [Get Map](#)
 NGS Quad / Sta Num : 47092332/
 USGS Quad: ELMER

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1975	2007	GOOD	Horz=NO Vert=YES	YES	69506	FLUSH	NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (1975)

Stamping: 6947 L 10 1975

1.9 MILES WEST OF MEADOWLANDS, IN AN ABUTMENT IN THE SOUTHEAST CORNER OF COUNTY ROAD 133 BRIDGE NUMBER 69506 OVER THE ST. LOUIS RIVER, 1.95 MILES WEST ALONG COUNTY ROAD 133 FROM THE JUNCTION OF COUNTY ROAD 133 AND A SCHOOL IN MEADOWLANDS, 26.0 FEET SOUTH OF COUNTY ROAD 133.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1272. 133	0. 016	387. 747	0. 005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -96.752 12B = -96.739 09 = -96.663 03 = -96.486

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_10-DM5613-3S-23MAY2007.jpg	S	May 23, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_10-DM5613-2-23MAY2007.jpg		May 23, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_10-DM5613-1-23MAY2007.jpg		May 23, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65904.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65904.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6947 L 11

NGS Name: 6947 L 11

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	34	53 N	19 W	470219.00	924436.00	2	

NGS ACRN: [DM5615](#) [Get Map](#)
NGS Quad / Sta Num : 47092323/
USGS Quad: MEADOWLANDS

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1983	2007	GOOD	Horz=NO Vert=YES	YES	69533	FLUSH	NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

VERTICAL CONTROL DISK

Mon. Agency

MNDT

Description: (1983)

Stamping: 6947 L 11 1983

2.5 MILES SOUTH-SOUTHWEST OF MEADOWLANDS IN AN ABUTMENT IN THE SOUTHEAST CORNER OF COUNTY ROAD 5 BRIDGE NUMBER 69533 OVER THE WHITEFACE RIVER, 0.5 MILE WEST ALONG COUNTY ROAD 133 FROM THE JUNCTION OF COUNTY ROAD 133 AND A SCHOOL IN MEADOWLANDS, THEN 2.2 MILES SOUTH ON COUNTY ROAD 5, 17.0 FEET EAST OF COUNTY ROAD 5.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1262. 878 0. 016	384. 926 0. 005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -96.473 12B = -96.466 09 = -96.378 03 = -96.204

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<u>Location:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_11-DM5615-3E-24MAY2007.jpg	E	May 24, 2007
<u>Monument:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_11-DM5615-2-24MAY2007.jpg		May 24, 2007
<u>Disk:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_11-DM5615-1-24MAY2007.jpg		May 24, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65911.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65911.pdf



Geodetic Data Sheet (Brief)
GSID Station # 65912

6947 L 12

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6947 L 12

NGS Name: 6947 L 12

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	53 N	19 W	470317.68	924436.36	2	3

NGS ACRN: [DM5614](#) [Get Map](#)
NGS Quad / Sta Num : 47092323/
USGS Quad: MEADOWLANDS

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2021	POOR	Horz=NO Vert=NO	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	SURVEY DISK	MNDT

Description: (2007) **Stamping:** 6947 L 12 2007

1.0 MILE SOUTH-SOUTHWEST OF MEADOWLANDS, 0.5 MILE WEST ALONG COUNTY ROAD 133 FROM THE JUNCTION OF COUNTY ROAD 133 AND A SCHOOL IN MEADOWLANDS, THEN 1.0 MILE SOUTH ON COUNTY ROAD 5, 64.8 FEET EAST OF COUNTY ROAD 5, 26.8 FEET SOUTH OF ANDREWS ROAD, 2.5 FEET WEST OF A POWER POLE, 2.0 FEET WEST OF A WITNESS POST.

Station Notes

FOUND CAP LOOSE. USE WITH CAUTION.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1273.505	0.016	388.165	0.005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -96.630 12B = -96.621 09 = -96.535 03 = -96.358

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_12-DM5614-3E-01JAN1980.jpg	E	Jan 1, 1980
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_12-DM5614-2-01JAN1980.jpg		Jan 1, 1980
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_12-DM5614-1-01JAN1980.jpg		Jan 1, 1980

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65912.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65912.pdf



Geodetic Data Sheet (Brief)
GSID Station # 65887

6947 L 3

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6947 L 3

NGS Name: 6947 L 3

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DM5606](#) [Get Map](#)
NGS Quad / Sta Num : 47092342/
USGS Quad: LITTLE SWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	1	55 N	20 W	471627.00	924835.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2007	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)	SURVEY DISK	MNDT

Description: (2019) **Stamping:** 6947 L 3 2007

7.5 MILES NORTH OF TOIVOLA, 6.4 MILES EAST ALONG TRUNK HIGHWAY 37 FROM THE JUNCTION OF TRUNK HIGHWAY 37 AND TRUNK HIGHWAY 169 IN HIBBING TO TRUNK HIGHWAY 37 MILEPOINT 6.4, THEN 8.3 MILES SOUTH ON COUNTY ROAD 5, 46.9 FEET WEST OF COUNTY ROAD 5, 400.0 FEET SOUTH OF KYLVEN ROAD, 4.9 FEET EAST OF A PARKING LOT, 149.2 FEET SOUTH OF AN ENTRANCE, 1.4 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1290.034 0.016	393.203 0.005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -97.851 12B = -97.854 09 = -97.775 03 = -97.657

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_3-DM5606-3W-12JUN2007.jpg	W	Jun 12, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_3-DM5606-2-12JUN2007.jpg		Jun 12, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_3-DM5606-1-12JUN2007.jpg		Jun 12, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65887.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65887.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6947 L 4

NGS Name: 6947 L 4

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	13	55 N	20 W	471459.00	924837.00	2	

NGS ACRN: [DM5607](#)
NGS Quad / Sta Num : 47092342/
USGS Quad: LITTLE SWAN

[Get Map](#)

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2007	GOOD	Horz=NO Vert=YES	NO	69576	FLUSH	NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (1988)

Stamping: 6947 L 4 1988

5.7 MILES NORTH OF TOIVOLA, IN AN ABUTMENT IN THE SOUTHEAST CORNER OF COUNTY ROAD 5 BRIDGE NUMBER 69576 OVER THE SWAN RIVER, 6.4 MILES EAST ALONG TRUNK HIGHWAY 37 FROM THE JUNCTION OF TRUNK HIGHWAY 37 AND TRUNK HIGHWAY 169 IN HIBBING TO TRUNK HIGHWAY 37 MILEPOINT 6.4, THEN 10.0 MILES SOUTH ON COUNTY ROAD 5, 22.0 FEET EAST OF COUNTY ROAD 5.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1278.390	0.016	389.654	0.005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -97.772 12B = -97.772 09 = -97.697 03 = -97.562

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65889.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65889.pdf



Geodetic Data Sheet (Brief)
GSID Station # 65892

6947 L 5

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6947 L 5

NGS Name: 6947 L 5

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DM5608](#) [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	31	55 N	19 W	471219.39	924836.94	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2015	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 35 FT)	SURVEY DISK	MNDT

Description: (2007) **Stamping:** 6947 L 5 2007

2.7 MILES NORTH OF TOIVOLA, 6.4 MILES EAST ALONG TRUNK HIGHWAY 37 FROM THE JUNCTION OF TRUNK HIGHWAY 37 AND TRUNK HIGHWAY 169 IN HIBBING TO TRUNK HIGHWAY 37 MILEPOINT 6.4, THEN 13.1 MILES SOUTH ON COUNTY ROAD 5, 35.0 FEET EAST OF COUNTY ROAD 5, 15.5 FEET SOUTH OF AN ENTRANCE, 40.5 FEET SOUTH-SOUTHEAST OF A POWER POLE, 3.3 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1293. 948 0. 016	394. 396 0. 005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -97.641 12B = -97.644 09 = -97.575 03 = -97.405

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 12 19. 38641	92 48 36. 93628	410444. 657	302783. 186	125103. 782	92288. 500	364. 639		2018	GPS3119
NAD83 (1996)	47 12 19. 38625	92 48 36. 93681	410444. 620	302783. 170	125103. 770	92288. 495	364. 693	C	2017	HMNCORS

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_5-DM5608-3E-11MAY2015.jpg	E	May 11, 2015
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_5-DM5608-2-11MAY2015.jpg		May 11, 2015
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_5-DM5608-1-11MAY2015.jpg		May 11, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65892.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65892.pdf



Geodetic Data Sheet (Brief)
GSID Station # 65895

6947 L 6

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6947 L 6

NGS Name: 6947 L 6

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DM5609](#) [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	20	54 N	19 W	470817.46	924725.54	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2020	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	SURVEY DISK	MNDT

Description: (2007) **Stamping:** 6947 L 6 2007

2.0 MILES SOUTHEAST OF TOIVOLA, 2.45 MILES SOUTH ALONG COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 5 AND COUNTY ROAD 52 IN TOIVOLA, 35.6 FEET EAST OF COUNTY ROAD 5, 11.8 FEET NORTH A OF FIELD ENTRANCE, 82.5 FEET NORTH OF A POWER POLE. 2.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1289. 325 0. 016	392. 987 0. 005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -97.316 12B = -97.310 09 = -97.241 03 = -97.047

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 08 17. 46467	92 47 25. 53954	415268. 230	278248. 803	126574. 010	84810. 405	363. 331	3	2020	GPSBM

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_6-DM5609-3E-13JUL2020.jpg	E	Jul 13, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_6-DM5609-2-13JUL2020.jpg		Jul 13, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_6-DM5609-1-13JUL2020.jpg		Jul 13, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65895.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65895.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6947 L 7

NGS Name: 6947 L 7

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DM5610](#) [Get Map](#)
NGS Quad / Sta Num : 47092332/
USGS Quad: ELMER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	31	54 N	19 W	470643.29	924728.00	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2021	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 35 FT)	SURVEY DISK	MNDT

Description: (2007) Stamping: 6947 L 7 2007

3.5 MILES SOUTH-SOUTHEAST OF TOIVOLA, 4.25 MILES SOUTH ALONG COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 5 AND SOUTHWY ROAD 52/817 (ANOKA ROAD) IN TOIVOLA, 71.4 FEET SOUTHEAST OF COUNTY ROAD 5, 69.6 FEET SOUTHWEST OF COUNTY ROAD 741 (MEADOWLANDS TRUNK ROAD), 18.6 FEET NORTHEAST OF A TRAIL (OLD RAILROAD GRADE), 107.9 FEET NORTHEAST OF A POWER POLE, 3.4 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1285. 732 0. 016	391. 892 0. 005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -97.113 12B = -97.103 09 = -97.040 03 = -96.844

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 06 43. 29396	92 47 28. 00489	415056. 263	268707. 946	126509. 402	81902. 346	362. 288	3	2021	GPSBM

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<u>Location:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_7-DM5610-3SE-27JUL2021.jpg	SE	Jul 27, 2021
<u>Monument:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_7-DM5610-2-27JUL2021.jpg		Jul 27, 2021
<u>Disk:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_7-DM5610-1-27JUL2021.jpg		Jul 27, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65898.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65898.pdf



Geodetic Data Sheet (Brief)
GSID Station # 65900

6947 L 8

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6947 L 8

NGS Name: 6947 L 8

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DM5611](#) [Get Map](#)
NGS Quad / Sta Num : 47092332/
USGS Quad: ELMER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	7	53 N	19 W	470518.00	924733.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2007	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	SURVEY DISK	MNDT

Description: (2007) **Stamping:** 6947 L 8 2007

3.0 MILES NORTHWEST OF MEADOWLANDS, 1.35 MILES NORTH ALONG COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 133 AND COUNTY ROAD 5 ABOUT 4.0 MILES WEST OF MEADOWLANDS, 0.35 MILE NORTH OF COUNTY ROAD 740 (CHURCH ROAD), 40.9 FEET WEST OF COUNTY ROAD 5, 20.1 FEET NORTH OF A FIELD ENTRANCE, 2.9 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1274. 053 0. 016	388. 332 0. 005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -96.916 12B = -96.903 09 = -96.837 03 = -96.650

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_8-DM5611-3W-12JUN2007.jpg	W	Jun 12, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_8-DM5611-2-12JUN2007.jpg		Jun 12, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_8-DM5611-1-12JUN2007.jpg		Jun 12, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65900.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65900.pdf



Geodetic Data Sheet (Brief)
GSID Station # 65902

6947 L 9

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6947 L 9

NGS Name: 6947 L 9

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	19	53 N	19 W	470409.16	924724.61	2	

NGS ACRN:	DM5612	Get Map
NGS Quad / Sta Num :	47092332/	
USGS Quad:	ELMER	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2021	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 35 FT)	SURVEY DISK	MNDT

Description: (2007) **Stamping:** 6947 L 9 2007

2.5 MILES WEST OF MEADOWLANDS, 2.65 MILES WEST ALONG COUNTY ROAD 133 FROM THE JUNCTION OF COUNTY ROAD 133 AND WESTERN AVENUE, 54.0 FEET SOUTH OF COUNTY ROAD 133, 16.4 FEET WEST OF A FIELD ENTRANCE, 2.5 FEET NORTH OF AN EAST-WEST FENCE LINE, 1.4 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1273. 971 0. 016	388. 307 0. 005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -96.748 12B = -96.732 09 = -96.666 03 = -96.486

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 04 09. 16900	92 47 24. 61006	415223. 327	253090. 738	126560. 323	77142. 211	358. 822	3	2021	GPSBM

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_9-DM5612-3S-27JUL2021.jpg	S	Jul 27, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_9-DM5612-2-27JUL2021.jpg		Jul 27, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/6947_L_9-DM5612-1-27JUL2021.jpg		Jul 27, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65902.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65902.pdf



Geodetic Data Sheet (Brief)
GSID Station # 54200

A 159

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: A 159

NGS Name: A 159

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0494](#)

[Get Map](#)

NGS Quad / Sta Num : 47092322/

USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	3	53 N	18 W	470554.00	923556.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1948	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1935)

Stamping: A 159 1935

IN PAYNE, ALONG THE DULUTH, MISSABE AND NORTHERN RAILROAD, AT A JOG IN A FENCE, 300.0 FEET NORTH OF STATION PAYNE, 27.0 FEET WEST OF COUNTY ROAD 7, 15.0 FEET NORTH OF A GATE AND COUNTY ROAD 32, 75.0 FEET SOUTH OF SECTION TOOL HOUSE NUMBER 309, 57.0 FEET EAST OF THE EAST MAIN TRACK.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1310.457	0.016	399.428	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -96.975 12B = -96.968 09 = -96.857 03 = -96.670

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_54200.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_54200.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27648

A 164

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: A 164

NGS Name: A 164

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0713](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	29	52 N	17 W	465738.74	923046.78	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2020	NOT FOUND	Horz=NO Vert=NO	NO			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	BENCH MARK DISK	NGS

Description: (2019)

Stamping: A 164 1935

3.2 MILES EAST ON COUNTY ROAD 47 FROM THE ALBORN RAILROAD STATION, 55.0 FEET WEST OF MACARTHUR ROAD, 35.0 FEET NORTH OF COUNTY ROAD 47, 55.0 FEET WEST OF A DRIVE NORTH AT THE EAST LINE OF SECTION 29, 81.5 FEET WEST OF A POWER POLE, 2.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1343.436	0.016	409.480	0.005	2/0	1991	00000025
NGVD29	1342.947	0.016	409.331	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.531 12B = -95.525 09 = -95.397 03 = -95.213

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27648.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27648.pdf



Geodetic Data Sheet (Brief)
GSID Station # 54063

A 271

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: A 271

NGS Name: A 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0638](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	25	52 N	21 W	465723.00	925730.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1958	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948)

Stamping: A 271 1948

2.8 MILES NORTHWEST OF FLOODWOOD, 2.8 MILES NORTHWEST ALONG THE GREAT NORTHERN RAILWAY FROM THE STATION AT FLOODWOOD, ABOUT 0.3 MILE NORTHWEST OF MILEPOST 78, 0.35 MILE NORTHWEST OF A NORTH-SOUTH GRAVEL ROAD CROSSING, 53.0 FEET NORTHEAST OF THE NORTHEAST RAIL OF THE NORTHEAST TRACK, 26.0 FEET SOUTHWEST OF AN ABANDONED ROAD PARALLELING THE TRACK, 27.5 FEET SOUTHEAST OF TELEGRAPH POLE NUMBER 4, IN LINE WITH THE ROW OF POLES, 2.0 FEET SOUTHEAST OF A WHITE WOODEN WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1263. 160 0. 016	385. 012 0. 005	2/0	1991 00000025

Geoid Separations(ft): GEOID18 = -95.603 12B = -95.584 09 = -95.515 03 = -95.390

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_54063.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_54063.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27671

A 272

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: A 272

NGS Name: A 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0714](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	6	51 N	20 W	465541.00	925452.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1999	DESTROYED	Horz=NO Vert=NO	NO	2983		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	VERTICAL CONTROL DISK	NGS

Description: (1999) **Stamping:** A 272 1948

AT FLOODWOOD, 0.3 MILE NORTHWEST ON TRUNK HIGHWAY 73 FROM WEST JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2, 12.7 FEET WEST OF TRUNK HIGHWAY 73, IN THE NORTHEAST CORNER OF TRUNK HIGHWAY 73 BRIDGE NUMBER 2983 OVER THE FLOODWOOD RIVER, A NEW BRIDGE WAS BUILT IN 1979.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1245.795	0.016	379.719	0.005	2/0	1991	00000025
NGVD29	1245.244	0.016	379.551	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.367 12B = -95.348 09 = -95.272 03 = -95.157

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27671.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27671.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27672

A 273

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: A 273

NGS Name: A 273

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0519](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	16	53 N	20 W	470408.49	925231.62	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2021	GOOD	Horz=YES Vert=YES	YES		PROJECTS 4 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** A 273 1948

6.7 MILES WEST ON COUNTY ROAD 133 FROM THE HIGH SCHOOL IN MEADOWLANDS, 0.2 MILE WEST OF A SLIGHT CURVE IN COUNTY ROAD 133, 41.0 FEET NORTH OF COUNTY ROAD 133, 11.0 FEET EAST OF A FIELD ROAD NORTH, 18.0 FEET NORTH-NORTHEAST OF THE EAST END OF A METAL CULVERT, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1279. 876	0. 016	390. 107	0. 005	2/0	1991	00000025
NGVD29	1279. 220	0. 016	389. 907	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.683 12B = -96.660 09 = -96.627 03 = -96.434

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 04 08. 49184	92 52 31. 61654	393969. 857	253125. 909	120082. 253	77152. 932	360. 649	3	2021	GPSBM

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/A_273-SJ0519-3N-27JUL2021.jpg	N	Jul 27, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/A_273-SJ0519-2-27JUL2021.jpg		Jul 27, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/A_273-SJ0519-1-27JUL2021.jpg		Jul 27, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27672.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27672.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27673

A 275

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: A 275

NGS Name: A 275

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0477](#) [Get Map](#)
NGS Quad / Sta Num : 47092324/
USGS Quad: MEADOWLANDS NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	11	54 N	19 W	471004.06	924257.71	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2021	NOT FOUND	Horz=NO Vert=NO	NO		PROJECTS 5 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948)

Stamping: A 275 1948

4.5 MILES EAST ON COUNTY ROAD 52 FROM THE JUNCTION OF COUNTY ROAD 52 AND COUNTY ROAD 5 AT TOIVOLA, AT THE JUNCTION OF COUNTY ROAD 52 AND A NORTH-SOUTH CROSSROAD, 126.0 FEET NORTH OF COUNTY ROAD 52, 17.0 FEET EAST OF A CROSSROAD, 2.0 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1297. 891	0. 016	395. 598	0. 005	2/0	1991	00000025
NGVD29	1297. 251	0. 016	395. 403	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.569 12B = -97.569 09 = -97.487 03 = -97.300

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27673.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27673.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27675

A 280

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: A 280

NGS Name: A 280

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1328](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	32	55 N	21 W	471145.35	930137.18	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2019)

Stamping: A 280 1948

6.0 MILES SOUTH OF HIBBING, 7.0 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND COUNTY ROAD 16 IN HIBBING, THEN 0.50 MILE WEST ON COUNTY ROAD 18, THEN 0.40 MILE NORTHWEST ON A TRAIL THAT RUNS ALONG THE POWER LINES, 28.8 FEET EAST-NORTHEAST OF A TRAIL (OLD TRUNK HIGHWAY 73), 2730.0 FEET NORTHWEST OF A TRAIL SOUTHEAST, 10.0 FEET SOUTHEAST OF A REFUGE SIGN AT THE NORTHWEST CORNER OF A REFUGE, 1.0 FOOT SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1354. 512	0. 016	412. 856	0. 005	2/0	1991	00000025
NGVD29	1353. 747	0. 016	412. 623	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.067 12B = -97.073 09 = -97.004 03 = -96.870

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/A_280-SJ1328-3E-12JUL2017.jpg	E	Jul 12, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/A_280-SJ1328-2-12JUL2017.jpg		Jul 12, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/A_280-SJ1328-1-12JUL2017.jpg		Jul 12, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27675.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27675.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: A 29

NGS Name: A 29

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	25	51 N	17 W	465220.00	922657.00	2	

NGS ACRN: [RN0120](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

[Get Map](#)

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	GOOD	Horz=NO Vert=NO	NO			STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1934)

Stamping: A 29 1934

1.0 MILE NORTH OF SAGINAW ON AN ABANDONED RAILROAD, 18 RAILS NORTH OF A RAILROAD BRIDGE, 20.0 FEET WEST OF AN OLD RAILROAD BED.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	Orthometric (Feet)		Orthometric (Meters)		Survey <u>Order/(Class)</u>	Project Info	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1339.709	0.016	408.344	0.005	2/0	1991	00000025
NGVD29	1339.295	0.016	408.218	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.531 12B = -94.521 09 = -94.416 03 = -94.222

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27677.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27677.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27678

A 291

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: A 291

NGS Name: A 291

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	51 N	20 W	465238.00	925154.00	2	

NGS ACRN: RN0664	Get Map
NGS Quad / Sta Num : 46092441/	
USGS Quad: MCCARTY RIVER	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2005	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

CONCRETE FOOTING - SMALL

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (2001)

Stamping: A 291 1948

1.3 MILES NORTHWEST OF GOWAN, 1.3 MILES NORTHEAST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86, AT TRUNK HIGHWAY 2 MILEPOINT 224.7, 23.9 FEET SOUTHEAST OF TRUNK HIGHWAY 2, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 2 BOX CULVERT AT A SMALL CREEK.

Station Notes

THE GEODETIC UNIT REPORTED ON 8-29-01 THAT THE OLD BOX CULVERT WAS REPLACED WITH A NEW BOX CULVERT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1240.355	0.016	378.061	0.005	2/0	1991	00000025
NGVD29	1239.765	0.016	377.881	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.918 12B = -94.905 09 = -94.816 03 = -94.705

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27678.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27678.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27681

A 294

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: A 294

NGS Name: A 294

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0354](#) [Get Map](#)
NGS Quad / Sta Num : 47092312/
USGS Quad: ZIM

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	2	55 N	18 W	471705.41	923609.21	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=? Vert=YES	NO		PROJECTS 5 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	CGS

Description: (1948)

Stamping: A 294 1948

1.05 MILES NORTH ON A RAILROAD FROM THE RAILROAD STATION AT FENS, 1.5 MILES SOUTH OF THE RAILROAD STATION AT ZIM, 0.15 MILE NORTH OF RAILROAD MILEPOST 54, 214.0 FEET EAST OF THE EAST RAIL OF THE EAST RAILROAD TRACK, 144.0 FEET EAST OF COUNTY ROAD 7, 18.5 FEET SOUTH OF A ROAD EAST, 97.0 FEET EAST OF THE SOUTHEAST CORNER OF A WOOD BRIDGE ON A ROAD EAST, 2.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1330.001	0.016	405.385	0.005	2/0	1991	00000025
NGVD29	1329.285	0.016	405.167	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.982 12B = -97.982 09 = -97.910 03 = -97.785

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27681.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27681.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: A 33

NGS Name: A 33

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0351](#) [Get Map](#)
NGS Quad / Sta Num : 47092312/
USGS Quad: ZIM

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	3	55 N	18 W	471608.00	923617.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1995	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1995) **Stamping:** A 33 1934

10.5 MILES SOUTH OF IRON JUNCTION, 10.5 MILES SOUTH ALONG TRUNK HIGHWAY 7 FROM THE JUNCTION OF TRUNK HIGHWAY 7 AND MAIN STREET IN IRON JUNCTION.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1326. 874	0. 016	404. 432	0. 005	2/0	1991	00000025
NGVD29	1326. 159	0. 007	404. 214	0. 002	1	1934	L27 MINN

Geoid Separations(ft): GEOID18 = -97.956 12B = -97.956 09 = -97.880 03 = -97.746

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27690.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27690.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27691

A 33 RESET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: A 33 RESET

NGS Name: A 33 RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0352](#) [Get Map](#)
NGS Quad / Sta Num : 47092312/
USGS Quad: ZIM

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	3	55 N	18 W	471614.00	923616.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2005	DESTROYED	Horz=NO Vert=NO	NO	RR	FLUSH	SEE DESCRIPTION

Monument Type

WALL

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: A 33 1934 RESET 1948

AT FENS, AT THE RAILROAD STATION AND A ROAD CROSSING, 27.0 FEET EAST OF THE EAST RAIL OF THE EAST RAILROAD TRACK, 43.0 FEET NORTH OF A ROAD, 41.0 FEET WEST OF COUNTY ROAD 7, 102.0 FEET NORTH OF THE NORTHWEST CORNER OF THE RAILROAD STATION, IN THE SOUTHEAST WING WALL OF A RAILROAD CULVERT, 3.5 FEET WEST OF THE EAST END OF A WING WALL.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1326. 812	0. 016	404. 413	0. 005	2/0	1991	00000025
NGVD29	1326. 100	0. 007	404. 196	0. 002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -97.959 12B = -97.959 09 = -97.884 03 = -97.749

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27691.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27691.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ADAM MNDT

NGS Name: ADAM

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9550](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	17	52 N	20 W	465936.98	925433.45		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1993	2017	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)	SURVEY DISK	MNDT

Description: (2001) **Stamping:** ADAM 1993

4.2 MILES NORTH OF FLOODWOOD, 5.05 MILES NORTH ON TRUNK HIGHWAY 73 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 48.25, 79.0 FEET EAST-NORTHEAST OF TRUNK HIGHWAY 73, 43.5 FEET EAST OF COUNTY ROAD 191, 63.5 FEET SOUTHWEST OF A POWER POLE, 85.2 FEET SOUTH-SOUTHEAST OF A GUY POLE, 115.2 FEET NORTH OF A CABLE MARKER, 3.0 FEET WEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.991 12B = -95.971 09 = -95.922 03 = -95.764

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 59 36.98340	92 54 33.45161	385374.431	225664.384	117462.361	68782.642	355.791				2012	GPS2800
NAD83 (2007)	46 59 36.98346	92 54 33.45246	385374.372	225664.390	117462.344	68782.644	355.818				2007	GPS2300
NAD83 (1996)	46 59 36.98321	92 54 33.45208	385374.398	225664.365	117462.351	68782.636	355.836	C			2003	GPS1769

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ADAM-DE9550-1-10JUL2017.jpg		Jul 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27699.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27699.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ADAM MNDT RESET

NGS Name: ADAM RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5126](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	17	52 N	20 W	465936.98	925433.45	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** ADAM 1993 2017

4.2 MILES NORTH OF FLOODWOOD, 5.05 MILES NORTH ON TRUNK HIGHWAY 73 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 48.25, 79.0 FEET EAST-NORTHEAST OF TRUNK HIGHWAY 73, 43.5 FEET EAST OF COUNTY ROAD 191(ADAM ROAD), 63.5 FEET SOUTHWEST OF A POWER POLE, 85.2 FEET SOUTH-SOUTHEAST OF A GUY POLE, 115.2 FEET NORTH OF A CABLE MARKER, 3.0 FEET WEST OF A WITNESS POST.

Station Pair: LAURA - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	1263.055 0.016	384.980 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.991 12B = -95.971 09 = -95.922 03 = -95.764

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ADAM_RESET-DR5126-3E-10JUL2017.jpg	E	Jul 10, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ADAM_RESET-DR5126-2-10JUL2017.jpg		Jul 10, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ADAM_RESET-DR5126-1-10JUL2017.jpg		Jul 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107846.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107846.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: AHMIK MNDT

NGS Name: AHMIK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0672](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/1067
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	35	51 N	20 W	465130.06	925018.87	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2005	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (2001) **Stamping:** AHMIK 1974

6.0 MILES SOUTHEAST OF FLOODWOOD, 5.6 MILES SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73, AT TRUNK HIGHWAY 2 MILEPOINT 226.6, 61.4 FEET SOUTHWEST OF TRUNK HIGHWAY 2, 5.0 FEET WEST OF A POWER POLE NUMBER 5, 5.4 FEET SOUTHWEST OF A WITNESS POST, THE MONUMENT WAS FOUND OUT OF THE GROUND, THE DISK IS MISSING.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1269.263	0.016	386.872	0.005	2/0	1991	00000025
NGVD29	1268.639	0.016	386.682	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.741 12B = -94.731 09 = -94.642 03 = -94.527

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>				<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>		<u>Longitude</u>		<u>X</u>	<u>Y</u>			<u>X</u>	<u>Y</u>					<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46	51	30.06140	92	50	18.86789	402778.763	176234.910	122767.213	53716.508			358.048	2	1999	17648
NAD83 (1986)	46	51	30.05473	92	50	18.86949	402778.649	176234.234	122767.178	53716.302				2	1986	17289
NAD27	46	51	30.25458	92	50	18.15366								2	1977	15924

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27701.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27701.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27702

ALBORN

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ALBORN

NGS Name: ALBORN

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1661](#) [Get Map](#)
NGS Quad / Sta Num : 46092414/1002
USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	21	52 N	18 W	465842.61	923748.30		1

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO		FLUSH	STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

TRIANGULATION STATION DISK

Mon. Agency

NGS

Description: (2019)

Stamping: ALBORN 1952

3.0 MILES WEST OF ALBORN, 2.1 MILES WEST ON COUNTY ROAD 47 TO THE JUNCTION OF COUNTY ROAD 47 AND COUNTY ROAD 156 THEN 0.7 MILES WEST ON COUNTY ROAD 156, THEN 0.2 MILES NORTH ON A FARM DRIVE THEN PASS THROUGH A GATE IN A BARNYARD AND GO EAST 120.0 FEET ALONG THE NORTH SIDE OF A FENCE, IN A PASTURE, 25.0 FEET SOUTHEAST OF A FENCE CORNER, 22.0 FEET EAST-NORTHEAST OF A WITNESS POST, 82.20 FEET NORTH OF ALBORN RM 1, 67.93 FEET EAST-SOUTHEAST OF ALBORN RM 2.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.830 12B = -95.820 09 = -95.712 03 = -95.548

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 58 42.60837	92 37 48.29829	455043.834	219870.939	138697.638	67016.796	395.845		1	1999	17648	
NAD83 (1986)	46 58 42.60392	92 37 48.30076	455043.661	219870.488	138697.585	67016.659			1	1986	17289	
NAD27	46 58 42.81400	92 37 47.60100							1	1956	11100	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27702.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27702.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ALBORN AZ MK

NGS Name: ALBORN AZ MK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ1757](#) [Get Map](#)
NGS Quad / Sta Num : 46092414/
USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	21	52 N	18 W	465841.00	923800.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
	1952	GOOD	Horz=? Vert=?	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	AZIMUTH MARK DISK	CGS

Description: (1952)

Stamping:

3.0 MILES WEST OF ALBORN, 2.1 MILES WEST ON COUNTY ROAD 47 TO THE JUNCTION OF COUNTY ROAD 47 AND COUNTY ROAD 156 THEN 0.7 MILE WEST ON COUNTY ROAD 156.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.827 12B = -95.817 09 = -95.712 03 = -95.548

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78105.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78105.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ALBORN RM 1

NGS Name: ALBORN RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ1758](#) [Get Map](#)
NGS Quad / Sta Num : 46092414/
USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>	<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
NW	21	52 N	18 W	465841.81	923748.53			1952	1952	GOOD	Horz=? Vert=YES	NO		PROJECTS 3 IN.	STEEL SPIKE ADJ TO MON	BLANK	REFERENCE MARK DISK	NGS

Description: (2019)

Stamping: ALBORN NO 1 1952

3.0 MILES WEST OF ALBORN, 2.1 MILES WEST ON COUNTY ROAD 47 TO THE JUNCTION OF COUNTY ROAD 47 AND COUNTY ROAD 156 THEN 0.7 MILES WEST ON COUNTY ROAD 156, 82.0 FEET SOUTH OF STATION ALBORN, 43.37 FEET NORTH-NORTHWEST OF STATION ANDY RESET, 1.0 FOOT EAST OF A FENCE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.830 12B = -95.817 09 = -95.712 03 = -95.548

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78106.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78106.pdf



Geodetic Data Sheet (Brief)
GSID Station # 78107

ALBORN RM 2

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ALBORN RM 2

NGS Name: ALBORN RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ1759](#) [Get Map](#)
NGS Quad / Sta Num : 46092414/
USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>	<u>Mon. Agency</u>
NW	21	52 N	18 W	465842.73	923749.26			1952	1952	GOOD	Horz=? Vert=YES	NO		PROJECTS 6 IN.	STEEL SPIKE ADJ TO MON	NGS
Monument Type BLANK																
Disk Type REFERENCE MARK DISK																
Mon. Agency NGS																

Description: (1952)

Stamping: ALBORN NO 2 1952

3.0 MILES WEST OF ALBORN, 2.1 MILES WEST ON COUNTY ROAD 47 TO THE JUNCTION OF COUNTY ROAD 47 AND COUNTY ROAD 156 THEN 0.7 MILE WEST ON COUNTY ROAD 156, 45.0 FEET WEST OF A FENCE CORNER, 67.93 FEET WEST-SOUTHWEST OF STATION ALBORN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.830 12B = -95.817 09 = -95.712 03 = -95.548

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78107.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78107.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107819

ANDREW

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ANDREW

NGS Name: ANDREW

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5132](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	25	53 N	21 W	470240.33	925625.18	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 41 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: ANDREW 2017

8.3 MILES NORTH OF FLOODWOOD, 8.85 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 52.05, 52.3 FEET EAST-NORTHEAST OF TRUNK HIGHWAY 73, 14.2 FEET SOUTH-SOUTHEAST OF A FIELD ENTRANCE, 19.3 FEET WEST OF CABLE BOX NUMBER A 55, 1.5 FEET WEST-SOUTHWEST OF A WITNESS POST.

Station Pair: GUAIL MNDT - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1248. 593 0. 016	380. 572 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.424 12B = -96.411 09 = -96.371 03 = -96.187

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ANDREW-DR5132-3E-01AUG2017.jpg	E	Aug 1, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ANDREW-DR5132-2-01AUG2017.jpg		Aug 1, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ANDREW-DR5132-1-01AUG2017.jpg		Aug 1, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107819.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107819.pdf



Geodetic Data Sheet (Brief)
GSID Station # 54025

ANDY

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ANDY

NGS Name: ANDY

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0047](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	4	50 N	17 W	465050.10	922930.17	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1981	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (2019) **Stamping:** ANDY 1974

1.8 MILES SOUTH-SOUTHWEST OF GRAND LAKES ON TRUNK HIGHWAY 2 RIGHT-OF-WAY, 1.65 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (NORTH OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOST 243.25, 56.7 FEET NORTH OF TRUNK HIGHWAY 2, 92.0 FEET WEST OF AN 8.0 INCH DIAMETER POPLAR TREE WITH A BOAT SPIKE, 6.8 FEET NORTHEAST OF A 6.0 INCH DIAMETER BIRCH TREE, 3.7 FEET SOUTH OF A STEEL WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1319.623	0.016	402.222	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -94.409 12B = -94.396 09 = -94.304 03 = -94.121

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u> <u>Latitude</u>	<u>Longitude</u>	<u>County (Feet)</u> <u>X</u>	<u>Y</u>	<u>County (Meters)</u> <u>X</u>	<u>Y</u>	<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 50 50.09592	92 29 30.16843	489561.106	171947.511	149218.524	52409.706	373.505	2	1999	17648
NAD27	46 50 50.29837	92 29 29.47026						2	1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ANDY-RN0047-3W-06MAR2024.jpg	W	Mar 6, 2024
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ANDY-RN0047-2-06MAR2024.jpg		Mar 6, 2024
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ANDY-RN0047-1-06MAR2024.jpg		Mar 6, 2024

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_54025.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_54025.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27711

ANDY RESET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ANDY RESET

NGS Name: ANDY RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1809](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/1174
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	4	50 N	17 W	465050.10	922930.17	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

HORIZONTAL CONTROL DISK

Mon. Agency

MNDT

Description: (2003)

Stamping: ANDY 1974 1981

9.5 MILES NORTH-NORTHWEST OF CLOQUET, 1.65 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.5 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOINT 243.20, 56.5 FEET NORTH OF TRUNK HIGHWAY 2, 46.6 FEET SOUTHWEST OF STATION 6907 AD, 43.4 FEET SOUTH-SOUTHEAST OF ANDY RM 1, 26.0 FEET NORTHEAST OF THE NORTH LEG OF A NO PASSING SIGN, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1317.081	0.016	401.447	0.005	2/1	2021	00000963
NGVD29	1319.335	0.016	402.134	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.409 12B = -94.396 09 = -94.304 03 = -94.409

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 50 50.09574	92 29 30.16777	489561.152	171947.493	149218.538	52409.701	372.683		2012	GPS2800
NAD83 (2007)	46 50 50.09587	92 29 30.16865	489561.091	171947.506	149218.519	52409.705	372.710		2007	GPS2300
NAD83 (1996)	46 50 50.09560	92 29 30.16858	489561.096	171947.479	149218.520	52409.696	372.744	C	2004	GPS1957
NAD83 (1986)	46 50 50.09009	92 29 30.17088	489560.936	171946.920	149218.472	52409.526		2	1986	17289
NAD27	46 50 50.29837	92 29 29.47026						2	1950	UNK

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ANDY_RESET-RN1809-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ANDY_RESET-RN1809-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ANDY_RESET-RN1809-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27711.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27711.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27712

ANDY RM 1

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ANDY RM 1

NGS Name: ANDY RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1055](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	4	51 N	17 W	465050.50	922930.40	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1979	2017	GOOD	Horz=NO Vert=NO	YES		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	PIPE CAP	MNDT

Description: (2001)

Stamping: ANDY 1974 NO 1 1979

9.5 MILES NORTH-NORTHWEST OF CLOQUET, 1.65 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.5 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOINT 243.20, 43.4 FEET NORTH-NORTHWEST OF STATION ANDY RESET, 42.1 FEET WEST OF STATION 6907 AD, 1.4 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1320.115	0.016	402.372	0.005	2/1	2013	00000797
NGVD29	1319.787	0.016	402.272	0.005	2	1979	L23566

Geoid Separations(ft): GEOID18 = -94.409 12B = -94.396 09 = -94.304 03 = -94.124

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ANDY_RM_1-RN1055-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ANDY_RM_1-RN1055-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ANDY_RM_1-RN1055-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27712.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27712.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27726

APCO MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: APCO MNDT

NGS Name: APCO

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0658](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/1071
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	16	51 N	20 W	465355.10	925306.64	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2020	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (2001) **Stamping:** APCO 1974

2.5 MILES SOUTHEAST OF FLOODWOOD, 2.0 MILES SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 (THE JUNCTION IS 0.5 MILE SOUTHEAST OF FLOODWOOD), AT TRUNK HIGHWAY 2 MILEPOINT 223.0, 55.3 FEET NORTHEAST OF TRUNK HIGHWAY 2, 33.0 FEET NORTHWEST OF A FIELD ROAD, 96.56 FEET WEST-NORTHWEST OF STATION 6907 W, 91.1 FEET SOUTHWEST OF THE SOUTHWEST RAIL OF THE RAILROAD TRACKS, 60.05 FEET SOUTH-SOUTHWEST OF APCO MNDT RM 1 1, 3.0 FEET NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1265.887	0.016	385.843	0.005	2/1	2021	00000963
NGVD29	1265.247	0.016	385.648	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.108 12B = -95.092 09 = -95.010 03 = -94.898

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 53 55.10176	92 53 06.64400	391200.021	190991.233	119238.005	58214.244	356.843		2012	GPS2800
NAD83 (2007)	46 53 55.10185	92 53 06.64487	391199.961	190991.242	119237.987	58214.247	356.871		2007	GPS2300
NAD83 (1996)	46 53 55.10150	92 53 06.64456	391199.982	190991.206	119237.993	58214.236	356.896	C	2004	GPS1957
NAD83 (1986)	46 53 55.10061	92 53 06.64035	391200.274	190991.114	119238.082	58214.208		2	1986	17289
NAD27	46 53 55.30176	92 53 05.92275						2	1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/APCO-RN0658-3NE-21JUL2020.jpg	NE	Jul 21, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/APCO-RN0658-2-06JUL2020.jpg		Jul 6, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/APCO-RN0658-1-06JUL2020.jpg		Jul 6, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27726.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27726.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: APCO MNDT RM 1

NGS Name: APCO RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0659](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	16	51 N	20 W	465355.59	925306.15	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1999	GOOD	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

REFERENCE MARK DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: APCO NO 1 1974

1.9 MILES SOUTHEAST OF FLOODWOOD, 1.9 MILES SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73, AT TRUNK HIGHWAY 2 MILEPOINT 223.05, 112.8 FEET NORTHEAST OF TRUNK HIGHWAY 2, 33.5 FEET SOUTHWEST OF THE SOUTHWEST RAIL OF THE RAILROAD TRACKS, 60.05 FEET NORTH-NORTHEAST OF STATION APCO MNDT, 97.5 FEET NORTHWEST OF STATION 6907 W, 97.5 FEET NORTHWEST OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1265.142	0.016	385.616	0.005	2/0	1991	00000025
NGVD29	1264.564	0.016	385.440	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.108 12B = -95.092 09 = -95.010 03 = -94.898

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27727.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27727.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27730

ARLBERG

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ARLBERG

NGS Name: ARLBERG

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1660](#) [Get Map](#)
NGS Quad / Sta Num : 46092414/1003
USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	8	51 N	18 W	465515.79	923934.28		1

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO		PROJECTS 8 IN.	STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

TRIANGULATION STATION DISK

Mon. Agency

NGS

Description: (1952)

Stamping: ARLBERG 1952

4.0 MILES NORTHWEST OF BROOKSTON, 0.5 MILE SOUTH ON COUNTY ROAD 852 FROM THE COUNTY ROAD 852 AND COUNTY ROAD 8, 33.0 FEET EAST OF A DIM ROAD, 4.0 FEET SOUTH OF A WITNESS POST, 72.76 FEET NORTHEAST OF ARLBERG RM 1, 71.65 FEET SOUTHEAST OF ARLBERG RM 2.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.289 12B = -95.272 09 = -95.184 03 = -95.039

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 55 15.79040	92 39 34.28264	447638.373	198934.525	136440.449	60635.365	383.005	1	1999	17648
NAD83 (1986)	46 55 15.78492	92 39 34.28498	447638.209	198933.970	136440.399	60635.195		1	1986	17289
NAD27	46 55 15.98900	92 39 33.58300						1	1954	10724

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27730.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27730.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ARLBERG RM 1

NGS Name: ARLBERG RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ1797](#) [Get Map](#)
NGS Quad / Sta Num : 46092414/
USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>	<u>Mon. Agency</u>	
NW	8	51 N	18 W	465515.24	923934.96			1952	1952	GOOD	Horz=? Vert=YES	NO			STEEL SPIKE ADJ TO MON	NGS	
<u>Monument Type</u> BLANK																<u>Disk Type</u> REFERENCE MARK DISK	<u>Mon. Agency</u> NGS

Description: (1952)

Stamping: ARLBERG NO 1 1952

4.0 MILES NORTHWEST OF BROOKSTON, 0.5 MILE SOUTH ON COUNTY ROAD 852 FROM THE COUNTY ROAD 852 AND COUNTY ROAD 8, 14.0 FEET WEST OF THE CENTERLINE OF THE ROAD, 72.76 FEET SOUTHWEST OF STATION ARLBERG.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.289 12B = -95.272 09 = -95.184 03 = -95.039

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78147.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78147.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ARLBERG RM 2

NGS Name: ARLBERG RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ1798](#) [Get Map](#)
NGS Quad / Sta Num : 46092414/
USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>	<u>Mon. Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
NW	8	51 N	18 W	465516.30	923935.00			1952	1952	GOOD	Horz=? Vert=YES	NO			STEEL SPIKE ADJ TO MON	BLANK	REFERENCE MARK DISK	NGS

Description: (1952)

Stamping: ARLBERG NO 2 1952

4.0 MILES NORTHWEST OF BROOKSTON, 0.5 MILE SOUTH ON COUNTY ROAD 852 FROM THE COUNTY ROAD 852 AND COUNTY ROAD 8, 71.65 FEET NORTHWEST OF STATION ARLBERG, 16.0 FEET WEST OF THE CENTERLINE OF THE ROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.289 12B = -95.272 09 = -95.184 03 = -95.039

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78148.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78148.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ARROWHEAD

NGS Name: ARROWHEAD

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1656](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/1004
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	11	50 N	19 W	465002.33	924253.48		1

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1978	GOOD	Horz=NO Vert=NO	NO		PROJECTS 7 IN.	STEEL ROD ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

Description: (1978) **Stamping:** ARROWHEAD 1952

6.0 MILES EAST-SOUTHEAST OF GOWAN, 1.4 MILES SOUTH ON COUNTY ROAD 845 FROM THE JUNCTION OF COUNTY ROAD 845 AND TRUNK HIGHWAY 2 THEN 0.5 MILE EAST ON A ROAD TO THE ARROWHEAD LOOKOUT TOWER, 45.0 FEET EAST OF NORTHEAST LEG OF A TOWER, 4.5 FEET SOUTHWEST OF A WITNESS POST, 46.42 FEET SOUTHWEST OF ARROWHEAD RM 1, 69.15 FEET SOUTHEAST OF ARROWHEAD RM 2, 54.80 FEET EAST-NORTHEAST OF STATION ARROWHEAD ECC MNDT.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.458 12B = -94.452 09 = -94.380 03 = -94.245

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 50 02.32904	92 42 53.47765	433703.183	167217.077	132192.995	50967.867	462.117	1	1999	17648		
NAD83 (1986)	46 50 02.32260	92 42 53.47934	433703.063	167216.425	132192.958	50967.668			1	1986	17289	
NAD27	46 50 02.52100	92 42 52.76600							1	1954	10724	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27734.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27734.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ARROWHEAD ECC MNDT

NGS Name: ARROWHEAD ECC 16254

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1658](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/1004
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	11	50 N	19 W	465002.21	924254.25		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	MNDT

Description: (1978)

Stamping:

6.0 MILES EAST-SOUTHEAST OF GOWAN, NEAR THE ARROWHEAD LOOKOUT TOWER, 54.80 FEET WEST-SOUTHWEST OF STATION ARROWHEAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.458 12B = -94.452 09 = -94.380 03 = -94.245

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 50 02. 21043	92 42 54. 24658	433649. 678	167205. 241	132176. 686	50964. 259	462. 787	3	1999	17648
NAD83 (1986)	46 50 02. 20399	92 42 54. 24827	433649. 558	167204. 589	132176. 650	50964. 061		3	1986	17289
NAD27	46 50 02. 40240	92 42 53. 53490						3	1980	16254

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ARROWHEAD_ECC_16254-RN1658-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27735.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27735.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ARROWHEAD LOOKOUT TOWER

NGS Name: ARROWHEAD LOOKOUT TOWER

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1657](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/1023
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	11	50 N	19 W	465002.26	924254.30		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2017	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	LOOKOUT TOWER	NGS

Description: (1978)

Stamping:

6.0 MILES EAST-SOUTHEAST OF GOWAN.

Station Notes

IT IS A STEEL STRUCTURE, ABOUT 70.0 FEET HIGH AND HAS A LOOKOUT CAGE ON THE TOP.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.458 12B = -94.452 09 = -94.380 03 = -94.245

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 50 02. 25507	92 42 54. 29825	433646. 100	167209. 776	132175. 596	50965. 642		4	1999	17648
NAD83 (1986)	46 50 02. 24880	92 42 54. 29986	433645. 986	167209. 141	132175. 561	50965. 448		4	1986	17289
NAD27	46 50 02. 44400	92 42 53. 60700						4	1954	10724

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ARROWHEAD_LOOKOUT_TOWER-RN1657-3E-24JUL2017.jpg	E	Jul 24, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27736.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27736.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ARROWHEAD RM 1

NGS Name: ARROWHEAD RM 1

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	11	50 N	19 W	465002.65	924253.00		

NGS ACRN: [CJ1807](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2017	DESTROYED	Horz=NO Vert=NO	YES			STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

Description: (2019)

Stamping: ARROWHEAD NO 1 1952

6.0 MILES EAST-SOUTHEAST OF GOWAN, 1.4 MILES SOUTH ON COUNTY ROAD 854 FROM THE JUNCTION OF COUNTY ROAD 854 AND TRUNK HIGHWAY 2 THEN 0.5 MILE EAST ON A ROAD TO THE ARROWHEAD LOOKOUT TOWER, 46.45 FEET NORTHEAST OF STATION ARROWHEAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.458 12B = -94.452 09 = -94.380 03 = -94.245

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ARROWHEAD_RM_1-CJ1807-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27737.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27737.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ARROWHEAD RM 2

NGS Name: ARROWHEAD RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1659](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/1004
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	11	50 N	19 W	465002.53	924254.43		1

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2017	NOT FOUND	Horz=NO Vert=NO	YES			SEE DESCRIPTION

Monument Type

UNKNOWN

Disk Type

REFERENCE MARK DISK

Mon. Agency

NGS

Description: (1978)

Stamping: ARROWHEAD NO 2 1952

6.0 MILES EAST-SOUTHEAST OF GOWAN, 1.4 MILES SOUTH ON COUNTY ROAD 854 FROM THE JUNCTION OF COUNTY ROAD 854 AND TRUNK HIGHWAY 2, THEN 0.5 MILE EAST TO THE ARROWHEAD LOOKOUT TOWER, 15.5 FEET NORTH OF THE NORTHWEST LEG OF A TOWER, 7.0 FEET NORTH OF A TRACK ROAD, 69.15 FEET NORTHWEST OF STATION ARROWHEAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.458 12B = -94.452 09 = -94.380 03 = -94.245

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 50 02. 53039	92 42 54. 42781	433637. 186	167237. 701	132172. 879	50974. 153	462. 456	1	1999	17648
NAD83 (1986)	46 50 02. 52395	92 42 54. 42949	433637. 067	167237. 049	132172. 842	50973. 954		1	1986	17289
NAD27	46 50 02. 72233	92 42 53. 71602						1	1980	16254

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ARROWHEAD_RM_2-RN1659-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27738.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27738.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27750

B 12 MN137

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: B 12 MN137

NGS Name: B 12

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6520](#) [Get Map](#)
NGS Quad / Sta Num : 47092243/
USGS Quad: CENTRAL LAKES

1/4	Sec	Twp	Rng	Reference	Reference	Vert	Horz
				Latitude	Longitude	Order	Order
SE	9	55 N	17 W	471522.33	922936.13	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1985	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 24 IN.	STEEL ROD IMBED IN MON

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MN-137

Description: (1992) **Stamping:** B 12 1985

6.1 MILES NORTH OF COTTON, 6.1 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON TO TRUNK HIGHWAY 53 MILEPOINT 45.10, THEN 0.5 MILE WEST ON ELLSBURG FOREST MANAGEMENT ROAD, 39.0 FEET WEST-SOUTHWEST OF WEST ELLSBURG FOREST ROAD, 53.8 FEET SOUTHWEST OF A STEEL GATE POST, 36.7 FEET SOUTH-SOUTHWEST OF A STEEL GATE POST, 1.0 FOOT EAST OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height	Orthometric (Feet) Accuracy	Orthometric (Meters) Height	Orthometric (Meters) Accuracy	Survey Order/(Class)	Project Info Year	Project Info Reference
NAVD88	1352.694	0.016	412.302	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -97.913 12B = -97.910 09 = -97.851 03 = -97.670

Geodetic Position and St Louis County Coordinates - Central Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (2011)	47 15 22.33082	92 29 36.13402	489228.859	102265.729	149117.255	31170.657	382.311		2012	GPS2800
NAD83 (2007)	47 15 22.33111	92 29 36.13487	489228.801	102265.758	149117.237	31170.666	382.322		2007	GPS2300
NAD83 (1996)	47 15 22.33120	92 29 36.13479	489228.806	102265.768	149117.238	31170.668	382.317	C	2003	GPS1848
NAD83 (1986)	47 15 22.33133	92 29 36.13743	489228.625	102265.780	149117.183	31170.672		C	1993	H1993

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/B_12-DF6520-3W-13SEP2017.jpg	W	Sep 13, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/B_12-DF6520-2-13SEP2017.jpg		Sep 13, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/B_12-DF6520-1-13SEP2017.jpg		Sep 13, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27750.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27750.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27751

B 13 MN137

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: B 13 MN137

NGS Name: B 13

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6457](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	54 N	17 W	470945.44	922825.27	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 15 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MN-137

Description: (2001) **Stamping:** B 13 1985

0.5 MILE SOUTH OF COTTON, 0.45 MILE SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 38.50, 107.5 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53, 76.0 FEET WEST OF COUNTY ROAD 892, 59.0 FEET SOUTH OF COUNTY ROAD 892, 22.8 FEET NORTH-NORTHEAST OF A TELEPHONE CABLE MARKER, 140.7 FEET SOUTH OF A POWER POLE, 2.5 FEET WEST OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1332.632 0.016	406.187 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.323 12B = -97.316 09 = -97.214 03 = -97.018

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>				
NAD83 (2011)	47 09 45.43647	92 28 25.27563	494106.859	286979.368	150604.072	87471.486	376.522		2012	GPS2800
NAD83 (2007)	47 09 45.43660	92 28 25.27653	494106.797	286979.381	150604.053	87471.490	376.549		2007	GPS2300
NAD83 (1996)	47 09 45.43641	92 28 25.27622	494106.819	286979.362	150604.060	87471.484	376.564	C	2003	GPS1848
NAD83 (1986)	47 09 45.43538	92 28 25.27735	494106.741	286979.255	150604.036	87471.452		C	1993	H1993

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/B_13-DF6457-3S-18SEP2017.jpg	S	Sep 18, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/B_13-DF6457-2-18SEP2017.jpg		Sep 18, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/B_13-DF6457-1-18SEP2017.jpg		Sep 18, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27751.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27751.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27753

B 159

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: B 159

NGS Name: B 159

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0495](#)

[Get Map](#)

NGS Quad / Sta Num : 47092322/

USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	2	53 N	18 W	470555.00	923440.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2007	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 7 IN.	STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1935)

Stamping: B 159 1935

1.0 MILE EAST OF THE PAYNE RAILROAD CROSSING, 62.0 FEET NORTH OF COUNTY ROAD 232, 16.0 FEET WEST OF A TRAIL, 102.0 FEET NORTH OF THE NORTHEAST CORNER OF SMALL DWELLING, 2.0 FEET WEST OF A WITNESS POST.

Station Notes

FOUND THE MARK LAYING ON THE TOP OF THE GROUND. REMOVED THE DISK AND RETURNED TO THE GEODETIC OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1309.502	0.016	399.137	0.005	2/0	1991	00000025
NGVD29	1308.934	0.007	398.964	0.002	1	1958	L63 MINN

Geoid Separations(ft): GEOID18 = -96.955 12B = -96.949 09 = -96.831 03 = -96.644

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27753.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27753.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27758

B 164

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: B 164

NGS Name: B 164

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0141](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	27	52 N	17 W	465737.51	922925.63	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2017	NOT FOUND	Horz=NO Vert=NO	NO			STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	BENCH MARK DISK	NGS

Description: (1935)

Stamping: B 164 1935

4.4 MILES EAST OF THE ALBORN RAILROAD STATION, NEAR COUNTY ROAD 47, AT A ROAD NORTH TO A LOOKOUT TOWER, 1.5 MILES WEST ON COUNTY ROAD 47 FROM THE JUNCTION OF COUNTY ROAD 47 AND TRUNK HIGHWAY 53 IN INDEPENDENCE, 90.0 FEET WEST OF THE WEST END OF A CUT, 30.0 FEET SOUTH OF A ROAD AT A HIGH POINT, AT A CEMETERY, 21.0 FEET WEST OF A TELEPHONE POLE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1375.394	0.016	419.221	0.005	2/0	1991	00000025
NGVD29	1374.909	0.016	419.073	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.476 12B = -95.469 09 = -95.344 03 = -95.154

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27758.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27758.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: B 271

NGS Name: B 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0645](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	36	52 N	21 W	465623.00	925556.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1999	DESTROYED	Horz=NO Vert=NO	NO	RR		STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	VERTICAL CONTROL DISK	NGS

Description: (1999) **Stamping:** B 271 1948

1.35 MILES NORTHWEST ON A RAILROAD FROM THE JUNCTION OF A RAILROAD AND TRUNK HIGHWAY 73 AT FLOODWOOD, 14.5 FEET NORTHEAST OF NORTHEAST RAIL OF THE RAILROAD TRACKS, IN THE SOUTHEAST HEADWALL OF A RAILROAD BOX CULVERT AT A DRAINAGE DITCH.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1249.158	0.016	380.744	0.005	2/0	1991	00000025
NGVD29	1248.616	0.007	380.579	0.002	1	1974	L23566

Geoid Separations(ft): GEOID18 = -95.466 12B = -95.446 09 = -95.374 03 = -95.256

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27784.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27784.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: B 272

NGS Name: B 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0715](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	6	51 N	20 W	465548.00	925453.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1999	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	VERTICAL CONTROL DISK	NGS

Description: (1999) **Stamping:** B 272 1948

AT FLOODWOOD, 0.45 MILE NORTH ON TRUNK HIGHWAY 73 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73, AT THE NORTHWEST CORNER OF ELM STREET AND FOURTH AVENUE, IN THE SOUTH WALL OF THE LINCOLN SCHOOL BUILDING, 77.7 FEET WEST OF TRUNK HIGHWAY 73, 1.4 FEET WEST OF THE SOUTHEAST CORNER OF A SCHOOL, A NEW SCHOOL WAS BUILT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1255. 188	0. 016	382. 582	0. 005	2/0	1991	00000025
NGVD29	1254. 637	0. 016	382. 414	0. 005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.387 12B = -95.367 09 = -95.292 03 = -95.177

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27785.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27785.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27786

B 273

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: B 273

NGS Name: B 273

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0520](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	17	53 N	20 W	470410.00	925347.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2021	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** B 273 1948

7.65 MILES WEST ON TRUNK HIGHWAY 133 FROM THE HIGH SCHOOL AT MEADOWLANDS, AT THE Y-JUNCTION OF COUNTY ROAD 133 AND A GRAVEL ROAD SOUTHWEST, 40.0 FEET NORTH OF COUNTY ROAD 133, 44.0 FEET NORTHWEST OF A ROAD SOUTHWEST EXTENDED, 17.0 FEET SOUTHWEST OF A DITCH, 2.0 FEET WEST OF A WITNESS POST.

Station Notes

FOUND IN DITCH BOTTOM.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1265.440	0.016	385.707	0.005	2/0	1991	00000025
NGVD29	1264.784	0.016	385.507	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.666 12B = -96.647 09 = -96.614 03 = -96.420

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27786.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27786.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: B 275

NGS Name: B 275

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0478](#) [Get Map](#)
NGS Quad / Sta Num : 47092324/
USGS Quad: MEADOWLANDS NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	15	54 N	19 W	471002.12	924436.81	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=? Vert=YES	NO		PROJECTS 5 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** B 275 1948

3.2 MILES EAST ON COUNTY ROAD 52 FROM THE JUNCTION OF COUNTY ROAD 52 AND COUNTY ROAD 5 AT TOIVOLA, 1.2 MILES EAST OF THE JUNCTION OF COUNTY ROAD 52 AND OVERTON ROAD, 52.0 FEET SOUTH OF COUNTY ROAD 52, 12.0 FEET WEST OF A GRASS DRIVE, ON THE HIGHEST POINT IN THE AREA, 2.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1298.790	0.016	395.872	0.005	2/0	1991	00000025
NGVD29	1298.144	0.016	395.675	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.549 12B = -97.546 09 = -97.467 03 = -97.280

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27787.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27787.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27790

B 280

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: B 280

NGS Name: B 280

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1327](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	28	55 N	21 W	471236.51	930122.32	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	NOT FOUND	Horz=NO Vert=NO	YES		PROJECTS 4 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2019)

Stamping: B 280 1948

4.4 MILES SOUTH ON TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND A RAILROAD AT SILICA, 0.45 MILE SOUTH OF A ROAD WEST, 0.25 MILE NORTHWEST OF A WOOD BRIDGE OVER MUSKRAT CREEK, 34.0 FEET EAST OF TRUNK HIGHWAY 73, 135.0 FEET SOUTH OF THE TOP OF A GRADE, 16.0 FEET SOUTH OF THE SOUTH END OF A CUT, 16.0 FEET SOUTH OF A TELEPHONE POLE, ACROSS THE HIGHWAY FROM A GRAVEL PIT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1329.456	0.016	405.219	0.005	2/0	1991	00000025
NGVD29	1328.692	0.016	404.986	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.113 12B = -97.123 09 = -97.040 03 = -96.922

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/B_280-SJ1327-3E-11JUL2017.jpg	E	Jul 11, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27790.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: B 29

NGS Name: B 29

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0121](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	23	51 N	17 W	465339.00	922703.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2017	NOT FOUND	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

Monument Type

UNKNOWN

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1978)

Stamping: B 29 1934

3.0 MILES NORTHEAST OF SAGINAW ON AN ABANDONED RAILROAD, 30.0 FEET SOUTH OF A COUNTY ROAD 7 CROSSING,
22.0 FEET WEST OF AN OLD RAILROAD BED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1340.047	0.016	408.447	0.005	2/0	1991	00000025
NGVD29	1339.627	0.016	408.319	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.737 12B = -94.734 09 = -94.616 03 = -94.422

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27792.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27792.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27793

B 291

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: B 291

NGS Name: B 291

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0671](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	51 N	20 W	465151.00	925048.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2005	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 8 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2019) **Stamping:** B 291 1948

0.1 MILE SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86 AT GOWAN, 5.05 MILES SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 AT FLOODWOOD, 72.8 FEET SOUTHWEST OF TRUNK HIGHWAY 2, 56.7 FEET WEST OF TRUNK HIGHWAY 2 MILEPOST 226, 28.0 FEET NORTHEAST OF A RIGHT-OF-WAY POST, 19.6 FEET WEST-NORTHWEST OF A POWER POLE NUMBER 3, 10.5 FEET NORTHWEST OF A 24.0 INCH DIAMETER ELM TREE, 0.9 FOOT NORTHEAST OF A WITNESS POST.

Station Notes

THE GEODETIC UNIT FOUND THE MONUMENT TIPPED OVER ON 8-29-01, THE DISK WAS REMOVED.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1260.204	0.016	384.111	0.005	2/0	1991	00000025
NGVD29	1259.591	0.016	383.924	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.800 12B = -94.787 09 = -94.698 03 = -94.583

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27793.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27793.pdf



Geodetic Data Sheet (Brief)
GSID Station # 42621

BATOR MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BATOR MNDT

NGS Name: BATOR

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DG4242](#) [Get Map](#)
 NGS Quad / Sta Num : 46092143/
 USGS Quad: SAGINAW

1/4	Sec	Twp	Rng	Reference	Reference	Vert	Horz
				Latitude	Longitude	Order	Order
NE	11	50 N	17 W	465000.54	922725.72	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2001	2017	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)	SURVEY DISK	MNDT

Description: (2003) **Stamping:** BATOR 2001

1.75 MILES SOUTH-SOUTHWEST OF SAGINAW, 0.75 MILE SOUTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 1.0 MILE SOUTHWEST OF SAGINAW), AT TRUNK HIGHWAY 33 MILEPOINT 10.50, 56.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 33, 18.7 FEET NORTH OF AN ENTRANCE, 3.0 FEET SOUTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height	Orthometric (Feet) Accuracy	Orthometric (Meters) Height	Orthometric (Meters) Accuracy	Survey Order/(Class)	Project Info Year	Project Info Reference
NAVD88	1293.170	0.016	394.159	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -94.209 12B = -94.193 09 = -94.107 03 = -93.914

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (2011)	46 50 00.54322	92 27 25.71823	498211.751	166924.232	151855.245	50878.608	365.435		2012	GPS2800
NAD83 (2007)	46 50 00.54336	92 27 25.71911	498211.690	166924.247	151855.227	50878.612	365.462		2007	GPS2300
NAD83 (1996)	46 50 00.54300	92 27 25.71907	498211.692	166924.210	151855.228	50878.601	365.495	C	2004	GPS1957

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BATOR-DG4242-3W-03JUL2007.jpg	W	Jul 3, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BATOR-DG4242-2-03JUL2007.jpg		Jul 3, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BATOR-DG4242-1-03JUL2007.jpg		Jul 3, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_42621.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BATOR MNDT RESET

NGS Name: BATOR RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1879](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	11	50 N	17 W	465000.54	922725.72	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017)

Stamping: BATOR 2001 2017

8.0 MILES NORTH OF CLOQUET, 0.75 MILE SOUTH-SOUTHWEST ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 10.50, 56.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 33, 18.7 FEET NORTH OF AN ENTRANCE, 3.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1292. 967 0. 016	394. 097 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.209 12B = -94.193 09 = -94.107 03 = -93.914

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BATOR_RESET-DR1879-3W-02AUG2017.jpg	W	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BATOR_RESET-DR1879-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BATOR_RESET-DR1879-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107959.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107823

BETH

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BETH

NGS Name: BETH

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5150](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	21	55 N	21 W	471335.35	930105.70	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 41 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: BETH 2017

14.6 MILES SOUTH-SOUTHWEST OF HIBBING, 12.95 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 65.9, 25.8 FEET WEST OF TRUNK HIGHWAY 73, 18.7 FEET NORTH OF AN ENTRANCE, 6.5 FEET EAST OF A WITNESS POST.

Station Pair: JOHN - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1334. 443 0. 016	406. 739 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.162 12B = -97.178 09 = -97.086 03 = -96.981

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BETH-DR5150-3W-26JUL2017.jpg	W	Jul 26, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BETH-DR5150-2-26JUL2017.jpg		Jul 26, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BETH-DR5150-1-26JUL2017.jpg		Jul 26, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107823.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107823.pdf



Geodetic Data Sheet (Brief)
GSID Station # 41613

BNSF MN137

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BNSF MN137

NGS Name: BNSF

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	10	51 N	18 W	465534.95	923644.47		C

NGS ACRN: [DF9091](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2002	GOOD	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 16 FT)

Disk Type

SURVEY DISK

Mon. Agency

MN-137

Description: (2002)

Stamping: B.N.S.F. 2001

14.5 MILES EAST OF FLOODWOOD, 14.40 MILES EAST ALONG COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 AND TRUNK HIGHWAY 73 IN FLOODWOOD, 42.0 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 8, 65.0 FEET WEST OF THE RAILROAD TRACKS, 3.5 FEET SOUTHEAST OF A GATEPOST, 2.5 FEET NORTH OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.315 12B = -95.305 09 = -95.207 03 = -95.046

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 55 34.95282	92 36 44.46582	459430.907	200848.084	140034.820	61218.619	381.704				2012	GPS2800
NAD83 (2007)	46 55 34.95294	92 36 44.46670	459430.846	200848.097	140034.802	61218.622	381.732				2007	GPS2300
NAD83 (1996)	46 55 34.95267	92 36 44.46639	459430.867	200848.069	140034.808	61218.614	381.755	C			2003	GPS1931

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BNSF-DF9091-1-03JUN2003.jpg		Jun 3, 2003

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41613.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41613.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BOBER MNDT

NGS Name: BOBER

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0752](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/1061
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	35	51 N	19 W	465117.01	924258.55	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1997	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (1981) **Stamping:** BOBER 1974

5.8 MILES WEST-SOUTHWEST OF BROOKSTON, 5.5 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31, 94.7 FEET NORTH OF TRUNK HIGHWAY 2, 67.4 FEET WEST-SOUTHWEST OF A RIGHT-OF-WAY POST, 69.3 FEET EAST-SOUTHEAST OF A POWER POLE, 4.9 FEET SOUTH OF AN EAST-WEST FENCE LINE, 3.7 FEET SOUTH OF A WITNESS POST, IN 1997 A DISTRICT SURVEY CREW FOUND THE MONUMENT TIPPED OVER.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1390.991	0.016	423.975	0.005	2/0	1991	00000025
NGVD29	1390.355	0.016	423.781	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.678 12B = -94.665 09 = -94.583 03 = -94.455

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid	Surv	Project Info			
	Latitude		Longitude		X	Y	X	Y	Hgt (m)	Ord	Year	Reference		
NAD83 (1996)	46	51	17.00632	92	42	58.54983	433376.205	174784.389	132093.332	53274.388	395.166	2	1999	17648
NAD83 (1986)	46	51	16.99942	92	42	58.55162	433376.079	174783.690	132093.293	53274.175		2	1986	17289
NAD27	46	51	17.19713	92	42	57.84750						2	1977	15924

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27837.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27837.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BOUND MNDT

NGS Name: BOUND

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0773](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/1054
USGS Quad: BROOKSTON

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	1	50 N	18 W	465054.73	923417.85	2	2

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1974	1992	DESTROYED	Horz=NO Vert=NO	NO			STEEL SPIKE ADJ TO MON

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (1992) **Stamping:** BOUND 1974

2.2 MILES SOUTHEAST OF BROOKSTON, 1.65 MILES EAST OF COUNTY ROAD 31, AT TRUNK HIGHWAY 2 MILEPOINT 239.95, HALF WAY UP THE BACK SLOPE, 71.0 FEET SOUTH OF TRUNK HIGHWAY 2, 75.5 FEET EAST OF AN ENTRANCE, 46.7 FEET NORTHWEST OF A RIGHT-OF-WAY POST, 37.5 FEET NORTH-NORTHEAST OF A WITNESS POST, 45.39 FEET NORTHWEST OF BOUND MNDT RM 1, 36.23 FEET NORTHEAST OF STATION 6907 AF. THE DISK WAS SENT TO THE GEODETIC UNIT IN 1992.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1268.662	0.016	386.689	0.005	2/0	1991	00000025
NGVD29	1268.200	0.016	386.548	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.557 12B = -94.554 09 = -94.452 03 = -94.285

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude		Longitude		X	Y	X	Y			Year	Reference
NAD83 (1996)	46	50	54.72756	92 34 17.85233	469563.622	172437.613	143123.278	52559.090	357.926	2	1999	17648
NAD83 (1986)	46	50	54.72179	92 34 17.85415	469563.497	172437.027	143123.240	52558.911			1991	H1991
NAD27	46	50	54.92605	92 34 17.15609						2	1977	15924

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27840.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27840.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BOUND MNDT RM 1

NGS Name: BOUND MNDT RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 46092412/1054
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
NW	1	50 N	18 W	465054.70	923417.90			1981	1981	GOOD	Horz=? Vert=?	YES			SEE DESCRIPTION
<u>Monument Type</u>								<u>Disk Type</u>				<u>Mon. Agency</u>			
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)								ALUMINUM MARKER (OTHER THAN A DISK)				MNDT			

Description:

Stamping: BOUND RM 1

2.2 MILES SOUTHEAST OF BROOKSTON, 1.65 MILES EAST OF COUNTY ROAD 31, AT TRUNK HIGHWAY 2 MILEPOINT 239.95, HALF WAY UP THE BACK SLOPE, 100.0 FEET SOUTH OF THE CENTERLINE OF TRUNK HIGHWAY 2, 45.39 FEET SOUTHEAST OF BOUND RESET, 1.6 FEET WEST OF A STEEL WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.557 12B = -94.554 09 = -94.452 03 = -94.285

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_110234.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_110234.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BOUND RESET

NGS Name: BOUND RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1814](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	1	50 N	18 W	465054.73	923417.85		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2005	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	ALUMINUM MARKER (OTHER THAN A DISK)	MNDT

Description: (2002)

Stamping: BOUND 1974 1981

AT TRUNK HIGHWAY 2 MILEPOINT 239.4, 71.0 FEET SOUTH OF TRUNK HIGHWAY 2, 75.5 FEET EAST OF AN ENTRANCE, 46.7 FEET NORTHWEST OF A RIGHT-OF-WAY POST, 37.5 FEET NORTH-NORTHEAST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.557 12B = -94.554 09 = -94.452 03 = -94.557

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 50 54.72756	92 34 17.85233	469563.622	172437.613	143123.278	52559.090		2	1999	17648
NAD83 (1986)	46 50 54.72179	92 34 17.85415	469563.495	172437.028	143123.239	52558.911		2	1986	17289

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41748.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41748.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107867

BR 69011 SE

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 69011 SE

NGS Name: BR 69011 SE

County: ST. LOUIS, MN (Sheet 1)

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>	NGS ACRN: DQ9920 Get Map NGS Quad / Sta Num : 46092444/ USGS Quad: FLOODWOOD		
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>			
SE	6	51 N	20 W	465539.04	925452.61	2				
<u>Year Set</u>	<u>Last Recovery</u>		<u>Condition</u>		<u>Geodetic Usability</u>		<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1979	2017		GOOD		Horz=NO Vert=NO		YES	69011	FLUSH	NO MAG MATERIAL
<u>Monument Type</u>							<u>Disk Type</u>		<u>Mon. Agency</u>	
BRIDGE ABUTMENT							BENCH MARK DISK		MNHD	

Description: (1979)

Stamping: BR 69011 SE 1979

IN THE ABUTMENT IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 73 BRIDGE NUMBER 69011 OVER THE FLOODWOOD RIVER, 0.25 MILE NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 45.4, 30.1 FEET EAST OF TRUNK HIGHWAY 73.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1248.347	0.016	380.497	0.005	2/1	2021	00000963
Geoid Separations(ft): GEOID18 = -95.364 12B = -95.344 09 = -95.269 03 = -95.154							
* No Horizontal Positions in the Database *							

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<u>Location:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69011_SE-DQ9920-3E-10JUL2017.jpg	E	Jul 10, 2017
<u>Monument:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69011_SE-DQ9920-2-10JUL2017.jpg		Jul 10, 2017
<u>Disk:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69011_SE-DQ9920-1-10JUL2017.jpg		Jul 10, 2017
** All station images can be viewed at: ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos **			

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107867.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107867.pdf



Geodetic Data Sheet (Brief)
GSID Station # 102913

BR 69022 SE

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 69022 SE

NGS Name: BR 69022 SE

County: ST. LOUIS, MN (Sheet 1)

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>	NGS ACRN: NGS Quad / Sta Num : 47092234/ USGS Quad: COTTON		Get Map
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>			
SW	3	54 N	17 W	471107.73	922910.79		3			
<u>Year Set</u>		<u>Last Recovery</u>		<u>Condition</u>	<u>Geodetic Usability</u>		<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2002		2017		GOOD	Horz=NO Vert=NO		YES	69022	FLUSH	NO MAG MATERIAL
<u>Monument Type</u>							<u>Disk Type</u>		<u>Mon. Agency</u>	
BRIDGE ABUTMENT							SURVEY DISK		MNDT	

Description:

Stamping: BR 69022 SE 2002

1.2 MILES NORTH OF COTTON, IN THE ABUTMENT IN THE SOUTHEAST CORNER OF SOUTHBOUND TRUNK HIGHWAY 53 BRIDGE NUMBER 69022 OVER THE WHITEFACE RIVER, 1.25 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 53 (ARKOLA ROAD) IN COTTON, AT TRUNK HIGHWAY MILEPOINT 40.15, 21.0 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 53.

Station Notes

IF THE COORDINATES AND/OR ELEVATIONS ARE ESTABLISHED OR PUBLISHED ON THIS GEODETIC CONTROL DISK, THEY SHOULD BE USED WITH CAUTION. THE GEODETIC CONTROL DISK IS LOCATED ON AN INTEGRAL ABUTMENT AND/OR A JOINTLESS BRIDGE AND IS SUBJECT TO MOVEMENT BEYOND GEODETIC TOLERANCES.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.536 12B = -97.533 09 = -97.437 03 = -97.241

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69022_SE-3N-14SEP2017.jpg	N	Sep 14, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69022_SE-2-14SEP2017.jpg		Sep 14, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69022_SE-1-14SEP2017.jpg		Sep 14, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102913.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102913.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 69071 SE

NGS Name: BR 69071 SE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
				471236.27	922917.72		3	2012	2017	GOOD	Horz=NO Vert=NO	YES	69071	FLUSH	NO MAG MATERIAL
<u>Monument Type</u>						<u>Disk Type</u>						<u>Mon. Agency</u>			
BRIDGE ABUTMENT						SURVEY DISK						MNDT			

Description:

Stamping: BR 69071 SE 2012

3.0 MILES NORTH OF COTTON, IN THE ABUTMENT IN THE SOUTHEAST CORNER OF SOUTHBOUND TRUNK HIGHWAY 53 BRIDGE NUMBER 69071 OVER THE PALEFACE RIVER, 2.9 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 41.9, 8.7 FEET EAST OF TRUNK HIGHWAY 53 FOG LINE.

Station Notes

IF THE COORDINATES AND/OR ELEVATIONS ARE ESTABLISHED OR PUBLISHED ON THIS GEODETIC CONTROL DISK, THEY SHOULD BE USED WITH CAUTION. THE GEODETIC CONTROL DISK IS LOCATED ON AN INTEGRAL ABUTMENT AND/OR A JOINTLESS BRIDGE AND IS SUBJECT TO MOVEMENT BEYOND GEODETIC TOLERANCES.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.703 12B = -97.700 09 = -97.621 03 = -97.424

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69071_SE-3N-14SEP2017.jpg	N	Sep 14, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69071_SE-2-14SEP2017.jpg		Sep 14, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69071_SE-1-14SEP2017.jpg		Sep 14, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103044.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103044.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107852

BR 69072 SE

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 69072 SE

NGS Name: BR 69072 SE

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	9	55 N	21 W	471554.05	930125.86	2	

NGS ACRN: DR5154	Get Map
NGS Quad / Sta Num : 47093212/	
USGS Quad: SILICA	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2017	GOOD	Horz=NO Vert=NO	YES	69072	FLUSH	NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (2014)

Stamping: BR 69072 SE 2014

1.3 MILES SOUTH OF HIBBING, 1.9 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND COUNTY ROAD 16 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 68.75, 23.2 FEET EAST OF TRUNK HIGHWAY 73.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1335.168 0.016	406.960 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.254 12B = -97.277 09 = -97.165 03 = -97.086

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69072_SE-DR5154-3E-11JUL2017.jpg	E	Jul 11, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69072_SE-DR5154-2-11JUL2017.jpg		Jul 11, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69072_SE-DR5154-1-11JUL2017.jpg		Jul 11, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107852.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107852.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 69117 SE

NGS Name: BR 69117 SE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	23	50 N	17 W	464756.40	922657.82		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1990	2017	GOOD	Horz=NO Vert=NO	YES	69117	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description:

Stamping: BR 69117 SE 1990

5.8 MILES NORTH OF CLOQUET, IN A RAIL IN THE SOUTHEAST CORNER OF SOUTHBOUND TRUNK HIGHWAY 33 BRIDGE NUMBER 69117 OVER THE PINE RIVER, 8.0 MILE NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND INTERSTATE HIGHWAY 35 IN CLOQUET, AT TRUNK HIGHWAY 33 MILEPOINT 8.0, 29.2 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 33.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.884 12B = -93.868 09 = -93.783 03 = -93.589

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69117_SE-3N-02AUG2017.jpg	N	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69117_SE-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69117_SE-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107970.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107970.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 69118 SE

NGS Name: BR 69118 SE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	24	50 N	17 W	464757.08	922656.85		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1990	2017	GOOD	Horz=NO Vert=NO	YES	69118	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	BENCH MARK DISK	MNDT

Description:

Stamping: BR 69118 SE 1990

5.8 MILES NORTH OF CLOQUET, IN A RAIL IN THE SOUTHEAST CORNER OF NORTHBOUND TRUNK HIGHWAY 33 BRIDGE NUMBER 69118 OVER THE PINE RIVER, 8.0 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND INTERSTATE HIGHWAY 35 IN CLOQUET, AT TRUNK HIGHWAY 33 MILEPOINT 8.0, 24.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 33.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.884 12B = -93.868 09 = -93.786 03 = -93.589

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69118_SE-3E-02AUG2017.jpg	E	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69118_SE-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69118_SE-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107971.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107971.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 69121 SE

NGS Name: BR 69121 SE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	1	50 N	18 W	465057.44	923449.95		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2002	2017	GOOD	Horz=NO Vert=NO	YES	69121	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	SURVEY DISK	MNDT

Description: (2017)

Stamping: BR 69121 SW 2002

10.9 MILES NORTHWEST OF CLOQUET, 5.60 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOINT 239.25, 25.0 FEET NORTH OF TRUNK HIGHWAY 2.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.573 12B = -94.573 09 = -94.468 03 = -94.304

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69121_SE-3S-25JUL2017.jpg	S	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69121_SE-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69121_SE-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107908.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107908.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 69121 SW

NGS Name: BR 69121 SW

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	50 N	18 W	465059.36	923442.30		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2002	2017	GOOD	Horz=NO Vert=NO	YES	69121	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	SURVEY DISK	MNDT

Description: (2017)

Stamping: BR 69121 SW 2002

11.0 MILES NORTHWEST OF CLOQUET, IN THE RAIL IN THE SOUTHWEST CORNER OF TRUNK HIGHWAY 2 BRIDGE NUMBER 69121 OVER THE RAILROAD TRACKS AND THE ST. LOUIS RIVER, 5.75 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOINT 239.1, 25.0 FEET SOUTH OF TRUNK HIGHWAY 2.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.577 12B = -94.577 09 = -94.472 03 = -94.308

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69121_SW-3S-25JUL2017.jpg	S	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69121_SW-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69121_SW-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107905.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107905.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107958

BR 69A14 SE

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 69A14 SE

NGS Name: BR 69A14 SE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	34	51 N	18 W	465141.51	923617.44		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2017	GOOD	Horz=NO Vert=NO	YES	69A14	FLUSH	NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

SURVEY DISK

Mon. Agency

MN-137

Description: (2017)

Stamping: BR 69A14 2014

IN BROOKSTON, IN THE ABUTMENT IN THE SOUTHEAST CORNER OF COUNTY ROAD 31 BRIDGE NUMBER 69A14 OVER STONE BROOK, 0.5 MILE NORTH ALONG COUNTY ROAD 31 FROM THE JUNCTION OF COUNTY ROAD 31 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 1.0 MILE SOUTH OF BROOKSTON), 18.8 FEET EAST OF COUNTY ROAD 31.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.711 12B = -94.711 09 = -94.616 03 = -94.452

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69A14_SE-3E-25JUL2017.jpg	E	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69A14_SE-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_69A14_SE-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107958.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107958.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 9260

NGS Name: BR 9260

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47093212/

USGS Quad: SILICA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	9	55 N	21 W	471554.00	930124.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1957	2017	DESTROYED	Horz=NO Vert=NO	NO	9260		NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (2019)

Stamping:

IN SILICA, 1.75 MILES SOUTH ON TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND COUNTY ROAD 6 IN HIBBING, IN THE SOUTHEAST ABUTMENT OF TRUNK HIGHWAY 73 BRIDGE NUMBER 9260 OVER THE WEST SWAN RIVER.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.257 12B = -97.277 09 = -97.168 03 = -97.090

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27842.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27842.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27843

BR 9261

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 9261

NGS Name: BR 9261

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	4	55 N	21 W	471636.71	930126.48	2	

NGS ACRN: DR5156	Get Map
NGS Quad / Sta Num : 47093212/	
USGS Quad: SILICA	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1957	2017	GOOD	Horz=NO Vert=NO	YES	9261	FLUSH	NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (1957)

Stamping: BR 9261 1957

0.4 MILE SOUTH OF HIBBING, IN THE SOUTHEAST ABUTMENT OF TRUNK HIGHWAY 73 BRIDGE NUMBER 9261 OVER THE WEST SWAN RIVER, 1.0 MILE SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 73 AND COUNTY ROAD 16 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 69.55, 24.5 FEET EAST OF TRUNK HIGHWAY 73.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1340.119	0.016	408.469	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -97.306 12B = -97.329 09 = -97.214 03 = -97.142

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_9261-DR5156-3E-11JUL2017.jpg	E	Jul 11, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_9261-DR5156-2-11JUL2017.jpg		Jul 11, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BR_9261-DR5156-1-11JUL2017.jpg		Jul 11, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27843.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27843.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BROOKSTON

NGS Name: BROOKSTON

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0763](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/1008
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	32	51 N	18 W	465118.42	923846.98	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1995	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

Description: (1995) **Stamping:** BROOKSTON 1952 1974

2.1 MILES SOUTHWEST OF BROOKSTON, 2.0 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31, 89.0 FEET NORTH OF TRUNK HIGHWAY 2, 55.0 FEET EAST OF A DRIVEWAY NORTH, 39.1 FEET EAST OF UNDERGROUND CABLE MARKER NUMBER 18, 24.3 FEET EAST-SOUTHEAST OF A POWER POLE, 3.6 FEET WEST OF A WITNESS POST, AT TRUNK HIGHWAY 2 MILEPOINT 235.8, 78.63 FEET WEST-SOUTHWEST OF BROOKSTON RM 1, 87.85 FEET SOUTHEAST OF BROOKSTON RM 2, 89.09 FEET NORTHEAST OF BROOKSTON RM 3.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1337.136	0.016	407.560	0.005	2/0	1991	00000025
NGVD29	1336.513	0.016	407.370	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.665 12B = -94.662 09 = -94.570 03 = -94.422

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 51 18.41996	92 38 46.97770	450861.987	174876.021	137423.008	53302.318	378.757	2	1999	17648
NAD83 (1986)	46 51 18.41367	92 38 46.97916	450861.884	174875.384	137422.977	53302.124		2	1986	17289
NAD27	46 51 18.61200	92 38 46.27800						2	1954	10724

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27849.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27849.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27850

BROOKSTON AZ MK

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BROOKSTON AZ MK

NGS Name: BROOKSTON AZ MK

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	5	50 N	18 W	465116.41	923819.55	2	C

NGS ACRN:	RN0765	Get Map
NGS Quad / Sta Num :	46092413/1008	
USGS Quad:	MARTIN LAKE	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2017	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

AZIMUTH MARK DISK

Mon. Agency

NGS

Description: (2001)

Stamping: BROOKSTON 1952

2.0 MILES SOUTHWEST OF BROOKSTON, 1.6 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31 (THE JUNCTION IS 1.0 MILE SOUTH OF BROOKSTON), AT TRUNK HIGHWAY 2 MILEPOINT 236.2, 64.2 FEET SOUTH OF TRUNK HIGHWAY 2, 50.5 FEET WEST OF AN ENTRANCE SOUTH, 22.3 FEET SOUTH OF THE WEST END OF A METAL CULVERT, 29.8 FEET NORTH OF A POWER POLE NUMBER 6, 1.7 FEET NORTHWEST OF A WITNESS POST.

Station Pair: KEOUGH - ST. LOUIS, MN

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1306.385	0.016	398.187	0.005	2/1	2021	00000963
NGVD29	1305.765	0.016	397.998	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.659 12B = -94.655 09 = -94.563 03 = -94.413

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 51 16.40805	92 38 19.55221	452767.682	174667.495	138003.866	53238.759	369.320		2012	GPS2800
NAD83 (2007)	46 51 16.40818	92 38 19.55308	452767.622	174667.509	138003.847	53238.763	369.348		2007	GPS2300
NAD83 (1996)	46 51 16.40797	92 38 19.55304	452767.625	174667.488	138003.848	53238.757	369.381	C	2004	GPS1957
NAD83 (1986)	46 51 16.40318	92 38 19.55413	452767.548	174667.002	138003.825	53238.609		3	1986	17289
NAD27	46 51 16.60222	92 38 18.85376						3	1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BROOKSTON_AZ_MK-RN0765-3S-25JUL2017.jpg	S	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BROOKSTON_AZ_MK-RN0765-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BROOKSTON_AZ_MK-RN0765-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27850.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27850.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BROOKSTON RM 1

NGS Name: BROOKSTON RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0764](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	32	51 N	18 W	465118.49	923845.85	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1952	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 12 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

Description: (2019)

Stamping: BROOKSTON NO 1 1952

2.1 MILES WEST-SOUTHWEST OF BROOKSTON, 2.0 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31 (THE JUNCTION IS 1.0 MILE SOUTH OF BROOKSTON), AT TRUNK HIGHWAY 2 MILEPOINT 235.8, 97.0 FEET NORTH OF TRUNK HIGHWAY 2, 131.6 FEET EAST OF DRIVEWAY NUMBER 9177, 116.4 FEET WEST OF CABLE MARKER NUMBER 18, 98.8 FEET WEST OF A POWER POLE, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1336.054	0.016	407.230	0.005	2/1	2021	00000963
NGVD29	1335.296	0.016	406.999	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.665 12B = -94.662 09 = -94.570 03 = -94.422

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BROOKSTON_RM_1-RN0764-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BROOKSTON_RM_1-RN0764-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BROOKSTON_RM_1-RN0764-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27851.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27851.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BROOKSTON RM 2

NGS Name: BROOKSTON RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0762](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	32	51 N	18 W	465119.14	923847.68	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2007	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

Description: (2001)

Stamping: BROOKSTON NO 2 1952

2.1 MILES WEST-SOUTHWEST OF BROOKSTON, 2.0 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31, 87.9 FEET NORTHWEST OF STATION BROOKSTON, 174.2 FEET NORTH OF TRUNK HIGHWAY 2, 11.0 FEET EAST OF A DRIVEWAY NORTH, 69.5 FEET NORTH OF A POWER POLE, 71.0 FEET NORTH OF AN EAST-WEST POWER LINE, 4.0 FEET WEST OF A NORTH-SOUTH FENCE LINE, 88.9 FEET NORTH-NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1336.982	0.016	407.513	0.005	2/0	1991	00000025
NGVD29	1336.362	0.016	407.324	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.665 12B = -94.659 09 = -94.570 03 = -94.422

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27852.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27852.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BROOKSTON RM 3

NGS Name: BROOKSTON RM 3

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0761](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	32	51 N	18 W	465118.19	923848.22	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2007	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 10 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2019) **Stamping:** BROOKSTON NO 3 1974

2.1 MILES WEST-SOUTHWEST OF BROOKSTON, 2.0 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31, AT TRUNK HIGHWAY 2 MILEPOINT 235.8, 63.0 FEET NORTH OF TRUNK HIGHWAY 2, 27.0 FEET WEST OF A DRIVEWAY NORTH, 13.6 FEET NORTHWEST OF THE WEST END OF A CULVERT UNDER A DRIVEWAY, 58.4 FEET SOUTHWEST OF CABLE MARKER POST NUMBER 18, 59.7 FEET SOUTHWEST OF A POWER POLE, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1339.348	0.016	408.234	0.005	2/0	1991	00000025
NGVD29	1338.728	0.016	408.045	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.665 12B = -94.662 09 = -94.570 03 = -94.422

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 51 18.18771	92 38 48.21542	450775.901	174852.705	137396.769	53295.211	379.404		2012	GPS2800
NAD83 (2007)	46 51 18.18784	92 38 48.21629	450775.841	174852.719	137396.751	53295.215	379.432		2007	GPS2300
NAD83 (1996)	46 51 18.18764	92 38 48.21624	450775.844	174852.698	137396.752	53295.209	379.465	C	2004	GPS1957

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BROOKSTON_RM_3-RN0761-3N-22OCT2006.jpg	N	Oct 22, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BROOKSTON_RM_3-RN0761-2-22OCT2006.jpg		Oct 22, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BROOKSTON_RM_3-RN0761-1-22OCT2006.jpg		Oct 22, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27853.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27853.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108084

BULLEN

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BULLEN

NGS Name: BULLEN

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1870](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	26	52 N	17 W	465718.22	922727.39	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 16 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (17) **Stamping:** BULLEN 2017

16.5 MILES NORTH OF CLOQUET, 8.0 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 19.30, 68.3 FEET NORTHWEST OF NORTHBOUND TRUNK HIGHWAY 33, 97.5 FEET SOUTHEAST OF SOUTHBOUND TRUNK HIGHWAY 33, ABOUT 350.0 FEET SOUTHWEST OF SOUTHBOUND TRUNK HIGHWAY 53, 1.5 FEET SOUTHEAST OF A WITNESS POST.

Station Pair: CHALBERG MNDT - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1344. 518 0. 016	409. 810 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.341 12B = -95.334 09 = -95.210 03 = -95.013

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BULLEN-DR1870-3NE-16AUG2017.jpg	NE	Aug 16, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BULLEN-DR1870-2-16AUG2017.jpg		Aug 16, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BULLEN-DR1870-1-16AUG2017.jpg		Aug 16, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108084.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108084.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27860

BUSCHE MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BUSCHE MNDT

NGS Name: BUSCHE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AC5011](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	50 N	17 W	465038.86	922729.67	2	B

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1995	2025	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

Monument Type

STEEL ROD (IN SLEEVE) (DEPTH 24 FT)

Disk Type

METAL ROD

Mon. Agency

MNDT

Description: (2001)

Stamping: BUSCHE 1995

9.0 MILES NORTH OF CLOQUET, AT THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33, AT TRUNK HIGHWAY 33 MILEPOINT 11.2, 32.5 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 33, 51.5 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 33, 65.7 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF NORTHBOUND TRUNK HIGHWAY 33 BRIDGE OVER TRUNK HIGHWAY 2, 61.7 FEET SOUTH-SOUTHEAST OF THE SOUTHEAST CORNER OF A SOUTHBOUND TRUNK HIGHWAY 33 BRIDGE OVER TRUNK HIGHWAY 2, 3.7 FEET NORTH OF A WITNESS POST.

Station Pair: DBUG - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1351.746 0.016	412.013 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.304 12B = -94.288 09 = -94.196 03 = -94.009

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 50 38.85961	92 27 29.67037	497937.357	170806.400	151771.610	52061.895	383.273		2013	GPS2885
NAD83 (2007)	46 50 38.85973	92 27 29.67124	497937.297	170806.412	151771.592	52061.899	383.299		2007	GPS2300
NAD83 (1996)	46 50 38.85953	92 27 29.67118	497937.301	170806.392	151771.593	52061.893	383.332	B	2004	GPS1954

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BUSCHE-AC5011-3N-01OCT2025.jpg	N	Oct 1, 2025
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BUSCHE-AC5011-2-01OCT2025.jpg		Oct 1, 2025
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BUSCHE-AC5011-1-01OCT2025.jpg		Oct 1, 2025

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27860.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27860.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: C 159

NGS Name: C 159

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0496](#) [Get Map](#)
NGS Quad / Sta Num : 47092322/
USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	6	53 N	17 W	470558.00	923321.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2007	DESTROYED	Horz=NO Vert=NO	NO			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1935)

Stamping: C 159 1935

2.0 MILES EAST OF PAYNE, 2.0 MILES EAST ON COUNTY ROAD 232 FROM THE JUNCTION OF COUNTY ROAD 232 AND COUNTY ROAD 7, 87.0 FEET EAST OF A TRAIL SOUTH, 39.0 FEET SOUTH OF A ROAD.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1315.155	0.016	400.860	0.005	2/0	1991	00000025
NGVD29	1314.591	0.007	400.688	0.002	1	1958	L63 MINN

Geoid Separations(ft): GEOID18 = -96.926 12B = -96.922 09 = -96.798 03 = -96.614

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27862.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27862.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: C 165

NGS Name: C 165

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0490](#) [Get Map](#)
NGS Quad / Sta Num : 47092321/
USGS Quad: KELSEY

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	10	54 N	18 W	471006.71	923606.59	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1948	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 6 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1935) **Stamping:** C 165 1935

1.0 MILE NORTH ON A RAILROAD FROM THE RAILROAD STATION AT KELSEY, AT THE JUNCTION OF A RAILROAD AND COUNTY ROAD 52, 58.0 FEET EAST OF THE EAST RAIL OF THE EAST RAILROAD TRACK, 46.0 FEET NORTH OF COUNTY ROAD 52, 49.0 FEET NORTHEAST OF A CROSSING SIGN, 2.0 FEET NORTH OF A WITNESS POST.

Station Notes

THE CONCRETE WAS FOUND BROKEN AND DISK MISSING.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1301.661	0.016	396.747	0.005	2/0	1991	00000025
NGVD29	1301.044	0.016	396.559	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.565 12B = -97.572 09 = -97.460 03 = -97.277

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27868.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27868.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27892

C 271

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: C 271

NGS Name: C 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0648](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/1011
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	6	51 N	20 W	465543.75	925510.47	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2001) **Stamping:** C 271 1948

IN FLOODWOOD, UNDER THE FLOODWOOD LOOKOUT TOWER, 0.2 MILE NORTHWEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND THE WEST JUNCTION OF TRUNK HIGHWAY 73, THEN 0.1 MILE EAST ON 7TH AVENUE, THEN 0.2 MILE NORTHWEST ON A RAILROAD STATION, 76.76 FEET SOUTH-SOUTHEAST OF STATION FLOODWOOD, 79.1 FEET SOUTHWEST OF A RAILROAD STATION, 6.0 FEET NORTH OF THE SOUTHWEST CORNER OF A TOWER, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1254.154	0.016	382.267	0.005	2/1	2021	00000963
NGVD29	1253.485	0.016	382.063	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.374 12B = -95.354 09 = -95.279 03 = -95.164

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 55 43.74584	92 55 10.46970	382666.632	202048.385	116637.023	61584.471	353.240	2	1999	17648
NAD83 (1986)	46 55 43.73934	92 55 10.47253	382666.432	202047.728	116636.962	61584.271		2	1986	17289
NAD27	46 55 43.94339	92 55 09.75091						2	1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/C_271-RN0648-3SE-10JUL2017.jpg	SE	Jul 10, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/C_271-RN0648-2-10JUL2017.jpg		Jul 10, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/C_271-RN0648-1-10JUL2017.jpg		Jul 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27892.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27892.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27893

C 272

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: C 272

NGS Name: C 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0723](#) [Get Map](#)
NGS Quad / Sta Num : 46092414/
USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	16	52 N	19 W	465900.11	924434.73	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=NO Vert=YES	NO			STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** C 272 1948

6.5 MILES SOUTHWEST OF MEADOWLANDS, 6.0 MILES SOUTH ON COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 133 AND COUNTY ROAD 5, 51.0 FEET WEST OF COUNTY ROAD 5, 32.0 FEET NORTH OF AN ENTRANCE TO THE OLD COMMUNITY HALL, 79.0 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A HALL, 25.0 FEET NORTHWEST OF THE NORTH END OF A METAL CULVERT, 2.0 FEET NORTH OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1279.423	0.016	389.969	0.005	2/0	1991	00000025
NGVD29	1278.829	0.016	389.788	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.932 12B = -95.915 09 = -95.830 03 = -95.676

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27893.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27893.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: C 273

NGS Name: C 273

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0521](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	20	53 N	20 W	470409.00	925409.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=? Vert=YES	NO	CO RD		NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	NGS

Description: (1948)

Stamping: C 273 1948

8.0 MILES WEST ON TRUNK HIGHWAY 133 FROM THE HIGH SCHOOL AT MEADOWLANDS, 0.35 MILE WEST OF A Y-JUNCTION OF COUNTY ROAD 133 AND A GRAVEL ROAD SOUTHWEST, IN THE EAST END OF THE SOUTH HEADWALL OF A COUNTY ROAD 133 BOX CULVERT AT A SMALL CREEK, 20.0 FEET SOUTH OF COUNTY ROAD 133.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1262. 009	0. 016	384. 661	0. 005	2/0	1991	00000025
NGVD29	1261. 349	0. 016	384. 460	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.657 12B = -96.640 09 = -96.607 03 = -96.414

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27894.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27894.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27895

C 275

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: C 275

NGS Name: C 275

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0479](#) [Get Map](#)
 NGS Quad / Sta Num : 47092331/
 USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	16	54 N	19 W	471002.59	924608.88	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2021	GOOD	Horz=YES Vert=YES	YES		PROJECTS 2 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2007) **Stamping:** C 275 1948

2.0 MILES EAST ON COUNTY ROAD 52 FROM THE JUNCTION OF COUNTY ROAD 52 AND COUNTY ROAD 5 IN TOIVOLA, AT THE JUNCTION OF COUNTY ROAD 52 AND COUNTY ROAD 230 (OVERTON ROAD), 35.0 FEET SOUTH OF COUNTY ROAD 52, 61.0 FEET EAST OF COUNTY ROAD 230, 30.5 FEET EAST-SOUTHEAST OF A GUYED POWER POLE, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1285.883	0.016	391.938	0.005	2/0	1991	00000025
NGVD29	1285.237	0.016	391.741	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.526 12B = -97.523 09 = -97.451 03 = -97.260

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 10 02.58899	92 46 08.87920	420611.729	288878.032	128202.711	88050.200	362.220	3	2021	GPSBM

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/C_275-SJ0479-3S-27JUL2021.jpg	S	Jul 27, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/C_275-SJ0479-2-27JUL2021.jpg		Jul 27, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/C_275-SJ0479-1-27JUL2021.jpg		Jul 27, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27895.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27895.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27898

C 280

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: C 280

NGS Name: C 280

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1326](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	21	55 N	21 W	471333.00	930116.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1968	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 5 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: C 280 1948

3.25 MILES SOUTH ON TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND A RAILROAD AT SILICA, NEAR ISLAND LAKE, 0.25 MILE SOUTH OF A ROAD WEST, 30.0 FEET SOUTHWEST OF TRUNK HIGHWAY 73, ALONG A CURVE, 98.0 FEET SOUTH OF A PRIVATE ROAD, 246.0 FEET SOUTH OF A SMALL LOG HOUSE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1348.560	0.016	411.042	0.005	2/0	1991	00000025
NGVD29	1347.796	0.007	410.809	0.002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -97.152 12B = -97.168 09 = -97.077 03 = -96.972

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27898.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27898.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27901

C 291

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: C 291

NGS Name: C 291

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0674](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	35	51 N	20 W	465130.00	924956.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1974	GOOD	Horz=NO Vert=NO	NO	RR		SEE DESCRIPTION

Monument Type

CONCRETE FOOTING - SMALL

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1974)

Stamping: C 291 1948

0.9 MILE SOUTHEAST ON A RAILROAD FROM GOWAN, 3.65 MILES SOUTHEAST ON A RAILROAD FROM A ROAD CROSSING IN PAUPORES, 20.0 FEET NORTHEAST OF THE NORTHEAST RAIL OF THE RAILROAD TRACKS, 100.0 FEET SOUTHEAST OF THE SOUTH BANK OF THE ST. LOUIS RIVER, 175.0 FEET NORTHWEST OF A PRIVATE ROAD CROSSING, 0.2 MILE NORTHEAST OF STATION 6907 S, IN THE EAST END OF THE NORTH HEADWALL OF A RAILROAD BOX CULVERT.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1233.728	0.016	376.041	0.005	2/0	1991	00000025
NGVD29	1233.101	0.016	375.850	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.741 12B = -94.728 09 = -94.642 03 = -94.527

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27901.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27901.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27906

C 296

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: C 296

NGS Name: C 296

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	3	55 N	20 W	471658.04	925213.29	2	

NGS ACRN: [SJ0558](#)

[Get Map](#)

NGS Quad / Sta Num : 47092342/

USGS Quad: LITTLE SWAN

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=NO Vert=YES	NO		PROJECTS 5 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: C 296 1948

3.85 MILES SOUTHWEST OF LITTLE SWAN, 0.85 MILE WEST OF A NORTH-SOUTH GRAVEL ROAD (COUNTY ROAD 956), 35.0 FEET SOUTH OF COUNTY ROAD 442, AT THE TOP OF A LOW GENTLE GRADE, AT A LOW SANDY CUT, 45.0 FEET EAST OF A DRIVE SOUTH, 2.0 FEET WEST OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	Orthometric (Feet)		Orthometric (Meters)		Survey <u>Order/(Class)</u>	Project Info	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1303.761	0.016	397.387	0.005	2/0	1991	00000025
NGVD29	1302.996	0.016	397.154	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.772 12B = -97.769 09 = -97.693 03 = -97.595

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27906.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27906.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27920

CANYON MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CANYON MNDT

NGS Name: CANYON

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6509](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	34	53 N	17 W	470155.76	922817.18	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2017	DESTROYED	Horz=NO Vert=NO	NO		RECESSED 3 IN.	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)

Disk Type

HORIZONTAL CONTROL DISK

Mon. Agency

MNDT

Description: (1999)

Stamping: CANYON 1992

0.55 MILE SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 29.45, 80.2 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 77.3 FEET SOUTH-SOUTHEAST OF A RIGHT-OF-WAY POST, 4.2 FEET NORTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1369.193	0.016	417.331	0.005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -96.102 12B = -96.109 09 = -95.964 03 = -95.777

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>				
NAD83 (2011)	47 01 55.75975	92 28 17.18088	494653.249	239390.287	150770.612	72966.305	388.032		2012	GPS2800
NAD83 (2007)	47 01 55.75987	92 28 17.18177	494653.187	239390.299	150770.593	72966.309	388.060		2007	GPS2300
NAD83 (1996)	47 01 55.75959	92 28 17.18157	494653.201	239390.271	150770.597	72966.301	388.089	C	2003	GPS1848
NAD83 (1986)	47 01 55.75602	92 28 17.18211	494653.164	239389.908	150770.586	72966.190		C	1993	H1993

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27920.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27920.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CANYON MNDT RESET

NGS Name: CANYON RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1860](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	34	53 N	17 W	470155.76	922817.18	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=NO Vert=YES	YES		RECESSED 5 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017)

Stamping: CANYON 1992 2017

0.55 MILE SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 29.45, 80.2 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 4.2 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1368.974 0.016	417.264 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.102 12B = -96.109 09 = -95.964 03 = -95.777

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CANYON_RESET-DR1860-3W-19SEP2017.jpg	W	Sep 19, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CANYON_RESET-DR1860-2-19SEP2017.jpg		Sep 19, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CANYON_RESET-DR1860-1-19SEP2017.jpg		Sep 19, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108254.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27925

CARTY MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CARTY MNDT

NGS Name: CARTY

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0676](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/1065
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	35	51 N	20 W	465108.65	924944.26	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

TRAVERSE STATION DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: CARTY 1974

6.8 MILES SOUTHEAST OF FLOODWOOD, 6.25 MILES SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73, AT TRUNK HIGHWAY 2 MILEPOINT 227.15, 300.0 FEET WEST OF TRUNK HIGHWAY 2, 32.0 FEET NORTH OF COUNTY ROAD 841, 64.6 FEET SOUTHWEST OF A POWER POLE NUMBER 11454, 60.37 FEET WEST OF CARTY MNDT RM 1, 60.03 FEET NORTH OF STATION 6907 R, 8.2 FEET SOUTHWEST OF A POWER POLE, 7.2 FEET NORTHWEST OF A POWER POLE, 61.0 FEET NORTH OF A WITNESS POST, 1.3 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1297. 219	0. 016	395. 393	0. 005	2/1	2021	00000963
NGVD29	1296. 471	0. 016	395. 165	0. 005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.682 12B = -94.672 09 = -94.583 03 = -94.468

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 51 08. 65090	92 49 44. 25760	405173. 671	174053. 885	123497. 182	53051. 730	366. 530		2012	GPS2800
NAD83 (2007)	46 51 08. 65100	92 49 44. 25846	405173. 612	174053. 895	123497. 164	53051. 733	366. 557		2007	GPS2300
NAD83 (1996)	46 51 08. 65058	92 49 44. 25807	405173. 638	174053. 853	123497. 172	53051. 720	366. 595	C	2004	GPS1957
NAD83 (1986)	46 51 08. 64744	92 49 44. 25889	405173. 580	174053. 535	123497. 154	53051. 624		2	1986	17289
NAD27	46 51 08. 84667	92 49 43. 54298						2	1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CARTY-RN0676-3N-24JUL2017.jpg	N	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CARTY-RN0676-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CARTY-RN0676-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27925.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27925.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CARTY MNDT RM 1

NGS Name: CARTY RM 1

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	35	51 N	20 W	465108.62	924943.39	2	

NGS ACRN:	RN0675	Get Map
NGS Quad / Sta Num :	46092442/	
USGS Quad:	GOWAN	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 6 IN.	MARKER W/BAR MAGNET

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

REFERENCE MARK DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: CARTY NO 1 1974

1.3 MILES SOUTHEAST OF GOWAN, 1.3 MILES SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86, 6.25 MILES SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 AT FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 227.15, 23.0 FEET NORTH OF A TOWNSHIP ROAD, 60.3 FEET EAST OF STATION CARTY MNDT, 64.6 FEET EAST OF A WITNESS POST, 89.4 FEET NORTHEAST OF STATION 6907 R, 89.8 FEET NORTHEAST OF A WITNESS POST, 62.8 FEET SOUTHEAST OF A POWER POLE NUMBER 11454.

Station Notes

THE GEODETIC UNIT COULD NOT FIND THE MARK ON 8-29-01.

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1298.449	0.016	395.768	0.005	2/0	1991	00000025
NGVD29	1297.825	0.016	395.578	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.685 12B = -94.672 09 = -94.583 03 = -94.472

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CARTY_RM_1-RN0675-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27926.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27926.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CATFISH MNDT

NGS Name: CATFISH

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 46092444/

USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	7	51 N	20 W	465527.20	925456.80		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1993	1998	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE)

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (1993)

Stamping: CATFISH 1993

IN FLOODWOOD, 0.05 MILE NORTHWEST ON TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 220.75, 43.0 FEET SOUTHWEST OF TRUNK HIGHWAY 2, 278.0 FEET NORTHWEST OF TRUNK HIGHWAY 73 NORTH, 22.0 FEET SOUTHEAST OF AN ENTRANCE, 50.7 FEET EAST OF THE NORTH LEG OF THE FLOODWOOD CAMPGROUND SIGN, 111.7 FEET WEST OF A TRUNK HIGHWAY 73 SIGN, 6.3 FEET NORTHWEST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.331 12B = -95.311 09 = -95.236 03 = -95.124

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27927.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27927.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CHAL MNDT

NGS Name: CHAL

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1037](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	11	51 N	17 W	465508.59	922812.87	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	NOT FOUND	Horz=NO Vert=NO	NO		FLUSH	STEEL ROD IMBED IN MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

HORIZONTAL CONTROL DISK

Mon. Agency

MNDT

Description: (1978)

Stamping: CHAL 1978

3.0 MILES SOUTH-SOUTHWEST OF INDEPENDENCE, AT TRUNK HIGHWAY 33 MILEPOINT 16.6, 2.8 MILES SOUTH ON TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 53, 25.0 FEET EAST OF TRUNK HIGHWAY 33, 38.0 FEET SOUTH OF AN ENTRANCE, 88.0 FEET SOUTHWEST OF THE CORNER OF A POWER POLE, 13.7 FEET SOUTH-SOUTHWEST OF THE WEST END OF A METAL CULVERT, 9.5 FEET SOUTH-SOUTHEAST OF A MAILBOX POST, 95.65 FEET NORTHEAST OF CHAL RM 1, 148.86 FEET SOUTHEAST OF CHAL RM 2.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1352. 287	0. 016	412. 178	0. 005	2/1	1991	00000025
NGVD29	1352. 028	0. 016	412. 099	0. 005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -95.026 12B = -95.029 09 = -94.905 03 = -94.711

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 55 08. 59144	92 28 12. 86673	494941. 463	198135. 812	150858. 460	60391. 916	383. 279	2	1999	17648
NAD83 (1986)	46 55 08. 58563	92 28 12. 86799	494941. 375	198135. 224	150858. 433	60391. 737		2	1986	17289
NAD27	46 55 08. 79909	92 28 12. 17867						2	1980	16254

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27933.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27933.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CHAL RM 1

NGS Name: CHAL RM 1

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	11	51 N	17 W	465508.04	922813.99	2	

NGS ACRN: [RN1036](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2009	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

REFERENCE MARK DISK

Mon. Agency

MNDT

Description: (1978)

Stamping: CHAL NO. 1 1978

3.0 MILES SOUTH-SOUTHWEST OF INDEPENDENCE, 2.8 MILES SOUTH ON TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 53, 0.3 MILE SOUTH OF COUNTY ROAD 8, AT TRUNK HIGHWAY 33 MILEPOINT 16.55, 53.8 FEET WEST OF TRUNK HIGHWAY 33, 95.6 FEET SOUTHWEST OF STATION CHAL MNDT, 170.2 FEET SOUTH OF CHAL RM 2, 3.0 FEET NORTH OF A WITNESS POST.

Station Notes

5-11-2009 THE POSITION IS IN A DITCH BOTTOM. GRADED OUT.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1355.411	0.016	413.130	0.005	2/1	1991	00000025
NGVD29	1355.151	0.016	413.051	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -95.033 12B = -95.036 09 = -94.911 03 = -94.714

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27934.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27934.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27935

CHAL RM 2

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CHAL RM 2

NGS Name: CHAL RM 2

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	11	51 N	17 W	465509.71	922814.25	2	

NGS ACRN:	RN1038	Get Map
NGS Quad / Sta Num :	46092144/	
USGS Quad:	INDEPENDENCE	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2009	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

REFERENCE MARK DISK

Mon. Agency

MNDT

Description: (1978)

Stamping: CHAL NO. 2 1978

3.0 MILES SOUTH-SOUTHWEST OF INDEPENDENCE, 2.8 MILES SOUTH ON TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 53, 0.3 MILE SOUTH OF COUNTY ROAD 8, AT TRUNK HIGHWAY 33 MILEPOINT 16.55, 70.3 FEET WEST OF TRUNK HIGHWAY 33, 33.0 FEET SOUTHEAST OF A POWER POLE, 32.0 FEET EAST-NORTHEAST OF A STEEL SIGN POST, 148.9 FEET NORTHWEST OF STATION CHAL MNDT, 170.2 FEET NORTH OF CHAL RM 1, 2.7 FEET EAST OF A WITNESS POST.

Station Notes

5-11-2009 THE POSITION IS IN A DITCH. GRADED OUT.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1355.598	0.016	413.187	0.005	2/1	1991	00000025
NGVD29	1355.338	0.016	413.108	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -95.036 12B = -95.039 09 = -94.915 03 = -94.718

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27935.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CHALBERG MNDT

NGS Name: CHALBERG

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6512](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	52 N	17 W	465703.81	922752.01	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2020	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (1999) **Stamping:** CHALBERG 1992

0.5 MILE SOUTH OF INDEPENDENCE, 0.4 MILE SOUTHWEST ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 53 IN INDEPENDENCE, AT TRUNK HIGHWAY 33 MILEPOINT 18.90, 40.8 FEET NORTHWEST OF SOUTHBOUND TRUNK HIGHWAY 33, 3.0 FEET SOUTHEAST OF A WITNESS POST.

Station Pair: BULLEN - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1351.520 0.016	411.944 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.321 12B = -95.318 09 = -95.190 03 = -94.997

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 57 03.81297	92 27 52.00509	496391.866	209809.682	151300.543	63950.119	382.905		2012	GPS2800
NAD83 (2007)	46 57 03.81307	92 27 52.00598	496391.804	209809.692	151300.524	63950.122	382.932		2007	GPS2300
NAD83 (1996)	46 57 03.81275	92 27 52.00584	496391.814	209809.660	151300.527	63950.112	382.964	C	2003	GPS1848
NAD83 (1986)	46 57 03.80800	92 27 52.00424	496391.924	209809.177	151300.561	63949.965		C	1993	H1993

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CHALBERG-DF6512-3NW-06JUL2020.jpg	NW	Jul 6, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CHALBERG-DF6512-2-06JUL2020.jpg		Jul 6, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CHALBERG-DF6512-1-06JUL2020.jpg		Jul 6, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27936.pdf



Geodetic Data Sheet (Brief)
GSID Station # 39443

CHRISTIANSON MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CHRISTIANSON MNDT

NGS Name: CHRISTIANSON

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE8056](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	50 N	18 W	465104.43	923519.51	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	SURVEY DISK	MNDT

Description: (2001)

Stamping: CHRISTIANSON 1999

1.25 MILES SOUTHEAST OF BROOKSTON, 6.25 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOINT 238.55, 106.0 FEET SOUTH OF TRUNK HIGHWAY 2, 4.4 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1286.156 0.016	392.021 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.600 12B = -94.600 09 = -94.498 03 = -94.600

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 51 04.43002	92 35 19.50876	465279.450	173427.765	141817.460	52860.888	363.186		2012	GPS2800
NAD83 (2007)	46 51 04.43016	92 35 19.50963	465279.390	173427.779	141817.442	52860.893	363.213		2007	GPS2300
NAD83 (1996)	46 51 04.42992	92 35 19.50945	465279.402	173427.755	141817.445	52860.885	363.264	C	2004	GPS1957

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CHRISTIANSON-DE8056-3S-25JUL2017.jpg	S	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CHRISTIANSON-DE8056-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CHRISTIANSON-DE8056-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_39443.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_39443.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CI ROW MON

NGS Name: CI ROW MON

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1057](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	6	50 N	17 W	465049.20	923230.00	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1979	2017	GOOD	Horz=NO Vert=NO	YES		RECESSED 3 IN.	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	METAL ROD	MNDT

Description: (1979)

Stamping:

3.3 MILES EAST-SOUTHEAST FROM BROOKSTON, 3.05 MILES EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31 (THE JUNCTION IS 1.0 MILE SOUTH OF BROOKSTON), AT TRUNK HIGHWAY 2 MILEPOINT 240.9, 99.2 FEET NORTH OF TRUNK HIGHWAY 2, 36.1 FEET EAST OF DRIVEWAY NUMBER 8175, STATION CI ROW MON IS THE HIGH POINT ON THE WEST END OF THE FLAT BAR ON A CAST IRON RIGHT-OF-WAY MONUMENT THAT IS 63.8 FEET NORTHWEST OF STATION EMIL MNDT.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1316. 621 0. 016	401. 307 0. 005	2/2	1991 00000025

Geoid Separations(ft): GEOID18 = -94.491 12B = -94.488 09 = -94.393 03 = -94.219

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CI_ROW_MON-RN1057-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CI_ROW_MON-RN1057-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CI_ROW_MON-RN1057-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_51491.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_51491.pdf



Geodetic Data Sheet (Brief)
GSID Station # 51492

CL 100 STA 2642+57.5

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CL 100 STA 2642+57.5

NGS Name: CL 100 STA 2642+57.5

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1059](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	1	50 N	18 W	465054.00	923418.00	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1979	2017	GOOD	Horz=NO Vert=NO	YES		PROJECTS 10 IN.	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	PIPE CAP	MNDT

Description: (1979) **Stamping:** CL 100 STA 264.2+57.5 SP 8-48-SEC 1

2.0 MILES SOUTHEAST OF BROOKSTON, 1.55 MILES EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31(THE JUNCTION IS 1.0 MILE SOUTH OF BROOKSTON), AT TRUNK HIGHWAY 2 MILEPOINT 237.40, 100.0 FEET SOUTH OF TRUNK HIGHWAY 2, 49.4 FEET EAST OF STATION 6907 AF, 1.6 FEET EAST OF A STEEL RIGHT-OF-WAY POST.

Station Notes

THE MARK IS AN ALUMINUM RIGHT-OF-WAY MONUMENT, 1.5 INCH DIAMETER ALUMINUM CAP SET IN THE TOP OF A 1.5 INCH DIAMETER PIPE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1268.449	0.016	386.624	0.005	2/2	1991	00000025

Geoid Separations(ft): GEOID18 = -94.554 12B = -94.554 09 = -94.452 03 = -94.285

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CL_100_STA_2642+57.5-RN1059-3S-25JUL2017.jpg	S	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CL_100_STA_2642+57.5-RN1059-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CL_100_STA_2642+57.5-RN1059-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_51492.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_51492.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CLIP JOINT MN137

NGS Name: CLIP JOINT

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF9099](#) [Get Map](#)
NGS Quad / Sta Num : 47092322/
USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	10	52 N	18 W	470013.90	923708.28		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2020	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	SURVEY DISK	MN-137

Description: (2019) **Stamping:** CLIP JOINT 2001

0.40 MILE NORTH OF PROSIT, 0.40 MILE NORTH ALONG COUNTY ROAD 47 FROM THE JUNCTION OF COUNTY ROAD 47 AND COUNTY ROAD 734 IN PROSIT, 64.0 FEET SOUTHEAST OF COUNTY ROAD 47, 49.0 FEET NORTHEAST OF COUNTY ROAD 719 (CHASE ROAD), 2.0 FEET WEST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.069 12B = -96.063 09 = -95.945 03 = -95.777

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 00 13.90391	92 37 08.27929	457838.879	229114.851	139549.569	69834.346	380.480		2012	GPS2800
NAD83 (2007)	47 00 13.90402	92 37 08.28018	457838.817	229114.863	139549.551	69834.350	380.508		2007	GPS2300
NAD83 (1996)	47 00 13.90379	92 37 08.27993	457838.834	229114.839	139549.556	69834.343	380.522	C	2003	GPS1931

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CLIP_JOINT-DF9099-3NE-07JUL2020.jpg	NE	Jul 7, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CLIP_JOINT-DF9099-2-07JUL2020.jpg		Jul 7, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CLIP_JOINT-DF9099-1-07JUL2020.jpg		Jul 7, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41622.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41622.pdf



Geodetic Data Sheet (Brief)
GSID Station # 39444

COLLUM MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: COLLUM MNDT

NGS Name: COLLUM

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE8057](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	50 N	18 W	465053.55	923409.17		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: COLLUM 1999

5.0 MILES SOUTHEAST OF BROOKSTON, 5.25 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOINT 239.55, 156.0 FEET SOUTH OF TRUNK HIGHWAY 2, 2.3 FEET WEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.550 12B = -94.547 09 = -94.445 03 = -94.550

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 50 53.55424	92 34 09.16981	470166.988	172317.808	143307.185	52522.573	360.907		2012		GPS2800	
NAD83 (2007)	46 50 53.55438	92 34 09.17068	470166.927	172317.822	143307.166	52522.577	360.934		2007		GPS2300	
NAD83 (1996)	46 50 53.55412	92 34 09.17057	470166.935	172317.795	143307.168	52522.569	360.987	C	2004		GPS1957	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/COLLUM-DE8057-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_39444.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_39444.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: COLLUM MNDT RESET

NGS Name: COLLUM RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9897](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	50 N	18 W	465053.55	923409.17	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=NO Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017)

Stamping: COLLUM 1999 2017

10.7 MILES NORTHWEST OF CLOQUET, 5.25 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOINT 239.55, 156.0 FEET SOUTH OF TRUNK HIGHWAY 2, 2.3 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1278.406	0.016	389.659	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -94.550 12B = -94.547 09 = -94.445 03 = -94.278

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/COLLUM_RESET-DQ9897-3S-25JUL2017.jpg	S	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/COLLUM_RESET-DQ9897-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/COLLUM_RESET-DQ9897-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107914.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107914.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107928

CORSER

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CORSER

NGS Name: CORSER

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9895](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	6	50 N	17 W	465047.60	923234.25	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 22 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** CORSER 2017

10.0 MILES NORTH-NORTHWEST OF CLOQUET, 4.0 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOINT 240.8, 66.4 FEET SOUTH OF TRUNK HIGHWAY 2, 1.5 FEET NORTH OF A WITNESS POST.

Station Pair: CRAW MNDT - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1310.414	0.016	399.415	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -94.491 12B = -94.485 09 = -94.390 03 = -94.219

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CORSER-DQ9895-3S-09AUG2017.jpg	S	Aug 9, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CORSER-DQ9895-2-09AUG2017.jpg		Aug 9, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CORSER-DQ9895-1-09AUG2017.jpg		Aug 9, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107928.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107928.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27958

COTTON

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: COTTON

NGS Name: COTTON

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ2162](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/1004
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	54 N	17 W	471008.24	922834.79		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1963	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

Description: (1952) **Stamping:** COTTON 1952

IN COTTON, IN THE SOUTHEAST ANGLE OF THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52, 100.0 FEET SOUTH OF THE APPROXIMATE CENTERLINE OF COUNTY ROAD 52, 99.0 FEET EAST OF THE APPROXIMATE CENTERLINE OF TRUNK HIGHWAY 53, 7.0 FEET NORTHWEST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.382 12B = -97.378 09 = -97.277 03 = -97.080

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	47 10 08. 24398	92 28 34. 78740	493450. 306	289290. 532	150403. 954	88175. 931	375. 386	2	1999	17648
NAD83 (1986)	47 10 08. 24277	92 28 34. 79017	493450. 114	289290. 409	150403. 896	88175. 893		2	1986	17289
NAD27	47 10 08. 47400	92 28 34. 11000						2	1956	11100

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27958.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27958.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27959

COTTON 2

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: COTTON 2

NGS Name: COTTON 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ2163](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/1004
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	54 N	17 W	471007.56	922836.80	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2017	GOOD	Horz=NO Vert=NO	YES		FLUSH	STEEL ROD IMBED IN MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

TRIANGULATION STATION DISK

Mon. Agency

NGS

Description: (1992)

Stamping: COTTON 2 1963

IN COTTON, IN THE SOUTHWEST QUADRANT OF THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52, 47.0 FEET WEST OF OLD TRUNK HIGHWAY 53, 91.2 FEET NORTH OF STATION G 165 RESET, 72.42 FEET EAST OF COTTON 2 RM 4, 55.8 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF THE COTTON CONVENIENCE STORE, 32.0 FEET SOUTH OF A DRIVEWAY, 7.6 FEET EAST OF THE SOUTHEAST CORNER OF A WOOD FENCE AROUND LIQUID GAS TANKS.

Station Notes

IN 1992, COTTON 2 RM 4 COULD NOT BE FOUND BY THE GEODETIC UNIT. THE MARK IS UNDER A PROPANE TANK CAN.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1331.149	0.016	405.735	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -97.382 12B = -97.378 09 = -97.277 03 = -97.080

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>				
NAD83 (2011)	47 10 07.55544	92 28 36.79929	493311.263	289220.813	150361.574	88154.680	375.984		2012	GPS2800
NAD83 (2007)	47 10 07.55556	92 28 36.80020	493311.200	289220.825	150361.555	88154.684	376.011		2007	GPS2300
NAD83 (1996)	47 10 07.55537	92 28 36.79994	493311.218	289220.806	150361.560	88154.678	376.022	C	2003	GPS1848
NAD83 (1986)	47 10 07.55427	92 28 36.79999	493311.214	289220.695	150361.559	88154.644		3	1986	17289
NAD27	47 10 07.78600	92 28 36.12000						3	1986	10744

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/COTTON_2-SJ2163-3SW-18SEP2017.jpg	SW	Sep 18, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27959.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27959.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: COTTON 2 RM 4

NGS Name: COTTON 2 RM 4

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ2402](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	54 N	17 W	471007.57	922837.85		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2017	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

Description: **Stamping:** COTTON 2 NO 4 1963

710.0 FEET SOUTHEAST OF COTTON, 0.04 MILE SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, THEN 6.35 MILE EAST FROM THE CENTERLINE OF TRUNK HIGHWAY 53.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.378 12B = -97.375 09 = -97.273 03 = -97.077

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78323.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78323.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: COTTON AZ MK

NGS Name: COTTON AZ MK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ2400](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	54 N	17 W	470953.00	922830.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1963	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	AZIMUTH MARK DISK	NGS

Description: (1952)

Stamping: COTTON 1952

34.0 FEET WEST OF THE APPROXIMATE CENTERLINE OF TRUNK HIGHWAY 53, 2.0 FEET NORTH OF A WITNESS POST, TO REACH FROM STATION COTTON GO SOUTHERLY ON TRUNK HIGHWAY 53 FOR 0.3 MILE TO THE STATION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.342 12B = -97.339 09 = -97.237 03 = -97.040

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78324.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78324.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: COTTON LOOKOUT TOWER

NGS Name: COTTON LOOKOUT TOWER

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ2194](#) [Get Map](#)
NGS Quad / Sta Num : 47092321/1025
USGS Quad: KELSEY

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	16	54 N	17 W	471002.66	923015.36		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	LOOKOUT TOWER	NGS

Description: (2019)

Stamping:

2.0 MILES WEST OF COTTON, 1.25 MILES WEST OF TRUNK HIGHWAY 53, 0.1 MILE SOUTH OF COUNTY ROAD 52.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.428 12B = -97.428 09 = -97.323 03 = -97.129

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (1996)	47 10 02.65527	92 30 15.35530	486500.795	288727.832	148285.739	88004.419				4	1999	17648
NAD83 (1986)	47 10 02.65470	92 30 15.35793	486500.613	288727.774	148285.684	88004.402				4	1986	17289
NAD27	47 10 02.88700	92 30 14.67500								4	1956	11100

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27960.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27960.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: COTTON RM 1

NGS Name: COTTON RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ2401](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	54 N	17 W	471007.56	922835.41		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1963	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	REFERENCE MARK DISK	NGS

Description: (1952)

Stamping: COTTON NO 1 1952

49.0 FEET EAST OF THE APPROXIMATE CENTERLINE OF COUNTY ROAD 52, SOUTHWEST OF STATION COTTON.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.382 12B = -97.378 09 = -97.277 03 = -97.080

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78325.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78325.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27965

CRAW MNDT

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CRAW MNDT

NGS Name: CRAW

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0775](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/1052
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	6	50 N	17 W	465052.25	923305.27	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2020	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (2019) **Stamping:** CRAW 1974

3.0 MILES SOUTHEAST OF BROOKSTON, 2.55 MILES EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31 (THE JUNCTION IS 1.0 MILE SOUTH OF BROOKSTON), AT TRUNK HIGHWAY 2 MILEPOINT 240.40, 91.0 FEET NORTH OF TRUNK HIGHWAY 2, 210.0 FEET WEST OF A DRIVEWAY NUMBER 8257, 105.75 FEET SOUTHEAST OF CRAW MNDT RM 2, 71.55 FEET SOUTHWEST OF CRAW MNDT RM 1, 20.8 FEET SOUTH OF AN EAST-WEST FENCE LINE, 7.2 FEET NORTH OF A WITNESS POST.

Station Pair: CORSER - ST. LOUIS, MN

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1319.164	0.016	402.082	0.005	2/1	2021	00000963
NGVD29	1318.682	0.016	401.935	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.518 12B = -94.514 09 = -94.416 03 = -94.518

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 50 52.25092	92 33 05.26448	474609.085	172179.505	144661.138	52480.418	373.263		2012	GPS2800
NAD83 (2007)	46 50 52.25105	92 33 05.26536	474609.024	172179.519	144661.120	52480.422	373.290		2007	GPS2300
NAD83 (1996)	46 50 52.25058	92 33 05.26522	474609.033	172179.471	144661.123	52480.408	373.327	C	2004	GPS1957
NAD83 (1986)	46 50 52.24830	92 33 05.26710	474608.902	172179.240	144661.083	52480.337		2	1986	17289
NAD27	46 50 52.45389	92 33 04.56666						2	1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CRAW-RN0775-3N-06JUL2020.jpg	N	Jul 6, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CRAW-RN0775-2-06JUL2020.jpg		Jul 6, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CRAW-RN0775-1-06JUL2020.jpg		Jul 6, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27965.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27965.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27966

CRAW MNDT RM 1

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CRAW MNDT RM 1

NGS Name: CRAW RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0777](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	6	50 N	17 W	465052.57	923304.35	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 16 IN.	NO MAG MATERIAL

Monument Type

ROCK (1 TO 3 METERS)

Disk Type

REFERENCE MARK DISK

Mon. Agency

MNDT

Description: (1974)

Stamping: CRAW NO. 1 1974

3.0 MILES SOUTHEAST OF BROOKSTON, 2.55 MILES EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31 (THE JUNCTION IS 1.0 MILE SOUTH OF BROOKSTON), AT TRUNK HIGHWAY 2 MILEPOINT 240.40, 134.0 FEET NORTH OF TRUNK HIGHWAY 2, 71.55 FEET NORTHEAST OF STATION CRAW MNDT, 141.9 FEET EAST-SOUTHEAST OF CRAW MNDT RM 2, 22.2 FEET NORTH OF AN EAST-WEST FENCE LINE, 14.2 FEET WEST OF A NORTH-SOUTH FENCE LINE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1321.005	0.016	402.643	0.005	2/1	2021	00000963
NGVD29	1320.785	0.016	402.576	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.521 12B = -94.514 09 = -94.416 03 = -94.245

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CRAW_RM_1-RN0777-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CRAW_RM_1-RN0777-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CRAW_RM_1-RN0777-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27966.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27966.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CRAW MNDT RM 2

NGS Name: CRAW RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0776](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	6	50 N	17 W	465053.03	923306.27	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=NO	YES		PROJECTS 10 IN.	NO MAG MATERIAL

Monument Type

ROCK (1 TO 3 METERS)

Disk Type

REFERENCE MARK DISK

Mon. Agency

MNDT

Description: (1974)

Stamping: CRAW NO. 2 1974

3.0 MILES SOUTHEAST OF BROOKSTON, 2.55 MILES EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31 (THE JUNCTION IS 1.0 MILE SOUTH OF BROOKSTON), AT TRUNK HIGHWAY 2 MILEPOINT 240.40, 156.5 FEET NORTH OF TRUNK HIGHWAY 2, 105.75 FEET NORTHWEST OF STATION CRAW MNDT, 141.9 FEET WEST-NORTHWEST OF CRAW MNDT RM 1, 44.7 FEET NORTH OF A FENCE LINE.

Station Notes

NO WITNESS POST SET ON PRIVATE PROPERTY. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1319.335	0.016	402.134	0.005	2/1	2021	00000963
NGVD29	1318.895	0.016	402.000	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.521 12B = -94.518 09 = -94.419 03 = -94.248

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<u>Location:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CRAW_RM_2-RN0776-3N-25JUL2017.jpg	N	Jul 25, 2017
<u>Monument:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CRAW_RM_2-RN0776-2-25JUL2017.jpg		Jul 25, 2017
<u>Disk:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CRAW_RM_2-RN0776-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27967.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27967.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27968

CUL MNDT

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CUL MNDT

NGS Name: CUL

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0760](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/1056
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	32	51 N	18 W	465119.37	923920.00	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2020	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (2001) **Stamping:** CUL 1974

2.6 MILES WEST-SOUTHWEST OF BROOKSTON, 2.5 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31, AT TRUNK HIGHWAY 2 MILEPOINT 235.4, 89.5 FEET NORTH OF TRUNK HIGHWAY 2, 12.6 FEET SOUTHWEST OF A POWER POLE, 4.7 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1365.276	0.016	416.137	0.005	2/1	2021	00000963
NGVD29	1364.653	0.016	415.947	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.668 12B = -94.665 09 = -94.573 03 = -94.432

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 51 19.36815	92 39 19.99560	448567.356	174977.972	136723.604	53333.393	387.275		2012	GPS2800
NAD83 (2007)	46 51 19.36828	92 39 19.99646	448567.297	174977.986	136723.586	53333.397	387.303		2007	GPS2300
NAD83 (1996)	46 51 19.36811	92 39 19.99636	448567.304	174977.968	136723.588	53333.391	387.333	C	2004	GPS1957
NAD83 (1986)	46 51 19.36233	92 39 19.99807	448567.183	174977.383	136723.551	53333.213		2	1986	17289
NAD27	46 51 19.56002	92 39 19.29746						2	1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CUL-RN0760-3N-06JUL2020.jpg	N	Jul 6, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CUL-RN0760-2-06JUL2020.jpg		Jul 6, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CUL-RN0760-1-06JUL2020.jpg		Jul 6, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27968.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27968.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27969

CULVER

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CULVER

NGS Name: CULVER

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1654](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/1010
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	13	51 N	18 W	465440.18	923429.70		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1992	NOT FOUND	Horz=? Vert=YES	NO		PROJECTS 6 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

TRIANGULATION STATION DISK

Mon. Agency

NGS

Description: (1952)

Stamping: CULVER 1952

4.0 MILES SOUTH OF ALBORN, 5.0 MILES WEST ON COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 AND TRUNK HIGHWAY 33, THEN 1.1 MILES SOUTH ON COUNTY ROAD 31, THEN 0.15 MILE EAST AND NORTH ON A TRACK ROAD TO THE TOP OF A HILL, 150.0 FEET SOUTHWEST OF AN INDIAN CEMETERY, 59.49 FEET NORTHWEST OF CULVER RM 1, 73.75 FEET NORTHEAST OF CULVER RM 2.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.147 12B = -95.144 09 = -95.033 03 = -94.862

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 54 40.18029	92 34 29.69603	468776.731	195281.440	142883.433	59521.902	389.057	3	1999	17648		
NAD83 (1986)	46 54 40.17445	92 34 29.69709	468776.656	195280.849	142883.411	59521.722		3	1986	17289		
NAD27	46 54 40.38700	92 34 29.01100						3	1956	11100		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_27969.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27969.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CULVER AZ MK

NGS Name: CULVER AZ MK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ7864](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	13	51 N	18 W	465419.00	923432.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1992	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

BLANK

Disk Type

AZIMUTH MARK DISK

Mon. Agency

NGS

Description:

Stamping: CULVER 1952

1.65 MILES SOUTHWEST OF CULVER, 0.99 MILE WEST ALONG TRUNK HIGHWAY 8 FROM THE JUNCTION OF TRUNK HIGHWAY 8 AND COUNTY ROAD 7, THEN 1.42 MILES SOUTH ON COUNTY ROAD 31.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.092 12B = -95.092 09 = -94.980 03 = -94.810

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78414.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78414.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CULVER RM 1

NGS Name: CULVER RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ7865](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	13	51 N	18 W	465439.68	923429.26		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1992	NOT FOUND	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

BLANK

Disk Type

REFERENCE MARK DISK

Mon. Agency

NGS

Description:

Stamping: CULVER NO 1 1952

1.26 MILES SOUTHWEST OF CULVER, 0.99 MILE WEST ALONG TRUNK HIGHWAY 8 FROM THE JUNCTION OF TRUNK HIGHWAY 8 AND COUNTY ROAD 7, THEN 1.02 MILE SOUTH ON COUNTY ROAD 31.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.144 12B = -95.144 09 = -95.033 03 = -94.862

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78416.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78416.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CULVER RM 2

NGS Name: CULVER RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ7866](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	13	51 N	18 W	465439.81	923430.61		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1992	NOT FOUND	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

BLANK

Disk Type

REFERENCE MARK DISK

Mon. Agency

NGS

Description:

Stamping: CULVER NO 2 1952

1.26 MILES SOUTHWEST OF CULVER, 0.99 MILE WEST ALONG TRUNK HIGHWAY 8 FROM THE JUNCTION OF TRUNK HIGHWAY 8 AND COUNTY ROAD 7, THEN 1.02 MILE SOUTH ON COUNTY ROAD 31.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.144 12B = -95.144 09 = -95.033 03 = -94.862

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78418.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78418.pdf



Geodetic Data Sheet (Brief)
GSID Station # 27977

D 159

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: D 159

NGS Name: D 159

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	5	53 N	17 W	470555.80	923207.20	2	

NGS ACRN: [SJ0497](#) [Get Map](#)
NGS Quad / Sta Num : 47092322/
USGS Quad: PAYNE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2007	GOOD	Horz=NO Vert=YES	YES		PROJECTS 5 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2007)

Stamping: D 159 1935

3.0 MILES EAST OF PAYNE, 3.0 MILES EAST ON COUNTY ROAD 232 FROM THE JUNCTION OF COUNTY ROAD 232 AND COUNTY ROAD 7, 3.8 MILES WEST ALONG COUNTY ROAD 232 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 232, 46.0 FEET NORTH OF COUNTY ROAD 232, 30.0 FEET EAST OF A TRAIL NORTH (LAKE WILLIAMS SNOWMOBILE TRAIL), OPPOSITE A SMALL BAY ON THE NORTH SIDE OF LAKE NICHOLS, 1.4 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1319.715	0.016	402.250	0.005	2/1	2012	00000702
NGVD29	1319.030	0.016	402.041	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.886 12B = -96.883 09 = -96.758 03 = -96.568

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/D_159-SJ0497-3N-22MAY2007.jpg	N	May 22, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/D_159-SJ0497-2-22MAY2007.jpg		May 22, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/D_159-SJ0497-1-22MAY2007.jpg		May 22, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Geodetic Data Sheet (Brief)
GSID Station # 27982

D 165

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: D 165

NGS Name: D 165

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0491](#) [Get Map](#)
NGS Quad / Sta Num : 47092321/
USGS Quad: KELSEY

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	11	54 N	18 W	471006.51	923442.84	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1988	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 14 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1935) **Stamping:** D 165 1935

2.0 MILES NORTHEAST OF KELSEY, 1.0 MILE EAST ON COUNTY ROAD 52 FROM THE JUNCTION OF A RAILROAD AND COUNTY ROAD 52, 50.0 FEET NORTH OF COUNTY ROAD 52, 25.0 FEET WEST OF A CROSSROAD, 25.0 FEET NORTH OF THE WEST END OF A METAL CULVERT, 1.5 FEET WEST OF A WITNESS POST.

Station Notes

THE DISK WAS MISSING.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1315. 079	0. 016	400. 837	0. 005	2/0	1991	00000025
NGVD29	1314. 453	0. 016	400. 646	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.546 12B = -97.549 09 = -97.437 03 = -97.250

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_27982.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28005

D 271

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: D 271

NGS Name: D 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0709](#) [Get Map](#)
NGS Quad / Sta Num : 46092441/
USGS Quad: MCCARTY RIVER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	2	51 N	20 W	465529.33	925053.63	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=? Vert=YES	NO		PROJECTS 5 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: D 271 1948

3.2 MILES EAST ON COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 AND TRUNK HIGHWAY 73 AT FLOODWOOD, 33.0 FEET NORTH OF COUNTY ROAD 8, 33.0 FEET EAST OF A CROSSROAD, 74.0 FEET NORTH-NORTHWEST OF THE LAST POWER POLE, 257.0 FEET WEST-SOUTHWEST OF THE SOUTHWEST CORNER OF AN OLD FARMHOUSE, 2.0 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1280. 864	0. 016	390. 408	0. 005	2/0	1991	00000025
NGVD29	1280. 234	0. 016	390. 216	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.361 12B = -95.341 09 = -95.269 03 = -95.144

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28005.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28005.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: D 272

NGS Name: D 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1965](#) [Get Map](#)
NGS Quad / Sta Num : 47092323/
USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	9	52 N	19 W	470002.00	924435.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

BRIDGE ABUTMENT

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1984)

Stamping: D 272 1948

5.35 MILES SOUTHWEST OF MEADOWLANDS, 4.85 MILES SOUTH ON COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 133 AND COUNTY ROAD 5, IN THE WEST END OF THE SOUTH ABUTMENT OF A COUNTY ROAD 5 BRIDGE OVER SPIDER CREEK, 12.0 FEET WEST OF COUNTY ROAD 5, 2.5 FEET WEST OF A BRIDGE RAIL.

Station Notes

THE STATION MAY BE REMOVED AS THE OLD BRIDGE WAS REPLACED BY BRIDGE NUMBER 96004 IN 1984.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1257.786	0.016	383.374	0.005	2/0	1991	00000025
NGVD29	1257.189	0.007	383.192	0.002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -96.102 12B = -96.089 09 = -96.000 03 = -95.840

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28006.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28006.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: D 273

NGS Name: D 273

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0522](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	19	53 N	20 W	470409.98	925524.60	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2020	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** D 273 1948

8.95 MILES WEST ON COUNTY ROAD 133 FROM THE HIGH SCHOOL AT MEADOWLANDS, 1.3 MILES WEST OF A Y-JUNCTION OF COUNTY ROAD 133 AND A ROAD SOUTHWEST, 44.0 FEET SOUTH OF COUNTY ROAD 133, 23.0 FEET EAST OF A FARM ROAD SOUTH, AT THE NORTHWEST CORNER OF A MEADOW, 15.0 FEET SOUTH-SOUTHEAST OF THE EAST END OF A METAL CULVERT, 2.0 FEET SOUTH OF A FENCE, 2.0 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1265. 831	0. 016	385. 826	0. 005	2/0	1991	00000025
NGVD29	1265. 165	0. 016	385. 623	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.640 12B = -96.621 09 = -96.588 03 = -96.397

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28007.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28007.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28008

D 275

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: D 275

NGS Name: D 275

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0480](#) [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	17	54 N	19 W	471002.00	924723.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: D 275 1948

1.0 MILES EAST ON COUNTY ROAD 52 FROM THE JUNCTION OF COUNTY ROAD 52 AND COUNTY ROAD 5 AT TOIVOLA, 0.5 MILE WEST OF A BRIDGE OVER THE ST. LOUIS RIVER, 78.0 FEET SOUTH OF COUNTY ROAD 52, 24.0 FEET EAST OF A CROSSROAD, 51.5 FEET SOUTH OF A FENCE CORNER, 1.5 FEET WEST OF A FENCE, 2.0 FEET NORTH OF A WITNESS POST.

Station Notes

FOUND THE CONCRETE MARK LAYING ON THE TOP OF THE GROUND. REMOVED THE DISK AND RETURNED IT TO THE GEODETIC OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1290.207	0.016	393.256	0.005	2/0	1991	00000025
NGVD29	1289.551	0.007	393.056	0.002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -97.503 12B = -97.503 09 = -97.431 03 = -97.241

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28008.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28008.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28010

D 280

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: D 280

NGS Name: D 280

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1325](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	20	55 N	21 W	471414.00	930143.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1968	DESTROYED	Horz=NO Vert=NO	NO	NONE		SEE DESCRIPTION

Monument Type

STRUCTURE (MASSIVE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: D 280 1948

2.25 MILES SOUTH ON TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND A RAILROAD AT SILICA, IN THE EAST END OF THE SOUTH ABUTMENT OF A TRUNK HIGHWAY 73 BRIDGE OVER A SMALL CREEK, 11.5 FEET EAST OF TRUNK HIGHWAY 73, 2.3 FEET EAST OF A RAILING.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1329. 105	0. 016	405. 112	0. 005	2/0	1991	00000025
NGVD29	1328. 344	0. 007	404. 880	0. 002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -97.159 12B = -97.175 09 = -97.077 03 = -96.981

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28010.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28010.pdf



Geodetic Data Sheet (Brief)
GSID Station # 40554

DAISY MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DAISY MNDT

NGS Name: DAISY

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9552](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	19	51 N	20 W	465329.36	925442.02	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	SURVEY DISK	MNDT

Description: (1999) **Stamping:** DAISY 1999

2.0 MILES SOUTH OF FLOODWOOD, 2.05 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 40.9, 64.0 FEET WEST OF TRUNK HIGHWAY 73, 14.0 FEET SOUTH OF AN ENTRANCE, 44.1 FEET SOUTH OF A FIBER OPTICAL CABLE MARKER, 2.3 FEET NORTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1288.370	0.016	392.696	0.005	2/1	2004	00000464

Geoid Separations(ft): GEOID18 = -95.029 12B = -95.016 09 = -94.931 03 = -94.823

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 53 29.36245	92 54 42.02043	384561.055	188421.288	117214.444	57430.923	363.732		2012	GPS2800
NAD83 (2007)	46 53 29.36256	92 54 42.02130	384560.994	188421.299	117214.426	57430.927	363.761		2007	GPS2300
NAD83 (1996)	46 53 29.36223	92 54 42.02086	384561.025	188421.266	117214.435	57430.917	363.784	C	2003	GPS1769

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DAISY-DE9552-3N-07JUL2020.jpg	N	Jul 7, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DAISY-DE9552-2-07JUL2020.jpg		Jul 7, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DAISY-DE9552-1-07JUL2020.jpg		Jul 7, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40554.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40554.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DAISY MNDT RESET

NGS Name: DAISY RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5175](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	19	51 N	20 W	465329.36	925442.02	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=NO Vert=YES	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017)

Stamping: DAISY 1999 2017

2.0 MILES SOUTH OF FLOODWOOD, 2.05 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 40.9, 64.0 FEET WEST OF TRUNK HIGHWAY 73, 14.0 FEET SOUTH OF A FIELD ENTRANCE, 2.3 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1288. 186 0. 016	392. 640 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.029 12B = -95.016 09 = -94.931 03 = -94.823

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DAISY_RESET-DR5175-3W-10AUG2017.jpg	W	Aug 10, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DAISY_RESET-DR5175-2-10AUG2017.jpg		Aug 10, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DAISY_RESET-DR5175-1-10AUG2017.jpg		Aug 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108138.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108138.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28029

DAL MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DAL MNDT

NGS Name: DAL

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1582](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	22	51 N	17 W	465255.74	922813.47		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	NOT FOUND	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	MARK IS STEEL PIPE

Monument Type

PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)

Disk Type

TRAVERSE STATION DISK

Mon. Agency

MNDT

Description: (1978)

Stamping: DAL 1978

11.0 MILES NORTH-NORTHWEST OF CLOQUET, 2.85 MILES NORTH ON TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2, THEN 0.1 MILE SOUTH ON COUNTY ROAD 874, 20.5 FEET WEST OF COUNTY ROAD 874, 79.0 FEET NORTH OF A DRIVEWAY, 2.6 FEET EAST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.678 12B = -94.672 09 = -94.560 03 = -94.373

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 52 55.74303	92 28 13.46518	494896.413	184675.762	150844.728	56289.285	388.604	2	1999	17648		
NAD83 (1986)	46 52 55.73726	92 28 13.46683	494896.299	184675.177	150844.694	56289.107		2	1986	17289		
NAD27	46 52 55.94877	92 28 12.77238						2	1980	16254		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28029.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28029.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DALTON

NGS Name: DALTON

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1882](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	24	50 N	17 W	464800.10	922657.60	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2019) **Stamping:** DALTON 2017

5.7 MILES NORTH OF CLOQUET, 3.2 MILES SOUTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 8.1, 25.5 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 33, 46.1 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 33, 79.1 FEET SOUTH OF DRIVEWAYS NUMBERS 3979 AND 3983 EXTENDED, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1197. 153 0. 016	364. 893 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -93.894 12B = -93.878 09 = -93.792 03 = -93.599

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DALTON-DR1882-3S-22AUG2017.jpg	S	Aug 22, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DALTON-DR1882-2-22AUG2017.jpg		Aug 22, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DALTON-DR1882-1-22AUG2017.jpg		Aug 22, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108086.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108086.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107824

DANIELLE

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DANIELLE

NGS Name: DANIELLE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5145](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	9	54 N	21 W	471027.44	930037.95	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 57 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: DANIELLE 2017

18.1 MILES SOUTH-SOUTHWEST OF HIBBING, 16.7 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 62.10, 28.8 FEET WEST OF TRUNK HIGHWAY 73, 22.7 FEET NORTH OF AN ENTRANCE, 1.5 FEET EAST OF A WITNESS POST.

Station Pair: MARK - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1309. 210 0. 016	399. 048 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.050 12B = -97.054 09 = -96.991 03 = -96.840

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DANIELLE-DR5145-3W-01AUG2017.jpg	W	Aug 1, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DANIELLE-DR5145-2-01AUG2017.jpg		Aug 1, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DANIELLE-DR5145-1-01AUG2017.jpg		Aug 1, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107824.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107824.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107925

DBUG

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DBUG

NGS Name: DBUG

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	2	50 N	17 W	465041.80	922800.69	2	3

NGS ACRN: [DQ9891](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 24 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: DBUG 2017

9.1 MILES NORTH OF CLOQUET, 0.4 MILE WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOINT 244.40, 45.2 FEET SOUTH OF WESTBOUND TRUNK HIGHWAY 2, 79.4 FEET NORTH OF EASTBOUND TRUNK HIGHWAY 2, 25.3 FEET EAST OF A GAS PIPE MARKER, 1.5 FEET WEST OF A WITNESS POST.

Station Pair: BUSCHE MNDT - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1325.781	0.016	404.099	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -94.331 12B = -94.317 09 = -94.226 03 = -94.039

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DBUG-DQ9891-3E-09AUG2017.jpg	E	Aug 9, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DBUG-DQ9891-2-09AUG2017.jpg		Aug 9, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DBUG-DQ9891-1-09AUG2017.jpg		Aug 9, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107925.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107925.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28033

DENCE MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DENCE MNDT

NGS Name: DENCE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6511](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	22	52 N	17 W	465849.88	922816.14	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2021	GOOD	Horz=YES Vert=YES	YES		RECESSED 6 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 12 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (1999) **Stamping:** DENCE 1992

4.0 MILES SOUTH OF CANYON, 3.95 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 25.9, 89.6 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 53, 32.7 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 53, 1.0 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1317.445 0.016	401.558 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.620 12B = -95.613 09 = -95.485 03 = -95.289

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>		
NAD83 (2011)	46 58 49.88488	92 28 16.13500	494720.622	220557.274	150791.147	67225.992	372.428		2012	GPS2800		
NAD83 (2007)	46 58 49.88497	92 28 16.13588	494720.561	220557.283	150791.129	67225.994	372.456		2007	GPS2300		
NAD83 (1996)	46 58 49.88465	92 28 16.13574	494720.571	220557.251	150791.132	67225.985	372.488	C	2003	GPS1848		
NAD83 (1986)	46 58 49.88015	92 28 16.13485	494720.631	220556.796	150791.150	67225.846		C	1993	H1993		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DENCE-DF6511-3E-26JUL2021.jpg	E	Jul 26, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DENCE-DF6511-2-26JUL2021.jpg		Jul 26, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DENCE-DF6511-1-26JUL2021.jpg		Jul 26, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28033.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28033.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28036

DODO MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DODO MNDT

NGS Name: DODO

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6506](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	54 N	17 W	470710.09	922819.07	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2017	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)

Disk Type

HORIZONTAL CONTROL DISK

Mon. Agency

MNDT

Description: (2002)

Stamping: DODO 1992

3.4 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 35.50, 31.4 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 134.5 FEET SOUTHWEST OF A CULVERT MARKER POST, 121.8 FEET SOUTH OF A CULVERT MARKER POST, 4.5 FEET EAST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1353.226	0.016	412.464	0.005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -96.932 12B = -96.939 09 = -96.808 03 = -96.611

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 07 10.08880	92 28 19.06638	494531.552	271238.844	150733.519	82673.765	382.912		2012	GPS2800
NAD83 (2007)	47 07 10.08893	92 28 19.06729	494531.489	271238.857	150733.499	82673.769	382.940		2007	GPS2300
NAD83 (1996)	47 07 10.08875	92 28 19.06696	494531.512	271238.839	150733.506	82673.764	382.957	C	2003	GPS1931
NAD83 (1986)	47 07 10.08729	92 28 19.06736	494531.485	271238.690	150733.498	82673.718		C	1993	H1993

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DODO-DF6506-3W-26JUL2017.jpg	W	Jul 26, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DODO-DF6506-2-26JUL2017.jpg		Jul 26, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DODO-DF6506-1-26JUL2017.jpg		Jul 26, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28036.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28036.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DODO MNDT RESET

NGS Name: DODO RESET

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	54 N	17 W	470710.09	922819.07	2	3

NGS ACRN: [DR1854](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: DODO 1992 2017

3.5 MILES SOUTH OF COTTON, 3.4 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 35.50, 31.4 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 8.9 FEET EAST OF A WITNESS POST.

Station Pair: JENKIN MNDT - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1352. 970 0. 016	412. 386 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.932 12B = -96.939 09 = -96.808 03 = -96.611

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DODO_RESET-DR1854-3W-19SEP2017.jpg	W	Sep 19, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DODO_RESET-DR1854-2-19SEP2017.jpg		Sep 19, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DODO_RESET-DR1854-1-19SEP2017.jpg		Sep 19, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108345.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108345.pdf



Geodetic Data Sheet (Brief)
GSID Station # 40551

DOOW MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DOOW MNDT

NGS Name: DOOW

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9551](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	8	51 N	20 W	465438.81	925357.61	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 21 FT)	SURVEY DISK	MNDT

Description: (2001) **Stamping:** DOOW 1999

0.9 MILE SOUTHEAST OF FLOODWOOD, 0.9 MILE SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 221.9, 67.0 FEET NORTHEAST OF TRUNK HIGHWAY 2, 32.9 FEET WEST OF A TELEPHONE CABLE PEDESTAL, 45.9 FEET WEST OF A POWER POLE, 68.0 FEET NORTHWEST OF A ROAD, 59.1 FEET SOUTHWEST OF A TELEPHONE POLE, 3.0 FEET NORTHWEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1277.573	0.016	389.405	0.005	2/1	2004	00000464

Geoid Separations(ft): GEOID18 = -95.216 12B = -95.197 09 = -95.118 03 = -95.006

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 54 38.81144	92 53 57.61023	387685.950	195439.749	118166.914	59570.155	360.382		2012	GPS2800
NAD83 (2007)	46 54 38.81154	92 53 57.61110	387685.890	195439.760	118166.896	59570.158	360.410		2007	GPS2300
NAD83 (1996)	46 54 38.81135	92 53 57.61027	387685.947	195439.740	118166.913	59570.152	360.431	C	2004	GPS1957

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DOOW-DE9551-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40551.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40551.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DOOW MNDT RESET

NGS Name: DOOW RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9916](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	8	51 N	20 W	465438.81	925357.61	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 21 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** DOOW 1999 2017

0.9 MILE SOUTHEAST OF FLOODWOOD, 0.9 MILE SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 221.9, 67.0 FEET NORTHEAST OF TRUNK HIGHWAY 2, 68.0 FEET NORTHWEST OF CARLSON ROAD, 32.9 FEET WEST OF A CABLE PEDESTAL, 45.9 FEET WEST OF A POWER POLE WITH 3 GUY WIRES, 3.0 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1277.534 0.016	389.393 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.216 12B = -95.197 09 = -95.118 03 = -95.006

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DOOW_RESET-DQ9916-3NE-24JUL2017.jpg	NE	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DOOW_RESET-DQ9916-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/DOOW_RESET-DQ9916-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107898.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107898.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: E 159

NGS Name: E 159

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	8	53 N	17 W	470515.00	923126.50	2	

NGS ACRN: SJ0498	Get Map
NGS Quad / Sta Num : 47092322/	
USGS Quad: PAYNE	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2007	GOOD	Horz=NO Vert=YES	YES		PROJECTS 5 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2007) **Stamping:** E 159 1935

4.2 MILES EAST OF PAYNE, 2.5 MILES WEST ON COUNTY ROAD 232 FROM TRUNK HIGHWAY 53, AT A RIGHT ANGLE TURN, 165.0 FEET NORTH OF THE EAST TANGENT, ON THE EAST SIDE OF LAKE NICHOLS, 21.0 FEET WEST OF COUNTY ROAD 232, 3.1 FEET NORTH-NORTHEAST OF A TELEPHONE PEDESTAL NUMBER A242, 0.90 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1325. 171	0. 016	403. 913	0. 005	2/1	2012	00000702
NGVD29	1324. 551	0. 016	403. 724	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.755 12B = -96.755 09 = -96.621 03 = -96.437

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/E_159-SJ0498-3W-22MAY2007.jpg	W	May 22, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/E_159-SJ0498-2-22MAY2007.jpg		May 22, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/E_159-SJ0498-1-22MAY2007.jpg		May 22, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28080.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28080.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28086

E 165

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: E 165

NGS Name: E 165

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0493](#) [Get Map](#)
NGS Quad / Sta Num : 47092321/
USGS Quad: KELSEY

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	17	54 N	17 W	471007.43	923210.36	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2020	GOOD	Horz=YES Vert=YES	YES		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1935) **Stamping:** E 165 1935

4.1 MILES NORTHEAST OF KELSEY, 3.1 MILES EAST ALONG COUNTY ROAD 52 FROM THE JUNCTION OF A RAILROAD AND COUNTY ROAD 52, 1.2 MILES WEST OF A BRIDGE OVER THE WHITEFACE RIVER, 32.5 FEET SOUTH OF COUNTY ROAD 52, 103.8 FEET EAST OF A CROSSROAD, 1.0 FOOT SOUTH OF A CABLE PEDESTAL NUMBERED E W 7, 16.0 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1314.531	0.016	400.670	0.005	2/0	1991	00000025
NGVD29	1313.892	0.016	400.475	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.497 12B = -97.500 09 = -97.385 03 = -97.195

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 10 07.43131	92 32 10.36349	478554.173	289218.881	145863.604	88154.091	370.955	3	2020	GPSBM

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/E_165-SJ0493-3S-12JUL2020.jpg	S	Jul 12, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/E_165-SJ0493-2-12JUL2020.jpg		Jul 12, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/E_165-SJ0493-1-12JUL2020.jpg		Jul 12, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28086.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28086.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28108

E 271

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: E 271

NGS Name: E 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0710](#) [Get Map](#)
NGS Quad / Sta Num : 46092441/
USGS Quad: MCCARTY RIVER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	9	51 N	20 W	465529.00	925210.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=? Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: E 271 1948

2.2 MILES EAST ON COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 AND TRUNK HIGHWAY 73 AT FLOODWOOD, 33.0 FEET SOUTH OF COUNTY ROAD 8, 27.0 FEET WEST OF A CROSSROAD, 4.0 FEET WEST OF A FENCE CORNER, 1.5 FEET NORTH OF A FENCE LINE, 2.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1263. 410	0. 016	385. 088	0. 005	2/0	1991	00000025
NGVD29	1262. 780	0. 016	384. 896	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.357 12B = -95.334 09 = -95.259 03 = -95.141

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28108.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28108.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28109

E 272

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: E 272

NGS Name: E 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0543](#)

[Get Map](#)

NGS Quad / Sta Num : 47092323/

USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	3	52 N	19 W	470044.61	924435.53	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2020	DISTURBED	Horz=YES Vert=YES	YES		PROJECTS 12 IN.	STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1995)

Stamping: E 272 1948

4.5 MILES SOUTHWEST OF MEADOWLANDS, 4.0 MILES SOUTH ON COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 133 AND COUNTY ROAD 5, 44.0 FEET EAST OF COUNTY ROAD 5, 21.0 FEET NORTH OF AN ENTRANCE, 11.0 FEET EAST OF THE NORTH END OF A METAL CULVERT, 35.0 FEET NORTH OF A POWER POLE, 2.0 FEET WEST OF A WITNESS POST.

Station Notes

THE MARK LEANS TOWARDS THE WEST. DID NOT REMOVE AS SOMEONE MAY BE STILL USING IT FOR ELEVATIONS.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1269.486	0.016	386.940	0.005	2/1	2012	00000702
NGVD29	1268.511	0.016	386.643	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.217 12B = -96.207 09 = -96.115 03 = -95.955

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 00 44.61324	92 44 35.53273	426850.550	232317.704	130104.308	70810.578	357.621		2012	GPS2800
NAD83 (2007)	47 00 44.61329	92 44 35.53360	426850.490	232317.709	130104.290	70810.579	357.650		2007	GPS2300
NAD83 (1996)	47 00 44.61309	92 44 35.53346	426850.500	232317.689	130104.293	70810.573	357.659	C	1997	GPS805-

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/E_272-SJ0543-3E-07JUL2020.jpg	E	Jul 7, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/E_272-SJ0543-2-07JUL2020.jpg		Jul 7, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/E_272-SJ0543-1-07JUL2020.jpg		Jul 7, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28109.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28110

E 273

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: E 273

NGS Name: E 273

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0523](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	13	53 N	21 W	470411.59	925639.81	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	NOT FOUND	Horz=NO Vert=NO	YES		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** E 273 1948

9.95 MILES WEST ON TRUNK HIGHWAY 133 FROM THE HIGH SCHOOL AT MEADOWLANDS, 0.35 MILE EAST OF A TEE-JUNCTION AND THE END OF COUNTY ROAD 133, 47.0 FEET NORTH OF COUNTY ROAD 133, 11.0 FEET NORTH OF A FENCE, 14.5 FEET NORTHEAST OF THE EAST POST AT A FENCE GAP, 2.0 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1267.284	0.016	386.269	0.005	2/0	1991	00000025
NGVD29	1266.612	0.016	386.064	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.621 12B = -96.604 09 = -96.571 03 = -96.381

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/E_273-SJ0523-3E-13JUL2017.jpg	E	Jul 13, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28110.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: E 275

NGS Name: E 275

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	18	54 N	19 W	471001.00	924832.00	2	

NGS ACRN: [SJ0481](#)

[Get Map](#)

NGS Quad / Sta Num : 47092331/

USGS Quad: TOIVOLA

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

BRIDGE ABUTMENT

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1947)

Stamping: E 275 1948

AT TOIVOLA, 320.0 FEET EAST OF THE JUNCTION OF COUNTY ROAD 52 AND COUNTY ROAD 5, IN THE SOUTH END OF THE EAST ABUTMENT OF A COUNTY ROAD 52 BRIDGE OVER SAND CREEK, 11.5 FEET SOUTH OF COUNTY ROAD 52.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1265. 211	0. 016	385. 637	0. 005	2/0	1991	00000025
NGVD29	1264. 555	0. 007	385. 437	0. 002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -97.477 12B = -97.477 09 = -97.408 03 = -97.214

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28111.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28111.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: E 280

NGS Name: E 280

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1323](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	17	55 N	21 W	471425.00	930147.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1957	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1957) **Stamping:** E 280 1948

9.2 MILES SOUTH-SOUTHWEST OF HIBBING, 9.6 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND COUNTY ROAD 16 IN HIBBING.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	Orthometric (Feet)		Orthometric (Meters)		Survey <u>Order/(Class)</u>	Project Info	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1353.892	0.016	412.667	0.005	2/0	1991	00000025
NGVD29	1353.130	0.007	412.435	0.002	1	1948	L28 MINN

Geoid Separations(ft): GEOID18 = -97.162 12B = -97.182 09 = -97.080 03 = -96.985

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28114.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28114.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28115

E 280 RESET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: E 280 RESET

NGS Name: E 280 RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1324](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	17	55 N	21 W	471425.00	930147.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1957	2017	NOT FOUND	Horz=NO Vert=NO	YES		PROJECTS 6 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (1957)

Stamping: E 280 RESET 1957

1.85 MILES SOUTH ON TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND A RAILROAD AT SILICA, AT THE JUNCTION OF TRUNK HIGHWAY 73 AND A PRIVATE ROAD EAST, 245.0 FEET EAST OF TRUNK HIGHWAY 73, 450.0 FEET NORTH OF A CULVERT, 20.0 FEET NORTH OF A ROAD EAST, 18.0 FEET NORTHEAST OF A POWER POLE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NGVD29	1345.949 0.007	410.246 0.002	1	1957 L28 MINN

Geoid Separations(ft): GEOID18 = -97.162 12B = -97.182 09 = -97.080 03 = -96.988

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/E_280_RESET-SJ1324-3E-11JUL2017.jpg	E	Jul 11, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28115.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28115.pdf



Geodetic Data Sheet (Brief)
GSID Station # 41626

E LINDSTROM MN137

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: E LINDSTROM MN137

NGS Name: E LINDSTROM

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF9106](#) [Get Map](#)
NGS Quad / Sta Num : 47092324/
USGS Quad: MEADOWLANDS NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	25	55 N	19 W	471305.53	924215.63		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2002	POOR	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 32 FT)	SURVEY DISK	MN-137

Description: (2002) **Stamping:** E. LINDSTROM 2001

5.0 MILES NORTHWEST OF KELSEY, 5.0 MILES NORTH ALONG COUNTY ROAD 7 FROM COUNTY ROAD 7 AND COUNTY ROAD 29 IN KELSEY, THEN 3.85 MILES WEST ON COUNTY ROAD 28 (SAX ROAD), THEN 1.50 MILES NORTH AND WEST ON COUNTY ROAD 28, 33.0 FEET SOUTH OF COUNTY ROAD 28, 226.0 FEET EAST OF DRIVEWAY NUMBER 9691, 3.0 FEET SOUTH OF A WITNESS POST.

Station Notes

FOUND CAP LOOSE. USE WITH CAUTION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.808 12B = -97.805 09 = -97.733 03 = -97.572

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 13 05.53413	92 42 15.62822	436789.594	307355.888	133133.734	93682.262	365.486				2012	GPS2800
NAD83 (2007)	47 13 05.53419	92 42 15.62912	436789.532	307355.894	133133.716	93682.264	365.513				2007	GPS2300
NAD83 (1996)	47 13 05.53408	92 42 15.62888	436789.548	307355.883	133133.721	93682.261	365.525	C			2003	GPS1931

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/E_LINDSTROM-DF9106-1-03JUN2003.jpg		Jun 3, 2003

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41626.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41626.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: EAST SWAN MN137

NGS Name: EAST SWAN

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF9107](#) [Get Map](#)
NGS Quad / Sta Num : 47092342/
USGS Quad: LITTLE SWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	55 N	20 W	471657.37	924951.34		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2020	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 31 FT)	SURVEY DISK	MN-137

Description: (2002)

Stamping: EAST SWAN 2001

8.0 MILES SOUTHEAST OF HIBBING, 5.15 MILES EAST ALONG TRUNK HIGHWAY 37 FROM THE JUNCTION OF TRUNK HIGHWAY 37 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 37 MILEPOINT 6.4, THEN 7.70 MILES SOUTH ON COUNTY ROAD 5, THEN 0.95 MILE WEST ON SOUTH TOWN LINE ROAD, 30.0 FEET SOUTH OF THE SOUTH TOWN LINE ROAD (COUNTY ROAD 442), 48.0 FEET WEST OF COUNTY ROAD 444, 8.0 FEET NORTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.851 12B = -97.854 09 = -97.775 03 = -97.667

Geodetic Position and St Louis County Coordinates - Central Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 16 57.36778	92 49 51.33527	405443.978	112124.472	123579.572	34175.607	363.922		2012	GPS2800
NAD83 (2007)	47 16 57.36783	92 49 51.33621	405443.913	112124.477	123579.552	34175.609	363.949		2007	GPS2300
NAD83 (1996)	47 16 57.36774	92 49 51.33596	405443.930	112124.468	123579.557	34175.606	363.965	C	2003	GPS1931

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/EAST_SWAN-DF9107-3S-13JUL2020.jpg	S	Jul 13, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/EAST_SWAN-DF9107-2-13JUL2020.jpg		Jul 13, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/EAST_SWAN-DF9107-1-13JUL2020.jpg		Jul 13, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41627.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41627.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ECK MNDT

NGS Name: ECK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1581](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	52 N	17 W	465654.73	922802.42		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	NOT FOUND	Horz=NO Vert=NO	NO		FLUSH	MARK IS STEEL PIPE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (1978) **Stamping:** ECK 1978

0.75 MILE SOUTH-SOUTHWEST ON TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 53 IN INDEPENDENCE, AT TRUNK HIGHWAY 33 MILEPOINT 18.6, 36.3 FEET NORTHWEST OF TRUNK HIGHWAY 33, 30.9 FEET NORTH OF A CURVE SIGN, 7.3 FEET SOUTHEAST OF A WITNESS POST.

Station Notes

FOUND THE PIN LAYING ON THE GROUND.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.305 12B = -95.302 09 = -95.177 03 = -94.980

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 56 54.72590	92 28 02.42350	495668.829	208889.129	151080.161	63669.534	383.119		2	1999	17648	
NAD83 (1986)	46 56 54.71995	92 28 02.42456	495668.755	208888.526	151080.139	63669.350			2	1986	17289	
NAD27	46 56 54.93436	92 28 01.73834							2	1980	16254	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28137.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28137.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28140

ELBURG MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ELBURG MNDT

NGS Name: ELBURG

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AC5015](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	34	55 N	17 W	471217.09	922915.31	2	B

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2015	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type

UNKNOWN

Disk Type

HORIZONTAL CONTROL DISK

Mon. Agency

MNDT

Description: (2015)

Stamping: ELBURG 1992

2.5 MILES NORTH OF COTTON, 2.5 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 41.50, 96.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53, 109.0 FEET SOUTH OF A DRIVEWAY, 72.5 FEET SOUTH OF A POWER POLE, 4.2 FEET WEST OF A RIGHT-OF-WAY POST, 4.5 FEET WEST-NORTHWEST OF A RIGHT-OF-WAY MONUMENT, 2.9 FEET NORTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1338.987	0.016	408.124	0.005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -97.667 12B = -97.667 09 = -97.585 03 = -97.388

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 12 17.08776	92 29 15.30566	490656.802	302346.741	149552.493	92155.471	378.353		2012	GPS2800
NAD83 (2007)	47 12 17.08787	92 29 15.30657	490656.740	302346.752	149552.473	92155.474	378.381		2007	GPS2300
NAD83 (1996)	47 12 17.08760	92 29 15.30625	490656.762	302346.725	149552.480	92155.466	378.397	B	2008	HBMN1
NAD83 (1986)	47 12 17.08704	92 29 15.30841	490656.614	302346.669	149552.435	92155.449		C	1993	H1993

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ELBURG-AC5015-3E-18DEC2008.jpg	E	Dec 18, 2008
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ELBURG-AC5015-2-18DEC2008.jpg		Dec 18, 2008
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ELBURG-AC5015-1-18DEC2008.jpg		Dec 18, 2008

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28140.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28140.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ELBURG MNDT RESET

NGS Name: ELBURG RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ6747](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	34	55 N	17 W	471217.09	922915.31	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2017	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2019)

Stamping: ELBURG 1992 2015

2.5 MILES NORTH OF COTTON, 2.5 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 41.50, 96.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53, 109.0 FEET SOUTH OF DRIVEWAY NUMBER 1204, 72.5 FEET SOUTH OF A POWER POLE, 4.5 FEET WEST-NORTHWEST OF A RIGHT-OF-WAY MONUMENT, 4.2 FEET WEST OF A RIGHT-OF-WAY POST, 2.9 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1338. 816 0. 016	408. 072 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.667 12B = -97.667 09 = -97.585 03 = -97.388

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u> <u>Latitude</u> <u>Longitude</u>	<u>County (Feet)</u> <u>X</u> <u>Y</u>	<u>County (Meters)</u> <u>X</u> <u>Y</u>	<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAD83 (2011)	47 12 17. 08757 92 29 15. 30588	490656. 787 302346. 722	149552. 488 92155. 465	378. 291		2018 GPS3119
NAD83 (1996)	47 12 17. 08744 92 29 15. 30645	490656. 748 302346. 709	149552. 476 92155. 461	378. 346	C	2017 HMNCORS

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ELBURG_RESET-DQ6747-3E-14SEP2017.jpg	E	Sep 14, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ELBURG_RESET-DQ6747-2-14SEP2017.jpg		Sep 14, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ELBURG_RESET-DQ6747-1-14SEP2017.jpg		Sep 14, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104896.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104896.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28142

ELMER

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ELMER

NGS Name: ELMER

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ2200](#) [Get Map](#)
NGS Quad / Sta Num : 47092332/1003
USGS Quad: ELMER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	14	53 N	20 W	470429.75	925028.88		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1995	GOOD	Horz=YES Vert=YES	NO		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	MNDT

Description: (1975) **Stamping:** ELMER 1952

5.0 MILES WEST-NORTHWEST OF MEADOWLANDS, 11.5 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD THEN 6.7 MILES EAST ON COUNTY ROAD 133 THEN 0.45 MILE NORTH ON A ROAD THEN 0.15 MILE WEST ON A DRIVEWAY, 60.0 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A GRANARY, 23.0 FEET SOUTH OF A FARM DRIVEWAY, 21.3 FEET NORTH-NORTHWEST OF THE NORTHEAST CORNER OF A SHED, 60.2 FEET SOUTH-SOUTHWEST OF A POWER POLE, 113.48 FEET SOUTHWEST OF ELMER RM 1, 116.52 FEET SOUTHEAST OF ELMER RM 2.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.762 12B = -96.742 09 = -96.696 03 = -96.506

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 04 29.74799	92 50 28.87751	402477.463	255235.336	122675.376	77795.886	359.241		2012	GPS2800
NAD83 (2007)	47 04 29.74801	92 50 28.87835	402477.405	255235.339	122675.359	77795.887	359.271		2007	GPS2300
NAD83 (1996)	47 04 29.74780	92 50 28.87807	402477.425	255235.317	122675.364	77795.880	359.306	C	1999	17648
NAD83 (1986)	47 04 29.74446	92 50 28.88170	402477.172	255234.980	122675.287	77795.778		1	1986	17289
NAD27	47 04 29.95700	92 50 28.17400						1	1954	10724

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28142.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28142.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ELMER RM 1

NGS Name: ELMER RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ2475](#) [Get Map](#)
NGS Quad / Sta Num : 47092332/
USGS Quad: ELMER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	14	53 N	20 W	470430.09	925027.32		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1996	GOOD	Horz=YES Vert=YES	NO			SEE DESCRIPTION

Monument Type

BLANK

Disk Type

REFERENCE MARK DISK

Mon. Agency

MNDT

Description:

Stamping: ELMER NO 1 1952

68.0 FEET WEST-NORTHWEST OF A WELL 11.0 FEET NORTH OF THE CENTER OF A DRIVEWAY AND 3.5 FEET SOUTH OF THE SOUTHWEST CORNER OF A FARM SHED.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.762 12B = -96.739 09 = -96.696 03 = -96.506

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78542.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78542.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ELMER RM 2

NGS Name: ELMER RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ2476](#) [Get Map](#)
NGS Quad / Sta Num : 47092332/
USGS Quad: ELMER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	14	53 N	20 W	470430.19	925030.43		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1996	GOOD	Horz=YES Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	REFERENCE MARK DISK	MNDT

Description:

Stamping: ELMER NO 2 1952

11.0 FEET NORTH OF THE CENTER OF A DRIVEWAY AND 4.5 FEET EAST OF THE SOUTHWEST CORNER OF THE GRANARY.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.762 12B = -96.739 09 = -96.696 03 = -96.506

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78543.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78543.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28150

EMIL MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: EMIL MNDT

NGS Name: EMIL

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0778](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/1051
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	6	50 N	17 W	465049.00	923230.00	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1979	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

TRAVERSE STATION DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: EMIL 1974

3.25 MILES EAST-SOUTHEAST OF BROOKSTON, AT TRUNK HIGHWAY 2 MILEPOINT 240.85, 4.05 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33, 43.0 FEET NORTH OF TRUNK HIGHWAY 2, 63.3 FEET SOUTH-SOUTHEAST OF A RIGHT-OF-WAY POST, 61.80 FEET SOUTH-SOUTHWEST OF STATION 6907 AE, 64.06 FEET SOUTHEAST OF EMIL MNDT RM 2, 43.7 FEET SOUTH-SOUTHWEST OF A POWER POLE, 9.0 FEET WEST OF A FARM ENTRANCE, 62.4 FEET SOUTH-SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1316.060	0.016	401.136	0.005	2/0	1991	00000025
NGVD29	1315.631	0.016	401.005	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.491 12B = -94.485 09 = -94.390 03 = -94.219

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>		<u>Longitude</u>		<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46	50	48.65195	92 32 29.55166	477091.191	171811.809	145417.686	52368.344	372.392	2	1999	17648
NAD83 (1986)	46	50	48.64626	92 32 29.55375	477091.044	171811.231	145417.641	52368.168			1991	H1991
NAD27	46	50	48.85225	92 32 28.85208						2	1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/EMIL-RN0778-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28150.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28150.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107827

EMILY

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: EMILY

NGS Name: EMILY

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9918](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	8	51 N	20 W	465511.90	925439.49	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 6 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** EMILY 2017

0.6 MILE SOUTHEAST OF FLOODWOOD, AT THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 (THE JUNCTION IS 0.5 MILE SOUTHEAST OF FLOODWOOD), AT TRUNK HIGHWAY 2 MILEPOINT 221.1, 76.4 FEET SOUTHWEST OF TRUNK HIGHWAY 2, 136.9 FEET EAST OF TRUNK HIGHWAY 73, 1.5 FEET NORTHEAST OF A WITNESS POST.

Station Pair: RAEHELLE - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1249. 056 0. 016	380. 713 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.292 12B = -95.275 09 = -95.200 03 = -95.085

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/EMILY-DQ9918-3SW-01AUG2017.jpg	SW	Aug 1, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/EMILY-DQ9918-2-01AUG2017.jpg		Aug 1, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/EMILY-DQ9918-1-01AUG2017.jpg		Aug 1, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107827.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107827.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28151

ENG MNDT

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ENG MNDT

NGS Name: ENG

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0756](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/1059
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	36	51 N	19 W	465118.38	924153.51	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	NOT FOUND	Horz=NO Vert=NO	NO		RECESSED 12 IN.	STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

TRAVERSE STATION DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: ENG 1974

4.7 MILES WEST-SOUTHWEST OF BROOKSTON, 4.6 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31, AT TRUNK HIGHWAY 2 MILEPOINT 233.35, STATION ENG MNDT IS BURIED 1.0 FOOT BELOW THE NORTH SHOULDER OF TRUNK HIGHWAY 2, NEAR THE EAST EDGE OF A BITUMINOUS ENTRANCE, AT THE NORTH EDGE OF A BITUMINOUS ROADWAY, 52.7 FEET SOUTH-SOUTHWEST OF A WITNESS POST, 51.77 FEET SOUTH-SOUTHWEST OF ENG MNDT RM 1, 175.10 FEET SOUTHEAST OF STATION 6907 K.

Station Notes

TIES 51.77 AND 175.10 PUT THE MARK UNDER THE BITUMINOUS. LOOKS LIKE THE SHOULDER HAS BEEN EXTENDED BY AN ENTRANCE OR PATCHED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1360.424	0.016	414.658	0.005	2/0	1991	00000025
NGVD29	1359.794	0.016	414.466	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.678 12B = -94.668 09 = -94.586 03 = -94.452

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 51 18.38098	92 41 53.51064	437897.166	174908.833	133471.323	53312.319	385.850	2	1999	17648
NAD83 (1986)	46 51 18.37422	92 41 53.51238	437897.042	174908.149	133471.285	53312.110		2	1986	17289
NAD27	46 51 18.57170	92 41 52.80972						2	1977	15924

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28151.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28151.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28152

ENG MNDT RM 1

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ENG MNDT RM 1

NGS Name: ENG RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0755](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	36	51 N	19 W	465118.89	924153.49	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2021	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2001) **Stamping:** ENG NO 1 1974

4.4 MILES WEST-SOUTHWEST OF BROOKSTON, AT TRUNK HIGHWAY 2 MILEPOINT 233.35, 75.8 FEET NORTH OF TRUNK HIGHWAY 2, 166.0 FEET EAST-SOUTHEAST OF THE SOUTHEAST CORNER OF A TOWN HALL, 43.0 FEET EAST-SOUTHEAST OF A CABLE MARKER POST, 162.4 FEET EAST-SOUTHEAST OF STATION 6907 K, 51.8 FEET NORTH-NORTHEAST OF STATION ENG MNDT, 1.3 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1358.659	0.016	414.120	0.005	2/1	2021	00000963
NGVD29	1358.081	0.016	413.944	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.678 12B = -94.668 09 = -94.586 03 = -94.452

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 51 18.89155	92 41 53.48678	437898.988	174960.558	133471.878	53328.085	385.259		2012	GPS2800
NAD83 (2007)	46 51 18.89168	92 41 53.48763	437898.929	174960.571	133471.860	53328.089	385.286		2007	GPS2300
NAD83 (1996)	46 51 18.89159	92 41 53.48770	437898.924	174960.562	133471.859	53328.086	385.310	C	2004	GPS1957

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ENG_RM_1-RN0755-3N-25JUL2021.jpg	N	Jul 25, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ENG_RM_1-RN0755-2-25JUL2021.jpg		Jul 25, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ENG_RM_1-RN0755-1-25JUL2021.jpg		Jul 25, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28152.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28152.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: F 159

NGS Name: F 159

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0298](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	9	53 N	17 W	470513.00	922958.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2017	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

UNKNOWN

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1978)

Stamping: F 159 1935

5.4 MILES EAST OF PAYNE, 1.3 MILES WEST ON COUNTY ROAD 232 FROM TRUNK HIGHWAY 53, 1.2 MILES EAST OF LAKE NICHOLS, AT A HIGH POINT, 108.0 FEET EAST OF A DRIVEWAY, 21.0 FEET SOUTH OF A ROAD, 3.0 FEET SOUTH OF A POLE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1359.207	0.016	414.287	0.005	2/0	1991	00000025
NGVD29	1358.649	0.016	414.117	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.696 12B = -96.703 09 = -96.558 03 = -96.374

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28172.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28172.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: F 165

NGS Name: F 165

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	10	54 N	17 W	471009.44	922920.65	2	

NGS ACRN: SJ0281	Get Map
NGS Quad / Sta Num : 47092234/	
USGS Quad: COTTON	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 4 IN.	STEEL ROD IMBED IN MON

Monument Type

CONCRETE POST (PREFABRICATED)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (2006)

Stamping: F 165 1935

0.6 MILE WEST OF COTTON, 0.6 MILE WEST ALONG COUNTY ROAD 52 FROM THE JUNCTION OF COUNTY ROAD 52 (ARKOLA ROAD) AND TRUNK HIGHWAY 53 IN COTTON, 45.0 FEET NORTH OF COUNTY ROAD 52, 9.0 FEET NORTH OF THE LARGEST BOULDER, 0.6 FOOT SOUTH OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1327.241	0.016	404.544	0.005	2/1	2021	00000963
NGVD29	1326.310	0.016	404.260	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.411 12B = -97.411 09 = -97.310 03 = -97.113

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/F_165-SJ0281-3N-19SEP2017.jpg	N	Sep 19, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/F_165-SJ0281-2-19SEP2017.jpg		Sep 19, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/F_165-SJ0281-1-19SEP2017.jpg		Sep 19, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28179.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28179.pdf



Geodetic Data Sheet (Brief)
GSID Station # 54020

F 165 A

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: F 165 A

NGS Name: F 165 A

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	15	54 N	17 W	471001.50	922909.40	2	

NGS ACRN: [DM4454](#) [Get Map](#)
 NGS Quad / Sta Num : 47092234/
 USGS Quad: COTTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2006	2017	DESTROYED	Horz=NO Vert=NO	NO		RECESSED 1 IN.	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 22 FT)

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (2006)

Stamping: F 165 A 2006

0.50 MILE WEST OF COTTON, 0.50 MILE WEST ALONG COUNTY ROAD 52 (ARKOLA ROAD) FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, THEN 0.15 MILE SOUTH ON AN ENTRANCE TO THE ST. LOUIS COUNTY PUBLIC WORKS 6TH DISTRICT SHOP, 92.6 FEET EAST OF THE NORTHEAST CORNER OF THE 6TH DISTRICT SHOP, 63.8 FEET NORTHEAST OF THE SOUTHEAST CORNER OF THE 6TH DISTRICT SHOP, 1.4 FEET WEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1335.683	0.016	407.117	0.005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -97.388 12B = -97.385 09 = -97.283 03 = -97.086

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_54020.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_54020.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: F 165 A RESET

NGS Name: F 165 A RESET

County: ST. LOUIS, MN (Sheet 1)

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	15	54 N	17 W	471001.57	922909.01	2	3

NGS ACRN: [DR1851](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=NO Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 22 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2019)

Stamping: F 165 A RESET 2017

0.5 MILE WEST OF COTTON, 0.5 MILE WEST ALONG COUNTY ROAD 52 (ARKOLA ROAD) FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, THEN 0.15 MILE SOUTH ON A DRIVEWAY NUMBER 7628 TO THE ST. LOUIS COUNTY PUBLIC WORKS 6TH DISTRICT SHOP, 92.6 FEET EAST OF THE NORTHEAST CORNER OF THE 6TH DISTRICT SHOP, 63.8 FEET NORTHEAST OF THE SOUTHEAST CORNER OF THE 6TH DISTRICT SHOP, 1.4 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u>	<u>Project Info</u>	
<u>Datum</u>	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>	<u>Order/(Class)</u>	<u>Year</u>	<u>Reference</u>
NAVD88	1335. 611	0. 016	407. 095	0. 005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -97.388 12B = -97.385 09 = -97.283 03 = -97.086

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/F_165_A_RESET-DR1851-3S-19SEP2017.jpg	S	Sep 19, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/F_165_A_RESET-DR1851-2-19SEP2017.jpg		Sep 19, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/F_165_A_RESET-DR1851-1-19SEP2017.jpg		Sep 19, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108346.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108346.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28202

F 271

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: F 271

NGS Name: F 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0711](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	8	51 N	20 W	465530.00	925340.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=? Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: F 271 1948

1.05 MILES EAST ON COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 AND TRUNK HIGHWAY 73 AT FLOODWOOD, 0.55 MILE EAST OF A COUNTY ROAD 8 BRIDGE OVER THE SAVANNA RIVER, ON THE OUTSIDE EDGE OF A CURVE, 10.0 FEET SOUTHWEST OF THE NORTHWEST TANGENT EXTENDED, 36.0 FEET SOUTH-SOUTHWEST OF COUNTY ROAD 8, 46.0 FEET EAST OF A POWER POLE, 121.0 FEET WEST OF FARM DRIVE SOUTH, 2.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1255. 988	0. 016	382. 826	0. 005	2/0	1991	00000025
NGVD29	1255. 352	0. 016	382. 632	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.348 12B = -95.331 09 = -95.256 03 = -95.138

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28202.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28202.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28203

F 272

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: F 272

NGS Name: F 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0542](#)

[Get Map](#)

NGS Quad / Sta Num : 47092323/

USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	4	52 N	19 W	470133.61	924434.94	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	GOOD	Horz=YES Vert=YES	NO		PROJECTS 2 IN.	STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (2007)

Stamping: F 272 1948

3.5 MILES SOUTHWEST OF MEADOWLANDS, 3.0 MILES SOUTH ON COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 133 AND COUNTY ROAD 5, 0.9 MILE SOUTH OF A COUNTY ROAD 5 BRIDGE OVER THE WHITEFACE RIVER, 30.0 FEET WEST OF COUNTY ROAD 5, 32.0 FEET SOUTH OF A CROSSROAD (COUNTY ROAD 725 WEST), 10.0 FEET NORTHWEST OF A TELEPHONE PEDESTAL, 0.5 FOOT EAST OF A WITNESS POST.

Station Notes

THE MARK HAS BEEN HIT BUT APPEARS STABLE. THE CONCRETE IS CHIPPED OFF.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	Orthometric (Feet)		Orthometric (Meters)		Survey <u>Order/(Class)</u>	Project Info	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1267.422	0.016	386.311	0.005	2/1	2012	00000702
NGVD29	1266.822	0.016	386.128	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.348 12B = -96.342 09 = -96.250 03 = -96.082

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28203.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28203.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28204

F 273

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: F 273

NGS Name: F 273

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0524](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	24	53 N	21 W	470336.68	925708.48	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	NOT FOUND	Horz=NO Vert=NO	YES		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** F 273 1948

9.7 MILES NORTHWEST ALONG TRUNK HIGHWAY 73 FROM THE HIGH SCHOOL IN FLOODWOOD, THEN 0.55 MILE NORTH ON COUNTY ROAD 186, 0.3 MILE NORTH OF A CROSSROAD, 23.0 FEET EAST OF A GRAVEL ROAD, 37.0 FEET NORTH OF A FARM ROAD EAST, 30.5 FEET NORTH OF THE NORTH GATE POST, 1.5 FEET WEST OF A FENCE LINE, 2.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1267. 616	0. 016	386. 370	0. 005	2/0	1991	00000025
NGVD29	1266. 936	0. 016	386. 163	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.539 12B = -96.525 09 = -96.486 03 = -96.299

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/F_273-SJ0524-3S-13JUL2017.jpg	S	Jul 13, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28204.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28204.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28205

F 275

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: F 275

NGS Name: F 275

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0482](#) [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	13	54 N	20 W	471001.05	924955.75	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=? Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** F 275 1948

1.0 MILE WEST ON COUNTY ROAD 317 FROM THE JUNCTION OF COUNTY ROAD 317 AND COUNTY ROAD 5 AT TOIVOLA, 0.7 MILE WEST OF A RANGER STATION AND A FIRE TOWER, 23.0 FEET SOUTH OF A ROAD, 33.0 FEET EAST OF A ROAD SOUTH, 14.0 FEET EAST OF A FENCE CORNER, 1.0 FOOT NORTH OF A FENCE, 2.0 FEET EAST OF A WITNESS POST.

Station Notes

THE PIPE HAS BEEN REPLACED, AND A DRIVEWAY WAS REGRADED.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1278.419	0.016	389.663	0.005	2/0	1991	00000025
NGVD29	1277.763	0.016	389.463	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.441 12B = -97.441 09 = -97.375 03 = -97.182

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28205.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28205.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28206

F 276

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: F 276

NGS Name: F 276

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	16	54 N	20 W	471000.16	925232.75	2	

NGS ACRN: [SJ0484](#)

[Get Map](#)

NGS Quad / Sta Num : 47092334/

USGS Quad: UPSTEAD LAKE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=NO Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: F 276 1948

3.1 MILES WEST ON COUNTY ROAD 317 FROM THE JUNCTION OF COUNTY ROAD 317 AND COUNTY ROAD 5 AT TOIVOLA, AT THE TOIVOLA RAILROAD STATION, 297.0 FEET SOUTHEAST OF THE STATION, 162.0 FEET SOUTH OF AN EAST-WEST GRAVEL ROAD, 49.0 FEET NORTHEAST OF THE NORTHEAST RAIL OF THE NORTHEAST MAIN RAILROAD TRACK, 6.0 FEET NORTH OF A FENCE CORNER, 40.5 FEET NORTHWEST OF A TELEPHONE POLE, 5.0 FEET FROM AND IN LINE WITH THE POLES, 2.0 FEET SOUTHEAST OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1289.591	0.016	393.068	0.005	2/0	1991	00000025
NGVD29	1288.938	0.016	392.869	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.359 12B = -97.355 09 = -97.300 03 = -97.106

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28206.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28206.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28210

F 280

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: F 280

NGS Name: F 280

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	16	55 N	21 W	471507.07	930126.07	2	3

NGS ACRN: [SJ1322](#) [Get Map](#)
NGS Quad / Sta Num : 47093212/
USGS Quad: SILICA

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	POOR	Horz=NO Vert=NO	YES		PROJECTS 16 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** F 280 1948

1.2 MILES SOUTH OF HIBBING, 2.4 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND COUNTY ROAD 16 IN HIBBING TO ABOUT TRUNK HIGHWAY 73 MILEPOINT 68.2, THEN 0.30 MILE SOUTH ON SILICA DRIVE, 34.2 FEET WEST OF SILICA DRIVE, 20.3 FEET NORTH OF A DRIVEWAY.

Station Notes

THE STATION IS UNSTABLE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1338.767	0.016	408.057	0.005	2/0	1991	00000025
NGVD29	1338.009	0.016	407.826	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.208 12B = -97.231 09 = -97.126 03 = -97.037

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/F_280-SJ1322-3W-11JUL2017.jpg	W	Jul 11, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/F_280-SJ1322-2-11JUL2017.jpg		Jul 11, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/F_280-SJ1322-1-11JUL2017.jpg		Jul 11, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28210.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28210.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28221

F 30

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: F 30

NGS Name: F 30

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0690](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	1	51 N	18 W	465534.00	923432.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2021	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1934) **Stamping:** F 30 1934

0.8 MILE WEST OF CULVER, 50.0 FEET NORTHEAST ON COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 AND COUNTY ROAD 31, 150.0 FEET SOUTHEAST OF THE C T JOHNSONS FARMHOUSE, 10.0 FEET NORTH OF COUNTY ROAD 8 IN LINE WITH A FENCE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1326.457	0.016	404.305	0.005	2/0	1991	00000025
NGVD29	1325.932	0.016	404.145	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.289 12B = -95.285 09 = -95.170 03 = -950000

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28221.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28221.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108544

FALBO

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FALBO

NGS Name: FALBO

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5178](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	31	51 N	20 W	465144.16	925443.39	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 59 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2019) **Stamping:** FALBO 2017

4.0 MILES SOUTH OF FLOODWOOD, 4.05 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 38.9, 70.6 FEET WEST OF TRUNK HIGHWAY 73, 63.5 FEET SOUTH OF DRIVEWAY NUMBER 4835, 19.7 FEET EAST-NORTHEAST OF A RIGHT-OF-WAY POST, 1.5 FEET EAST OF A WITNESS POST.

Station Pair: 6927 E RESET - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1265. 683 0. 016	385. 781 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.764 12B = -94.754 09 = -94.659 03 = -94.557

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FALBO-DR5178-3W-10OCT2017.jpg	W	Oct 10, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FALBO-DR5178-2-10OCT2017.jpg		Oct 10, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FALBO-DR5178-1-10OCT2017.jpg		Oct 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108544.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108544.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108317

FELTY

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FELTY

NGS Name: FELTY

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	22	55 N	17 W	471347.42	922912.19	2	3

NGS ACRN: [DR1842](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: FELTY 2017

4.2 MILES NORTH OF COTTON, 4.35 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 43.30, 27.4 FEET WEST-NORTHWEST OF NORTHBOUND TRUNK HIGHWAY 53, 56.5 FEET EAST-SOUTHEAST OF SOUTHBOUND TRUNK HIGHWAY 53, 5.0 FEET EAST-SOUTHEAST OF A WITNESS POST.

Station Notes

THIS STATION MAY HAVE BEEN REMOVED.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1345.007	0.016	409.959	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -97.808 12B = -97.805 09 = -97.733 03 = -97.542

*** No Horizontal Positions in the Database ***

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FELTY-DR1842-3W-18OCT2017.jpg	W	Oct 18, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FELTY-DR1842-2-18OCT2017.jpg		Oct 18, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FELTY-DR1842-1-18OCT2017.jpg		Oct 18, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108317.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108317.pdf



Geodetic Data Sheet (Brief)
GSID Station # 40566

FINE MNDT

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FINE MNDT

NGS Name: FINE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9553](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	33	50 N	20 W	464648.01	925255.24	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	SURVEY DISK	MNDT

Description: (1999) **Stamping:** FINE 1999

7.0 MILES NORTH OF CROMWELL, 7.0 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 210 IN CROMWELL, AT TRUNK HIGHWAY 73 MILEPOINT 32.20, 66.0 FEET EAST OF TRUNK HIGHWAY 73, 151.2 FEET NORTH-NORTHWEST OF A POWER POLE, 2.0 FEET WEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1330.381 0.016	405.501 0.005	2/1	2004 00000464

Geoid Separations(ft): GEOID18 = -93.924 12B = -93.914 09 = -93.825 03 = -93.720

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 46 48.00669	92 52 55.24462	391753.215	147715.073	119406.619	45023.644	376.874		2012	GPS2800
NAD83 (2007)	46 46 48.00682	92 52 55.24547	391753.156	147715.086	119406.601	45023.648	376.902		2007	GPS2300
NAD83 (1996)	46 46 48.00652	92 52 55.24511	391753.181	147715.056	119406.608	45023.639	376.932	C	2003	GPS1769

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40566.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40566.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FINE MNDT RESET

NGS Name: FINE RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5190](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	33	50 N	20 W	464648.01	925255.25	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: FINE 1999 2017

7.0 MILES NORTH OF CROMWELL, 7.0 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 210 IN CROMWELL, AT TRUNK HIGHWAY 73 MILEPOINT 32.20, 66.0 FEET EAST OF TRUNK HIGHWAY 73, 240.1 FEET SOUTH OF WILSON ROAD, 13.2 FEET NORTHWEST OF A POWER POLE, 1.0 FOOT WEST OF A WITNESS POST.

Station Pair: POINET MNDT RESET - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1330.099	0.016	405.415	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -93.924 12B = -93.914 09 = -93.825 03 = -93.720

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FINE_RESET-DR5190-3E-06SEP2017.jpg	E	Sep 6, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FINE_RESET-DR5190-2-06SEP2017.jpg		Sep 6, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FINE_RESET-DR5190-1-06SEP2017.jpg		Sep 6, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108214.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108214.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FLOOD MNDT

NGS Name: FLOOD

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0653](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/1073
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	17	51 N	20 W	465438.24	925359.81	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1999	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	VERTICAL CONTROL DISK	MNDT

Description: (1999) **Stamping:** FLOOD 1974

1.5 MILES SOUTHEAST OF FLOODWOOD, 0.9 MILE SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73, AT TRUNK HIGHWAY 2 MILEPOINT 221.9, 89.7 FEET NORTHWEST OF TRUNK HIGHWAY 2, 54.0 FEET EAST-SOUTHEAST OF A POWER POLE NUMBER 12801, 3.6 FEET EAST OF A WITNESS POST, 109.90 FEET NORTHWEST OF FLOOD MNDT RM 1, 61.56 FEET NORTH-NORTHEAST OF FLOOD MNDT RM 2, THE MONUMENT WAS BROKEN, THE DISK WAS REMOVED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1279.925	0.016	390.122	0.005	2/0	1991	00000025
NGVD29	1279.361	0.016	389.950	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.213 12B = -95.197 09 = -95.115 03 = -95.003

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 54 38.24359	92 53 59.81371	387532.629	195383.093	118120.182	59552.886	361.151	2	1999	17648
NAD83 (1986)	46 54 38.23681	92 53 59.81635	387532.442	195382.408	118120.125	59552.677		2	1986	17289
NAD27	46 54 38.43891	92 53 59.09723						2	1977	15924

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28245.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28245.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FLOOD MNDT RM 1

NGS Name: FLOOD RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0655](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	17	51 N	20 W	465437.41	925358.80	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 12 IN.	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ROCK (0 TO 1 METERS)	REFERENCE MARK DISK	MNDT

Description: (2001)

Stamping: FLOOD NO 1 1974

1.5 MILES SOUTHEAST OF FLOODWOOD, 0.9 MILE SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 (THE JUNCTION IS 0.5 MILE SOUTHEAST OF FLOODWOOD), AT TRUNK HIGHWAY 2 MILEPOINT 121.95, 80.6 FEET EAST OF FLOOD MNDT RM 2, 86.9 FEET SOUTHWEST OF TRUNK HIGHWAY 2, 31.4 FEET NORTH OF A TELEPHONE PEDESTAL NUMBER E 200 5, 2.1 FEET NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1281. 218	0. 016	390. 516	0. 005	2/1	2021	00000963
NGVD29	1280. 634	0. 016	390. 338	0. 005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.210 12B = -95.193 09 = -95.115 03 = -95.003

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLOOD_RM_1-RN0655-3SW-24JUL2017.jpg	SW	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLOOD_RM_1-RN0655-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLOOD_RM_1-RN0655-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28246.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28246.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FLOOD MNDT RM 2

NGS Name: FLOOD RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0654](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	17	51 N	20 W	465437.64	925359.92	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 7 IN.	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ROCK (0 TO 1 METERS)	REFERENCE MARK DISK	MNDT

Description: (2001)

Stamping: FLOOD NO 2 1974

1.5 MILES SOUTHEAST OF FLOODWOOD, 0.9 MILE SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 (THE JUNCTION IS 0.5 MILE SOUTHEAST OF FLOODWOOD), 80.6 FEET WEST OF FLOOD MNDT RM 1, 132.5 FEET SOUTHWEST OF TRUNK HIGHWAY 2, 28.2 FEET SOUTHWEST OF A SOUTHEAST/NORTHWEST FENCE, 3.1 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1280.244	0.016	390.219	0.005	2/1	2021	00000963
NGVD29	1279.650	0.016	390.038	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.213 12B = -95.193 09 = -95.115 03 = -95.003

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLOOD_RM_2-RN0654-3SW-24JUL2017.jpg	SW	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLOOD_RM_2-RN0654-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLOOD_RM_2-RN0654-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28247.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28247.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FLOODWOOD

NGS Name: FLOODWOOD

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0647](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/1011
USGS Quad: FLOODWOOD

1/4	Sec	Twp	Rng	Reference	Reference	Vert	Horz
				Latitude	Longitude	Order	Order
SE	6	51 N	20 W	465544.42	925510.98	2	1

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1952	2017	GOOD	Horz=NO Vert=YES	YES		RECESSED 2 IN.	STEEL SPIKE ADJ TO MON

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

Description: (2001) **Stamping:** FLOODWOOD 1952

IN FLOODWOOD, 0.2 MILE NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND THE WEST JUNCTION OF TRUNK HIGHWAY 73, ACROSS FROM A HIGHWAY GARAGE, JUST NORTH OF A FLOODWOOD LOOKOUT TOWER, 58.6 FEET NORTHWEST OF THE NORTHWEST CORNER OF A TOWER, 79.1 FEET SOUTHWEST OF A RAILROAD STATION, 114.2 FEET SOUTH-SOUTHWEST OF FLOODWOOD RM 1, 76.76 FEET NORTH-NORTHWEST OF STATION C 271, 3.1 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1250.506	0.016	381.155	0.005	2/1	2021	00000963
NGVD29	1249.906	0.016	380.972	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.374 12B = -95.354 09 = -95.279 03 = -95.164

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (1996)	46 55 44.41955	92 55 10.97664	382631.855	202116.855	116626.423	61605.341	352.118	1	1999	17648
NAD83 (1986)	46 55 44.41290	92 55 10.97934	382631.664	202116.182	116626.365	61605.136		1	1986	17289
NAD27	46 55 44.61700	92 55 10.25700						1	1954	10724

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLOODWOOD-RN0647-3SW-10JUL2017.jpg	SW	Jul 10, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLOODWOOD-RN0647-2-10JUL2017.jpg		Jul 10, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLOODWOOD-RN0647-1-10JUL2017.jpg		Jul 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28248.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28248.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FLOODWOOD AZ MK

NGS Name: FLOODWOOD AZ MK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0650](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/1011
USGS Quad: FLOODWOOD

1/4	Sec	Twp	Rng	Reference	Reference	Vert	Horz
				Latitude	Longitude	Order	Order
SE	6	51 N	20 W	465542.01	925500.38	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1952	2017	GOOD	Horz=NO Vert=NO	YES		RECESSED 2 IN.	STEEL SPIKE ADJ TO MON

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	NGS

Description: (2001)

Stamping: FLOODWOOD 1952

IN FLOODWOOD, 0.05 MILE NORTH OF THE JUNCTION OF PINE STREET AND 6TH AVENUE, 175.7 FEET NORTH-NORTHWEST OF THE JUNCTION OF 6TH AVENUE AND PINE STREET, 24.0 FEET SOUTH OF A DRIVEWAY, 5.6 FEET SOUTH OF THE WEST END OF A METAL CULVERT, 46.6 FEET WEST-NORTHWEST OF THE NORTHWEST CORNER OF A MINNESOTA HIGHWAY DEPARTMENT GARAGE, 96.0 FEET EAST OF A SMALL CREEK, 4.7 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1242. 517	0. 016	378. 720	0. 005	2/0	1991	00000025
NGVD29	1241. 966	0. 016	378. 552	0. 005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.371 12B = -95.351 09 = -95.275 03 = -95.161

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (1996)	46 55 42. 02249	92 55 00. 38378	383365. 635	201869. 599	116850. 079	61529. 977	349. 700	3	1999	17648
NAD83 (1986)	46 55 42. 01580	92 55 00. 38653	383365. 440	201868. 922	116850. 020	61529. 771		3	1986	17289
NAD27	46 55 42. 21967	92 54 59. 66464						3	1977	15924

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLOODWOOD_AZ_MK-RN0650-3W-10JUL2017.jpg	W	Jul 10, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLOODWOOD_AZ_MK-RN0650-2-10JUL2017.jpg		Jul 10, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLOODWOOD_AZ_MK-RN0650-1-10JUL2017.jpg		Jul 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28249.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28249.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FLOODWOOD CREAMERY STACK

NGS Name: FLOODWOOD CREAMERY STACK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1685](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/1025
USGS Quad: FLOODWOOD

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	6	51 N	20 W	465532.48	925444.27		4

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1952	2017	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

Monument Type	Disk Type	Mon. Agency
SEE DESCRIPTIVE TEXT	STACK	NGS

Description: (1952)

Stamping:

AT SOUTHEAST EDGE OF FLOODWOOD, 0.05 MILE EAST OF TRUNK HIGHWAY 73.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.348 12B = -95.328 09 = -95.252 03 = -95.138

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (1996)	46 55 32. 47605	92 54 44. 27243	384478. 197	200895. 750	117189. 189	61233. 147		4	1999	17648
NAD83 (1986)	46 55 32. 46976	92 54 44. 27551	384477. 979	200895. 114	117189. 123	61232. 953		4	1986	17289
NAD27	46 55 32. 67100	92 54 43. 55600						4	1954	10724

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLOODWOOD_CREAMERY_STACK-RN1685-3NW-10JUL2017.jpg	NW	Jul 10, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28250.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28250.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FLOODWOOD GRAVITY

NGS Name: FLOODWOOD

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 46092444/

USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	6	51 N	20 W	465540.80	925506.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1973	2008	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

SEE DESCRIPTIVE TEXT

Disk Type

SEE DESCRIPTION

Mon. Agency

UNK

Description: (2019)

Stamping:

AT FLOODWOOD, ST. LOUIS COUNTY, AT THE GREAT NORTHERN RAILROAD DEPOT, ON THE SOUTHEAST SIDE, AT TRACK LEVEL.

Station Notes

GRAVITY VALUE: G=980 668.70 +/-0.1 MGAL

NOAA 07-01-1973.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.364 12B = -95.348 09 = -95.272 03 = -95.157

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_80453.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_80453.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FLOODWOOD LOOKOUT TOWER

NGS Name: FLOODWOOD LOOKOUT TOWER

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1686](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/1026
USGS Quad: FLOODWOOD

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	6	51 N	20 W	465543.81	925510.38		4

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1952	2017	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

Monument Type	Disk Type	Mon. Agency
SEE DESCRIPTIVE TEXT	LOOKOUT TOWER	NGS

Description: (1952)

Stamping:

IN THE NORTHWEST PART OF FLOODWOOD, NEAR A RAILROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.374 12B = -95.354 09 = -95.279 03 = -95.164

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (1996)	46 55 43.80683	92 55 10.38262	382672.713	202054.528	116638.876	61586.343		4	1999	17648
NAD83 (1986)	46 55 43.80066	92 55 10.38564	382672.500	202053.905	116638.811	61586.153		4	1986	17289
NAD27	46 55 44.00800	92 55 09.66000						4	1954	10724

Station Photos

Type	File Name	Dir	Date
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLOODWOOD_LOOKOUT_TOWER-RN1686-1-10JUL2017.jpg		Jul 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28251.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28251.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FLOODWOOD MUNICIPAL TANK

NGS Name: FLOODWOOD MUNICIPAL TANK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1684](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/1027
USGS Quad: FLOODWOOD

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	7	51 N	20 W	465530.24	925454.59		4

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1952	2017	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

Monument Type	Disk Type	Mon. Agency
SEE DESCRIPTIVE TEXT	LOOKOUT TOWER	NGS

Description: (1952)

Stamping:

IN THE SOUTHEAST PART OF FLOODWOOD, 50.0 FEET EAST OF A RAILROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.338 12B = -95.321 09 = -95.246 03 = -95.131

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (1996)	46 55 30.23548	92 54 54.59005	383760.684	200672.977	116970.490	61165.246		4	1999	17648
NAD83 (1986)	46 55 30.22926	92 54 54.59308	383760.469	200672.348	116970.425	61165.054		4	1986	17289
NAD27	46 55 30.43600	92 54 53.87600						4	1954	10724

Station Photos

Type	File Name	Dir	Date
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLOODWOOD_MUNICIPAL_TANK-RN1684-1-10JUL2017.jpg		Jul 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28252.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28252.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FLOODWOOD RM 1

NGS Name: FLOODWOOD RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0649](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	6	51 N	20 W	465545.52	925510.68	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2017	GOOD	Horz=NO Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

Description: (1999) **Stamping:** FLOODWOOD NO 1 1952

IN FLOODWOOD, ACROSS THE STREET FROM A HIGHWAY GARAGE, NORTH OF THE FLOODWOOD LOOKOUT TOWER, 114.2 FEET NORTH-NORTHEAST OF STATION FLOODWOOD, 40.0 FEET SOUTH OF THE SOUTHWEST CORNER OF A GARAGE, 19.0 FEET NORTHEAST OF STATION FLOODWOOD, 3.5 FEET NORTHWEST OF A POWER POLE, 1.6 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1247.835	0.016	380.341	0.005	2/1	2021	00000963
NGVD29	1247.255	0.016	380.164	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.377 12B = -95.357 09 = -95.282 03 = -95.167

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLOODWOOD_RM_1-RN0649-3W-10JUL2017.jpg	W	Jul 10, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLOODWOOD_RM_1-RN0649-2-10JUL2017.jpg		Jul 10, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLOODWOOD_RM_1-RN0649-1-10JUL2017.jpg		Jul 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28253.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28253.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107996

FLYNN

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FLYNN

NGS Name: FLYNN

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9928](#) [Get Map](#)
NGS Quad / Sta Num : 46093111/
USGS Quad: ISLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	21	52 N	21 W	465845.74	930003.60	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 29 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** FLYNN 2017

5.5 MILES NORTHWEST OF FLOODWOOD, 5.65 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 215.05, 45.4 FEET NORTHEAST OF TRUNK HIGHWAY 2, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Station Pair: WALLIN - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1264. 302 0. 016	385. 360 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.777 12B = -95.768 09 = -95.699 03 = -95.561

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLYNN-DQ9928-3NE-07AUG2017.jpg	NE	Aug 7, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLYNN-DQ9928-2-07AUG2017.jpg		Aug 7, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FLYNN-DQ9928-1-07AUG2017.jpg		Aug 7, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107996.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107996.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108315

FOSTER

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FOSTER

NGS Name: FOSTER

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1850](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	54 N	17 W	471008.28	922835.92	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 17 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: FOSTER 2017

IN COTTON, AT THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 38.95, 53.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 76.7 FEET SOUTH OF COUNTY ROAD 52, 22.5 FEET EAST OF OLD TRUNK HIGHWAY 53, 1.5 FEET WEST OF A WITNESS POST.

Station Pair: GRYTAL MNDT RESET - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1329. 633 0. 016	405. 273 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.382 12B = -97.378 09 = -97.277 03 = -97.080

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FOSTER-DR1850-3W-17OCT2017.jpg	W	Oct 17, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FOSTER-DR1850-2-17OCT2017.jpg		Oct 17, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FOSTER-DR1850-1-17OCT2017.jpg		Oct 17, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108315.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108315.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107902

FUNDY

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FUNDY

NGS Name: FUNDY

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9904](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	34	51 N	19 W	465115.75	924329.96	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 31 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** FUNDY 2017

10.2 MILES EAST-SOUTHEAST OF FLOODWOOD, 11.0 MILES SOUTHEAST AND EAST ALONG TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 232.10, 72.8 FEET NORTH OF TRUNK HIGHWAY 2, 33.1 FEET EAST-SOUTHEAST OF A POWER POLE NUMBER GL90, 29.4 FEET SOUTH OF A FENCE LINE, 1.5 FEET SOUTH OF A WITNESS POST.

Station Pair: SAHA - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1363. 140 0. 016	415. 486 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.675 12B = -94.662 09 = -94.583 03 = -94.455

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FUNDY-DQ9904-3N-07AUG2017.jpg	N	Aug 7, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FUNDY-DQ9904-2-07AUG2017.jpg		Aug 7, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/FUNDY-DQ9904-1-07AUG2017.jpg		Aug 7, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107902.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107902.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: G 159

NGS Name: G 159

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0299](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	10	53 N	17 W	470512.00	922823.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1978	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1978)

Stamping: G 159 1935

3.25 MILES NORTH OF CANYON, 3.23 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1355.548	0.016	413.172	0.005	2/0	1991	00000025
NGVD29	1354.997	0.007	413.004	0.002	1	1935	L63 MINN

Geoid Separations(ft): GEOID18 = -96.630 12B = -96.640 09 = -96.496 03 = -96.302

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28262.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28262.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28268

G 165

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: G 165

NGS Name: G 165

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0165](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	54 N	17 W	471006.67	922836.59	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1963	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1963)

Stamping: G 165 1935

9.0 MILES NORTH OF CANYON, 9.0 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND TRUNK HIGHWAY 152 IN CANYON.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1329. 223	0. 016	405. 148	0. 005	2/0	1991	00000025
NGVD29	1328. 603	0. 007	404. 959	0. 002	1	1935	L63 MINN

Geoid Separations(ft): GEOID18 = -97.378 12B = -97.375 09 = -97.273 03 = -97.378

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	47 10 06. 66634	92 28 36. 59212	493325. 547	289130. 721	150365. 928	88127. 220		3	1999	17648
NAD83 (1986)	47 10 06. 66513	92 28 36. 59488	493325. 357	289130. 598	150365. 869	88127. 183		3	1986	17289
NAD27	47 10 06. 89600	92 28 35. 91500						3	1986	10744

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28268.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28268.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28269

G 165 RESET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: G 165 RESET

NGS Name: G 165 RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0166](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/1004
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	54 N	17 W	471009.00	922835.00	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2017	NOT FOUND	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1963) **Stamping:** G 165 RESET 1963

IN COTTON, IN THE SOUTHWEST QUADRANT OF THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52, AT THE NORTHEAST CORNER OF A SCHOOLYARD, 43.0 FEET WEST OF OLD TRUNK HIGHWAY 53, 91.20 FEET SOUTH OF STATION COTTON 2.

Station Notes

THE MARK IS ASSUMED REMOVED DUE TO DITCH WORK.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1329.643	0.016	405.276	0.005	2/1	2012	00000702
NGVD29	1328.757	0.007	405.006	0.002	1	1963	L63 MINN

Geoid Separations(ft): GEOID18 = -97.378 12B = -97.375 09 = -97.273 03 = -97.077

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (1996)	47 10 06.66634	92 28 36.59212	493325.547	289130.721	150365.928	88127.220	375.537	3	1999	17648
NAD83 (1986)	47 10 06.66513	92 28 36.59488	493325.355	289130.600	150365.869	88127.183			1991	H1991
NAD27	47 10 06.89600	92 28 35.91500							1950	UNK

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28269.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28269.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28293

G 271

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: G 271

NGS Name: G 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0691](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	22	52 N	18 W	465837.19	923548.49	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (2019)

Stamping: G 271 1948

1.15 MILES WEST ON COUNTY ROAD 47 FROM THE POST OFFICE AT ALBORN, 29.0 FEET NORTH OF COUNTY ROAD 47, AT THE EAST END OF A SMALL S-CURVE, 5.0 FEET WEST OF A DIM FARM ROAD SOUTH EXTENDED, 15.5 FEET EAST OF A POWER POLE, 2.0 FEET WEST OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1355.503	0.016	413.158	0.005	2/0	1991	00000025
NGVD29	1354.968	0.016	412.995	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.800 12B = -95.790 09 = -95.676 03 = -95.508

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28293.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28293.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28294

G 272

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: G 272

NGS Name: G 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0541](#) [Get Map](#)
NGS Quad / Sta Num : 47092323/
USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	34	53 N	19 W	470222.89	924435.94	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=? Vert=YES	NO		PROJECTS 5 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** G 272 1948

2.55 MILES SOUTHWEST OF MEADOWLANDS, 2.05 MILES SOUTH ON COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 133 AND COUNTY ROAD 5, 317.0 FEET SOUTH OF COUNTY ROAD 29 WEST, 220.0 FEET NORTH OF THE NORTHEAST CORNER OF A COUNTY ROAD 5 BRIDGE OVER THE WHITEFACE RIVER, 44.0 FEET EAST OF COUNTY ROAD 5, 28.0 FEET SOUTH OF A FENCE CORNER, 64.0 FEET SOUTH OF A POWER POLE, 19.0 FEET SOUTH OF A DIM ROAD EAST, 2.0 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1265.696	0.016	385.785	0.005	2/0	1991	00000025
NGVD29	1265.086	0.016	385.599	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.483 12B = -96.476 09 = -96.384 03 = -96.214

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28294.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28294.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28295

G 273

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: G 273

NGS Name: G 273

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0716](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	32	52 N	20 W	465639.77	925430.47	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 6 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2001) **Stamping:** G 273 1948

0.9 MILE NORTH OF FLOODWOOD, 1.5 MILES NORTH ON TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, 0.4 MILE SOUTH ON TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND COUNTY ROAD 29, AT TRUNK HIGHWAY 73 MILEPOINT 44.6, 39.0 FEET WEST OF TRUNK HIGHWAY 73, 18.0 FEET NORTHWEST OF THE NORTH END OF A METAL CULVERT, 4.6 FEET WEST-NORTHWEST OF A POWER POLE, 25.0 FEET NORTH OF AN ENTRANCE, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1251.510	0.016	381.461	0.005	2/1	2021	00000963
NGVD29	1250.552	0.016	381.169	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.521 12B = -95.505 09 = -95.433 03 = -95.311

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 56 39.76971	92 54 30.47432	385475.825	207708.170	117493.266	63309.577	352.321		2012	GPS2800
NAD83 (2007)	46 56 39.76979	92 54 30.47518	385475.765	207708.178	117493.248	63309.579	352.349		2007	GPS2300
NAD83 (1996)	46 56 39.76958	92 54 30.47467	385475.800	207708.157	117493.259	63309.573	352.366	C	2003	GPS1769

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/G_273-RN0716-3W-10JUL2017.jpg	W	Jul 10, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/G_273-RN0716-2-10JUL2017.jpg		Jul 10, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/G_273-RN0716-1-10JUL2017.jpg		Jul 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28295.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: G 275

NGS Name: G 275

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0483](#) [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	11	54 N	20 W	471002.21	925107.57	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2020	POOR	Horz=NO Vert=NO	NO		PROJECTS 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** G 275 1948

2.0 MILES WEST ON COUNTY ROAD 317 FROM THE JUNCTION OF COUNTY ROAD 317 AND COUNTY ROAD 5 AT TOIVOLA,
1.1 MILES EAST OF THE RAILROAD STATION, AT THE CROSSROADS, 33.0 FEET NORTH OF AN EAST-WEST ROAD, EAST OF A
CROSSROAD, 166.0 FEET WEST OF A FARM ROAD SOUTH, 1.5 FEET SOUTH OF A FENCE, 2.0 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1286.349	0.016	392.080	0.005	2/0	1991	00000025
NGVD29	1285.696	0.016	391.881	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.408 12B = -97.408 09 = -97.346 03 = -97.152

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28296.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28296.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28297

G 276

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: G 276

NGS Name: G 276

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0387](#) [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	1	54 N	20 W	471053.70	924839.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	GOOD	Horz=YES Vert=YES	YES		PROJECTS 1 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2007) **Stamping:** G 276 1948

1.25 MILES NORTH OF THE HIGH SCHOOL AT TOIVOLA, AT THE JUNCTION OF COUNTY ROAD 5 AND COUNTY ROAD 743,
 85.8 FEET EAST OF A GUYED POWER POLE, 33.0 FEET WEST OF COUNTY ROAD 5, 34.0 FEET NORTH OF COUNTY ROAD 743,
 9.9 FEET SOUTH OF A TELEPHONE PEDESTAL NUMBER B58, 0.2 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1290. 572	0. 016	393. 367	0. 005	2/1	2012	00000702
NGVD29	1289. 899	0. 016	393. 162	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.549 12B = -97.546 09 = -97.480 03 = -97.293

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/G_276-SJ0387-3W-23MAY2007.jpg	W	May 23, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/G_276-SJ0387-2-23MAY2007.jpg		May 23, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/G_276-SJ0387-1-23MAY2007.jpg		May 23, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28297.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28299

G 279

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: G 279

NGS Name: G 279

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1319](#) [Get Map](#)
NGS Quad / Sta Num : 47093212/
USGS Quad: SILICA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	6	55 N	21 W	471651.49	930249.50	1	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** G 279 1948

1.65 MILES NORTHWEST ON A RAILROAD FROM THE RAILROAD STATION AT SILICA, AT A ROAD CROSSING, 0.35 MILE SOUTHEAST OF RAILROAD MILEPOST 32, 50.0 FEET SOUTHEAST OF A GRAVEL ROAD, 69.0 FEET SOUTHWEST OF THE SOUTHWEST RAIL OF THE RAILROAD TRACKS, 4.0 FEET NORTH OF A RIGHT-OF-WAY FENCE, 59.0 FEET SOUTH OF A RAILROAD CROSSING SIGN, 2.0 FEET NORTH OF A WITNESS POST.

Station Notes

FOUND THE CONCRETE BASE BUT NO DISK.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	Orthometric (Feet)		Orthometric (Meters)		Survey <u>Order/(Class)</u>	Project Info	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1373.892	0.007	418.763	0.002	1	1993	POSTED
NGVD29	1373.127	0.007	418.530	0.002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -97.260 12B = -97.283 09 = -97.165 03 = -97.103

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/G_279-SJ1319-1-11JUL2017.jpg		Jul 11, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28299.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: G 30

NGS Name: G 30

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0689](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	23	51 N	18 W	465351.00	923459.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1974	NOT FOUND	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1974) **Stamping:** G 30 1934

2.8 MILES SOUTHWEST OF CULVER, AT THE JUNCTION OF COUNTY ROAD 31 AND COUNTY ROAD 866, IN A DITCH
BOTTOM, 20.0 FEET SOUTH OF A HIGHWAY.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1270.083	0.016	387.122	0.005	2/0	1991	00000025
NGVD29	1269.538	0.016	386.956	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.019 12B = -95.016 09 = -94.911 03 = -94.744

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28312.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28312.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28323

GAIL MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GAIL MNDT

NGS Name: GAIL

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1045](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	26	52 N	17 W	465721.29	922723.16	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

HORIZONTAL CONTROL DISK

Mon. Agency

MNDT

Description: (1999)

Stamping: GAIL 1978

16.5 MILES NORTH OF CLOQUET, AT THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 53 (THE JUNCTION IS 16.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 19.35, NEAR THE NORTHWEST CORNER OF A TRUNK HIGHWAY 33 BRIDGE OVER TRUNK HIGHWAY 53, 82.5 FEET NORTH-NORTHWEST OF TRUNK HIGHWAY 33, ON A CURVE, 142.5 FEET EAST-SOUTHEAST OF SOUTHBOUND TRUNK HIGHWAY 53, 56.93 FEET SOUTH-SOUTHWEST OF GAIL RM 1, 47.00 FEET EAST-SOUTHEAST OF GAIL RM 2, 1.0 FEET SOUTH-SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1348.984	0.016	411.171	0.005	2/1	2021	00000963
NGVD29	1348.603	0.016	411.055	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -95.344 12B = -95.338 09 = -95.213 03 = -95.016

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 57 21.29141	92 27 23.16207	498393.152	211580.328	151910.536	64489.813	382.109		2012	GPS2800
NAD83 (2007)	46 57 21.29150	92 27 23.16295	498393.090	211580.338	151910.518	64489.816	382.136		2007	GPS2300
NAD83 (1996)	46 57 21.29118	92 27 23.16281	498393.100	211580.305	151910.521	64489.806	382.169	C	2003	GPS1848
NAD83 (1986)	46 57 21.28635	92 27 23.16079	498393.240	211579.816	151910.563	64489.657		2	1986	17289
NAD27	46 57 21.50159	92 27 22.47569						2	1980	16254

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GAIL-RN1045-3N-02AUG2017.jpg	N	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GAIL-RN1045-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GAIL-RN1045-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28323.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28323.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28324

GAIL MNDT AZ MK

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GAIL MNDT AZ MK

NGS Name: GAIL AZ MK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1050](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	35	52 N	17 W	465709.43	922711.71	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 6 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	MNDT

Description: (1978) **Stamping:** GAIL 1978

6.2 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 AT CANYON, 0.3 MILE SOUTHEAST ON TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND TRUNK HIGHWAY 33 IN INDEPENDENCE, 62.2 FEET SOUTHWEST OF SOUTHBOUND TRUNK HIGHWAY 53, AT TRUNK HIGHWAY 53 MILEPOINT 23.8, 92.8 FEET SOUTHEAST OF A TELEPHONE CABLE MARKER NUMBER B 153 LP7, 4.6 FEET NORTHWEST OF A POWER POLE WITH A GUY WIRE, 3.2 FEET NORTHEAST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1360.840	0.016	414.785	0.005	2/1	2012	00000702
NGVD29	1360.266	0.016	414.610	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -95.302 12B = -95.298 09 = -95.174 03 = -94.977

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (1996)	46 57 09.42903	92 27 11.71150	499187.475	210378.385	152152.647	64123.460	385.709	3	1999	17648
NAD83 (1986)	46 57 09.42305	92 27 11.71270	499187.392	210377.779	152152.621	64123.275		3	1986	17289
NAD27	46 57 09.63835	92 27 11.02781						3	1980	16254

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28324.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28324.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GAIL RM 1

NGS Name: GAIL RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1047](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	26	52 N	17 W	465721.72	922722.63	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (1978)

Stamping: GAIL NO 1 1978

16.5 MILES NORTH OF CLOQUET, AT THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 53 (THE JUNCTION IS 16.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 19.35, 58.0 FEET NORTHWEST OF NORTHBOUND TRUNK HIGHWAY 33, AT TRUNK HIGHWAY 33 MILEPOINT 19.35, 57.0 FEET NORTH-NORTHEAST OF STATION GAIL MNDT, 72.6 FEET EAST-NORTHEAST OF GAIL RM 2, 1.0 FOOT EAST-SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1350.027	0.016	411.489	0.005	2/1	2021	00000963
NGVD29	1349.715	0.016	411.394	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -95.344 12B = -95.341 09 = -95.213 03 = -95.019

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GAIL_RM_1-RN1047-3W-02AUG2017.jpg	W	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GAIL_RM_1-RN1047-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GAIL_RM_1-RN1047-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28325.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28325.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GAIL RM 2

NGS Name: GAIL RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1046](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	26	52 N	17 W	465721.35	922723.79	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (1978)

Stamping: GAIL NO 2 1978

16.5 MILES NORTH OF CLOQUET, AT THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 53 (THE JUNCTION IS 16.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 19.35, 122.0 FEET NORTH-NORTHWEST OF NORTHBOUND TRUNK HIGHWAY 33, 47.0 FEET WEST-SOUTHWEST OF STATION GAIL MNDT, 72.6 FEET WEST-SOUTHWEST OF GAIL RM 1, 1.0 FEET SOUTH-SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1347.829	0.016	410.819	0.005	2/1	2021	00000963
NGVD29	1347.494	0.016	410.717	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -95.344 12B = -95.341 09 = -95.213 03 = -95.019

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GAIL_RM_2-RN1046-3N-02AUG2017.jpg	N	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GAIL_RM_2-RN1046-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GAIL_RM_2-RN1046-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28326.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28326.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GARG MNDT

NGS Name: GARG

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF9115](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	4	54 N	21 W	471133.64	930120.34		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2017	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 70 FT)	SURVEY DISK	MNDT

Description: (2001) **Stamping:** GARG 2001

15.0 MILES SOUTH OF HIBBING, 15.2 FEET SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 63.5, 62.4 FEET WEST OF TRUNK HIGHWAY 73, 54.3 FEET NORTH OF COUNTY ROAD 18, 2.9 FEET NORTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.073 12B = -97.077 09 = -97.011 03 = -96.873

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 11 33. 63950	93 01 20. 33897	357697. 510	298461. 538	109026. 419	90971. 259	372. 450				2012	GPS2800
NAD83 (2007)	47 11 33. 63932	93 01 20. 33979	357697. 454	298461. 520	109026. 402	90971. 253	372. 477				2007	GPS2300
NAD83 (1996)	47 11 33. 63915	93 01 20. 33951	357697. 473	298461. 503	109026. 408	90971. 248	372. 491	C			2010	HASCA

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GARG-DF9115-3W-19NOV2009.jpg	W	Nov 19, 2009
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GARG-DF9115-2-19NOV2009.jpg		Nov 19, 2009
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GARG-DF9115-1-12JUL2017.jpg		Jul 12, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41687.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41687.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GARG MNDT RESET

NGS Name: GARG RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5147](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	4	54 N	21 W	471133.64	930120.34	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 70 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** GARG 2001 2017

15.0 MILES SOUTH OF HIBBING, 15.2 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 63.5, 62.4 FEET WEST OF TRUNK HIGHWAY 73, 54.3 FEET NORTH OF COUNTY ROAD 18, 2.9 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1318.892 0.016	401.999 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.073 12B = -97.077 09 = -97.011 03 = -96.873

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GARG_RESET-DR5147-3W-12JUL2017.jpg	W	Jul 12, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GARG_RESET-DR5147-2-12JUL2017.jpg		Jul 12, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GARG_RESET-DR5147-1-12JUL2017.jpg		Jul 12, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107860.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107860.pdf



Geodetic Data Sheet (Brief)
GSID Station # 42624

GOW 2 MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GOW 2 MNDT

NGS Name: GOW 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DG4244](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	34	51 N	20 W	465200.92	925100.81	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	HORIZONTAL CONTROL DISK	MNDT

Description: (2003)

Stamping: GOW 2 1977

4.75 MILES SOUTHEAST OF FLOODWOOD, 4.65 MILES SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 (THE JUNCTION IS 0.5 MILE SOUTHEAST OF FLOODWOOD), AT TRUNK HIGHWAY 2 MILEPOINT 225.75, 77.0 FEET NORTHWEST OF TRUNK HIGHWAY 2, 59.4 FEET NORTHWEST OF A CABLE MARKER POST, 67.6 FEET SOUTH OF STATION 6907 T, 2.7 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1253. 455 0. 016	382. 054 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.826 12B = -94.810 09 = -94.724 03 = -94.609

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 52 00. 92184	92 51 00. 80807	399879. 911	179376. 262	121883. 641	54673. 994	353. 156		2012	GPS2800
NAD83 (2007)	46 52 00. 92195	92 51 00. 80891	399879. 852	179376. 274	121883. 623	54673. 998	353. 183		2007	GPS2300
NAD83 (1996)	46 52 00. 92155	92 51 00. 80853	399879. 879	179376. 233	121883. 631	54673. 985	353. 213	C	2004	GPS1957

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GOW_2-DG4244-3NE-24JUL2017.jpg	NE	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GOW_2-DG4244-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GOW_2-DG4244-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_42624.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_42624.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28354

GOW MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GOW MNDT

NGS Name: GOW

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0668](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/1068
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>				
NE	34	51 N	20 W	465200.55	925100.75	2	2				
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>				
1974	2017	NOT FOUND	Horz=NO Vert=NO	YES		FLUSH	STEEL ROD IMBED IN MON				

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

TRAVERSE STATION DISK

Mon. Agency

MNDT

Description: (1974)

Stamping: GOW 1974

5.2 MILES SOUTHEAST OF FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 225.75, 4.8 MILES SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73, 51.3 FEET NORTHEAST OF TRUNK HIGHWAY 2, 107.5 FEET SOUTH OF A WITNESS POST, 6.4 FEET SOUTHWEST OF A WITNESS POST, 106.37 FEET SOUTH OF STATION 6907 T, 102.31 FEET NORTHEAST OF GOW MNDT RM 2.

Station Notes

THE GEODETIC UNIT COULD NOT FIND THE MARK ON 8-29-01 BUT FOUND MARK GOW 2 MNDT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1255.073	0.016	382.547	0.005	2/0	1991	00000025
NGVD29	1254.466	0.016	382.362	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.823 12B = -94.810 09 = -94.724 03 = -94.606

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u> <u>Latitude</u>	<u>Longitude</u>	<u>County (Feet)</u> <u>X</u>	<u>Y</u>	<u>County (Meters)</u> <u>X</u>	<u>Y</u>	<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 52 00.54976	92 51 00.74972	399883.773	179338.544	121884.818	54662.497	353.698	2	1999	17648
NAD83 (1986)	46 52 00.54318	92 51 00.75145	399883.649	179337.878	121884.780	54662.294		2	1986	17289
NAD27	46 52 00.74348	92 51 00.03545						2	1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GOW-RN0668-3S-24JUL2017.jpg	S	Jul 24, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28354.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GOW MNDT RM 2

NGS Name: GOW RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0669](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	34	51 N	20 W	465159.73	925101.61	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	NOT FOUND	Horz=NO Vert=NO	YES		PROJECTS 4 IN.	STEEL ROD IMBED IN MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

REFERENCE MARK DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: GOW NO 2 1974

5.2 MILES SOUTHEAST OF FLOODWOOD, 4.8 MILES SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73, 0.15 MILE NORTHWEST OF GOWAN, 0.15 MILE NORTHWEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86, AT TRUNK HIGHWAY 2 MILEPOINT 225.8, 49.8 FEET SOUTHWEST OF TRUNK HIGHWAY 2, 10.5 FEET NORTH OF A POWER POLE NUMBER 7, 102.3 FEET SOUTHWEST OF STATION GOW MNDT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1258.482	0.016	383.586	0.005	2/0	1991	00000025
NGVD29	1257.872	0.016	383.400	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.823 12B = -94.806 09 = -94.721 03 = -94.606

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<u>Location:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GOW_RM_2-RN0669-3S-24JUL2017.jpg	S	Jul 24, 2017
<u>Monument:</u>			
<u>Disk:</u>			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28355.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28356

GOWAN

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GOWAN

NGS Name: GOWAN

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0681](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/1013
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	1	50 N	20 W	465104.22	924851.94	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

TRIANGULATION STATION DISK

Mon. Agency

NGS

Description: (2001)

Stamping: GOWAN 1952

2.0 MILES SOUTHEAST OF GOWAN, 1.95 MILES SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86 IN GOWAN, THEN 0.2 MILE SOUTH ON AN ENTRANCE TO A CAMPGROUND, THEN 0.1 MILE WEST ON A TRAIL, 66.24 FEET SOUTH OF GOWAN RM 2, 61.96 FEET NORTHWEST OF GOWAN RM 1, 2.9 FEET EAST OF A WITNESS POST.

Station Notes

GOWAN RM 1 AND GOWAN RM 2 WERE NOT LOOKED FOR IN 2001.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1314. 932	0. 016	400. 792	0. 005	2/1	2021	00000963
NGVD29	1314. 295	0. 016	400. 598	0. 005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.672 12B = -94.659 09 = -94.570 03 = -94.455

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (1996)	46 51 04. 21732	92 48 51. 93674	408808. 256	173587. 445	124605. 006	52909. 559	371. 985	2	1999	17648
NAD83 (1986)	46 51 04. 20982	92 48 51. 93839	408808. 138	173586. 686	124604. 970	52909. 328		2	1986	17289
NAD27	46 51 04. 40900	92 48 51. 22200						2	1954	10724

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GOWAN-RN0681-3S-24JUL2017.jpg	S	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GOWAN-RN0681-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GOWAN-RN0681-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28356.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28357

GOWAN AZ MK

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GOWAN AZ MK

NGS Name: GOWAN AZ MK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0679](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/1013
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	1	50 N	20 W	465107.54	924900.50	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	NGS

Description: (2001) **Stamping:** GOWAN 1952

1.75 MILES SOUTHEAST OF GOWAN, 1.85 MILES SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86, AT TRUNK HIGHWAY 2 MILEPOINT 227.7, 104.0 FEET SOUTH TRUNK HIGHWAY 2, 49.5 FEET SOUTH-SOUTHEAST OF A CABLE MARKER, 12.6 FEET SOUTHEAST OF A POWER POLE NUMBER 8, 10.0 FEET SOUTHEAST OF A RIGHT-OF-WAY AND AN ALIGNMENT POST, 1.0 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1297.924	0.016	395.608	0.005	2/1	2021	00000963
NGVD29	1297.225	0.016	395.395	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.678 12B = -94.665 09 = -94.580 03 = -94.465

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 51 07.53862	92 49 00.49927	408214.660	173926.725	124424.077	53012.972	366.742		2012	GPS2800
NAD83 (2007)	46 51 07.53873	92 49 00.50013	408214.600	173926.736	124424.059	53012.975	366.770		2007	GPS2300
NAD83 (1996)	46 51 07.53829	92 49 00.49972	408214.628	173926.692	124424.068	53012.962	366.811	C	2004	GPS1957
NAD83 (1986)	46 51 07.53307	92 49 00.50395	408214.332	173926.164	124423.977	53012.801		2	1986	17289
NAD27	46 51 07.73234	92 48 59.78761						2	1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GOWAN_AZ_MK-RN0679-3S-24JUL2017.jpg	S	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GOWAN_AZ_MK-RN0679-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GOWAN_AZ_MK-RN0679-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28357.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28358

GOWAN RM 1

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GOWAN RM 1

NGS Name: GOWAN RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0683](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	1	50 N	20 W	465103.95	924851.10	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

Description: (1974)

Stamping: GOWAN NO 1 1952

1.9 MILES SOUTHEAST OF GOWAN, 1.95 MILES SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86, AT TRUNK HIGHWAY 2 MILEPOINT 227.85, THEN 0.2 MILE SOUTH ON AN ENTRANCE TO A CAMPGROUND, THEN 0.1 MILE WEST ALONG A TRAIL, 0.6 FOOT NORTH OF AN EAST-WEST FENCE LINE, 21.2 FEET WEST OF A GATE POST, 62.2 FEET EAST-SOUTHEAST OF STATION GOWAN, 105.2 FEET SOUTHEAST OF GOWAN RM 2.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1315.325	0.016	400.912	0.005	2/1	2021	00000963
NGVD29	1314.666	0.016	400.711	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.668 12B = -94.655 09 = -94.570 03 = -94.455

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GOWAN_RM_1-RN0683-3E-24JUL2017.jpg	E	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GOWAN_RM_1-RN0683-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GOWAN_RM_1-RN0683-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28358.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GOWAN RM 2

NGS Name: GOWAN RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0682](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	1	50 N	20 W	465104.87	924851.89	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1952	2017	GOOD	Horz=NO Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

Description: (1974)

Stamping: GOWAN NO 2 1952

1.9 MILES SOUTHEAST OF GOWAN, 1.95 MILES SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86, AT TRUNK HIGHWAY 2 MILEPOINT 227.85, THEN 0.2 MILE SOUTH ON AN ENTRANCE OF A CAMPGROUND, THEN 0.1 MILE WEST ALONG A TRAIL, 66.7 FEET NORTH OF STATION GOWAN, 105.2 FEET NORTHWEST OF GOWAN RM 1.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1313.957	0.016	400.495	0.005	2/1	2021	00000963
NGVD29	1313.285	0.016	400.290	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.672 12B = -94.659 09 = -94.573 03 = -94.458

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GOWAN_RM_2-RN0682-3S-24JUL2017.jpg	S	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GOWAN_RM_2-RN0682-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GOWAN_RM_2-RN0682-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28359.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28359.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GRAND LAKE ST JOHNS LUTH CH

NGS Name: GRAND LAKE ST JOHNS LUTH CH

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	34	51 N	17 W	465152.00	922813.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SURVEY DISK	MNDT

Description: (1978)

Stamping:

10.1 MILES NORTH OF CLOQUET, 0.60 MILE WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), THEN 1.40 MILES NORTH ON COUNTY ROAD 874 (INDEPENDENCE ROAD), 75.0 FEET WEST OF COUNTY ROAD 874.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.514 12B = -94.508 09 = -94.406 03 = -94.219

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GRAND_LAKE_ST_JOHNS_LUTH_CH-3W-02AUG2017.jpg	W	Aug 2, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28360.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28360.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GREAT MNDT

NGS Name: GREAT

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0757](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/1058
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	31	51 N	18 W	465120.71	924029.25	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1981	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (1981) Stamping: GREAT 1974

IN BROOKSTON, 0.3 MILE EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND STEVENS ROAD IN BROOKSTON.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1348.042	0.016	410.884	0.005	2/0	1991	00000025
NGVD29	1347.419	0.016	410.694	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.678 12B = -94.672 09 = -94.586 03 = -94.445

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 51 20.70852	92 40 29.25144	443754.202	175126.988	135256.551	53378.813	382.077	2	1999	17648
NAD83 (1986)	46 51 20.70200	92 40 29.25317	443754.080	175126.327	135256.514	53378.611		2	1986	17289
NAD27	46 51 20.89934	92 40 28.55260						2	1977	15924

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28365.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28365.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GRYTAL MNDT

NGS Name: GRYTAL

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6504](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u> Horz=NO Vert=NO	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	10	54 N	17 W	471035.12	922838.42	2	C	1992	2017	DESTROYED		NO		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)

Disk Type

HORIZONTAL CONTROL DISK

Mon. Agency

MNDT

Description: (1992)

Stamping: GRYTAL 1992

9.75 MILES NORTH-NORTHEAST FROM CANYON, 0.5 MILE NORTH ON TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 39.45, 59.0 FEET EAST-NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 53, 10.0 FEET SOUTH-SOUTHEAST OF A DRIVEWAY, 102.0 FEET SOUTH OF A POWER POLE, 46.1 FEET WEST OF A RIGHT-OF-WAY POST, 10.9 FEET NORTH-NORTHWEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1326.520	0.016	404.324	0.005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -97.444 12B = -97.441 09 = -97.342 03 = -97.145

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u> <u>Latitude</u>	<u>Longitude</u>	<u>County (Feet)</u> <u>X</u>	<u>Y</u>	<u>County (Meters)</u> <u>X</u>	<u>Y</u>	<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 10 35.11552	92 28 38.41600	493200.523	292013.362	150327.820	89005.851	374.623		2012	GPS2800
NAD83 (2007)	47 10 35.11563	92 28 38.41691	493200.461	292013.373	150327.801	89005.854	374.650		2007	GPS2300
NAD83 (1996)	47 10 35.11537	92 28 38.41665	493200.478	292013.346	150327.807	89005.846	374.659	C	2003	GPS1848
NAD83 (1986)	47 10 35.11474	92 28 38.41805	493200.382	292013.281	150327.777	89005.826		C	1993	H1993

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28368.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28368.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GRYTAL MNDT RESET

NGS Name: GRYTAL RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1849](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	10	54 N	17 W	471035.11	922838.41	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 5 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2019) **Stamping:** GRYTAL 1992 2107

IN COTTON, 0.5 MILE NORTH ON TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 39.45, 59.0 FEET EAST-NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 53, 46.1 FEET WEST OF A RIGHT-OF-WAY POST, 10.0 FEET SOUTH-SOUTHEAST OF DRIVEWAY NUMBER 9242, 4.8 FEET NORTH OF A WITNESS POST.

Station Pair: FOSTER - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1326.444	0.016	404.301	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -97.444 12B = -97.441 09 = -97.342 03 = -97.145

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GRYTAL_RESET-DR1849-3E-14SEP2017.jpg	E	Sep 14, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GRYTAL_RESET-DR1849-2-14SEP2017.jpg		Sep 14, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GRYTAL_RESET-DR1849-1-14SEP2017.jpg		Sep 14, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108347.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108347.pdf



Geodetic Data Sheet (Brief)
GSID Station # 41686

GUAIL MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GUAIL MNDT

NGS Name: GUAIL

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF9117](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	25	53 N	21 W	470227.73	925613.72	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2020	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	SURVEY DISK	MNDT

Description: (2001) Stamping: GUAIL 2001

8.5 MILES NORTH OF FLOODWOOD, 8.5 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 51.75, 50.5 FEET EAST-NORTHEAST OF TRUNK HIGHWAY 73, 119.0 FEET NORTH-NORTHWEST OF A DRIVEWAY, 112.9 FEET NORTHWEST OF A POWER POLE, 28.3 FEET EAST-NORTHEAST OF THE END OF A GUARD RAIL, 13.5 FEET SOUTH-SOUTHEAST OF AN ENTRANCE, 2.3 FEET NORTH-NORTHEAST OF A WITNESS POST.

Station Pair: ANDREW - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1248.226 0.016	380.460 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.401 12B = -96.384 09 = -96.342 03 = -96.161

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u> <u>Latitude</u> <u>Longitude</u>	<u>County (Feet)</u> <u>X</u> <u>Y</u>	<u>County (Meters)</u> <u>X</u> <u>Y</u>	<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAD83 (2011)	47 02 27.73445 92 56 13.72004	378530.912 243006.681	115376.453 74068.585	351.078		2012 GPS2800
NAD83 (2007)	47 02 27.73449 92 56 13.72094	378530.849 243006.686	115376.434 74068.586	351.106		2007 GPS2300
NAD83 (1996)	47 02 27.73431 92 56 13.72063	378530.871 243006.667	115376.440 74068.580	351.120	C	2003 GPS1931

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GUAIL-DF9117-3E-07JUL2020.jpg	E	Jul 7, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GUAIL-DF9117-2-07JUL2020.jpg		Jul 7, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/GUAIL-DF9117-1-07JUL2020.jpg		Jul 7, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41686.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41686.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: H 159

NGS Name: H 159

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0314](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	53 N	17 W	470221.86	922644.35	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2017	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1953)

Stamping: H 159 1935

1.2 MILES EAST OF THE CANYON POST OFFICE, 18.0 FEET SOUTH OF COUNTY ROAD 132 (HARRIS ROAD), AT THE HIGH POINT, 90.0 FEET EAST OF A FARM ENTRANCE, IN A BARNYARD.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1368.573	0.016	417.142	0.005	2/0	1991	00000025
NGVD29	1368.078	0.007	416.991	0.002	1	1958	L63 MINN

Geoid Separations(ft): GEOID18 = -96.102 12B = -96.105 09 = -95.964 03 = -95.771

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28371.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28371.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: H 163

NGS Name: H 163

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0160](#) [Get Map](#)
NGS Quad / Sta Num : 47092243/
USGS Quad: CENTRAL LAKES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	10	55 N	17 W	471542.00	922853.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2017	NOT FOUND	Horz=NO Vert=NO	NO			STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1972)

Stamping: H 163 1935

6.2 MILES NORTH OF A SCHOOL IN COTTON, 45.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 300.0 FEET WEST OF A FARMHOUSE, 1.0 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	Orthometric (Feet)		Orthometric (Meters)		Survey <u>Order/(Class)</u>	Project Info	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1379.912	0.016	420.598	0.005	2/1	2012	00000702
NGVD29	1379.216	0.016	420.386	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.920 12B = -97.916 09 = -97.857 03 = -97.684

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28375.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28375.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: H 165

NGS Name: H 165

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0282](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	11	54 N	17 W	471010.00	922730.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1992	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1935) Stamping: H 165 1935

0.9 MILE EAST OF A COTTON CHURCH, 0.3 MILE EAST OF THE WHITEFACE RIVER, 27.0 FEET NORTH OF COUNTY ROAD 52,
18.0 FEET EAST OF A GATE, AT A FENCE, IN THE FRONT YARD OF A FARMHOUSE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1325. 286	0. 016	403. 948	0. 005	2/0	1991	00000025
NGVD29	1324. 676	0. 007	403. 762	0. 002	1	1958	L63 MINN

Geoid Separations(ft): GEOID18 = -97.339 12B = -97.332 09 = -97.237 03 = -97.037

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28377.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28377.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28401

H 271

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: H 271

NGS Name: H 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0692](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	21	52 N	18 W	465838.96	923704.92	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2021	GOOD	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** H 271 1948

2.15 MILES WEST ON COUNTY ROAD 47 FROM THE POST OFFICE AT ALBORN, AT THE JUNCTION OF COUNTY ROAD 47 (NORTH AND EAST) AND COUNTY ROAD 166 (WEST), 81.0 FEET SOUTH OF COUNTY ROAD 166, 18.0 FEET EAST OF A ROAD SOUTH, 56.0 FEET SOUTH OF A FENCE CORNER, 1.0 FOOT WEST OF A FENCE LINE, 2.0 FEET NORTH OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1369.613	0.016	417.459	0.005	2/0	1991	00000025
NGVD29	1369.069	0.016	417.293	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.813 12B = -95.800 09 = -95.692 03 = -95.525

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28401.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28401.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28402

H 272

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: H 272

NGS Name: H 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0540](#)

[Get Map](#)

NGS Quad / Sta Num : 47092323/

USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	22	53 N	19 W	470318.18	924437.02	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=? Vert=YES	NO	CO RD		SEE DESCRIPTION

Monument Type

WALL

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: H 272 1948

1.5 MILES SOUTHWEST OF MEADOWLANDS, 1.0 MILE SOUTH ON COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 133 AND COUNTY ROAD 5, IN THE NORTH END OF THE EAST HEADWALL OF A COUNTY ROAD 5 BOX CULVERT, 28.0 FEET NORTH OF A ROAD EAST, 17.0 FEET EAST OF COUNTY ROAD 5.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1274.696	0.016	388.528	0.005	2/0	1991	00000025
NGVD29	1274.082	0.016	388.341	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.630 12B = -96.621 09 = -96.535 03 = -96.358

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28402.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28402.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28403

H 273

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: H 273

NGS Name: H 273

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0717](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	29	52 N	20 W	465713.99	925404.24	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 4 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1999) **Stamping:** H 273 1948

1.5 MILES NORTH OF FLOODWOOD, AT THE JUNCTION OF TRUNK HIGHWAY 73 AND A ROAD WEST, AT TRUNK HIGHWAY 73 MILEPOINT 45.3, 73.0 FEET WEST OF TRUNK HIGHWAY 73, 31.0 FEET NORTH OF RUDOLPH ROAD, 44.0 FEET WEST OF A POWER POLE, 40.0 FEET WEST OF A FENCE CORNER, 2.5 FEET SOUTH OF A FENCE, 0.8 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1252. 819	0. 016	381. 860	0. 005	2/1	2021	00000963
NGVD29	1252. 137	0. 016	381. 652	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.617 12B = -95.600 09 = -95.531 03 = -95.400

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/H_273-RN0717-3N-10JUL2017.jpg	N	Jul 10, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/H_273-RN0717-2-10JUL2017.jpg		Jul 10, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/H_273-RN0717-1-10JUL2017.jpg		Jul 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28403.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: H 275

NGS Name: H 275

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0661](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	17	51 N	20 W	465412.00	925325.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1974	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (2019)

Stamping: H 275 1948

2.1 MILES SOUTHEAST FROM FLOODWOOD, 2.1 MILES SOUTHEAST ALONG THE GREAT NORTHERN RAILWAY FROM THE STATION AT FLOODWOOD, 0.4 MILE WEST OF MILEPOST 73, AT A PUBLIC ROAD CROSSING, 219.0 FEET NORTHWEST OF A 36.0-INCH DIAMETER CONCRETE PIPE CULVERT NUMBER 73-37, 46.0 FEET NORTHEAST OF THE NORTHEAST RAIL OF THE NORTHEAST TRACK, 61.0 FEET NORTH OF THE ROAD, 62.5 FEET NORTHWEST OF THE CROSSING WARNING SIGN, 2.0 FEET SOUTHWEST OF A RIGHT-OF-WAY FENCE LINE, 21.5 FEET SOUTHEAST OF A TELEPHONE POLE NUMBER 7 AND 4.0 FEET NORTHEAST OF BEING IN LINE WITH THE ROW OF POLES, 2.0 FEET NORTHWEST OF A WHITE WOODEN WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1267. 662 0. 016	386. 384 0. 005	2/0	1991 00000025

Geoid Separations(ft): GEOID18 = -95.151 12B = -95.131 09 = -95.049 03 = -94.941

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_54081.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_54081.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28404

H 276

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: H 276

NGS Name: H 276

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0386](#) [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	31	55 N	19 W	471145.80	924836.90	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	GOOD	Horz=NO Vert=YES	NO		PROJECTS 5 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2007) **Stamping:** H 276 1948

2.25 MILES NORTH OF A SCHOOL AT TOIVOLA, 0.5 MILE NORTH ON COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 5 AND A ROAD EAST, 52.0 FEET EAST OF COUNTY ROAD 5, 17.0 FEET NORTH OF A DIM ENTRANCE EAST, 81.5 FEET NORTH-NORTHEAST OF A POWER POLE, 11.0 FEET SOUTHEAST OF A TELEPHONE PEDESTAL, 6.2 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1297. 616	0. 016	395. 514	0. 005	2/1	2012	00000702
NGVD29	1296. 904	0. 016	395. 297	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.608 12B = -97.611 09 = -97.542 03 = -97.362

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28404.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28404.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28406

H 279

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: H 279

NGS Name: H 279

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1320](#) [Get Map](#)
NGS Quad / Sta Num : 47093212/
USGS Quad: SILICA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	5	55 N	21 W	471622.84	930203.81	1	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	DESTROYED	Horz=NO Vert=NO	YES	RR		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - LARGE	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** H 279 1948

0.85 MILE NORTHWEST ON A RAILROAD FROM THE RAILROAD STATION AT SILICA, 0.15 MILE SOUTHEAST OF RAILROAD MILEPOST 31, IN THE NORTHEAST END OF THE SOUTHEAST ABUTMENT OF A RAILROAD BRIDGE, 8.0 FEET NORTHEAST OF THE NORTHEAST RAIL OF A RAILROAD.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1344.682	0.007	409.860	0.002	1	1993	POSTED
NGVD29	1343.924	0.007	409.629	0.002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -97.260 12B = -97.283 09 = -97.168 03 = -97.096

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/H_279-SJ1320-1-11JUL2017.jpg		Jul 11, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28406.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28406.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: H 28

NGS Name: H 28

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	51 N	17 W	465134.00	922640.00	2	

NGS ACRN: [RN0054](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

[Get Map](#)

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2009	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (2019)

Stamping: H 28 1934

AT SAGINAW, 12 RAILS WEST ON A RAILROAD FROM THE RAILROAD STATION, 10 RAILS WEST OF THE RAILROAD JUNCTION, 2 RAILS EAST OF A ROAD CROSSING, 30.0 FEET NORTH OF THE NORTH TRACK OF A RAILROAD.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1354.279	0.016	412.785	0.005	2/0	1991	00000025
NGVD29	1353.865	0.007	412.659	0.002	1	1971	L3629

Geoid Separations(ft): GEOID18 = -94.403 12B = -94.390 09 = -94.291 03 = -94.101

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28407.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28407.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28421

H 30

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: H 30

NGS Name: H 30

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0688](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	22	51 N	18 W	465348.00	923609.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1974	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2019) **Stamping:** H 30 1934

2.0 MILES NORTH ON COUNTY ROAD 31 FROM THE JUNCTION OF COUNTY ROAD 31 AND A RAILROAD IN BROOKSTON,
 35.5 FEET EAST OF COUNTY ROAD 31, 32.0 FEET SOUTH OF A WEST ENTRANCE TO A TOWN HALL AND A CEMETERY, 25.0
 FEET SOUTHEAST OF THE SOUTH END OF A 15.0 INCH DIAMETER METAL CULVERT, 14.6 FEET SOUTHEAST OF A
 TELEPHONE POLE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1298.403	0.016	395.754	0.005	2/0	1991	00000025
NGVD29	1297.855	0.016	395.587	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.033 12B = -95.033 09 = -94.928 03 = -94.767

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28421.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28421.pdf



Geodetic Data Sheet (Brief)
GSID Station # 40555

HALD MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HALD MNDT

NGS Name: HALD

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9554](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	20	51 N	20 W	465255.39	925440.13	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (1999)

Stamping: HALD 1999

2.7 MILES SOUTH OF FLOODWOOD, 2.7 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 40.25, 48.0 FEET EAST OF TRUNK HIGHWAY 73, 14.0 FEET NORTH OF AN ENTRANCE, 59.8 FEET NORTH-NORTHWEST OF A POWER POLE, 2.1 FEET SOUTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1289.102	0.016	392.919	0.005	2/1	2004	00000464

Geoid Separations(ft): GEOID18 = -94.944 12B = -94.931 09 = -94.842 03 = -94.737

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 52 55.38546	92 54 40.13309	384671.892	184978.070	117248.227	56381.429	363.982		2012	GPS2800
NAD83 (2007)	46 52 55.38556	92 54 40.13396	384671.832	184978.081	117248.209	56381.432	364.010		2007	GPS2300
NAD83 (1996)	46 52 55.38524	92 54 40.13352	384671.862	184978.048	117248.218	56381.422	364.033	C	2003	GPS1769

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40555.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40555.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HALD MNDT RESET

NGS Name: HALD RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5176](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	20	51 N	20 W	465255.39	925440.13	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 7 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2019)

Stamping: HALD 1999 2017

2.7 MILES SOUTH OF FLOODWOOD, 2.7 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 40.25, 48.0 FEET EAST OF TRUNK HIGHWAY 73, 14.0 FEET NORTH OF DRIVEWAY NUMBER 5122, 2.1 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1288. 941 0. 016	392. 870 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.944 12B = -94.931 09 = -94.842 03 = -94.737

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<u>Location:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HALD_RESET-DR5176-3E-10AUG2017.jpg	E	Aug 10, 2017
<u>Monument:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HALD_RESET-DR5176-2-10AUG2017.jpg		Aug 10, 2017
<u>Disk:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HALD_RESET-DR5176-1-10AUG2017.jpg		Aug 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108139.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108139.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HALDEN MNDT

NGS Name: HALDEN

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0640](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/1076
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	52 N	21 W	465709.23	925710.01	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

TRAVERSE STATION DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: HALDEN 1974

2.6 MILES NORTHWEST OF FLOODWOOD, 2.6 MILES NORTHWEST ON TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73, THEN 0.25 MILE NORTH ON COUNTY ROAD 186, IN THE SOUTHEAST QUADRANT OF THE RAILROAD CROSSING OF COUNTY ROAD 186, 33.0 FEET EAST OF A ROAD, 19.3 FEET SOUTHWEST OF THE SOUTHWEST RAIL OF THE RAILROAD TRACKS, 16.9 FEET EAST OF A RAILROAD SIGN, 11.1 FEET NORTHEAST OF A WITNESS POST, 87.5 FEET NORTHEAST OF A WITNESS POST, 86.52 FEET NORTHWEST OF HALDEN MNDT RM 1, 86.71 FEET EAST-NORTHEAST OF STATION 6906 C.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1265.716	0.016	385.791	0.005	2/0	1991	00000025
NGVD29	1265.184	0.016	385.629	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.571 12B = -95.551 09 = -95.482 03 = -95.357

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 57 09.22942	92 57 10.01037	374425.123	210760.827	114125.006	64240.029	356.711	2	1999	17648
NAD83 (1986)	46 57 09.22248	92 57 10.01105	374425.071	210760.124	114124.990	64239.814		2	1986	17289
NAD27	46 57 09.42962	92 57 09.28243						2	1977	15924

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28429.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28429.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HALDEN MNDT RM 1

NGS Name: HALDEN RM 1

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	52 N	21 W	465708.63	925709.12	2	

NGS ACRN:	RN0641	Get Map
NGS Quad / Sta Num :	46092444/	
USGS Quad:	FLOODWOOD	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2005	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

REFERENCE MARK DISK

Mon. Agency

MNDT

Description: (2019)

Stamping: HALDEN NO 1 1974

2.1 MILES NORTHWEST OF FLOODWOOD, 2.55 MILES NORTHWEST ON TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 TO TRUNK HIGHWAY 2 MILEPOINT 218.25 THEN 0.25 MILE NORTH ON COUNTY ROAD 186 TO A RAILROAD CROSSING, 92.0 FEET EAST OF A ROAD, 23.5 FEET SOUTHWEST OF THE SOUTHWEST RAIL OF THE RAILROAD TRACKS, 86.5 FEET SOUTHEAST OF STATION HALDEN MNDT, 124.0 FEET EAST OF STATION 6906 C, 95.3 FEET SOUTHEAST OF RAILROAD CROSSING POST, 82.6 FEET SOUTHEAST OF A WITNESS POST, THE GEODETIC UNIT FOUND THE MONUMENT TIP BROKEN OFF WITH NO DISK ON 8-30-01.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1265.762	0.016	385.805	0.005	2/0	1991	00000025
NGVD29	1265.234	0.016	385.644	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.567 12B = -95.551 09 = -95.479 03 = -95.357

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28430.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28430.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HARNELL MNDT

NGS Name: HARNELL

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF9118](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	2	51 N	17 W	465528.07	922812.91		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2017	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	SURVEY DISK	MNDT

Description: (2001)

Stamping: HARNELL 2001

3.0 MILES SOUTH-SOUTHWEST OF INDEPENDENCE, 2.8 MILES SOUTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 53 IN INDEPENDENCE, AT TRUNK HIGHWAY 33 MILEPOINT 16.95, 298.0 FEET NORTH OF COUNTY ROAD 8, 253.7 FEET SOUTH-SOUTHEAST OF TRUNK HIGHWAY 33 MILEPOST 17, 38.7 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 33, 1.8 FEET WEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.079 12B = -95.082 09 = -94.957 03 = -94.760

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 55 28.06814	92 28 12.90674	494939.195	200109.179	150857.768	60993.400	369.228				2012	GPS2800
NAD83 (2007)	46 55 28.06828	92 28 12.90763	494939.133	200109.193	150857.749	60993.404	369.255				2007	GPS2300
NAD83 (1996)	46 55 28.06805	92 28 12.90745	494939.145	200109.169	150857.753	60993.397	369.284	C			2003	GPS1931

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41683.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41683.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HARNELL MNDT RESET

NGS Name: HARNELL RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1872](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	2	51 N	17 W	465528.07	922812.91	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 35 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: HARNELL 2001 2017

3.0 MILES SOUTH-SOUTHWEST OF INDEPENDENCE, 2.8 MILES SOUTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 53 IN INDEPENDENCE, AT TRUNK HIGHWAY 33 MILEPOINT 16.95, 298.0 FEET NORTH OF COUNTY ROAD 8, 38.7 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 33, 253.7 FEET SOUTH-SOUTHEAST OF TRUNK HIGHWAY 33 MILEPOST 17, 1.8 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	1306.343 0.016	398.174 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.079 12B = -95.082 09 = -94.957 03 = -94.760

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HARNELL_RESET-DR1872-3E-23AUG2017.jpg	E	Aug 23, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HARNELL_RESET-DR1872-2-23AUG2017.jpg		Aug 23, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HARNELL_RESET-DR1872-1-23AUG2017.jpg		Aug 23, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108197.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108197.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HEIKKILA

NGS Name: HEIKKILA

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1683](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/1015
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	25	50 N	20 W	464719.37	924911.28		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2000	GOOD	Horz=YES Vert=YES	NO		PROJECTS 6 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (TILE OR CLAY) FILLED WITH CONCRETE	TRIANGULATION STATION DISK	NGS

Description: (2002)

Stamping: HEIKKILA 1952

4.0 MILES SOUTH-SOUTHEAST OF GOWAN, 2.0 MILES NORTHEAST OF HEIKKILA LAKE, ON THE TOP OF A HILL, 59.55 FEET NORTH OF HEIKKILA RM 1, 60.47 FEET SOUTHEAST OF HEIKKILA RM 2.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.999 12B = -93.993 09 = -93.914 03 = -93.796

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 47 19.37004	92 49 11.28073	407356.219	150812.969	124162.424	45967.885	447.816	C	2000	SLC
NAD83 (1986)	46 47 19.36565	92 49 11.28261	407356.086	150812.527	124162.383	45967.750		1	1986	17289
NAD27	46 47 19.56300	92 49 10.56400						1	1954	10724

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28439.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28439.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HEIKKILA RM 1

NGS Name: HEIKKILA RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ2622](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	25	50 N	20 W	464718.81	924911.54		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2000	GOOD	Horz=YES Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	REFERENCE MARK DISK	NGS

Description: (2019)

Stamping: HEIKKILA NO 1 1952

4.0 MILES SOUTH-SOUTHEAST OF GOWAN, 2.0 MILES NORTHEAST OF HEIKKILA LAKE, 4.0 FEET NORTHEAST OF A 10.0 INCH DIAMETER WHITE BIRCH TREE WITH A TRIANGLE BLAZE AND 4.0 FEET NORTHWEST OF A 6.0 INCH DIAMETER OAK TREE WITH A TRIANGLE BLAZE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.996 12B = -93.993 09 = -93.914 03 = -93.792

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78592.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78592.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HEIKKILA RM 2

NGS Name: HEIKKILA RM 2

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	25	50 N	20 W	464719.94	924911.55		

NGS ACRN: [CJ2623](#)

[Get Map](#)

NGS Quad / Sta Num : 46092442/

USGS Quad: GOWAN

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2000	GOOD	Horz=YES Vert=YES	NO			SEE DESCRIPTION

Monument Type

BLANK

Disk Type

REFERENCE MARK DISK

Mon. Agency

NGS

Description:

Stamping: HEIKKILA NO 2 1952

4.0 MILES SOUTH-SOUTHEAST OF GOWAN, 2.0 MILES NORTHEAST OF HEIKKILA LAKE, ON THE SLOPE OF THE HILL AND ABOUT 5.0 FEET LOWER THAN STATION HEIKKILA.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.996 12B = -93.993 09 = -93.914 03 = -93.792

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78594.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78594.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28440

HELLWEGS

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HELLWEGS

NGS Name: HELLWEGS

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ2159](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/1008
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	3	52 N	17 W	470044.22	922816.60		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1966	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

Description: (1966) **Stamping:** HELLWEGS 1952

11.1 MILES SOUTH OF COTTON, 0.2 MILE NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND ARKOLA ROAD IN COTTON, THEN 11.1 MILES SOUTH ALONG TRUNK HIGHWAY 53.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.912 12B = -95.909 09 = -95.774 03 = -95.587

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	47 00 44.22146	92 28 16.60023	494691.506	232141.936	150782.273	70757.004	401.832	2	1999	17648
NAD83 (1986)	47 00 44.21781	92 28 16.60241	494691.355	232141.567	150782.227	70756.891		2	1986	17289
NAD27	47 00 44.43800	92 28 15.91400						2	1956	11100

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28440.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28440.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HELLWEGS 2

NGS Name: HELLWEGS 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ2160](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/1008
USGS Quad: CANYON

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	3	52 N	17 W	470044.94	922815.98	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1966	2017	NOT FOUND	Horz=NO Vert=NO	YES		FLUSH	SEE DESCRIPTION

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	HORIZONTAL CONTROL DISK	NGS

Description: (1999) **Stamping:** HELLWEGS 2 1966 1974

11.0 MILES SOUTH OF COTTON, 4.15 MILES NORTH ON TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND TRUNK HIGHWAY 33, IN TRUNK HIGHWAY 53 MEDIAN, AT TRUNK HIGHWAY 53 MILEPOINT 28.1, 31.5 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 53, 77.9 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 53, 159.9 FEET SOUTH-SOUTHEAST OF AN ALIGNMENT POINT WITNESS POST, ABOUT 400.0 FEET SOUTH OF A POWER LINE CROSSING, 48.0 FEET SOUTH OF AN EXTENDED WOODS ROAD EAST, 127.34 FEET WEST-SOUTHWEST OF HELLWEGS 2 RM 3, 35.71 FEET NORTH OF HELLWEGS 2 RM 4, 72.6 FEET WEST-NORTHWEST OF A WITNESS POST, 2.0 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	1409.558 0.016	429.634 0.005	2/1	1992 VTWIG

Geoid Separations(ft): GEOID18 = -95.912 12B = -95.912 09 = -95.777 03 = -95.587

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	47 00 44.94103	92 28 15.98026	494734.491	232214.832	150795.374	70779.222	400.409		2012	GPS2800		
NAD83 (2007)	47 00 44.94113	92 28 15.98114	494734.429	232214.842	150795.356	70779.226	400.437		2007	GPS2300		
NAD83 (1996)	47 00 44.94082	92 28 15.98097	494734.441	232214.811	150795.359	70779.216	400.469	C	2003	GPS1848		
NAD83 (1986)	47 00 44.93700	92 28 15.98210	494734.363	232214.424	150795.335	70779.098		3	1986	17289		
NAD27	47 00 45.15720	92 28 15.29371						3	1986	10744		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28441.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28441.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HELLWEGS 2 RESET

NGS Name: HELLWEGS 2 RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6486](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	3	52 N	17 W	470045.00	922816.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1966	2017	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	HORIZONTAL CONTROL DISK	NGS

Description: (2019) **Stamping:** HELLWEGS 2 1966 1974

LOCATED 11.0 MILE SOUTH OF COTTON, 4.15 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND TRUNK HIGHWAY 33, IN THE TRUNK HIGHWAY 53 MEDIAN AT TRUNK HIGHWAY 53 MILEPOINT 28.1, 31.5 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 53, 77.9 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 5, ABOUT 400.0 FEET SOUTH OF A POWER LINE CROSSING, 159.9 FEET SOUTH-SOUTHEAST OF AN ALIGNMENT POINT WITNESS POST, 127.34 FEET WEST-SOUTHWEST OF HELLWEGS 2 RM 3, 48.0 FEET SOUTH OF AN EXTENDED WOODS ROAD EAST, 35.71 FEET NORTH OF HELLWEGS 2 RM 4, 72.6 FEET WEST-NORTHWEST OF A WITNESS POST, 2.0 FEET NORTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.912 12B = -95.912 09 = -95.777 03 = -95.587

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78596.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78596.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HELLWEGS 2 RM 3

NGS Name: HELLWEGS 2 RM 3

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ2628](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	3	52 N	17 W	470045.61	922814.43		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1966	2017	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

Description: **Stamping:** HELLWEGS 2 NO 3 1966

1.91 MILES SOUTH OF CANNON, 1.92 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.909 12B = -95.909 09 = -95.774 03 = -95.584

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78597.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78597.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HELLWEGS 2 RM 4

NGS Name: HELLWEGS 2 RM 4

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ2629](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	3	52 N	17 W	470044.59	922815.95		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1966	2017	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

Description: (2019)

Stamping: HELLWEGS 2 NO 4 1966

1.92 MILES SOUTH OF CANYON, 1.92 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.909 12B = -95.909 09 = -95.774 03 = -95.584

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78600.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78600.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HELLWEGS AZ MK

NGS Name: HELLWEGS AZ MK

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	11	52 N	17 W	470030.00	922815.00	2	

NGS ACRN: [SJ0180](#)

[Get Map](#)

NGS Quad / Sta Num : 47092233/

USGS Quad: CANYON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1992	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

AZIMUTH MARK DISK

Mon. Agency

NGS

Description: (1978)

Stamping: HELLWEGS 1952

2.15 MILES SOUTH ON TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON, 30.9 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53, AT TRUNK HIGHWAY 53 MILEPOINT 27.85, 187.0 FEET SOUTH OF A ROAD EAST, 178.0 FEET SOUTH OF A TRUNK HIGHWAY 53 CROSSROAD, 15.0 FEET WEST OF 5 BIRCH TREES, 1.7 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1409.561	0.016	429.635	0.005	2/1	2012	00000702
NGVD29	1405.161	0.007	428.294	0.002	1	1966	L63 MINN

Geoid Separations(ft): GEOID18 = -95.873 12B = -95.873 09 = -95.738 03 = -95.548

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28442.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28442.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HELLWEGS RM 1

NGS Name: HELLWEGS RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ2626](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	3	52 N	17 W	470044.00	922816.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1966	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	REFERENCE MARK DISK	NGS

Description: **Stamping:** HELLWEGS NO 1 1952

20.5 MILES NORTHWEST OF DULUTH, 22.5 MILES NORTHWESTERLY ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND JOSHUA AVENUE IN DULUTH.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.909 12B = -95.909 09 = -95.774 03 = -95.587

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78602.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78602.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HELLWEGS RM 2

NGS Name: HELLWEGS RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ2627](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	3	52 N	17 W	470043.56	922816.07		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1966	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	REFERENCE MARK DISK	NGS

Description: **Stamping:** HELLWEGS NO 2 1952

20.5 MILES NORTHWEST OF DULUTH, 22.5 MILES NORTHWESTERLY ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND JOSHUA AVENUE IN DULUTH.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.909 12B = -95.909 09 = -95.774 03 = -95.587

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78603.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78603.pdf



Geodetic Data Sheet (Brief)
GSID Station # 42625

HIDE MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HIDE MNDT

NGS Name: HIDE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DG4245](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	4	50 N	17 W	465049.09	923019.82		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2017	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	SURVEY DISK	MNDT

Description: (2003) **Stamping:** HIDE 2001

3.0 MILES SOUTHWEST OF SAGINAW, 2.30 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY (THE JUNCTION IS 3.31 MILES SOUTHWEST OF SAGINAW), AT TRUNK HIGHWAY 2 MILEPOINT 242.55, 42.0 FEET SOUTH OF TRUNK HIGHWAY 2, 11.5 FEET NORTHEAST OF THE SOUTH END OF CULVERT, 3.8 FEET NORTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.432 12B = -94.419 09 = -94.327 03 = -94.150

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 50 49.09391	92 30 19.82382	486109.262	171848.129	148166.399	52379.415	369.304				2012	GPS2800
NAD83 (2007)	46 50 49.09405	92 30 19.82469	486109.201	171848.144	148166.381	52379.419	369.331				2007	GPS2300
NAD83 (1996)	46 50 49.09376	92 30 19.82461	486109.207	171848.114	148166.383	52379.410	369.366	C			2004	GPS1957

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HIDE-DG4245-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_42625.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_42625.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HIDE MNDT RESET

NGS Name: HIDE RESET

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	4	50 N	17 W	465049.09	923019.82	2	3

NGS ACRN: [DQ9893](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: HIDE 2001 2017

9.5 MILES NORTH-NORTHWEST OF CLOQUET, 2.3 MILES SOUTHWEST OF GRAND LAKES, 2.7 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOINT 242.2, 42.0 FEET SOUTH OF TRUNK HIGHWAY 2, 11.5 FEET NORTHEAST OF THE SOUTH END OF A CULVERT, 3.8 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1305.880	0.016	398.033	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -94.432 12B = -94.419 09 = -94.327 03 = -94.150

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HIDE_RESET-DQ9893-3S-25JUL2017.jpg	S	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HIDE_RESET-DQ9893-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HIDE_RESET-DQ9893-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107943.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107943.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HOWL MNDT

NGS Name: HOWL

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0774](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/1053
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	1	50 N	18 W	465056.03	923336.37	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1981	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (2001) **Stamping:** HOWL 1974

2.5 MILES SOUTHEAST OF BROOKSTON, AT TRUNK HIGHWAY 2 MILEPOINT 239.95, 2.15 MILES EAST ON TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31, 0.7 MILE EAST OF THE ST. LOUIS RIVER, 114.5 FEET NORTH OF TRUNK HIGHWAY 2, 112.0 FEET WEST-NORTHWEST OF A POWER POLE, 3.6 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1294.358	0.016	394.521	0.005	2/0	1991	00000025
NGVD29	1293.911	0.016	394.385	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.544 12B = -94.540 09 = -94.439 03 = -94.271

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>				<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>		<u>Longitude</u>		<u>X</u>	<u>Y</u>			<u>X</u>	<u>Y</u>					<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46	50	56.03349	92	33	36.37187	472447.232	172565.666	144002.204	52598.120			365.762	2	1999	17648
NAD83 (1986)	46	50	56.02777	92	33	36.37378	472447.100	172565.085	144002.164	52597.943					1991	H1991
NAD27	46	50	56.23303	92	33	35.67471								2	1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HOWL-RN0774-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HOWL-RN0774-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HOWL-RN0774-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28466.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28466.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HOWL MNDT RESET

NGS Name: HOWL RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1815](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	1	50 N	18 W	465056.03	923336.37	2	2

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1981	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	HORIZONTAL CONTROL DISK	MNDT

Description: (2019) **Stamping:** HOWL 1974 1981

2.3 MILES EAST-SOUTHEAST OF BROOKSTON, 2.15 MILES EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31 (THE JUNCTION IS 1.0 MILE SOUTH OF BROOKSTON), AT TRUNK HIGHWAY 2 MILEPOINT 240.0, 114.5 FEET NORTH OF TRUNK HIGHWAY 2, 26.12 FEET EAST OF HOWL RM 2, 23.93 FEET NORTH OF HOWL RM 1, 17.0 FEET WEST OF A DRIVEWAY NUMBER 8353, 3.6 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	1294. 207 0. 016	394. 475 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.544 12B = -94.540 09 = -94.439 03 = -94.544

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid	Surv	Project Info	
	Latitude	Longitude	X	Y	X	Y	Hgt (m)	Ord	Year	Reference
NAD83 (1996)	46 50 56. 03349	92 33 36. 37187	472447. 232	172565. 666	144002. 204	52598. 120		2	1999	17648
NAD83 (1986)	46 50 56. 02777	92 33 36. 37378	472447. 099	172565. 086	144002. 164	52597. 944		2	1986	17289

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HOWL_RESET-RN1815-3N-10JUL2006.jpg	N	Jul 10, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HOWL_RESET-RN1815-2-10JUL2006.jpg		Jul 10, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HOWL_RESET-RN1815-1-10JUL2006.jpg		Jul 10, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40129.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40129.pdf



Geodetic Data Sheet (Brief)
GSID Station # 42770

HOWL RM 1

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HOWL RM 1

NGS Name: HOWL RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1816](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	1	50 N	18 W	465055.80	923336.42	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

REFERENCE MARK DISK

Mon. Agency

MNDT

Description: (2019)

Stamping: HOWL 1974 NO 1 1981

2.3 MILES EAST-SOUTHEAST OF BROOKSTON, 2.15 MILES EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31 (THE JUNCTION IS 1.0 MILE SOUTH OF BROOKSTON), AT TRUNK HIGHWAY 2 MILEPOINT 240.0, 91.0 FEET NORTH OF TRUNK HIGHWAY 2, 123.46 FEET WEST-SOUTHWEST OF A POWER POLE, 23.93 FEET SOUTH OF STATION HOWL MNDT RESET, 36.0 FEET EAST OF HOWL RM 2, 17.0 FEET WEST OF DRIVEWAY NUMBER 8353, 1.0 FOOT SOUTH OF A WITNESS POST.

Station Notes

THE MARK HAS BEEN HIT AND LEANING TO THE SOUTH BUT IS STILL USABLE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1290. 591	0. 016	393. 373	0. 005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -94.544 12B = -94.540 09 = -94.439 03 = -94.271

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HOWL_RM_1-RN1816-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HOWL_RM_1-RN1816-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HOWL_RM_1-RN1816-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_42770.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_42770.pdf



Geodetic Data Sheet (Brief)
GSID Station # 62919

HOWL RM 2

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HOWL RM 2

NGS Name: HOWL RM 2

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	1	50 N	18 W	465056.07	923336.74	2	3

NGS ACRN: [DQ9896](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

REFERENCE MARK DISK

Mon. Agency

MNDT

Description: (2019)

Stamping: HOWL 1974 NO 2 1981

2.3 MILES EAST-SOUTHEAST OF BROOKSTON, 2.15 MILES EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31 (THE JUNCTION IS 1.0 MILE SOUTH OF BROOKSTON), AT TRUNK HIGHWAY 2 MILEPOINT 240.0, 114.5 FEET NORTH OF TRUNK HIGHWAY 2, 36.0 FEET WEST OF HOWL RM 1, 44.6 FEET WEST OF DRIVEWAY NUMBER 8353, 26.12 FEET WEST OF HOWL MNDT RESET, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1292. 360	0. 016	393. 912	0. 005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -94.544 12B = -94.540 09 = -94.439 03 = -94.271

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HOWL_RM_2-DQ9896-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HOWL_RM_2-DQ9896-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/HOWL_RM_2-DQ9896-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62919.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62919.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: INA MNDT

NGS Name: INA

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1576](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	35	51 N	17 W	465139.41	922813.13		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2019	GOOD	Horz=YES Vert=YES	YES		RECESSED 5 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	HORIZONTAL CONTROL DISK	MNDT

Description: (1981) **Stamping:** INA 1978

10.0 MILES NORTH-NORTHWEST OF CLOQUET, 0.6 MILE WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), THEN 1.1 MILES NORTH ON COUNTY ROAD 874 (INDEPENDENCE ROAD), 19.0 FEET EAST OF COUNTY ROAD 874, 54.3 FEET SOUTHEAST OF A POWER POLE, 37.75 FEET NORTHWEST OF INA MNDT RM 2, 26.39 FEET SOUTHWEST OF INA MNDT RM 1, 8.0 FEET NORTH OF A FIELD ENTRANCE, 38.7 FEET NORTH-NORTHWEST OF A WITNESS POST, 28.0 FEET SOUTHWEST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.485 12B = -94.472 09 = -94.376 03 = -94.189

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 51 39.40476	92 28 13.13479	494917.361	176941.277	150851.113	53931.809	378.862	2	1999	17648
NAD83 (1986)	46 51 39.39893	92 28 13.13702	494917.206	176940.686	150851.066	53931.629		2	1986	17289
NAD27	46 51 39.60890	92 28 12.43800						2	1980	16254

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/INA-RN1576-3E-02AUG2017.jpg	E	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/INA-RN1576-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/INA-RN1576-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28475.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28475.pdf



Geodetic Data Sheet (Brief)
GSID Station # 78632

INA MNDT RM 1

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: INA MNDT RM 1

NGS Name: INA RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ3112](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	35	51 N	17 W	465139.55	922812.82	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

REFERENCE MARK DISK

Mon. Agency

MNDT

Description: (1978)

Stamping: INA 1978 NO 1

10.0 MILES NORTH-NORTHWEST OF CLOQUET, 0.6 MILE WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), THEN 1.1 MILES NORTH ON COUNTY ROAD 874, 41.0 FEET EAST OF COUNTY ROAD 874 (INDEPENDENCE ROAD), 45.3 FEET NORTH OF INA MNDT RM 2, 22.0 FEET NORTH OF A FIELD ENTRANCE, 1.0 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1337.491 0.016	407.668 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.485 12B = -94.472 09 = -94.376 03 = -94.189

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/INA_RM_1-CJ3112-3E-02AUG2017.jpg	E	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/INA_RM_1-CJ3112-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/INA_RM_1-CJ3112-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78632.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78632.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: INA MNDT RM 2

NGS Name: INA RM 2

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	35	51 N	17 W	465139.10	922812.82	2	3

NGS ACRN:	CJ3113	Get Map
NGS Quad / Sta Num :	46092143/	
USGS Quad:	SAGINAW	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

REFERENCE MARK DISK

Mon. Agency

MNDT

Description: (1978)

Stamping: INA 1978 NO 2

10.0 MILES NORTH-NORTHWEST OF CLOQUET, 0.6 MILE WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), THEN 1.1 MILES NORTH ON COUNTY ROAD 874, 40.5 FEET EAST OF COUNTY ROAD 874 (INDEPENDENCE ROAD), 45.3 FEET SOUTH OF INA MNDT RM 1, 23.5 FEET SOUTH OF A FIELD ENTRANCE, 1.0 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1337. 533 0. 016	407. 681 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.485 12B = -94.472 09 = -94.376 03 = -94.189

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/INA_RM_2-CJ3113-3E-02AUG2017.jpg	E	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/INA_RM_2-CJ3113-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/INA_RM_2-CJ3113-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78633.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78633.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28476

IND MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: IND MNDT

NGS Name: IND

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1580](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	52 N	17 W	465709.60	922743.39		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARK IS STEEL PIPE

Monument Type

PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)

Disk Type

HORIZONTAL CONTROL DISK

Mon. Agency

MNDT

Description: (1992)

Stamping: IND 1978

0.5 MILE SOUTH-SOUTHEAST OF INDEPENDENCE, 0.3 MILE SOUTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 53, 60.5 FEET SOUTHEAST OF TRUNK HIGHWAY 33, 99.3 FEET NORTHEAST OF TRUNK HIGHWAY 33 MILEPOST 19, 6.7 FEET NORTH-NORTHWEST OF A WITNESS POST.

Station Notes

IN 1992 THE GEODETIC UNIT COULD NOT FIND STATION IND MNDT-NEW ROAD CONSTRUCTION IN THE AREA AN IRON PIN WAS FOUND 11-19-98.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.331 12B = -95.325 09 = -95.200 03 = -95.003

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 57 09.60254	92 27 43.39433	496989.374	210396.179	151482.664	64128.884	381.711	2	1999	17648
NAD83 (1986)	46 57 09.59653	92 27 43.39537	496989.302	210395.570	151482.642	64128.698		2	1986	17289
NAD27	46 57 09.81139	92 27 42.70975						2	1980	16254

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28476.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28476.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: INDEPENDENCE

NGS Name: INDEPENDENCE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1579](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/1013
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	52 N	17 W	465744.95	922920.84		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1978	GOOD	Horz=NO Vert=NO	NO		FLUSH	STEEL ROD ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

Description: (1992) **Stamping:** INDEPENDENCE 1952

1.5 MILES WEST-NORTHWEST OF INDEPENDENCE, 1.3 MILES WEST ALONG COUNTY ROAD 47 FROM THE JUNCTION OF COUNTY ROAD 47 AND TRUNK HIGHWAY 53 IN INDEPENDENCE, THEN 0.15 MILE NORTH ON A ROAD TO A FORMER LOOKOUT TOWER SITE, 109.47 FEET NORTH-NORTHWEST OF INDEPENDENCE RM 2, 91.70 FEET SOUTHWEST OF INDEPENDENCE RM 1, 38.38 FEET WEST-NORTHWEST OF INDEPENDENCE RM 3, 3.0 FEET SOUTHEAST OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.492 12B = -95.485 09 = -95.361 03 = -95.170

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 57 44.94759	92 29 20.83516	490230.879	213979.543	149422.671	65221.095	400.960	3	1999	17648		
NAD83 (1986)	46 57 44.94147	92 29 20.83599	490230.821	213978.923	149422.653	65220.906		3	1986	17289		
NAD27	46 57 45.15600	92 29 20.14800						3	1956	11100		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28477.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28477.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: INDEPENDENCE LOOKOUT TOWER

NGS Name: INDEPENDENCE LOOKOUT TOWER

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	52 N	17 W	465744.86	922920.37		4

NGS ACRN:	RN1578	Get Map
NGS Quad / Sta Num :	46092144/1066	
USGS Quad:	INDEPENDENCE	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1978	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

SEE DESCRIPTIVE TEXT

Disk Type

LOOKOUT TOWER

Mon. Agency

NGS

Description: (1978)

Stamping:

1.5 MILES WEST-NORTHWEST OF INDEPENDENCE, 1.3 MILES WEST ON COUNTY ROAD 47 FROM TRUNK HIGHWAY 53, THEN 0.15 MILE NORTH OF COUNTY ROAD 47.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.492 12B = -95.485 09 = -95.361 03 = -95.170

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 57 44.85585	92 29 20.36711	490263.341	213970.232	149432.565	65218.257			4	1999	17648	
NAD83 (1986)	46 57 44.85912	92 29 20.36833	490263.257	213970.563	149432.540	65218.358			4	1986	17289	
NAD27	46 57 45.06400	92 29 19.67400							4	1956	11100	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28478.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28478.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: INDEPENDENCE RM 1

NGS Name: INDEPENDENCE RM 1

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	52 N	17 W	465745.20	922919.57		2

NGS ACRN: [RN1583](#)

[Get Map](#)

NGS Quad / Sta Num : 46092144/

USGS Quad: INDEPENDENCE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

SEE DESCRIPTIVE TEXT

Disk Type

UNMONUMENTED

Mon. Agency

CGS

Description:

Stamping:

1.3 MILES WEST OF INDEPENDENCE, 1.3 MILES WEST ALONG SWAN LAKE ROAD FROM THE JUNCTION OF SWAN LAKE ROAD AND TRUNK HIGHWAY 53 IN INDEPENDENCE. STATION INDEPENDENCE RM 1 IS NORTH OF SWAN LAKE ROAD.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.492 12B = -95.485 09 = -95.361 03 = -95.170

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 57 45.19869	92 29 19.56527	490318.979	214004.940	149449.524	65228.836	401.060		2	1999	17648	
NAD83 (1986)	46 57 45.19257	92 29 19.56611	490318.920	214004.320	149449.506	65228.647			2	1986	17289	
NAD27	46 57 45.40713	92 29 18.87805							2	1980	16254	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65479.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65479.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: INDEPENDENCE RM 2

NGS Name: INDEPENDENCE RM 2

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	52 N	17 W	465743.88	922921.07		

NGS ACRN: [CJ3114](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1992	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

BLANK

Disk Type

REFERENCE MARK DISK

Mon. Agency

NGS

Description:

Stamping: INDEPENDENCE NO 2 1952

1.5 MILES WEST-NORTHWEST OF INDEPENDENCE, 1.3 MILES WEST ALONG COUNTY ROAD 47 FROM THE JUNCTION OF COUNTY ROAD 47 AND TRUNK HIGHWAY 53 IN INDEPENDENCE, THEN 0.15 MILE NORTH ON A ROAD TO A FORMER LOOKOUT TOWER SITE, 6.0 FEET WEST OF THE CENTERLINE OF A DRIVEWAY.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.492 12B = -95.485 09 = -95.361 03 = -95.170

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78634.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78634.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: INDEPENDENCE RM 3

NGS Name: INDEPENDENCE RM 3

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1584](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	52 N	17 W	465744.83	922920.31		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	1978	GOOD	Horz=NO Vert=NO	NO		FLUSH	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (1978) **Stamping:** INDEPENDENCE NO 3 1952 1978

1.5 MILES WEST-NORTHWEST OF INDEPENDENCE, 1.3 MILES WEST ALONG COUNTY ROAD 47 FROM THE JUNCTION OF COUNTY ROAD 47 AND TRUNK HIGHWAY 53 IN INDEPENDENCE, THEN 0.15 MILE NORTH ON A ROAD TO A LOOKOUT TOWER, 15.8 FEET NORTHEAST OF THE NORTHEAST CORNER OF THE SOUTHWEST TOWER LEG FOOTING, 8.65 FEET NORTHWEST OF THE NORTHWEST CORNER OF THE SOUTHEAST TOWER LEG FOOTING, 38.38 FEET EAST-SOUTHEAST OF STATION INDEPENDENCE, 63.61 FEET SOUTH-SOUTHWEST OF INDEPENDENCE RM 1, 109.90 FEET NORTH-NORTHWEST OF INDEPENDENCE RM 2, 40.9 FEET EAST-SOUTHEAST OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.492 12B = -95.485 09 = -95.361 03 = -95.170

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 57 44.83034	92 29 20.30854	490267.403	213967.645	149433.803	65217.469	401.560		2	1999	17648	
NAD83 (1986)	46 57 44.82423	92 29 20.30938	490267.344	213967.026	149433.785	65217.280			2	1986	17289	
NAD27	46 57 45.03859	92 29 19.62080							2	1980	16254	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28479.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28479.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28480

INDU MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: INDU MNDT

NGS Name: INDU

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0781](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/1049
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	5	50 N	17 W	465048.82	923047.34	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1981	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (2001) **Stamping:** INDU 1974

2.5 MILES SOUTHWEST OF GRAND LAKES, AT TRUNK HIGHWAY 2 MILEPOINT 242.2, 2.7 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33, 41.5 FEET SOUTH OF TRUNK HIGHWAY 2, 6.5 FEET EAST OF AN ENTRANCE, 71.4 FEET NORTHWEST OF A RIGHT-OF-WAY POST, 80.9 FEET NORTHEAST OF A WITNESS POST, 80.19 FEET NORTHEAST OF STATION 6907 B, 71.41 FEET NORTH-NORTHWEST OF INDU RM 3.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1332.136	0.016	406.036	0.005	2/0	1991	00000025
NGVD29	1331.835	0.016	405.944	0.005	2	1979	L23566

Geoid Separations(ft): GEOID18 = -94.445 12B = -94.436 09 = -94.340 03 = -94.163

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info			
	Latitude		Longitude		X	Y	X	Y			Year	Reference		
NAD83 (1996)	46	50	48.82319	92	30	47.34422	484196.161	171822.148	147583.285	52371.496	377.307	2	1999	17648
NAD83 (1986)	46	50	48.81744	92	30	47.34651	484196.003	171821.566	147583.237	52371.318			1991	H1991
NAD27	46	50	49.02488	92	30	46.64577						2	1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/INDU-RN0781-3S-25JUL2017.jpg	S	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/INDU-RN0781-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/INDU-RN0781-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28480.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28480.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: INDU MNDT RESET

NGS Name: INDU RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AI4516](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	5	50 N	17 W	465048.82	923047.34		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2017	GOOD	Horz=NO Vert=NO	NO		RECESSED 2 IN.	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	SURVEY DISK	MNDT

Description: (2001) **Stamping:** INDU 1974 1981

9.6 MILES NORTH-NORTHWEST OF CLOQUET, 2.5 MILES SOUTHWEST OF GRAND LAKES, AT TRUNK HIGHWAY 2 MILEPOINT 242.2, 2.7 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS NORTH-NORTHWEST OF CLOQUET), 41.5 FEET SOUTH OF TRUNK HIGHWAY 2, 6.5 FEET EAST OF AN ENTRANCE.

Station Notes

THE MARK IS A STANDARD MNDOT 2.0 INCH SQUARE CAP.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.445 12B = -94.436 09 = -94.340 03 = -94.445

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 50 48.82319	92 30 47.34422	484196.161	171822.148	147583.285	52371.496				2	1999	17648
NAD83 (1986)	46 50 48.81744	92 30 47.34651	484196.002	171821.566	147583.237	52371.318				2	1986	17289

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40128.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40128.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: INDU MNDT RM 1

NGS Name: INDU RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0782](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	5	50 N	17 W	465048.27	923046.71	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1979	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (1979)

Stamping: INDU NO 1 1974

4.5 MILES SOUTHEAST OF BROOKSTON, 0.6 MILE SOUTHWEST ALONG TRUNK HIGHWAY 31 FROM THE JUNCTION OF TRUNK HIGHWAY 31 AND 2ND AVENUE IN BROOKSTON, THEN 4.4 MILES EAST ALONG TRUNK HIGHWAY 2, THEN 128.84 FEET SOUTH FROM THE CENTERLINE OF TRUNK HIGHWAY 2.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1333. 829	0. 016	406. 552	0. 005	2/0	1991	00000025
NGVD29	1333. 528	0. 016	406. 460	0. 005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.442 12B = -94.432 09 = -94.337 03 = -94.160

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28481.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28481.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: INDU RM 3

NGS Name: INDU RM 3

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1061](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	5	50 N	17 W	465048.27	923046.70	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1979	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2001)

Stamping: INDU 1974 NO 3 1979

9.6 MILES NORTH-NORTHWEST OF CLOQUET, 2.65 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS NORTH-NORTHWEST OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOINT 242.15, 97.6 FEET SOUTH OF TRUNK HIGHWAY 2, 97.50 FEET EAST-NORTHEAST OF STATION 6907 B, 48.5 FEET EAST OF AN ENTRANCE, 2.7 FEET NORTHEAST OF A RIGHT-OF-WAY MONUMENT, 17.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1334.650	0.016	406.802	0.005	2/1	2021	00000963
NGVD29	1333.239	0.016	406.372	0.005	2	1979	L23566

Geoid Separations(ft): GEOID18 = -94.442 12B = -94.432 09 = -94.340 03 = -94.163

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/INDU_RM_3-RN1061-3S-25JUL2017.jpg	S	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/INDU_RM_3-RN1061-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/INDU_RM_3-RN1061-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28482.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28482.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ISLAND USGS

NGS Name: ISLAND

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1231](#) [Get Map](#)
NGS Quad / Sta Num : 46093111/1029
USGS Quad: ISLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	17	52 N	21 W	465941.85	930117.46		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	2017	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT)	SURVEY DISK	USGS

Description: (2019) **Stamping:** ISLAND 1967

6.5 MILES NORTHWEST OF FLOODWOOD, 0.65 MILE NORTHWEST OF THE ISLAND FARM BUILDINGS, 87.78 FEET NORTHEAST OF ISLAND USGS RM 2, 61.0 FEET NORTH-NORTHWEST OF A RAILROAD CROSSING, 50.02 FEET WEST-NORTHWEST OF ISLAND USGS RM 1, 40.4 FEET SOUTHWEST OF THE SOUTHWEST RAIL OF THE RAILROAD TRACKS, 35.6 FEET NORTHEAST OF THE NORTHEAST RAIL OF A RAILROAD TRACKS, 14.0 FEET NORTHWEST OF A TELEPHONE POLE, 12.4 FEET SOUTHWEST OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE. THE ROD DEPTH IS UNKNOWN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.895 12B = -95.886 09 = -95.820 03 = -95.679

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 59 41.85467	93 01 17.46481	357370.252	226342.069	108926.671	68989.201	358.822	2	1999	17648		
NAD83 (1986)	46 59 41.84936	93 01 17.46178	357370.458	226341.529	108926.734	68989.036		2	1986	17289		
NAD27	46 59 42.06232	93 01 16.71620						2	1969	14410		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28485.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28485.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ISLAND USGS AZ MK

NGS Name: ISLAND AZ MK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0867](#) [Get Map](#)
NGS Quad / Sta Num : 46093111/
USGS Quad: ISLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	16	52 N	21 W	465919.00	930041.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	1974	GOOD	Horz=NO Vert=NO	NO		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	SURVEY DISK	USGS

Description: (1974) **Stamping:** ISLAND 1967

6.0 MILES NORTHWEST OF FLOODWOOD, 0.2 MILE NORTHEAST OF THE ISLAND FARM BUILDINGS, 44.5 FEET NORTHWEST OF A TRACK ROAD, 40.4 FEET SOUTHWEST OF THE SOUTHWEST RAIL OF THE RAILROAD TRACKS, 14.0 FEET NORTHWEST OF A TELEPHONE POLE, 6.15 FEET WEST OF A RAILROAD CROSSING, 1.2 FEET SOUTHEAST OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1268.744	0.016	386.714	0.005	2/0	1991	00000025
NGVD29	1268.259	0.016	386.566	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.850 12B = -95.840 09 = -95.771 03 = -95.633

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28486.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28486.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ISLAND USGS RM 1

NGS Name: ISLAND RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CO9833](#) [Get Map](#)
NGS Quad / Sta Num : 46093111/
USGS Quad: ISLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	17	52 N	21 W	465941.42	930116.37		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	2017	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	REFERENCE MARK DISK	NGS

Description:

Stamping:

6.5 MILES NORTHWEST OF FLOODWOOD, 0.65 MILE NORTHWEST OF THE ISLAND FARM BUILDINGS, 50.02 FEET EAST-SOUTHEAST OF STATION ISLAND USGS.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.899 12B = -95.886 09 = -95.820 03 = -95.679

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_82559.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_82559.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ISLAND USGS RM 2

NGS Name: ISLAND RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CO9834](#) [Get Map](#)
NGS Quad / Sta Num : 46093111/
USGS Quad: ISLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	17	52 N	21 W	465941.54	930118.04		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	2017	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	REFERENCE MARK DISK	NGS

Description:

Stamping:

6.5 MILES NORTHWEST OF FLOODWOOD, 0.65 MILE NORTHWEST OF THE ISLAND FARM BUILDINGS, 87.78 FEET
SOUTHWEST OF STATION ISLAND USGS.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.899 12B = -95.886 09 = -95.820 03 = -95.679

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_82562.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_82562.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28492

J 163

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: J 163

NGS Name: J 163

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0161](#) [Get Map](#)
 NGS Quad / Sta Num : 47092243/1014
 USGS Quad: CENTRAL LAKES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	10	55 N	17 W	471522.70	922857.09	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1992	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1992) **Stamping:** J 163 1935

3.5 MILES WEST OF MELRUDE, 6.25 MILES NORTH ON TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52, 43.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 10.5 FEET SOUTHWEST OF A POWER POLE, 55.43 FEET NORTHEAST OF STATION MELRUDE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1358. 219	0. 016	413. 986	0. 005	2/0	1991	00000025
NGVD29	1357. 527	0. 007	413. 775	0. 002	1	1958	L63 MINN

Geoid Separations(ft): GEOID18 = -97.907 12B = -97.903 09 = -97.844 03 = -97.664

Geodetic Position and St Louis County Coordinates - Central Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	47 15 22. 69842	92 28 57. 08561	491922. 688	102301. 661	149938. 335	31181. 609	384. 205	2	1999	17648
NAD83 (1986)	47 15 22. 69788	92 28 57. 08862	491922. 480	102301. 606	149938. 272	31181. 592		2	1986	17289
NAD27	47 15 22. 93800	92 28 56. 40900						2	1956	11100

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28492.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28492.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28516

J 271

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: J 271

NGS Name: J 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0693](#) [Get Map](#)
NGS Quad / Sta Num : 46092414/
USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	21	52 N	18 W	465840.30	923820.80	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=NO Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** J 271 1948

3.15 MILES WEST OF THE POST OFFICE AT ALBORN, 1.0 MILE WEST ON COUNTY ROAD 166 FROM THE JUNCTION OF COUNTY ROAD 166 AND COUNTY ROAD 47, 0.75 MILE WEST OF A POWER LINE CROSSING, 27.0 FEET SOUTH OF COUNTY ROAD 166, 306.0 FEET WEST OF A FARM DRIVE SOUTH, 8.5 FEET EAST OF THE NORTHWEST CORNER OF A MEADOW, 2.0 FEET NORTH OF A FENCE LINE, 2.0 FEET EAST OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1324.591	0.016	403.736	0.005	2/0	1991	00000025
NGVD29	1324.039	0.016	403.568	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.830 12B = -95.817 09 = -95.712 03 = -95.551

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28516.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28516.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28517

J 272

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: J 272

NGS Name: J 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0512](#) [Get Map](#)
 NGS Quad / Sta Num : 47092323/
 USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	16	53 N	19 W	470410.51	924440.33	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2021	GOOD	Horz=YES Vert=YES	YES		PROJECTS 1 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2007) **Stamping:** J 272 1948

0.5 MILE WEST FROM MEADOWLANDS, 0.5 MILE WEST ON COUNTY ROAD 133 FROM THE HIGH SCHOOL AT MEADOWLANDS, AT THE JUNCTION OF COUNTY ROAD 133 AND COUNTY ROAD 29 (BITUMINOUS ROAD), 47.0 FEET NORTH OF COUNTY ROAD 133, 31.0 FEET WEST OF COUNTY ROAD 200 (MEADOWSLANDS TRUNK ROAD), 3.2 FEET EAST-NORTHEAST OF A POWER POLE, 0.5 FOOT SOUTH OF A WITNESS POST.

Station Notes

THE MONUMENT IS TILTED NORTH.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1276.897	0.016	389.199	0.005	2/1	2012	00000702
NGVD29	1275.893	0.016	388.893	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.768 12B = -96.758 09 = -96.676 03 = -96.493

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid	Surv	Project Info	
	Latitude	Longitude	X	Y	X	Y	Hgt (m)	Ord	Year	Reference
NAD83 (2011)	47 04 10.50593	92 44 40.33338	426596.240	253180.161	130026.794	77169.467	359.713	3	2021	GPSBM

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/J_272-SJ0512-3N-27JUL2021.jpg	N	Jul 27, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/J_272-SJ0512-2-27JUL2021.jpg		Jul 27, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/J_272-SJ0512-1-27JUL2021.jpg		Jul 27, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28517.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28517.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28518

J 273

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: J 273

NGS Name: J 273

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0719](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	20	52 N	20 W	465854.56	925434.22	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	POOR	Horz=NO Vert=NO	YES		PROJECTS 24 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2001) **Stamping:** J 273 1948

3.8 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE HIGH SCHOOL IN FLOODWOOD, AT THE JUNCTION OF TRUNK HIGHWAY 73 AND COUNTY ROAD 147, AT TRUNK HIGHWAY 73 MILEPOINT 47.35, 34.0 FEET EAST OF TRUNK HIGHWAY 73, 215.0 FEET SOUTH OF COUNTY ROAD 147, 1.0 FOOT WEST OF A FENCE LINE, AT THE NORTHWEST CORNER OF A CULTIVATED FIELD, 0.8 FOOT WEST OF A WITNESS POST.

Station Notes

THE STATION IS VERY UNSTABLE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1251.920	0.016	381.586	0.005	2/0	1991	00000025
NGVD29	1251.267	0.016	381.387	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.879 12B = -95.859 09 = -95.807 03 = -95.653

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/J_273-RN0719-3W-10JUL2017.jpg	W	Jul 10, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/J_273-RN0719-2-10JUL2017.jpg		Jul 10, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/J_273-RN0719-1-10JUL2017.jpg		Jul 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28518.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28518.pdf



Geodetic Data Sheet (Brief)
GSID Station # 54064

J 275

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: J 275

NGS Name: J 275

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0656](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	8	51 N	20 W	465458.00	925419.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1974	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 5 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: J 275 1948

1.05 MILES SOUTHEAST OF FLOODWOOD, 1.05 MILES SOUTHEAST ALONG THE GREAT NORTHERN RAILROAD FROM THE STATION AT FLOODWOOD, 0.5 MILE SOUTHEAST OF THE BRIDGE OVER THE SAVANNA RIVER, 0.45 MILE NORTHWEST OF MILEPOST 74, 0.4 MILE NORTHWEST OF AN EAST-WEST ROAD CROSSING, 0.15 MILE SOUTHEAST OF AN EAST-WEST ROAD CROSSING, AT THE CENTER OF A LOW CUT, 103.0 FEET NORTHEAST OF TRUNK HIGHWAY 2, 32.3 FEET SOUTHWEST OF THE SOUTHWEST RAIL OF THE SOUTHWEST TRACK, 30.0 FEET SOUTHEAST OF A GRASS DRIVE CONNECTING THE TRACKS AND TRUNK HIGHWAY 2, 6.0 FEET SOUTH OF A TELEPHONE POLE, 2.0 FEET SOUTHEAST OF A WOODEN WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1264. 925 0. 016	385. 550 0. 005	2/0	1991 00000025

Geoid Separations(ft): GEOID18 = -95.259 12B = -95.243 09 = -95.164 03 = -95.052

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_54064.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_54064.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: J 276

NGS Name: J 276

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0385](#) [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	30	55 N	19 W	471241.00	924837.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=? Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** J 276 1948

3.35 MILES NORTH OF THE HIGH SCHOOL AT TOIVOLA, 30.0 FEET EAST OF COUNTY ROAD 5, 15.0 FEET NORTH OF AN ENTRANCE, 7.5 FEET NORTH OF THE NORTH GATE POST, 1.5 FEET WEST OF A FENCE, 2.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1291.579	0.016	393.674	0.005	2/0	1991	00000025
NGVD29	1290.890	0.016	393.464	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.664 12B = -97.661 09 = -97.592 03 = -97.428

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28519.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28519.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28521

J 279

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: J 279

NGS Name: J 279

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1321](#) [Get Map](#)
NGS Quad / Sta Num : 47093212/
USGS Quad: SILICA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	8	55 N	21 W	471559.49	930127.05	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	NOT FOUND	Horz=NO Vert=NO	YES		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** J 279 1948

AT SILICA, 0.1 MILE NORTHWEST ON A RAILROAD FROM THE RAILROAD STATION, AT THE JUNCTION OF A RAILROAD AND TRUNK HIGHWAY 73, 47.0 FEET WEST OF TRUNK HIGHWAY 73, 49.0 FEET NORTHEAST OF THE NORTHEAST RAIL OF THE RAILROAD TRACKS, 19.5 FEET NORTHWEST OF A FENCE CORNER, 1.5 FEET NORTHEAST OF A RIGHT-OF-WAY FENCE, 2.0 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1335.565	0.016	407.081	0.005	2/0	1991	00000025
NGVD29	1334.810	0.016	406.851	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.260 12B = -97.283 09 = -97.172 03 = -97.096

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/J_279-SJ1321-3S-11JUL2017.jpg	S	Jul 11, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28521.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28521.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: J 28

NGS Name: J 28

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0055](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	51 N	17 W	465200.57	922804.43	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1974	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1974) Stamping: J 28 1934

AT GRAND LAKE, 17 RAILS EAST ON A RAILROAD FROM THE RAILROAD STATION, AT THE EAST SWITCH STAND, 30.0 FEET NORTH OF A RAILROAD.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	Orthometric (Feet)		Orthometric (Meters)		Survey <u>Order/(Class)</u>	Project Info	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1337.136	0.016	407.560	0.005	2/0	1991	00000025
NGVD29	1336.707	0.016	407.429	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.531 12B = -94.521 09 = -94.422 03 = -94.235

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28522.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28522.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: J 30

NGS Name: J 30

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0686](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	34	51 N	18 W	465204.00	923613.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1974) **Stamping:** J 30 1934

AT BROOKSTON, 2.0 RAILS EAST OF THE GREAT NORTHERN RAILWAY STATION, AT A STREET CROSSING, 65.0 FEET SOUTH OF THE SOUTH TRACK, 30.0 FEET WEST OF A STREET, AT THE FOOT OF A TELEPHONE POLE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	Orthometric (Feet)		Orthometric (Meters)		Survey <u>Order/(Class)</u>	Project Info	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1228.597	0.016	374.477	0.005	2/0	1991	00000025
NGVD29	1228.032	0.007	374.305	0.002	1	1934	L13 MINN

Geoid Separations(ft): GEOID18 = -94.770 12B = -94.767 09 = -94.672 03 = -94.508

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28535.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28535.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28546

JENKIN MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: JENKIN MNDT

NGS Name: JENKIN

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6505](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	54 N	17 W	470735.46	922818.32	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2020	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)

Disk Type

HORIZONTAL CONTROL DISK

Mon. Agency

MNDT

Description: (1999)

Stamping: JENKIN 1992

3.0 MILES SOUTH OF COTTON, 2.9 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 36.00, 35.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 81.3 FEET EAST-NORTHEAST OF A TELEPHONE CABLE MARKER, 27.1 FEET NORTH-NORTHEAST OF MILEPOST 36, 2.3 FEET SOUTH OF A WITNESS POST.

Station Pair: DODO MNDT RESET - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1352.855	0.016	412.351	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -96.998 12B = -96.998 09 = -96.876 03 = -96.680

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 07 35.46014	92 28 18.31994	494583.891	273809.537	150749.472	83457.314	382.793		2012	GPS2800
NAD83 (2007)	47 07 35.46026	92 28 18.32085	494583.828	273809.549	150749.452	83457.318	382.821		2007	GPS2300
NAD83 (1996)	47 07 35.46007	92 28 18.32052	494583.851	273809.530	150749.459	83457.312	382.837	C	2003	GPS1848
NAD83 (1986)	47 07 35.45865	92 28 18.32093	494583.824	273809.387	150749.451	83457.268		C	1993	H1993

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/JENKIN-DF6505-3W-12JUL2020.jpg	W	Jul 12, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/JENKIN-DF6505-2-12JUL2020.jpg		Jul 12, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/JENKIN-DF6505-1-12JUL2020.jpg		Jul 12, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28546.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28546.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107832

JOHN

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: JOHN

NGS Name: JOHN

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	28	55 N	21 W	471309.61	930105.50	2	3

NGS ACRN: [DR5149](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 64 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: JOHN 2017

15.0 MILES SOUTH-SOUTHWEST OF HIBBING, 13.45 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 65.4, 29.8 FEET WEST OF TRUNK HIGHWAY 73, 57.9 FEET NORTH OF HAPPY LAKE ROAD, 1.5 FEET EAST OF A WITNESS POST.

Station Pair: BETH - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1329. 689 0. 016	405. 290 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.145 12B = -97.159 09 = -97.070 03 = -96.962

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/JOHN-DR5149-3W-26JUL2017.jpg	W	Jul 26, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/JOHN-DR5149-2-26JUL2017.jpg		Jul 26, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/JOHN-DR5149-1-26JUL2017.jpg		Jul 26, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107832.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28559

K 163

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: K 163

NGS Name: K 163

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	22	55 N	17 W	471341.79	922916.83	2	3

NGS ACRN: [SJ0162](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 2 IN.	BAR MAG IN DRILL HOLE

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1972)

Stamping: K 163 1935

4.15 MILES NORTH OF COTTON, 4.15 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 43.15, 80.3 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 1.0 FOOT EAST OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1342.474	0.016	409.187	0.005	2/1	2021	00000963
NGVD29	1341.818	0.016	408.987	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.802 12B = -97.798 09 = -97.726 03 = -97.536

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/K_163-SJ0162-3W-14SEP2017.jpg	W	Sep 14, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/K_163-SJ0162-2-14SEP2017.jpg		Sep 14, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/K_163-SJ0162-1-14SEP2017.jpg		Sep 14, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28559.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28559.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28583

K 271

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: K 271

NGS Name: K 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0694](#) [Get Map](#)
NGS Quad / Sta Num : 46092414/
USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	19	52 N	18 W	465840.29	923938.84	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=NO Vert=YES	NO		PROJECTS 5 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** K 271 1948

4.15 MILES WEST OF THE POST OFFICE AT ALBORN, AT THE JUNCTION OF COUNTY ROAD 166 AND COUNTY ROAD 821 SOUTH, 49.0 FEET SOUTH OF COUNTY ROAD 166, 28.0 FEET WEST OF COUNTY ROAD 821, 14.5 FEET EAST-SOUTHEAST OF A ROAD SIGN, 2.0 FEET SOUTH OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1336.293	0.016	407.303	0.005	2/0	1991	00000025
NGVD29	1335.739	0.016	407.134	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.846 12B = -95.830 09 = -95.728 03 = -95.571

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28583.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28583.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: K 272

NGS Name: K 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0511](#) [Get Map](#)
NGS Quad / Sta Num : 47092323/
USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	15	53 N	19 W	470415.32	924404.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	GOOD	Horz=NO Vert=YES	YES		FLUSH	NO MAG MATERIAL

Monument Type

STEP

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: K 272 1948

AT MEADOWLANDS, AT THE HIGH SCHOOL, IN THE TOP OF THE SOUTH END OF THE THIRD STEP FROM THE BOTTOM,
AT THE MAIN SCHOOL ENTRANCE, 135.0 FEET WEST OF WESTERN AVENUE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1275.198	0.016	388.681	0.005	2/1	2012	00000702
NGVD29	1274.584	0.016	388.494	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.781 12B = -96.771 09 = -96.686 03 = -96.506

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<u>Location:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/K_272-SJ0511-3W-23MAY2007.jpg	W	May 23, 2007
<u>Monument:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/K_272-SJ0511-2-23MAY2007.jpg		May 23, 2007
<u>Disk:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/K_272-SJ0511-1-23MAY2007.jpg		May 23, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28584.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28584.pdf



Geodetic Data Sheet (Brief)
GSID Station # 51493

K 273

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: K 273

NGS Name: K 273

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0720](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	18	52 N	21 W	465949.00	925443.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1999	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (2019)

Stamping: K 273 1948

4.9 MILES NORTH FROM FLOODWOOD, 4.9 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE HIGH SCHOOL AT FLOODWOOD, 0.25 MILE NORTHWEST OF THE JUNCTION OF A ROAD NORTH AND A TURN IN THE HIGHWAY WITH TANGENTS NORTHWEST AND SOUTH, AT A DIM EAST-WEST CROSSROAD, 45.0 FEET SOUTHWEST OF THE HIGHWAY, 25.0 FEET NORTH OF THE CROSSROAD, 2.0 FEET SOUTH OF A WHITE WOODEN WITNESS POST, 2.5 FEET BELOW THE HIGHWAY AND SET IN THE TOP OF A CONCRETE POST PROJECTING 4.0 INCHES.

Station Notes

1999 - THIS MARK WAS RESET IN 1950 AS K 273 RESET.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1258. 741	0. 016	383. 665	0. 005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -96.020 12B = -96.004 09 = -95.951 03 = -95.794

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_51493.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_51493.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28585

K 273 RESET

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: K 273 RESET

NGS Name: K 273 RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0721](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	7	52 N	20 W	465948.69	925445.30	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2001)

Stamping: K 273 RESET 1950

4.9 MILES NORTH ON TRUNK HIGHWAY 73 FROM THE HIGH SCHOOL AT FLOODWOOD, 0.25 MILE NORTHWEST ON TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND COUNTY ROAD 191 NORTH, AT A DIM EAST-WEST CROSSROAD, 63.8 FEET SOUTHWEST OF TRUNK HIGHWAY 73, 35.8 FEET NORTH OF A CROSSROAD, 1.0 FOOT NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1258.508	0.016	383.594	0.005	2/1	2021	00000963
NGVD29	1257.573	0.007	383.309	0.002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -96.020 12B = -960000 09 = -95.951 03 = -95.790

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 59 48.68619	92 54 45.30236	384559.883	226854.927	117214.087	69145.520	354.275		2012	GPS2800
NAD83 (2007)	46 59 48.68623	92 54 45.30321	384559.824	226854.931	117214.069	69145.521	354.303		2007	GPS2300
NAD83 (1996)	46 59 48.68602	92 54 45.30290	384559.846	226854.910	117214.075	69145.515	354.318	C	2003	GPS1769

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/K_273_RESET-RN0721-3S-12JUL2017.jpg	S	Jul 12, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/K_273_RESET-RN0721-2-12JUL2017.jpg		Jul 12, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/K_273_RESET-RN0721-1-12JUL2017.jpg		Jul 12, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28585.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28585.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: K 276

NGS Name: K 276

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0384](#) [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	30	55 N	19 W	471329.50	924836.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2007)

Stamping: K 276 1948

4.25 MILES NORTH OF A HIGH SCHOOL AT TOIVOLA, 1.0 MILE SOUTH OF THE JUNCTION OF COUNTY ROAD 5 AND COUNTY ROAD 750 AND A STORE, 30.0 FEET EAST OF COUNTY ROAD 5, 2.0 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1292. 573	0. 016	393. 977	0. 005	2/1	2012	00000702
NGVD29	1291. 802	0. 016	393. 742	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.703 12B = -97.700 09 = -97.631 03 = -97.477

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28586.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28586.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28588

K 279

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: K 279

NGS Name: K 279

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1335](#) [Get Map](#)
NGS Quad / Sta Num : 47093222/
USGS Quad: WAWINA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	8	53 N	21 W	470542.00	930108.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	NOT FOUND	Horz=NO Vert=NO	YES		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** K 279 1948

IN CEDAR VALLEY, AT A SCHOOL, 31.0 FEET SOUTHEAST OF OLD TRUNK HIGHWAY 73 (COUNTY ROAD 508), 89.0 FEET SOUTHWEST OF THE SOUTHWEST PORCH CORNER OF A SCHOOL, 69.0 FEET SOUTH OF THE SOUTH EDGE OF A SIDEWALK, 37.0 FEET NORTHWEST OF A FLAGPOLE, 4.0 FEET EAST OF A TELEPHONE POLE, 2.0 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1268. 829	0. 016	386. 740	0. 005	2/0	1991	00000025
NGVD29	1268. 101	0. 016	386. 518	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.666 12B = -96.660 09 = -96.611 03 = -96.443

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/K_279-SJ1335-3N-13JUL2017.jpg	N	Jul 13, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28588.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28588.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28589

K 28

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: K 28

NGS Name: K 28

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0056](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	51 N	17 W	465244.00	922958.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1934)

Stamping: K 28 1934

2.0 MILES EAST ON A RAILROAD FROM BURNETT, 49.5 FEET WEST OF RAILROAD MILEPOST 24, AT A ROAD CROSSING, 35.0 FEET NORTH OF THE NORTH TRACK OF A RAILROAD, 15.0 FEET WEST OF A ROAD, AT POLE NUMBER 255.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1312.350	0.016	400.005	0.005	2/0	1991	00000025
NGVD29	1311.894	0.016	399.866	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.721 12B = -94.718 09 = -94.606 03 = -94.422

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28589.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28589.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28601

K 30

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: K 30

NGS Name: K 30

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0684](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	29	51 N	18 W	465226.00	923927.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2004	GOOD	Horz=NO Vert=NO	NO		PROJECTS 10 IN.	STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1974)

Stamping: K 30 1974

2.6 MILES WEST FROM BROOKSTON, 2.6 MILES WEST ON A RAILROAD FROM THE JUNCTION OF A RAILROAD AND COUNTY ROAD 31, AT RAILROAD MILEPOINT 60.3, 28.5 FEET WEST OF A TELEPHONE POLE, 24.5 FEET SOUTH OF A RAILROAD, 9.0 FEET NORTH OF A RAILROAD RIGHT-OF-WAY FENCE, 0.7 FOOT WEST OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1234. 850	0. 016	376. 383	0. 005	2/0	1991	00000025
NGVD29	1234. 259	0. 016	376. 203	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.842 12B = -94.836 09 = -94.744 03 = -94.606

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28601.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28601.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108320

KAFUT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KAFUT

NGS Name: KAFUT

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	55 N	17 W	471331.84	922917.06	2	3

NGS ACRN: [DR1843](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 27 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: KAFUT 2017

3.9 MILES NORTH OF COTTON, 4.0 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 42.95, 30.9 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 5.0 FEET EAST OF A WITNESS POST.

Station Pair: FELTY - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1341. 231	0. 016	408. 808	0. 005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -97.789 12B = -97.785 09 = -97.713 03 = -97.519

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KAFUT-DR1843-3W-17OCT2017.jpg	W	Oct 17, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KAFUT-DR1843-2-17OCT2017.jpg		Oct 17, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KAFUT-DR1843-1-17OCT2017.jpg		Oct 17, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108320.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108320.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108092

KANGAS

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KANGAS

NGS Name: KANGAS

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1875](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	14	51 N	17 W	465354.69	922811.39	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 41 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** KANGAS 2017

12.7 MILES OF NORTH CLOQUET, 3.85 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 15.15, 39.1 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 33, 1.5 FEET WEST OF A WITNESS POST.

Station Pair: MOORE - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1334. 479 0. 016	406. 750 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.829 12B = -94.832 09 = -94.711 03 = -94.518

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KANGAS-DR1875-3E-15AUG2017.jpg	E	Aug 15, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KANGAS-DR1875-2-15AUG2017.jpg		Aug 15, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KANGAS-DR1875-1-15AUG2017.jpg		Aug 15, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108092.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108092.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28615

KELSEY

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KELSEY

NGS Name: KELSEY

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ2197](#) [Get Map](#)
NGS Quad / Sta Num : 47092324/1010
USGS Quad: MEADOWLANDS NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	18	54 N	18 W	471002.41	924037.75		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2021	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

TRIANGULATION STATION DISK

Mon. Agency

NGS

Description: (1952)

Stamping: KELSEY 1952

9.0 MILES EAST OF COTTON, 9.1 MILES WEST ALONG COUNTY ROAD 52 FROM THE JUNCTION OF COUNTY ROAD 52 AND TRUNK HIGHWAY 53, 25.4 FEET SOUTH OF COUNTY ROAD 52 (ARKOLA ROAD), 77.98 FEET WEST OF KELSEY RM 1, 81.90 FEET EAST OF KELSEY RM 2, 49.92 FEET WEST OF STATION Y 274, 1.5 FEET NORTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.579 12B = -97.579 09 = -97.490 03 = -97.303

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 10 02. 40766	92 40 37. 75249	443492. 661	288779. 937	135176. 834	88020. 301	366. 630	3	2021	GPSBM
NAD83 (1996)	47 10 02. 40770	92 40 37. 75245	443492. 664	288779. 941	135176. 834	88020. 302	366. 313	2	1999	17648
NAD83 (1986)	47 10 02. 40638	92 40 37. 75751	443492. 314	288779. 808	135176. 728	88020. 262		2	1986	17289
NAD27	47 10 02. 63200	92 40 37. 06400						2	1954	10724

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KELSEY-SJ2197-3S-27JUL2021.jpg	S	Jul 27, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KELSEY-SJ2197-2-27JUL2021.jpg		Jul 27, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KELSEY-SJ2197-1-27JUL2021.jpg		Jul 27, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28615.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28615.pdf



Geodetic Data Sheet (Brief)
GSID Station # 78701

KELSEY AZ MK

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KELSEY AZ MK

NGS Name: KELSEY AZ MK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ3166](#) [Get Map](#)
NGS Quad / Sta Num : 47092324/
USGS Quad: MEADOWLANDS NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	18	54 N	18 W	471002.00	924015.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO		PROJECTS 6 IN.	SEE DESCRIPTION

Monument Type

BLANK

Disk Type

AZIMUTH MARK DISK

Mon. Agency

NGS

Description: (1952)

Stamping: KELSEY 1952

5.55 MILES WEST FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON TO THE CROSSROADS, THEN 3.25 MILES WEST, 4.0 FEET SOUTH OF A WITNESS POST, 60.0 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 52 (ARKOLA ROAD).

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.579 12B = -97.579 09 = -97.487 03 = -97.300

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78701.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78701.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KELSEY RM 1

NGS Name: KELSEY RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ3167](#) [Get Map](#)
NGS Quad / Sta Num : 47092324/
USGS Quad: MEADOWLANDS NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	18	54 N	18 W	471002.38	924036.62		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

BLANK

Disk Type

REFERENCE MARK DISK

Mon. Agency

NGS

Description:

Stamping: KELSEY NO 1 1952

6.5 MILES EAST OF TOIVOLA, 9.1 MILES WEST ON COUNTY ROAD 52 FROM THE JUNCTION OF COUNTY ROAD 52 AND TRUNK HIGHWAY 53, 70.0 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 52 (ARKOLA ROAD) AND 2.0 FEET EAST OF THE EAST POST OF A GATE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.579 12B = -97.579 09 = -97.490 03 = -97.303

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78702.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78702.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KELSEY RM 2

NGS Name: KELSEY RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ3168](#) [Get Map](#)
NGS Quad / Sta Num : 47092324/
USGS Quad: MEADOWLANDS NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	18	54 N	18 W	471002.41	924038.94		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO		PROJECTS 12 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	REFERENCE MARK DISK	NGS

Description: (2019)

Stamping: KELSEY NO 2 1952

6.5 MILES EAST OF TOIVOLA, 9.1 MILES WEST ON COUNTY ROAD 52 FROM THE JUNCTION OF COUNTY ROAD 52 AND TRUNK HIGHWAY 53, 70.0 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 62 (ARKOLA ROAD) AND 61.0 FEET EAST OF A NORTHWEST FENCE CORNER OF A FIELD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.579 12B = -97.579 09 = -97.490 03 = -97.303

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78703.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78703.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107903

KEOUGH

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KEOUGH

NGS Name: KEOUGH

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9901](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	33	51 N	18 W	465117.42	923759.42	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 16 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2019) **Stamping:** KEOUGH 2017

14.3 MILES EAST-SOUTHEAST OF FLOODWOOD, 13.9 MILES SOUTHEAST AND EAST ALONG TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 236.45, 76.4 FEET NORTH OF TRUNK HIGHWAY 2, 41.2 FEET WEST OF DRIVEWAY NUMBER 9074, 1.5 FEET SOUTH OF A WITNESS POST.

Station Pair: BROOKSTON AZ MK - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1285. 719 0. 016	391. 888 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.659 12B = -94.655 09 = -94.563 03 = -94.413

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KEOUGH-DQ9901-3N-07AUG2017.jpg	N	Aug 7, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KEOUGH-DQ9901-2-07AUG2017.jpg		Aug 7, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KEOUGH-DQ9901-1-07AUG2017.jpg		Aug 7, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107903.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107903.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107834

KRISTEN

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KRISTEN

NGS Name: KRISTEN

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5136](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	15	53 N	21 W	470430.08	925855.72	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 59 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017)

Stamping: KRISTEN 2017

10.7 MILES NORTH-NORTHWEST OF FLOODWOOD, 11.8 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 55.0, 30.7 FEET EAST-NORTHEAST OF TRUNK HIGHWAY 73, 125.5 FEET NORTH-NORTHWEST OF MILEPOST NUMBER 55, 22.1 FEET SOUTH-SOUTHEAST OF AN ENTRANCE EXTENDED, 1.5 FEET WEST-SOUTHWEST OF A WITNESS POST.

Station Pair: RACHEL - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1251. 973 0. 016	381. 602 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.607 12B = -96.598 09 = -96.552 03 = -96.371

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KRISTEN-DR5136-3E-01AUG2017.jpg	E	Aug 1, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KRISTEN-DR5136-2-01AUG2017.jpg		Aug 1, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KRISTEN-DR5136-1-01AUG2017.jpg		Aug 1, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107834.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28630

KULLHEN MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KULLHEN MNDT

NGS Name: KULLHEN

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6510](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	15	52 N	17 W	465918.64	922818.23	2	C	1992	2017	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (1999)

Stamping: KULLHEN 1992

3.6 MILES SOUTH OF CANYON, 3.5 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 26.45, 112.3 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 191.5 FEET NORTH-NORTHEAST OF A POWER POLE, 101.6 FEET SOUTH-SOUTHEAST OF A POWER POLE, 2.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1354. 735 0. 016	412. 924 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.695 12B = -95.689 09 = -95.561 03 = -95.364

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 59 18. 64525	92 28 18. 23276	494575. 966	223471. 326	150747. 056	68114. 196	383. 762				2012	GPS2800
NAD83 (2007)	46 59 18. 64536	92 28 18. 23365	494575. 905	223471. 337	150747. 037	68114. 200	383. 789				2007	GPS2300
NAD83 (1996)	46 59 18. 64505	92 28 18. 23348	494575. 916	223471. 306	150747. 041	68114. 190	383. 821		C		2003	GPS1848
NAD83 (1986)	46 59 18. 64072	92 28 18. 23328	494575. 930	223470. 865	150747. 045	68114. 056			C		1993	H1993

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KULLHEN-DF6510-3W-19SEP2017.jpg	W	Sep 19, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KULLHEN-DF6510-2-19SEP2017.jpg		Sep 19, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KULLHEN-DF6510-1-19SEP2017.jpg		Sep 19, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28630.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28630.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28631

KUSS MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KUSS MNDT

NGS Name: KUSS

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1041](#)

[Get Map](#)

NGS Quad / Sta Num : 46092144/

USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	35	52 N	17 W	465642.30	922813.88	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 3 IN.	STEEL ROD IMBED IN MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

HORIZONTAL CONTROL DISK

Mon. Agency

MNDT

Description: (1992)

Stamping: KUSS 1978

6.0 MILES NORTH OF SAGINAW, 7.1 MILES NORTH ON TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2, 1.0 MILE SOUTHWEST OF INDEPENDENCE, AT TRUNK HIGHWAY 33 MILEPOINT 18.4, 1.0 MILE SOUTH ON TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 53, 63.5 FEET WEST OF TRUNK HIGHWAY 33, 33.0 FEET EAST OF A GRAVEL ROAD, 12.5 FEET SOUTH OF A POWER POLE, 2.9 FEET EAST OF A WITNESS POST, 46.57 FEET SOUTH OF KUSS RM 1, 57.79 FEET EAST-SOUTHEAST OF KUSS RM 2.

Station Notes

IN 1992 THE GEODETIC UNIT COULD NOT FIND THE STATION AND KUSS RM 1 AND KUSS RM 2-NEW ROAD CONSTRUCTION IN THE AREA.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1360.158	0.016	414.577	0.005	2/1	1991	00000025
NGVD29	1359.896	0.016	414.497	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -95.282 12B = -95.279 09 = -95.151 03 = -94.957

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>				<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>		<u>Longitude</u>		<u>X</u>	<u>Y</u>			<u>X</u>	<u>Y</u>					<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46	56	42.29941	92 28 13.87707	494873.808	207630.272			150837.838	63285.834			385.603	2	1999	17648
NAD83 (1986)	46	56	42.29347	92 28 13.87815	494873.733	207629.670			150837.816	63285.650				2	1986	17289
NAD27	46	56	42.50742	92 28 13.19150										2	1980	16254

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KUSS RM 1

NGS Name: KUSS RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1043](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	35	52 N	17 W	465642.75	922813.98	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 6 IN.	STEEL ROD IMBED IN MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

REFERENCE MARK DISK

Mon. Agency

MNDT

Description: (1978)

Stamping: KUSS NO. 1 1978

6.0 MILES NORTH OF SAGINAW, 7.1 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2, 1.0 MILE SOUTHWEST ON TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 53 IN INDEPENDENCE, 83.5 FEET NORTHWEST OF TRUNK HIGHWAY 33, AT TRUNK HIGHWAY 33 MILEPOINT 18.35, 25.0 FEET EAST OF A GRAVEL ROAD NORTH, 35.4 FEET NORTH-NORTHWEST OF A POWER POLE WITH A GUY WIRE, 46.6 FEET NORTH OF STATION KUSS MNDT, 58.4 FEET EAST-NORTHEAST OF KUSS RM 2, 46.2 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1361.634	0.016	415.027	0.005	2/1	1991	00000025
NGVD29	1361.372	0.016	414.947	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -95.282 12B = -95.282 09 = -95.154 03 = -94.960

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Geodetic Data Sheet (Brief)
GSID Station # 28633

KUSS RM 2

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KUSS RM 2

NGS Name: KUSS RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1042](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	35	52 N	17 W	465642.43	922814.69	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (1978)

Stamping: KUSS NO. 2 1978

15.5 MILES NORTH OF CLOQUET, 7.1 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 18.35, 170.9 FEET SOUTH-SOUTHWEST OF COUNTY ROAD 975 (NEW INDEPENDENCE ROAD), 111.03 FEET WEST-NORTHWEST OF SOUTHBOUND TRUNK HIGHWAY 33, 99.2 FEET SOUTHWEST OF A POWER POLE WITH 2 GUY WIRES, 1.0 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1361.352	0.016	414.941	0.005	2/1	2021	00000963
NGVD29	1361.109	0.016	414.867	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -95.282 12B = -95.279 09 = -95.154 03 = -94.960

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KUSS_RM_2-RN1042-3W-02AUG2017.jpg	W	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KUSS_RM_2-RN1042-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/KUSS_RM_2-RN1042-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28633.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28640

L 163

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: L 163

NGS Name: L 163

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0163](#) [Get Map](#)
 NGS Quad / Sta Num : 47092234/
 USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	34	55 N	17 W	471152.57	922918.47	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1999	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1999) **Stamping:** L 163 1935

1.6 MILES NORTH OF COTTON, NEAR THE OLD SCHOOL BUILDING, AT THE JUNCTION OF A GRAVEL ROAD TO SAX, 36.0 FEET NORTH OF A ROAD, 33.0 FEET WEST OF TRUNK HIGHWAY 53, 6.0 FEET NORTHWEST OF A POLE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1326.858	0.016	404.427	0.005	2/1	2012	00000702
NGVD29	1325.939	0.007	404.147	0.002	1	1958	L63 MINN

Geoid Separations(ft): GEOID18 = -97.628 12B = -97.624 09 = -97.536 03 = -97.339

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 11 52.57316	92 29 18.47006	490437.074	299862.902	149485.519	91398.395	374.670		2012	GPS2800
NAD83 (2007)	47 11 52.57328	92 29 18.47097	490437.011	299862.914	149485.500	91398.399	374.697		2007	GPS2300
NAD83 (1996)	47 11 52.57304	92 29 18.47070	490437.030	299862.890	149485.506	91398.392	374.705	C	2003	GPS1848
NAD83 (1986)	47 11 52.56730	92 29 18.47054	490437.040	299862.308	149485.509	91398.214		2	1991	GPS194
NAD27	47 11 52.80231	92 29 17.78901						2	1991	17504

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Geodetic Data Sheet (Brief)
GSID Station # 28663

L 271

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: L 271

NGS Name: L 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0695](#) [Get Map](#)
NGS Quad / Sta Num : 46092414/
USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	19	52 N	18 W	465842.87	924046.46	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2020	NOT FOUND	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

Monument Type

BLANK

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: L 271 1948

5.05 MILES WEST OF THE POST OFFICE IN ALBORN, AT A 90 DEGREE TURN IN COUNTY ROAD 166 (EAST AND SOUTH) AND COUNTY ROAD 167 (NORTHWEST), 26.0 FEET NORTH OF THE EAST TANGENT OF COUNTY ROAD 166, 289.0 FEET NORTHEAST OF COUNTY ROAD 167, 311.0 FEET NORTH-NORTHEAST OF THE NORTHEAST CORNER OF A BRIDGE ON THE SOUTH TANGENT, 37.0 FEET WEST OF A TRAIL NORTH, 2.0 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1287. 035	0. 016	392. 289	0. 005	2/0	1991	00000025
NGVD29	1286. 477	0. 016	392. 119	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.866 12B = -95.850 09 = -95.751 03 = -95.594

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28663.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: L 272

NGS Name: L 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0510](#) [Get Map](#)
NGS Quad / Sta Num : 47092323/
USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	53 N	19 W	470412.00	924255.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - LARGE	BENCH MARK DISK	NGS

Description: (1964)

Stamping: L 272 1948

0.95 MILE EAST ON COUNTY ROAD 133 FROM THE HIGH SCHOOL AT MEADOWLANDS, IN THE SOUTH END OF THE EAST ABUTMENT OF A COUNTY ROAD 133 BRIDGE OVER THE WHITEFACE RIVER, 12.0 FEET SOUTH OF COUNTY ROAD 133, 2.0 FEET SOUTH OF A BRIDGE RAIL.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1267. 412	0. 016	386. 308	0. 005	2/0	1991	00000025
NGVD29	1266. 805	0. 016	386. 123	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.775 12B = -96.768 09 = -96.673 03 = -96.493

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28664.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28664.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: L 273

NGS Name: L 273

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	7	52 N	20 W	470031.00	925522.00	2	

NGS ACRN: [SJ0499](#)

[Get Map](#)

NGS Quad / Sta Num : 47092333/

USGS Quad: TOIVOLA SW

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1950	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (2019)

Stamping: L 273 1948

5.9 MILES NORTH FROM FLOODWOOD, 5.9 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE HIGH SCHOOL AT FLOODWOOD, ABOUT 0.45 MILE SOUTHEAST OF THE JUNCTION OF A GRAVEL ROAD WEST, AT THE CROSSING OF A POWER LINE, AT THE OUTSIDE OF A CURVE SOUTH AND NORTHWEST, 28.0 FEET NORTHEAST OF TRUNK HIGHWAY 73, 144.0 FEET NORTHWEST OF THE NORTHEAST END OF A 40.0-INCH DIAMETER PIPE CULVERT UNDER THE HIGHWAY, ABOUT 25.0 FEET WEST OF THE PROLONGED SOUTH TANGENT OF THE HIGHWAY, 11.0 FEET SOUTHEAST OF A POWER POLE AND IN LINE WITH THE ROW OF POLES, 2.0 FEET SOUTHEAST OF A WHITE WOODEN WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1247.150	0.016	380.132	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -96.122 12B = -96.105 09 = -96.056 03 = -95.892

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: L 273 RESET

NGS Name: L 273 RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0500](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	7	52 N	20 W	470031.08	925513.05		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2017	NOT FOUND	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1950) **Stamping:** L 273 RESET 1950

5.8 MILES NORTH ON TRUNK HIGHWAY 73 FROM THE HIGH SCHOOL AT FLOODWOOD, AT THE JUNCTION OF TRUNK HIGHWAY 73 AND COUNTY ROAD 148 WEST, 86.0 FEET WEST OF TRUNK HIGHWAY 73, 62.0 FEET SOUTH OF COUNTY ROAD 148, IN LINE WITH A POWER LINE, 24.0 FEET SOUTH OF A POWER POLE, 11.6 FEET WEST OF A POLE, 2.0 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	1246.595	0.007	379.963	0.002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -96.125 12B = -96.109 09 = -96.060 03 = -95.895

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28665.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28665.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28666

L 274

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: L 274

NGS Name: L 274

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1373](#) [Get Map](#)
NGS Quad / Sta Num : 47093222/
USGS Quad: WAWINA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	7	53 N	21 W	470504.00	930253.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2021	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** L 274 1948

5.55 MILES NORTHEAST OF WAWINA, AT A CROSSROAD, 35.0 FEET NORTH OF COUNTY ROAD 133, 29.0 FEET WEST OF A NORTH-SOUTH ROAD, 11.0 FEET WEST OF A POWER POLE AT A TURN IN A POWER LINE, 5.5 FEET EAST OF A REFERENCE POINT TO A GOVERNMENT LOT CORNER, 2.0 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1266.408	0.016	386.002	0.005	2/0	1991	00000025
NGVD29	1265.670	0.016	385.777	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.548 12B = -96.542 09 = -96.489 03 = -96.332

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Geodetic Data Sheet (Brief)
GSID Station # 28667

L 276

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: L 276

NGS Name: L 276

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0383](#) [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	19	55 N	19 W	471422.24	924835.27	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** L 276 1948

5.3 MILES NORTH OF THE HIGH SCHOOL IN TOIVOLA, 4.0 MILES SOUTH ALONG COUNTY ROAD 5 FROM THE CROSSROADS IN LITTLE SWAN, AT THE JUNCTION OF COUNTY ROAD 5 AND COUNTY ROAD 750, 81.0 FEET EAST OF COUNTY ROAD 5, 31.0 FEET SOUTH OF COUNTY ROAD 750, 46.5 FEET EAST OF A FENCE CORNER, 1.5 FEET NORTH OF A FENCE, 2.0 FEET WEST OF A WITNESS POST.

Station Notes

THE AREA HAS BEEN REGRADED.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1286.503	0.016	392.127	0.005	2/0	1991	00000025
NGVD29	1285.798	0.016	391.912	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.743 12B = -97.743 09 = -97.670 03 = -97.526

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28667.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28667.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28669

L 279 1948

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: L 279 1948

NGS Name: L 279

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1334](#) [Get Map](#)
NGS Quad / Sta Num : 47093222/
USGS Quad: WAWINA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	4	53 N	21 W	470612.60	930037.60	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** L 279 1948

12.0 MILES NORTHWEST OF FLOODWOOD, 14.4 MILES NORTHWEST ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, THEN 0.60 MILE WEST ALONG VAN HORN ROAD, THEN 0.40 MILE SOUTH ON CEDAR VALLEY ROAD, 27.0 FEET EAST OF CEDAR VALLEY ROAD, 1.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1276.411	0.016	389.051	0.005	2/0	1991	00000025
NGVD29	1275.680	0.016	388.828	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.732 12B = -96.722 09 = -96.676 03 = -96.509

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/L_279-SJ1334-3E-12JUL2017.jpg	E	Jul 12, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/L_279-SJ1334-2-12JUL2017.jpg		Jul 12, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/L_279-SJ1334-1-12JUL2017.jpg		Jul 12, 2017

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Geodetic Data Sheet (Brief)
GSID Station # 28670

L 28

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: L 28

NGS Name: L 28

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0613](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	17	51 N	17 W	465403.00	923128.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2019) **Stamping:** L 28 1934

AT BURNETT, 2.5 RAILS EAST ON A RAILROAD FROM THE RAILROAD STATION, 1 RAIL EAST OF A ROAD CROSSING, 40.0 FEET SOUTH OF THE MAIN RAILROAD TRACK.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1306.126	0.016	398.108	0.005	2/0	1991	00000025
NGVD29	1305.647	0.016	397.962	0.005	2/0	1992	UNCHECKD
Geoid Separations(ft): GEOID18 = -94.977 12B = -94.980 09 = -94.859 03 = -94.675							
* No Horizontal Positions in the Database *							

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: L 30

NGS Name: L 30

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1214](#) [Get Map](#)
NGS Quad / Sta Num : 46092414/
USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	25	51 N	19 W	465236.00	924121.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2017	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	SURVEY DISK	NGS

Description: (1934) **Stamping:** L 30 1934

4.0 MILES WEST ON A RAILROAD FROM BROOKSTON, 115.5 FEET EAST OF RAILROAD MILEPOST 62, 21 RAILS EAST OF A RAILROAD SEMAPHORE, AT A FARM ROAD CROSSING, 30.0 FEET SOUTH OF A RAILROAD, ON THE WEST SIDE OF A GATE.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1236.605	0.016	376.918	0.005	2/0	1991	00000025
NGVD29	1235.962	0.007	376.722	0.002	1	1934	L13 MINN

Geoid Separations(ft): GEOID18 = -94.885 12B = -94.875 09 = -94.783 03 = -94.652

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28683.pdf



Geodetic Data Sheet (Brief)
GSID Station # 41631

LADYBEAR MN137

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LADYBEAR MN137

NGS Name: LADYBEAR

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF9121](#) [Get Map](#)
NGS Quad / Sta Num : 47092322/
USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	10	53 N	18 W	470543.96	923556.36	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2007	GOOD	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 16 FT)	SURVEY DISK	MN-137

Description: (2002) **Stamping:** LADYBEAR 2001

9.0 MILES NORTH OF ALBORN, 9.0 MILES NORTH ALONG COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND COUNTY ROAD 47 IN ALBORN, 0.2 MILE SOUTH OF THE JUNCTION OF COUNTY ROAD 7 AND COUNTY ROAD 232, 70.0 FEET WEST OF COUNTY ROAD 7, 10.0 FEET SOUTH OF A SOUTH GATE POST AT A RAILROAD CROSSING, 28.5 FEET EAST OF THE RAILROAD TRACKS, 2.0 FEET EAST OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1311.011 0.016	399.597 0.005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -96.949 12B = -96.942 09 = -96.831 03 = -96.644

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u> <u>Latitude</u> <u>Longitude</u>	<u>County (Feet)</u> <u>X</u> <u>Y</u>	<u>County (Meters)</u> <u>X</u> <u>Y</u>	<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAD83 (2011)	47 05 43.95580 92 35 56.36071	462887.256 262546.097	141088.318 80024.211	370.041		2012 GPS2800
NAD83 (2007)	47 05 43.95588 92 35 56.36161	462887.194 262546.105	141088.299 80024.213	370.068		2007 GPS2300
NAD83 (1996)	47 05 43.95568 92 35 56.36135	462887.212 262546.085	141088.304 80024.207	370.087	C	2003 GPS1931

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/LADYBEAR-DF9121-3W-22MAY2007.jpg	W	May 22, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/LADYBEAR-DF9121-2-22MAY2007.jpg		May 22, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/LADYBEAR-DF9121-1-22MAY2007.jpg		May 22, 2007

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Geodetic Data Sheet (Brief)
GSID Station # 107835

LAURA

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LAURA

NGS Name: LAURA

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5127](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	7	52 N	20 W	470002.09	925454.81	2	3	2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 39 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** LAURA 2017

5.25 MILES NORTH OF FLOODWOOD, 5.6 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 48.75, 62.4 FEET EAST-NORTHEAST OF TRUNK HIGHWAY 73, 22.1 FEET SOUTH-SOUTHEAST OF A FIELD ENTRANCE, 1.5 FEET WEST-SOUTHWEST OF A WITNESS POST.

Station Pair: ADAM MNDT RESET - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1253. 728	0. 016	382. 137	0. 005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -96.053 12B = -96.037 09 = -95.984 03 = -95.823

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/LAURA-DR5127-3E-31JUL2017.jpg	E	Jul 31, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/LAURA-DR5127-2-31JUL2017.jpg		Jul 31, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/LAURA-DR5127-1-31JUL2017.jpg		Jul 31, 2017

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Geodetic Data Sheet (Brief)
GSID Station # 41633

LAURIE MN137

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LAURIE MN137

NGS Name: LAURIE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF9123](#) [Get Map](#)
NGS Quad / Sta Num : 46093111/
USGS Quad: ISLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	20	51 N	21 W	465348.08	930202.57		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2020	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 29 FT)

Disk Type

SURVEY DISK

Mon. Agency

MN-137

Description: (2002)

Stamping: LAURIE 2001

6.0 MILES SOUTHWEST OF FLOODWOOD, 1.7 MILES WEST ON COUNTY ROAD 832 (FLOODWOOD ROAD) FROM THE JUNCTION OF COUNTY ROAD 832 AND TRUNK HIGHWAY 73 IN FLOODWOOD, THEN 0.50 MILE SOUTH ON COUNTY ROAD 186 (SAVANNA ROAD), THEN 4.50 MILES WEST AND SOUTHWEST ON COUNTY ROAD 837 (LAURIE ROAD), 22.0 FEET SOUTH OF COUNTY ROAD 837, 0.2 MILE EAST OF LAURIE ROAD, 2.0 FEET NORTH OF A WITNESS POST, 1000.0 FEET EAST OF THE NORTHWEST CORNER OF SECTION 20.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.983 12B = -94.977 09 = -94.882 03 = -94.783

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 53 48.08462	93 02 02.56671	353976.673	190522.225	107892.306	58071.290	352.919				2012	GPS2800
NAD83 (2007)	46 53 48.08473	93 02 02.56758	353976.612	190522.236	107892.287	58071.294	352.948				2007	GPS2300
NAD83 (1996)	46 53 48.08444	93 02 02.56725	353976.635	190522.207	107892.294	58071.285	352.974	C			2003	GPS1931

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/LAURIE-DF9123-3S-07JUL2020.jpg	S	Jul 7, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/LAURIE-DF9123-2-07JUL2020.jpg		Jul 7, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/LAURIE-DF9123-1-07JUL2020.jpg		Jul 7, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41633.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41633.pdf



Geodetic Data Sheet (Brief)
GSID Station # 41634

LEINO MN137

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LEINO MN137

NGS Name: LEINO

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF9124](#) [Get Map](#)
NGS Quad / Sta Num : 47092324/
USGS Quad: MEADOWLANDS NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	22	54 N	19 W	470817.93	924414.12		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2020	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 26 FT)	SURVEY DISK	MN-137

Description: (2002)

Stamping: LEINO 2001

3.5 MILES EAST-SOUTHEAST OF TOIVOLA, 2.0 MILES EAST ALONG COUNTY ROAD 52 (ARKOLA ROAD) FROM THE JUNCTION OF COUNTY ROAD 52 AND COUNTY ROAD 5 IN TOIVOLA, THEN 2.05 MILES SOUTH ON COUNTY ROAD 230 (OVERTON ROAD), THEN 1.55 MILES EAST ON COUNTY ROAD 980, 0.5 MILE WEST OF COUNTY ROAD 202 (OWL AVENUE) FROM THE JUNCTION OF COUNTY ROAD 202 AND COUNTY ROAD 980, 28.0 FEET NORTH OF COUNTY ROAD 980, 23.2 FEET EAST OF THE EXTENDED CENTERLINE OF DRIVEWAY NUMBER 9998, 2.0 FEET SOUTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.359 12B = -97.352 09 = -97.277 03 = -97.083

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 08 17. 92664	92 44 14. 11509	428503. 105	278242. 629	130608. 008	84808. 523	363. 685				2012	GPS2800
NAD83 (2007)	47 08 17. 92670	92 44 14. 11599	428503. 043	278242. 635	130607. 989	84808. 525	363. 711				2007	GPS2300
NAD83 (1996)	47 08 17. 92651	92 44 14. 11573	428503. 061	278242. 615	130607. 994	84808. 519	363. 728	C			2003	GPS1931

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/LEINO-DF9124-3N-13JUL2020.jpg	N	Jul 13, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/LEINO-DF9124-2-13JUL2020.jpg		Jul 13, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/LEINO-DF9124-1-13JUL2020.jpg		Jul 13, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41634.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41634.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28729

M 163

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: M 163

NGS Name: M 163

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0164](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	10	54 N	17 W	471029.10	922842.53	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2019) **Stamping:** M 163 1935

IN COTTON, 0.05 MILE WEST ALONG COUNTY ROAD 52 FROM THE JUNCTION OF COUNTY ROAD 52 AND TRUNK HIGHWAY 53 IN COTTON, THEN 0.4 MILE NORTH ON A FRONTAGE ROAD, IN A PARK OPPOSITE A SCHOOL, 139.0 FEET WEST-SOUTHWEST OF A FRONTAGE ROAD, 126.0 FEET EAST-NORTHEAST OF A FLAG POLE, 7.8 FEET EAST OF THE EAST EDGE OF A BITUMINOUS PARKING LOT IN A GRASS AREA IN THE FRONT OF AN OLD SCHOOL BUILDING, 52.0 FEET SOUTH OF A LIGHT POLE, 105.0 FEET SOUTHWEST OF A FENCE LINE.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1330.234	0.016	405.456	0.005	2/1	2021	00000963
NGVD29	1329.617	0.016	405.268	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.434 12B = -97.431 09 = -97.332 03 = -97.132

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/M_163-SJ0164-3E-14SEP2017.jpg	E	Sep 14, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/M_163-SJ0164-2-14SEP2017.jpg		Sep 14, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/M_163-SJ0164-1-14SEP2017.jpg		Sep 14, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28729.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28729.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28759

M 271

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: M 271

NGS Name: M 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0696](#) [Get Map](#)
NGS Quad / Sta Num : 46092414/
USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	19	52 N	18 W	465816.65	924047.20	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=NO Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** M 271 1948

5.6 MILES SOUTHWEST OF ALBORN, AT A 90 DEGREE TURN IN COUNTY ROAD 166 (NORTH AND WEST) AND A ROAD EAST AND A TRAIL SOUTH, 28.0 FEET EAST OF THE NORTH TANGENT OF COUNTY ROAD 166, 97.0 FEET NORTH OF A ROAD EAST AND THE WEST TANGENT OF COUNTY ROAD 166 EXTENDED, 65.0 FEET SOUTH OF A BOULDER, 2.0 FEET SOUTH OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1322.540	0.016	403.111	0.005	2/0	1991	00000025
NGVD29	1321.979	0.016	402.940	0.005	2/0	1992	UNCHECKD
Geoid Separations(ft): GEOID18 = -95.790 12B = -95.777 09 = -95.682 03 = -95.525							
* No Horizontal Positions in the Database *							

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28759.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28759.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28760

M 272

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: M 272

NGS Name: M 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0509](#) [Get Map](#)
NGS Quad / Sta Num : 47092323/
USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	13	53 N	19 W	470415.00	924207.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** M 272 1948

1.6 MILES EAST ON COUNTY ROAD 133 FROM THE HIGH SCHOOL AT MEADOWLANDS, 0.65 MILE EAST OF A COUNTY ROAD 133 BRIDGE OVER THE WHITEFACE RIVER, AT THE JUNCTION OF COUNTY ROAD 133 AND COUNTY ROAD 47 SOUTH-GRAVEL ROAD NORTH, 32.0 FEET NORTH OF COUNTY ROAD 133, 23.0 FEET EAST OF A ROAD NORTH, 6.5 FEET EAST OF A TELEPHONE POLE, 2.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1274. 952	0. 016	388. 606	0. 005	2/0	1991	00000025
NGVD29	1274. 348	0. 016	388. 422	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.788 12B = -96.778 09 = -96.683 03 = -96.502

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28760.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28760.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28761

M 273

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: M 273

NGS Name: M 273

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0501](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	1	52 N	20 W	470110.00	925618.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	NOT FOUND	Horz=NO Vert=NO	NO		PROJECTS 6 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: M 273 1948

5.8 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE HIGH SCHOOL IN FLOODWOOD, THEN 1.25 MILES NORTHWEST ON COUNTY ROAD 148 (OLD TRUNK HIGHWAY 73), 30.0 FEET WEST OF COUNTY ROAD 148, 32.0 FEET NORTH OF A GRASSY DRIVE WEST, 2.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1251.536	0.016	381.469	0.005	2/0	1991	00000025
NGVD29	1250.867	0.007	381.265	0.002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -96.214 12B = -96.197 09 = -96.148 03 = -95.977

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28761.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28761.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28762

M 274

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: M 274

NGS Name: M 274

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1372](#) [Get Map](#)
NGS Quad / Sta Num : 47093222/
USGS Quad: WAWINA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	8	53 N	21 W	470506.00	930116.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	NOT FOUND	Horz=NO Vert=NO	YES		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** M 274 1948

6.8 MILES NORTHEAST OF WAWINA, 0.2 MILE WEST ALONG COUNTY ROAD 133 FROM THE JUNCTION OF COUNTY ROAD 133 AND COUNTY ROAD 508 (OLD TRUNK HIGHWAY 73) AND CEDAR VALLEY TOWNSHIP HALL, 330.0 FEET SOUTH OF A CEMETERY CHAPEL, 43.0 FEET NORTH OF A GRAVEL ROAD, 16.0 FEET EAST OF A CEMETERY DRIVE, 1.5 FEET WEST OF A FENCE, 16.5 FEET NORTH OF A FENCE CORNER, 2.0 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1266.592	0.016	386.058	0.005	2/0	1991	00000025
NGVD29	1265.867	0.016	385.837	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.607 12B = -96.598 09 = -96.548 03 = -96.381

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/M_274-SJ1372-3W-13JUL2017.jpg	W	Jul 13, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28762.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28762.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28763

M 276

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: M 276

NGS Name: M 276

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0382](#) [Get Map](#)
NGS Quad / Sta Num : 47092342/
USGS Quad: LITTLE SWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	18	55 N	19 W	471501.00	924838.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

BRIDGE ABUTMENT

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1989)

Stamping: M 276 1948

3.3 MILES SOUTH ON COUNTY ROAD 5 FROM THE CROSSROADS AT LITTLE SWAN, 0.75 MILE NORTH OF A CROSSROAD AND A STORE, IN THE EAST END OF THE NORTH ABUTMENT OF A COUNTY ROAD 5 BRIDGE OVER THE SWAN RIVER, 17.0 FEET EAST OF A COUNTY ROAD 5, 2.5 FEET EAST OF BRIDGE BANISTER.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1273.629	0.016	388.203	0.005	2/0	1991	00000025
NGVD29	1272.917	0.007	387.986	0.002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -97.772 12B = -97.775 09 = -97.700 03 = -97.565

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28763.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28763.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28764

M 279

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: M 279

NGS Name: M 279

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0489](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	34	54 N	21 W	470634.00	925949.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2005	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2002) **Stamping:** M 279 1948

1.95 MILES NORTH OF A SCHOOL AT CEDAR VALLEY, AT A TURN IN A HIGHWAY NORTH AND WEST AND A ROAD EAST, 105.0 FEET EAST OF TRUNK HIGHWAY 73, 29.0 FEET NORTH OF A ROAD EAST, 4.5 FEET SOUTH OF A POWER LINE, 65.0 FEET WEST OF A POWER POLE, 2.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1276.392	0.016	389.045	0.005	2/0	1991	00000025
NGVD29	1275.654	0.007	388.820	0.002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -96.791 12B = -96.785 09 = -96.739 03 = -96.565

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/M_279-SJ0489-3W-12JUL2017.jpg	W	Jul 12, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28764.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28764.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: M 28

NGS Name: M 28

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0614](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	7	51 N	17 W	465445.00	923310.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1953	NOT FOUND	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1934) **Stamping:** M 28 1934

IN DULUTH, 5940.0 FEET SOUTH OF THE CITY LIMITS, ON THE BROW OF A HILL ALONG A STRAIGHT LINE AND ON THE EXTENSION OF ARLINGTON AVENUE, 1.0 MILE EAST OF CULVER, ALONG A RAILROAD, 10 RAILS EAST OF THE STATION 1.0 MILE SIGN, AT A PRIVATE ROAD CROSSING, 0.5 MILE SOUTH OF MILLER TRUNK ROAD, 73.1 FEET SOUTH OF AN EAST-WEST FENCE, 61.4 FEET SOUTHWEST OF A ROCK, 45.0 FEET NORTH OF A RAILROAD, 42.3 FEET SOUTH OF A CLUSTER OF BIRCH TREES.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1307.944	0.016	398.662	0.005	2/0	1991	00000025
NGVD29	1307.438	0.016	398.508	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.131 12B = -95.131 09 = -95.016 03 = -94.839

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28765.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28765.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28782

M 30

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: M 30

NGS Name: M 30

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1213](#) [Get Map](#)
NGS Quad / Sta Num : 46092414/
USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	27	51 N	19 W	465252.00	924324.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

BLANK

Disk Type

SEE DESCRIPTION

Mon. Agency

NGS

Description: (1934)

Stamping: M 30 1934

2.0 MILES EAST ON A RAILROAD FROM THE RAILROAD STATION AT PAUPORES, 30.0 FEET NORTH OF A RAILROAD, AT RAILROAD MILEPOINT 63.5, 99.0 FEET WEST OF A SEMAPHORE, 150.0 FEET SOUTH OF A FARMHOUSE, 75.0 FEET SOUTHWEST OF A BARN, ON THE OUTSIDE EDGE OF A CURVE AT A FARM ROAD CROSSING, 20.0 FEET EAST OF A ROAD.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1231. 956	0. 016	375. 501	0. 005	2/0	1991	00000025
NGVD29	1231. 297	0. 007	375. 300	0. 002	1	1934	L13 MINN

Geoid Separations(ft): GEOID18 = -94.944 12B = -94.931 09 = -94.849 03 = -94.714

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28782.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28782.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MACAGNONE

NGS Name: MACAGNONE

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	54 N	21 W	470755.90	925948.65	2	3

NGS ACRN: [DR5141](#) [Get Map](#)
NGS Quad / Sta Num : 47092334/
USGS Quad: UPSTEAD LAKE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 44 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** MACAGNONE 2017

21.1 MILES SOUTH-SOUTHWEST OF HIBBING, 19.65 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 59.1, 27.4 FEET EAST OF TRUNK HIGHWAY 73, 5.0 FEET WEST OF A WITNESS POST.

Station Pair: MAIA - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1283. 551 0. 016	391. 227 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.909 12B = -96.903 09 = -96.860 03 = -96.686

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MACAGNONE-DR5141-3E-01AUG2017.jpg	E	Aug 1, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MACAGNONE-DR5141-2-01AUG2017.jpg		Aug 1, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MACAGNONE-DR5141-1-01AUG2017.jpg		Aug 1, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107836.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107836.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MAIA

NGS Name: MAIA

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5140](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	34	54 N	21 W	470727.08	925949.87	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 49 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** MAIA 2017

21.6 MILES SOUTH-SOUTHWEST OF HIBBING, 20.2 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 58.55, 31.1 FEET WEST OF TRUNK HIGHWAY 73, 1.5 FEET EAST OF A WITNESS POST.

Station Pair: MACAGNONE - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1273. 239 0. 016	388. 084 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.867 12B = -96.860 09 = -96.817 03 = -96.644

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MAIA-DR5140-3W-02AUG2017.jpg	W	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MAIA-DR5140-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MAIA-DR5140-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107837.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107837.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28815

MANN MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MANN MNDT

NGS Name: MANN

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0759](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/1057
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	31	51 N	18 W	465120.43	923959.16	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1997	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (1997) **Stamping:** MANN 1974

3.3 MILES WEST-SOUTHWEST OF BROOKSTON, 3.05 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31, AT TRUNK HIGHWAY 2 MILEPOINT 234.85, 90.0 FEET NORTH OF TRUNK HIGHWAY 2, 11.2 FEET SOUTH OF A TELEPHONE CABLE MARKER NUMBER B20LP5, 13.5 FEET SOUTHWEST OF A RIGHT-OF-WAY POST, 18.2 FEET SOUTHEAST OF A POWER POLE WITH A GUY WIRE, 4.0 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1343.737	0.016	409.572	0.005	2/0	1991	00000025
NGVD29	1343.114	0.016	409.382	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.675 12B = -94.672 09 = -94.583 03 = -94.442

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info			
	Latitude		Longitude		X	Y	X	Y			Year	Reference		
NAD83 (1996)	46	51	20.43154	92	39	59.15970	445845.600	175093.039	135894.011	53368.465	380.765	2	1999	17648
NAD83 (1986)	46	51	20.42509	92	39	59.16135	445845.483	175092.386	135893.975	53368.266		2	1986	17289
NAD27	46	51	20.62249	92	39	58.46106						2	1977	15924

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28815.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28815.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107838

MARK

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MARK

NGS Name: MARK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5144](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	9	54 N	21 W	471006.80	930031.20	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 54 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** MARK 2017

18.5 MILES SOUTH-SOUTHWEST OF HIBBING, 17.1 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 61.7, 28.4 FEET EAST OF TRUNK HIGHWAY 73, 1.5 FEET WEST OF A WITNESS POST.

Station Pair: DANIELLE - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1308.951 0.016	398.969 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.034 12B = -97.037 09 = -96.978 03 = -96.824

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MARK-DR5144-3E-01AUG2017.jpg	E	Aug 1, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MARK-DR5144-2-01AUG2017.jpg		Aug 1, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MARK-DR5144-1-01AUG2017.jpg		Aug 1, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107838.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107838.pdf



Geodetic Data Sheet (Brief)
GSID Station # 41635

MCGONAGLE MN137

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MCGONAGLE MN137

NGS Name: MCGONAGLE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF9125](#) [Get Map](#)
NGS Quad / Sta Num : 46092441/
USGS Quad: MCCARTY RIVER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>				
SE	1	51 N	20 W	465529.19	924830.41		C				
<u>Year Set</u>	<u>Last Recovery</u>			<u>Condition</u>	<u>Geodetic Usability</u>		<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>	
2001	2021			POOR	Horz=NO Vert=NO		YES		FLUSH	MARKER W/BAR MAGNET	

Monument Type **Disk Type** **Mon. Agency**
 ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT) SURVEY DISK MN-137

Description: (2002) **Stamping:** MCGONAGLE 2001

5.0 MILES EAST OF FLOODWOOD, 5.2 MILES EAST ALONG COUNTY ROAD 8 (FIFTH AVENUE) FROM THE JUNCTION OF COUNTY ROAD 8 (FIFTH AVENUE) AND TRUNK HIGHWAY 73 (ELM STREET) IN FLOODWOOD, 550.0 FEET WEST OF COUNTY ROAD 170 (MCGONAGLE ROAD), 36.0 FEET NORTH OF COUNTY ROAD 8 (SAINT VINCENT ROAD), 2.0 FEET SOUTH OF A WITNESS POST.

Station Notes

FOUND CAP LOOSE. USE WITH CAUTION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.361 12B = -95.341 09 = -95.269 03 = -95.138

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 55 29.18760	92 48 30.41129	410427.214	200426.726	125098.465	61090.188	368.679				2012	GPS2800
NAD83 (2007)	46 55 29.18771	92 48 30.41216	410427.153	200426.737	125098.447	61090.192	368.706				2007	GPS2300
NAD83 (1996)	46 55 29.18741	92 48 30.41181	410427.178	200426.707	125098.454	61090.182	368.732	C			2003	GPS1931

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MCGONAGLE-DF9125-1-03JUN2003.jpg		Jun 3, 2003

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41635.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41635.pdf



Geodetic Data Sheet (Brief)
GSID Station # 41636

MCKAY MN137

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MCKAY MN137

NGS Name: MCKAY

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF9126](#) [Get Map](#)
NGS Quad / Sta Num : 47092321/
USGS Quad: KELSEY

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	54 N	18 W	471005.92	923615.17		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2021	GOOD	Horz=YES Vert=YES	YES		RECESSED 24 IN.	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 31 FT)

Disk Type

SURVEY DISK

Mon. Agency

MN-137

Description: (2002)

Stamping: MCKAY 2001

1.5 MILES NORTH OF KELSEY, 1.5 MILES NORTH ALONG COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND COUNTY ROAD 29 IN KELSEY, THEN 0.2 MILE WEST ON COUNTY ROAD 52, 0.1 MILE WEST OF THE RAILROAD TRACKS, 73.0 FEET EAST OF A BRIDGE OVER A DRAINAGE DITCH, 27.0 FEET SOUTH OF COUNTY ROAD 52, 3.0 FEET WEST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.565 12B = -97.569 09 = -97.460 03 = -97.277

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 10 05.92485	92 36 15.17183	461637.863	289092.180	140707.502	88115.473	366.463		2012	GPS2800
NAD83 (2007)	47 10 05.92495	92 36 15.17273	461637.801	289092.190	140707.483	88115.476	366.491		2007	GPS2300
NAD83 (1996)	47 10 05.92481	92 36 15.17247	461637.819	289092.176	140707.489	88115.471	366.508	C	2003	GPS1931

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MCKAY-DF9126-1-03JUN2003.jpg		Jun 3, 2003

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41636.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41636.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28825

MEADOWLANDS

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MEADOWLANDS

NGS Name: MEADOWLANDS

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ2196](#) [Get Map](#)
NGS Quad / Sta Num : 47092323/1013
USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	15	53 N	19 W	470411.42	924346.53	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2021	NOT FOUND	Horz=NO Vert=NO	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

Description: (2019) **Stamping:** MEADOWLANDS 1952

AT THE EAST EDGE OF MEADOWLANDS, 0.15 MILE EAST ON COUNTY ROAD 133 FROM COUNTY ROAD 29 (CENTRAL AVENUE), 65.0 FEET NORTH OF COUNTY ROAD 133, 122.0 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A HIGHWAY DEPARTMENT BUILDING, 3.0 FEET SOUTH OF A WITNESS POST, 88.14 FEET SOUTH-SOUTHWEST OF MEADOWLANDS RM 1, 89.38 FEET EAST-NORTHEAST OF MEADOWLANDS RM 2.

Station Notes

NEW PARKING LOT AND ENTRANCE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1275.637 0.016	388.815 0.005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -96.771 12B = -96.765 09 = -96.676 03 = -96.496

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u> <u>Latitude</u> <u>Longitude</u>	<u>County (Feet)</u> <u>X</u> <u>Y</u>	<u>County (Meters)</u> <u>X</u> <u>Y</u>	<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAD83 (1996)	47 04 11.41767 92 43 46.52997	430321.205 253258.901	131162.166 77193.467	359.556	2	1999 17648
NAD83 (1986)	47 04 11.41489 92 43 46.53554	430320.818 253258.620	131162.048 77193.382		2	1986 17289
NAD27	47 04 11.63100 92 43 45.84000				2	1954 10724

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MEADOWLANDS-SJ2196-3N-23MAY2007.jpg	N	May 23, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MEADOWLANDS-SJ2196-2-23MAY2007.jpg		May 23, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MEADOWLANDS-SJ2196-1-23MAY2007.jpg		May 23, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28825.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28825.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MEADOWLANDS AZ MK

NGS Name: MEADOWLANDS AZ MK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ3306](#) [Get Map](#)
NGS Quad / Sta Num : 47092323/
USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	15	53 N	19 W	470413.20	924402.30	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2007	GOOD	Horz=YES Vert=YES	YES		PROJECTS 13 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	NGS

Description: (1952) **Stamping:** MEADOWLANDS 1952

AT THE EAST EDGE OF MEADOWLANDS, 0.2 MILE EAST ON COUNTY ROAD 133, AT THE OLD SCHOOL, 25.8 FEET WEST OF WESTERN AVENUE, 55.0 FEET NORTHEAST OF A LIGHT POLE, 67.0 FEET NORTH OF THE SOUTH ENTRANCE TO THE OLD SCHOOL, NO WITNESS POST DUE TO A MOWED AREA.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1273. 118 0. 016	388. 047 0. 005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -96.778 12B = -96.768 09 = -96.683 03 = -96.499

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MEADOWLANDS_AZ_MK-CJ3306-3N-24MAY2007.jpg	N	May 24, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MEADOWLANDS_AZ_MK-CJ3306-2-24MAY2007.jpg		May 24, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MEADOWLANDS_AZ_MK-CJ3306-1-24MAY2007.jpg		May 24, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65913.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65913.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MEADOWLANDS RM 1

NGS Name: MEADOWLANDS RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ3307](#) [Get Map](#)
NGS Quad / Sta Num : 47092323/
USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	15	53 N	19 W	470412.28	924346.35		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=YES Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	REFERENCE MARK DISK	NGS

Description:

Stamping: MEADOWLANDS 1952

AT THE EAST EDGE OF MEADOWLANDS, 0.15 MILE EAST ON COUNTY ROAD 133 FROM THE JUNCTION OF COUNTY ROAD 133 AND COUNTY ROAD 29 (CENTRAL AVENUE), IN THE WEST EDGE OF A HEDGE ROW.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.771 12B = -96.762 09 = -96.676 03 = -96.493

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78768.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78768.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MEADOWLANDS RM 2

NGS Name: MEADOWLANDS RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ3308](#) [Get Map](#)
NGS Quad / Sta Num : 47092323/
USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	15	53 N	19 W	470411.13	924347.75		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	REFERENCE MARK DISK	NGS

Description: **Stamping:** MEADOWLANDS 1952

AT EAST EDGE OF MEADOWLANDS, 0.15 MILE EAST ON COUNTY ROAD 133 FROM THE JUNCTION OF COUNTY ROAD 133 AND COUNTY ROAD 29 (CENTRAL AVENUE), 36.0 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 133, AND 2.0 FEET NORTH OF A POWER LINE POLE WITH A TRANSFORMER.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.771 12B = -96.762 09 = -96.676 03 = -96.493

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78770.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78770.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MECKOLA

NGS Name: MECKOLA

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	31	51 N	19 W	465109.50	924755.42	2	3

NGS ACRN: [DQ9908](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: MECKOLA 2017

7.1 MILES SOUTHEAST OF FLOODWOOD, 7.5 MILES SOUTHEAST AND EAST ALONG TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 228.6, 85.2 FEET NORTH OF TRUNK HIGHWAY 2, 14.5 FEET SOUTH OF A CABLE BOX, 74.4 FEET EAST-SOUTHEAST OF A POWER POLE, 1.5 FEET SOUTH OF A WITNESS POST.

Station Pair: TELLOR - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1328.600	0.016	404.958	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -94.682 12B = -94.668 09 = -94.583 03 = -94.465

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<u>Location:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MECKOLA-DQ9908-3N-09AUG2017.jpg	N	Aug 9, 2017
<u>Monument:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MECKOLA-DQ9908-2-09AUG2017.jpg		Aug 9, 2017
<u>Disk:</u>	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MECKOLA-DQ9908-1-09AUG2017.jpg		Aug 9, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107930.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107930.pdf



Geodetic Data Sheet (Brief)
GSID Station # 53140

MELRUDE

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MELRUDE

NGS Name: MELRUDE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ2170](#) [Get Map](#)
NGS Quad / Sta Num : 47092243/
USGS Quad: CENTRAL LAKES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	55 N	17 W	471522.33	922857.68		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1975	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	HORIZONTAL CONTROL DISK	NGS

Description: (1975)

Stamping: MELRUDE 1952 1975

THE STATION IS LOCATED ABOUT 6.0 MILES NORTH OF COTTON AND 3.5 MILES WEST OF MELRUDE, ALONG THE WEST SIDE OF TRUNK HIGHWAY 53, AT THE JUNCTION OF COUNTY ROAD 59 LEADING EAST, AND AT THE NORTH EDGE OF A FARMSTEAD ON THE WEST SIDE OF THE ROAD. IT IS 82.0 FEET WEST OF THE SOUTHBOUND LANES OF TRUNK HIGHWAY 53, 50.0 FEET NORTHEAST OF THE NORTHEAST CORNER OF A GARAGE, 29.0 FEET NORTH OF THE EXTENDED CENTERLINE OF COUNTY ROAD 59 LEADING EAST, AND 14.0 FEET WEST OF THE CENTER OF A TRACK ROAD LEADING NORTH.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.907 12B = -97.903 09 = -97.844 03 = -97.664

Geodetic Position and St Louis County Coordinates - Central Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	47 15 22. 33575	92 28 57. 68486	491881. 333	102264. 930	149925. 730	31170. 413	384. 251	C	2003	GPS1848
NAD83 (1986)	47 15 22. 33211	92 28 57. 68686	491881. 194	102264. 561	149925. 688	31170. 301		3	1986	17289
NAD27	47 15 22. 57200	92 28 57. 00800						3	1956	11100

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_53140.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_53140.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MELRUDE AZ MK

NGS Name: MELRUDE AZ MK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ3312](#) [Get Map](#)
NGS Quad / Sta Num : 47092243/
USGS Quad: CENTRAL LAKES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	55 N	17 W	471451.00	922858.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1975	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

BLANK

Disk Type

AZIMUTH MARK DISK

Mon. Agency

NGS

Description: (2019)

Stamping: MELRUDE 1952

5.42 MILES NORTH OF COTTON, 5.53 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.877 12B = -97.874 09 = -97.811 03 = -97.628

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78773.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78773.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28827

MELRUDE AZ MK RESET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MELRUDE AZ MK RESET

NGS Name: MELRUDE AZ MK RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ3313](#) [Get Map](#)
NGS Quad / Sta Num : 47092243/1014
USGS Quad: CENTRAL LAKES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	14	55 N	17 W	471521.56	922809.97	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1964	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	NGS

Description: (1990) **Stamping:** MELRUDE 1952 RESET 1964

6.0 MILES NORTH OF COTTON, 6.1 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF COUNTY ROAD 52 AND TRUNK HIGHWAY 53 TO TRUNK HIGHWAY 53 MILEPOINT 45.10, THEN 0.6 MILE EAST ON COUNTY ROAD 59 (WEST MELRUDE ROAD), 40.5 FEET SOUTH OF COUNTY ROAD 59, 2.6 FEET WEST OF A POWER POLE, 1.9 FEET NORTH OF A WITNESS POST.

Station Notes

DUE TO A PROXIMITY TO A POWER POLE AND TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1370.102 0.016	417.608 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.894 12B = -97.894 09 = -97.831 03 = -97.651

Geodetic Position and St Louis County Coordinates - Central Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 15 21.55901	92 28 09.97255	495172.818	102185.120	150928.977	31146.087	387.793		2012	GPS2800
NAD83 (2007)	47 15 21.55954	92 28 09.97317	495172.776	102185.174	150928.964	31146.103	387.799		2007	GPS2300
NAD83 (1996)	47 15 21.55964	92 28 09.97308	495172.782	102185.184	150928.966	31146.106	387.794	C	2003	GPS1848
NAD83 (1986)	47 15 21.55830	92 28 09.97746	495172.481	102185.048	150928.874	31146.065		C	1992	HTWIG

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MELRUDE_AZ_MK_RESET-CJ3313-3S-13SEP2017.jpg	S	Sep 13, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MELRUDE_AZ_MK_RESET-CJ3313-2-13SEP2017.jpg		Sep 13, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MELRUDE_AZ_MK_RESET-CJ3313-1-13SEP2017.jpg		Sep 13, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28827.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28827.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28826

MELRUDE RESET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MELRUDE RESET

NGS Name: MELRUDE RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6485](#) [Get Map](#)
NGS Quad / Sta Num : 47092243/1014
USGS Quad: CENTRAL LAKES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	10	55 N	17 W	471522.34	922857.68	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2020	GOOD	Horz=YES Vert=YES	YES		RECESSED 6 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	HORIZONTAL CONTROL DISK	NGS

Description: (2002) **Stamping:** MELRUDE 1952 1975

6.0 MILES NORTH OF COTTON, 6.1 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 45.10, 82.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 63.1 FEET SOUTH OF A POWER POLE, 23.2 FEET EAST OF THE SOUTH LEG OF THE WEST ELLSBURG FOREST MANAGEMENT ROAD SIGN, 22.0 FEET NORTH OF WEST ELLSBURG FOREST ROAD, 22.4 FEET EAST OF A WITNESS POST.

Station Notes

THE STATION NAME WAS CHANGED FROM MELRUDE TO MELRUDE RESET TO IMPROVE CONSISTENCY WITH THE NATIONAL GEODETIC SURVEY'S (NGS) DATABASE. IN 1992 THE GEODETIC UNIT FOUND MELRUDE RM 1 HAD BEEN HIT.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1358.554	0.016	414.088	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -97.907 12B = -97.903 09 = -97.844 03 = -97.907

Geodetic Position and St Louis County Coordinates - Central Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 15 22.33547	92 28 57.68406	491881.388	102264.901	149925.747	31170.404	384.240		2012	GPS2800
NAD83 (2007)	47 15 22.33566	92 28 57.68496	491881.326	102264.920	149925.728	31170.410	384.256		2007	GPS2300
NAD83 (1996)	47 15 22.33575	92 28 57.68486	491881.333	102264.930	149925.730	31170.413	384.251	1	2003	GPS1848
NAD83 (1986)	47 15 22.33211	92 28 57.68686	491881.195	102264.563	149925.688	31170.301		C	1991	H1991
NAD27	47 15 22.57200	92 28 57.00800						C	1950	UNK

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MELRUDE_RESET-DF6485-3W-08JUL2020.jpg	W	Jul 8, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MELRUDE_RESET-DF6485-2-08JUL2020.jpg		Jul 8, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MELRUDE_RESET-DF6485-1-08JUL2020.jpg		Jul 8, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28826.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28826.pdf



Geodetic Data Sheet (Brief)
GSID Station # 78775

MELRUDE RM 1

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MELRUDE RM 1

NGS Name: MELRUDE RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ3314](#) [Get Map](#)
NGS Quad / Sta Num : 47092243/
USGS Quad: CENTRAL LAKES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	55 N	17 W	471521.65	922857.07		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1975	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

BLANK

Disk Type

REFERENCE MARK DISK

Mon. Agency

NGS

Description: (2019)

Stamping: MELRUDE NO 1 1952

5.94 MILES NORTH OF COTTON, 6.12 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.907 12B = -97.903 09 = -97.844 03 = -97.664

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78775.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78775.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28836

MIKE MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MIKE MNDT

NGS Name: MIKE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0643](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/1075
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	36	52 N	21 W	465636.03	925615.98	2	C	1974	2003	GOOD	Horz=NO Vert=NO	NO		RECESSED 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (2001) **Stamping:** MIKE 1974

1.3 MILES NORTHWEST OF FLOODWOOD, 1.35 MILES NORTHWEST ON TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73, THEN NORTHEAST ON A ROAD TO THE SOUTH SERVICE ROAD OF A RAILROAD, THEN 0.7 MILE NORTHWEST ON THE SOUTH SERVICE ROAD, AT TRUNK HIGHWAY 2 MILEPOINT 219.05, 22.2 FEET SOUTHWEST OF THE SOUTHWEST RAIL OF THE RAILROAD TRACKS, 225.0 FEET SOUTHEAST OF RAILROAD MILEPOINT 77, 111.0 FEET SOUTHEAST OF A GAS PIPELINE, 4.8 FEET NORTH-NORTHEAST OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1252.307	0.016	381.704	0.005	2/1	2011	00000675
NGVD29	1251.805	0.016	381.551	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.495 12B = -95.479 09 = -95.403 03 = -95.285

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 56 36.03182	92 56 15.98391	378152.393	207373.639	115261.080	63207.612	352.590		2012	GPS2800
NAD83 (2007)	46 56 36.03192	92 56 15.98478	378152.332	207373.650	115261.061	63207.615	352.619		2007	GPS2300
NAD83 (1996)	46 56 36.03172	92 56 15.98430	378152.365	207373.629	115261.072	63207.609	352.637	C	2004	GPS1957
NAD83 (1986)	46 56 36.02533	92 56 15.98681	378152.187	207372.983	115261.017	63207.412		2	1986	17289
NAD27	46 56 36.23125	92 56 15.26056						2	1977	15924

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28836.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28836.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MNCORS BRKS BROOKSTON ARP

NGS Name: BROOKSTON CORS ARP

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	35	51 N	18 W	465128.98	923518.74	3	A

NGS ACRN: [!62754](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2005	2023	GOOD	Horz=YES Vert=?	YES			SEE DESCRIPTION

Monument Type

SEE DESCRIPTIVE TEXT

Disk Type

SEE DESCRIPTION

Mon. Agency

MNDT

Description: (2019)

Stamping:

1.0 MILE SOUTHEAST OF BROOKSTON, 0.8 MILE SOUTHEASTERLY ALONG TRUNK HIGHWAY 2 FROM THE EASTERN JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 2 SOUTH OF BROOKSTON, AT THE ST. LOUIS COUNTY SOLID WASTE FACILITY.

Station Notes

THE NATIONAL GEODETICS SURVEY (NGS) SITE ID IS MNBK.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.668 12B = -94.665 09 = -94.563 03 = -94.399

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 51 28.98235	92 35 18.73764	465337.446	175915.265	141835.137	53619.080	374.036	A	2015	HMNCORS		
NAD83 (1996)	46 51 28.98248	92 35 18.73878	465337.367	175915.278	141835.113	53619.084	374.068	B	2006	HMNCORS		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BROOKSTON_CORS_ARP-!62754-3N-14SEP2006.jpg	N	Sep 14, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BROOKSTON_CORS_ARP-!62754-2-08SEP2005.jpg		Sep 8, 2005
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BROOKSTON_CORS_ARP-!62754-1-14SEP2006.jpg		Sep 14, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62754.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62754.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MNCORS BRKS BROOKSTON L1PC1

NGS Name: BROOKSTON CORS L1PHASE CENTER

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	35	51 N	18 W	465128.98	923518.74		

NGS ACRN: [I95687](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2005	2008	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

Monument Type

SEE DESCRIPTIVE TEXT

Disk Type

SEE DESCRIPTION

Mon. Agency

MNDT

Description: (2019)

Stamping:

1.0 MILE SOUTHEAST OF BROOKSTON, 0.8 MILE SOUTHEASTERLY ALONG TRUNK HIGHWAY 2 FROM THE EASTERN JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 2 SOUTH OF BROOKSTON, AT THE ST. LOUIS COUNTY SOLID WASTE FACILITY. THE STATION IS IN A ZEPHYR GEODETIC ANTENNA SERIAL NUMBER 12668753.

Station Notes

THE NATIONAL GEODETIC SURVEY (NGS) SITE ID IS MNBK.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.668 12B = -94.665 09 = -94.563 03 = -94.399

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BROOKSTON_CORS_L1PHASE_CENTER-I95687-3N-14SEP2006.jpg	N	Sep 14, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BROOKSTON_CORS_L1PHASE_CENTER-I95687-2-14SEP2006.jpg		Sep 14, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BROOKSTON_CORS_L1PHASE_CENTER-I95687-1-16SEP2006.jpg		Sep 16, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95687.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95687.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MNCORS BRKS BROOKSTON L1PC2

NGS Name: BROOKSTON CORS L1PHASE CENTER

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	35	51 N	18 W	465128.98	923518.74		

NGS ACRN:	!95689	Get Map
NGS Quad / Sta Num :	46092412/	
USGS Quad:	BROOKSTON	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2008	2023	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

Monument Type

SEE DESCRIPTIVE TEXT

Disk Type

SEE DESCRIPTION

Mon. Agency

MNDT

Description: (2019)

Stamping:

1.0 MILE SOUTHEAST OF BROOKSTON, 0.8 MILE SOUTHEASTERLY ALONG TRUNK HIGHWAY 2 FROM THE EASTERN JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 2 SOUTH OF BROOKSTON, AT THE ST. LOUIS COUNTY SOLID WASTE FACILITY. STATION MNCORS BRKS BROOKSTON L1PC2 IS IN A ZEPHYR GEODETIC LF MODEL 2 ANTENNA SERIAL NUMBER 30763487.

Station Notes

THE NATIONAL GEODETICS SURVEY (NGS) SITE ID IS MNBK.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.668 12B = -94.665 09 = -94.563 03 = -94.399

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BROOKSTON_CORS_L1PHASE_CENTER-!95689-3N-17APR2008.jpg	N	Apr 17, 2008
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BROOKSTON_CORS_L1PHASE_CENTER-!95689-2-29APR2008.jpg		Apr 29, 2008
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/BROOKSTON_CORS_L1PHASE_CENTER-!95689-1-17APR2008.jpg		Apr 17, 2008

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95689.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95689.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MNCORS COTN COTTON ARP

NGS Name: COTTON MNCORS ARP

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DS3323](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	15	54 N	17 W	471001.37	922910.02	3	A

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2005	2006	GOOD	Horz=YES Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	MNDT

Description: (2025)

Stamping:

0.4 MILE WEST OF COTTON, 0.3 MILE WEST ALONG COUNTY ROAD 52 (ARKOLA ROAD) FROM THE JUNCTION OF COUNTY ROAD 52 AND TRUNK HIGHWAY 53 IN COTTON, THEN 0.13 MILES SOUTH ALONG DRIVEWAY TO THE ST. LOUIS COUNTY PUBLIC WORKS BUILDING, THE ANTENNA IS AFFIXED TO A NUT AND BOLT WELDED TO A STEEL MAST ATTACHED TO THE NORTHEAST SIDE OF THE MAINTENANCE BUILDING.

Station Notes

THE NATIONAL GEODETICS SURVEY (NGS) SITE ID IS MNCT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.388 12B = -97.388 09 = -97.283 03 = -97.086

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 10 01.36887	92 29 10.02377	491015.195	288594.886	149661.731	87963.897	386.604	A	2015	HMNCORS		
NAD83 (1996)	47 10 01.36905	92 29 10.02468	491015.132	288594.904	149661.712	87963.903	386.605	B	2006	HMNCORS		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/COTTON_MNCORS_ARP-DS3323-3N-13SEP2006.jpg	N	Sep 13, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/COTTON_MNCORS_ARP-DS3323-2-08SEP2005.jpg		Sep 8, 2005
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/COTTON_MNCORS_ARP-DS3323-1-07DEC2006.jpg		Dec 7, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62757.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62757.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MNCORS COTN COTTON L1PC1

NGS Name: COTTON CORS L1 PHASE CENTER

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	15	54 N	17 W	471001.37	922910.02		

NGS ACRN: [I95690](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2005	2008	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

Monument Type

SEE DESCRIPTIVE TEXT

Disk Type

SEE DESCRIPTION

Mon. Agency

MNDT

Description: (2019)

Stamping:

0.4 MILE WEST OF COTTON, 0.3 MILE WEST ALONG COUNTY ROAD 52 (ARKOLA ROAD) FROM THE JUNCTION OF COUNTY ROAD 52 AND TRUNK HIGHWAY 53 IN COTTON, ATTACHED TO THE NORTH SIDE OF THE ST. LOUIS COUNTY PUBLIC WORKS BUILDING. THE STATION IS IN A ZEPHYR GEODETIC ANTENNA SERIAL NUMBER 12697010.

Station Notes

THE NATIONAL GEODETICS SURVEY (NGS) SITE ID IS MNCT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.388 12B = -97.388 09 = -97.283 03 = -97.086

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/COTTON_CORS_L1_PHASE_CENTER-I95690-3S-13SEP2006.jpg	S	Sep 13, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/COTTON_CORS_L1_PHASE_CENTER-I95690-2-13SEP2006.jpg		Sep 13, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/COTTON_CORS_L1_PHASE_CENTER-I95690-1-13SEP2006.jpg		Sep 13, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95690.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95690.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MNCORS COTN COTTON L1PC2

NGS Name: COTTON CORS L1 PHASE CENTER

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	15	54 N	17 W	471001.37	922910.02		

NGS ACRN: [!95691](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2008	2008	GOOD	Horz=YES Vert=?	YES			SEE DESCRIPTION

Monument Type

SEE DESCRIPTIVE TEXT

Disk Type

SEE DESCRIPTION

Mon. Agency

MNDT

Description: (2019)

Stamping:

0.4 MILE WEST OF COTTON, 0.3 MILE WEST ALONG COUNTY ROAD 52 (ARKOLA ROAD) FROM THE JUNCTION OF COUNTY ROAD 52 AND TRUNK HIGHWAY 53 IN COTTON, ATTACHED TO THE NORTH SIDE OF THE ST. LOUIS COUNTY PUBLIC WORKS BUILDING. STATION MNCORS COTN COTTON L1PC2 IS IN A ZEPHYR GEODETIC LF MODEL 2 ANTENNA SERIAL NUMBER 30767807.

Station Notes

THE NATIONAL GEODETICS SURVEY (NGS) SITE ID IS MNCT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.388 12B = -97.388 09 = -97.283 03 = -97.086

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/COTTON_CORS_L1_PHASE_CENTER-!95691-3S-17APR2008.jpg	S	Apr 17, 2008
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/COTTON_CORS_L1_PHASE_CENTER-!95691-2-17APR2008.jpg		Apr 17, 2008
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/COTTON_CORS_L1_PHASE_CENTER-!95691-1-17APR2008.jpg		Apr 17, 2008

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95691.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95691.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MNCORS CULV CULVER ARP

NGS Name: CULVER MNCORS ARP

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DS3324](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	51 N	18 W	465349.24	923547.75		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2023	2023	GOOD	Horz=YES Vert=NO	NO			SEE DESCRIPTION

Monument Type

SEE DESCRIPTIVE TEXT

Disk Type

SEE DESCRIPTION

Mon. Agency

MNDT

Description: (2025)

Stamping:

2.15 MILES NORTH OF BROOKSTON, 3.0 MILES NORTH ALONG COUNTY ROAD 31 (ALBORN-BROOKSTON ROAD) FROM THE JUNCTION OF COUNTY ROAD 31 AND TRUNK HIGHWAY 2 (JUNCTION IS 0.75 MILES SOUTH OF BROOKSTON), THEN 0.3 MILES EAST ON COUNTY ROAD 31 (LAMB ROAD), THEN 0.05 MILES SOUTH AND WEST ON ENTRANCE TO THE ST. LOUIS COUNTY TRUCK STATION, THE ANTENNA REFERENCE POINT CONSISTS OF A 1.5 INCH BRASS PLUG IN A SECO ADJUSTABLE MONUMENT MOUNT, THE MOUNT IS THREADED ONTO A 2 INCH STEEL PIPE ATTACHED TO THE ROOF OF THE TRUCK STATION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separation(ft): GEOID18 = -95.029

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83(2011)	46 53 47.57756	92 35 44.17223	463595.810	189960.715	141304.286	57900.142	376.095		2025	GPS3823

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CULVER_MNCORS_ARP-DS3324-2-21DEC2023.jpg		Dec 21, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/CULVER_MNCORS_ARP-DS3324-1-21DEC2023.jpg		Dec 21, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_111303.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_111303.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MOBERG MNDT

NGS Name: MOBERG

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9557](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	8	50 N	20 W	464951.25	925405.17	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (1999)

Stamping: MOBERG 1999

6.25 MILES SOUTH OF FLOODWOOD, 6.25 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, TO TRUNK HIGHWAY 73 MILEPOINT 36.70, THEN 0.55 MILE EAST ON A ROAD, 10.0 FEET SOUTH OF A ROAD, 71.6 FEET SOUTHEAST OF A POWER POLE, 12.6 FEET NORTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1291.740 0.016	393.723 0.005	2/1	2004 00000464

Geoid Separations(ft): GEOID18 = -94.458 12B = -94.455 09 = -94.360 03 = -94.255

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>				
NAD83 (2011)	46 49 51.25344	92 54 05.16572	386993.591	166308.302	117955.883	50690.872	364.938		2012	GPS2800
NAD83 (2007)	46 49 51.25356	92 54 05.16659	386993.531	166308.314	117955.864	50690.876	364.966		2007	GPS2300
NAD83 (1996)	46 49 51.25324	92 54 05.16615	386993.561	166308.282	117955.873	50690.866	364.989	C	2003	GPS1769

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40559.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40559.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MOBERG MNDT RESET

NGS Name: MOBERG RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5182](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	8	50 N	20 W	464951.25	925405.17	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=NO Vert=YES	YES		RECESSED 8 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** MOBERG 1999 2017

6.25 MILES SOUTH OF FLOODWOOD, 6.25 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD TO TRUNK HIGHWAY 73 MILEPOINT 36.70, THEN 0.55 MILE EAST ON ASP ROAD, 10.0 FEET SOUTH OF ASP ROAD, 71.6 FEET SOUTHEAST OF A POWER POLE, 12.6 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1291. 526	0. 016	393. 658	0. 005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -94.458 12B = -94.455 09 = -94.360 03 = -94.255
* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MOBERG_RESET-DR5182-3S-06SEP2017.jpg	S	Sep 6, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MOBERG_RESET-DR5182-2-06SEP2017.jpg		Sep 6, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MOBERG_RESET-DR5182-1-06SEP2017.jpg		Sep 6, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108184.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108184.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108106

MOORE

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MOORE

NGS Name: MOORE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1874](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	51 N	17 W	465410.27	922812.56	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 17 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (17)

Stamping: MOORE 2017

13.0 MILES NORTH OF CLOQUET, 4.15 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 15.50, 45.7 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 33, 38.3 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 33, 305.2 FEET NORTH OF A CROSSOVER FOR BERG ROAD, 1.5 FEET OF A WITNESS POST.

Station Pair: KANGAS - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1334. 367 0. 016	406. 716 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.872 12B = -94.875 09 = -94.754 03 = -94.560

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MOORE-DR1874-3N-15AUG2017.jpg	N	Aug 15, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MOORE-DR1874-2-15AUG2017.jpg		Aug 15, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MOORE-DR1874-1-15AUG2017.jpg		Aug 15, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108106.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108106.pdf



Geodetic Data Sheet (Brief)
GSID Station # 41640

MOUSE MN137

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MOUSE MN137

NGS Name: MOUSE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF9132](#) [Get Map](#)
NGS Quad / Sta Num : 47092332/
USGS Quad: ELMER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>				
NE	22	53 N	20 W	470407.44	925056.50		C				
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>				
2001	2020	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET				

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 29 FT)

Disk Type

SURVEY DISK

Mon. Agency

MN-137

Description: (2002)

Stamping: MOUSE 2001

5.5 MILES WEST OF MEADOWLANDS, 5.0 MILES WEST ALONG COUNTY ROAD 133 FROM THE JUNCTION OF COUNTY ROAD 133 AND COUNTY ROAD 29 SOUTH (THE JUNCTION IS 0.5 MILE WEST OF MEADOWLANDS), 290.0 FEET EAST OF DRIVEWAY FIRE NUMBER 11114, 125.0 FEET WEST OF A DITCH, 24.0 FEET SOUTH OF COUNTY ROAD 133, 2.5 FEET NORTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.703 12B = -96.680 09 = -96.637 03 = -96.450

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 04 07.44052	92 50 56.49990	400553.953	252984.763	122089.089	77109.910	358.338		2012	GPS2800
NAD83 (2007)	47 04 07.44056	92 50 56.50080	400553.890	252984.768	122089.070	77109.911	358.365		2007	GPS2300
NAD83 (1996)	47 04 07.44040	92 50 56.50051	400553.911	252984.752	122089.076	77109.907	358.380	C	2003	GPS1931

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MOUSE-DF9132-3S-07JUL2020.jpg	S	Jul 7, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MOUSE-DF9132-2-07JUL2020.jpg		Jul 7, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MOUSE-DF9132-1-07JUL2020.jpg		Jul 7, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41640.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41640.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MUSHRAT MNDT

NGS Name: MUSHRAT

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9556](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>				
SE	20	52 N	20 W	465806.84	925357.47		C				
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>				
1993	2017	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET				

Monument Type ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT) Disk Type SURVEY DISK Mon. Agency MNDT

Description: (2001) Stamping: MUSHRAT 1993

2.6 MILES NORTH-NORTHEAST OF FLOODWOOD, 2.65 MILES NORTH ON TRUNK HIGHWAY 73 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD THEN EAST AND NORTH ON SIMI ROAD FOR 0.65 MILE, 12.0 FEET EAST OF SIMI ROAD, 113.9 FEET SOUTH-SOUTHEAST OF A POWER POLE, 181.2 FEET NORTH-NORTHEAST OF A POWER POLE, 39.6 FEET EAST OF A FENCE, 175.7 FEET NORTH-NORTHEAST OF A FENCE CORNER, 4.4 FEET WEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.761 12B = -95.738 09 = -95.679 03 = -95.535

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 58 06.84150	92 53 57.46810	387816.617	216516.870	118206.741	65994.474	351.628				2012	GPS2800
NAD83 (2007)	46 58 06.84157	92 53 57.46896	387816.557	216516.877	118206.723	65994.476	351.656				2007	GPS2300
NAD83 (1996)	46 58 06.84131	92 53 57.46854	387816.586	216516.851	118206.732	65994.468	351.674	C			2003	GPS1769

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MUSHRAT-DE9556-1-10JUL2017.jpg		Jul 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28866.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28866.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MUSHRAT MNDT RESET

NGS Name: MUSHRAT RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5123](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	20	52 N	20 W	465806.84	925357.47	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** MUSHRAT 1993 2017

2.6 MILES NORTH-NORTHEAST OF FLOODWOOD, 2.65 MILES NORTH ON TRUNK HIGHWAY 73 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD TO TRUNK HIGHWAY 73 MILEPOINT 45.9, THEN 0.65 MILE EAST AND NORTH ON SIMI ROAD, 12.0 FEET EAST OF SIMI ROAD, 181.2 FEET NORTH-NORTHEAST OF A POWER POLE, 175.7 FEET NORTH-NORTHEAST OF A FENCE CORNER, 113.9 FEET SOUTH-SOUTHEAST OF A POWER POLE, 39.6 FEET EAST OF A FENCE, 4.4 FEET WEST OF A WITNESS POST.

Station Pair: SIMI MNDT - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1249. 144 0. 016	380. 740 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.761 12B = -95.738 09 = -95.679 03 = -95.535

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MUSHRAT_RESET-DR5123-3E-10JUL2017.jpg	E	Jul 10, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MUSHRAT_RESET-DR5123-2-10JUL2017.jpg		Jul 10, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MUSHRAT_RESET-DR5123-1-10JUL2017.jpg		Jul 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107871.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107871.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MUSTA MNDT

NGS Name: MUSTA

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6508](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

1/4	Sec	Twp	Rng	Reference	Reference	Vert	Horz
				Latitude	Longitude	Order	Order
SE	15	53 N	17 W	470432.11	922819.03	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1992	2017	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 3 IN.	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2007) **Stamping:** MUSTA 1992

2.4 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 32.45, 30.1 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 53, 78.6 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 53, 95.5 FEET SOUTH OF A DITCH BLOCK, 4.2 FEET WEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	1350.092 0.016	411.509 0.005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -96.522 12B = -96.532 09 = -96.384 03 = -96.194

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (2011)	47 04 32.10997	92 28 19.02565	494529.887	255232.002	150733.011	77794.870	382.084		2012	GPS2800
NAD83 (2007)	47 04 32.11010	92 28 19.02655	494529.825	255232.016	150732.992	77794.874	382.111		2007	GPS2300
NAD83 (1996)	47 04 32.10990	92 28 19.02627	494529.844	255231.995	150732.998	77794.868	382.132	C	2003	GPS1848
NAD83 (1986)	47 04 32.10810	92 28 19.02656	494529.825	255231.812	150732.992	77794.812		C	1993	H1993

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MUSTA-DF6508-3E-08SEP2009.jpg	E	Sep 8, 2009
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MUSTA-DF6508-2-08SEP2009.jpg		Sep 8, 2009
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MUSTA-DF6508-1-08SEP2009.jpg		Sep 8, 2009

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28867.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28867.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MUSTA MNDT RESET

NGS Name: MUSTA RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1857](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	15	53 N	17 W	470432.11	922819.03	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 6 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** MUSTA 1992 2017

2.5 MILES NORTH OF CANYON, 2.4 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 32.45, 30.1 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 53, 78.6 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 53, 95.5 FEET SOUTH OF A DITCH BLOCK, 4.2 FEET WEST OF A WITNESS POST.

Station Pair: NICHOL MNDT - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	1349. 869 0. 016	411. 441 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.522 12B = -96.532 09 = -96.384 03 = -96.194

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MUSTA_RESET-DR1857-3E-19SEP2017.jpg	E	Sep 19, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MUSTA_RESET-DR1857-2-19SEP2017.jpg		Sep 19, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/MUSTA_RESET-DR1857-1-19SEP2017.jpg		Sep 19, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108348.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108348.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: N 163

NGS Name: N 163

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0167](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	22	54 N	17 W	470842.00	922822.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1966	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2019) **Stamping:** N 163 1935

7.3 MILES NORTH OF CANYON, 7.3 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND TRUNK HIGHWAY 152 IN CANYON.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	Orthometric (Feet)		Orthometric (Meters)		Survey <u>Order/(Class)</u>	Project Info	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1338.882	0.016	408.092	0.005	2/0	1991	00000025
NGVD29	1338.281	0.007	407.909	0.002	1	1935	L63 MINN

Geoid Separations(ft): GEOID18 = -97.168 12B = -97.162 09 = -97.054 03 = -96.853

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28875.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28875.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: N 163 RESET 1966

NGS Name: N 163 RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0168](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	22	54 N	17 W	470842.00	922822.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1966	2017	NOT FOUND	Horz=NO Vert=YES	NO		PROJECTS 3 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1966)

Stamping: N 163 RESET 1966

1.7 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 29 IN COTTON, 0.2 MILE SOUTH OF A TEE-ROAD EAST, ON THE WEST EDGE OF SOUTHBOUND TRUNK HIGHWAY 53, 183.0 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 53, 13.0 FEET NORTH OF WOODS ROAD, 2.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1339.138	0.016	408.170	0.005	2/1	2012	00000702
NGVD29	1338.301	0.007	407.915	0.002	1	1966	L63 MINN

Geoid Separations(ft): GEOID18 = -97.168 12B = -97.165 09 = -97.054 03 = -96.857

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28876.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28876.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28898

N 271

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: N 271

NGS Name: N 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0697](#) [Get Map](#)
NGS Quad / Sta Num : 46092414/
USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	26	52 N	19 W	465811.23	924204.33	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=NO Vert=YES	YES		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** N 271 1948

6.6 MILES SOUTHWEST OF ALBORN, AT A 90 DEGREE TURN (EAST AND SOUTH) IN COUNTY ROAD 166, 25.0 FEET WEST OF THE SOUTH TANGENT, 101.0 FEET SOUTH OF THE EAST TANGENT EXTENDED, 43.5 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A FARMHOUSE, 1.5 FEET EAST OF A FENCE, 2.0 FEET SOUTH OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1303. 213	0. 016	397. 220	0. 005	2/0	1991	00000025
NGVD29	1302. 645	0. 016	397. 047	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.781 12B = -95.761 09 = -95.672 03 = -95.518

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28898.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28898.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28899

N 272

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: N 272

NGS Name: N 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0508](#) [Get Map](#)
NGS Quad / Sta Num : 47092323/
USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	13	53 N	19 W	470420.00	924053.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=? Vert=YES	NO		PROJECTS 5 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2019) **Stamping:** N 272 1948

2.6 MILES EAST ON COUNTY ROAD 133 FROM THE HIGH SCHOOL AT MEADOWLANDS, AT THE JUNCTION OF COUNTY ROAD 133 AND A ROAD NORTH, 102.0 FEET NORTH OF COUNTY ROAD 133, 17.0 FEET WEST OF A ROAD NORTH, 54.0 FEET NORTH OF A FENCE CORNER, 1.0 FOOT WEST OF A FENCE, 2.0 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1279.364	0.016	389.951	0.005	2/0	1991	00000025
NGVD29	1278.764	0.016	389.768	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.788 12B = -96.781 09 = -96.683 03 = -96.499

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28899.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28899.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: N 273

NGS Name: N 273

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0502](#)

[Get Map](#)

NGS Quad / Sta Num : 47092333/

USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	36	53 N	21 W	470151.96	925605.94	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	NOT FOUND	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: N 273 1948

7.9 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE HIGH SCHOOL IN FLOODWOOD, AT THE TOP OF A LOW GRADE, 330.0 FEET SOUTH OF A POWER LINE CROSSING, 22.0 FEET EAST OF TRUNK HIGHWAY 73, 30.5 FEET SOUTH OF A FENCE CORNER AND A GATE POST, 128.0 FEET WEST-NORTHWEST OF A POWER POLE, 1.5 FEET WEST OF A RIGHT-OF-WAY FENCE LINE, 2.0 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1257.534	0.016	383.297	0.005	2/0	1991	00000025
NGVD29	1256.858	0.007	383.091	0.002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -96.319 12B = -96.302 09 = -96.256 03 = -96.079

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28900.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28900.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28901

N 274

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: N 274

NGS Name: N 274

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0394](#) [Get Map](#)
NGS Quad / Sta Num : 47092332/
USGS Quad: ELMER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	18	53 N	19 W	470501.00	924732.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=? Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** N 274 1948

6.0 MILES SOUTH ON COUNTY ROAD 5 FROM THE HIGH SCHOOL AT TOIVOLA, AT THE JUNCTION OF COUNTY ROAD 5 AND COUNTY ROAD 155, 64.0 FEET WEST OF COUNTY ROAD 5, 19.0 FEET SOUTH OF COUNTY ROAD 155, 50.5 FEET NORTH-NORTHEAST OF THE NORTHEAST CORNER OF A HOUSE, 31.0 FEET WEST OF A FENCE CORNER, 1.0 FOOT NORTH OF A FENCE, 2.0 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1275. 273	0. 016	388. 704	0. 005	2/0	1991	00000025
NGVD29	1274. 633	0. 016	388. 509	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.873 12B = -96.860 09 = -96.794 03 = -96.611

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28901.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28901.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28902

N 276

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: N 276

NGS Name: N 276

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0381](#) [Get Map](#)
NGS Quad / Sta Num : 47092342/
USGS Quad: LITTLE SWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	12	55 N	20 W	471552.05	924835.33	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=? Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** N 276 1948

2.3 MILES SOUTH ON COUNTY ROAD 5 FROM A CROSSROAD AND A STORE AT LITTLE SWAN, 0.75 MILE SOUTH OF A SCHOOL, 1.0 MILE NORTH OF A COUNTY ROAD 5 BRIDGE OVER THE SWAN RIVER, AT A TEE-JUNCTION OF ANTILLA ROAD WEST AND COUNTY ROAD 5, 31.0 FEET WEST OF COUNTY ROAD 5, 40.0 FEET SOUTH OF THE ROAD WEST, 19.0 FEET SOUTH OF A FENCE CORNER, 1.5 FEET EAST OF A FENCE, 2.0 FEET SOUTH OF A WITNESS POST.

Station Notes

THE AREA HAS BEEN REGRADED.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1291.172	0.016	393.550	0.005	2/0	1991	00000025
NGVD29	1290.450	0.016	393.330	0.005	2/0	1992	UNCHECKD
Geoid Separations(ft): GEOID18 = -97.815 12B = -97.818 09 = -97.739 03 = -97.618							
* No Horizontal Positions in the Database *							

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28902.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28902.pdf



Geodetic Data Sheet (Brief)
GSID Station # 54198

N 279

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: N 279

NGS Name: N 279

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	34	54 N	21 W	470719.00	925948.00	2	

NGS ACRN: [SJ0487](#)

[Get Map](#)

NGS Quad / Sta Num : 47092333/

USGS Quad: TOIVOLA SW

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1950	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: N 279 1948

2.85 MILES NORTH FROM CEDAR VALLEY, 2.85 MILES NORTH AND EAST ALONG TRUNK HIGHWAY 73 FROM THE SCHOOL AT CEDAR VALLEY, ABOUT 0.9 MILE NORTH OF A TURN IN THE HIGHWAY (NORTH AND WEST) AND THE JUNCTION OF A ROAD LEADING EAST, 35.0 FEET EAST OF TRUNK HIGHWAY 73, 12.0 FEET SOUTH OF A LOGGING TRAIL LEADING EAST, 30.0 FEET NORTH-NORTHEAST OF A TELEPHONE POLE, 2.0 FEET NORTHEAST OF A WHITE WOODEN WITNESS POST.

Station Notes

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1276.441	0.016	389.060	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -96.857 12B = -96.850 09 = -96.808 03 = -96.634

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/N_279-SJ0487-3S-12JUL2017.jpg	S	Jul 12, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_54198.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_54198.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28903

N 279 RESET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: N 279 RESET

NGS Name: N 279 RESET

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	34	54 N	21 W	470719.00	925948.00		

NGS ACRN: [SJ0488](#)

[Get Map](#)

NGS Quad / Sta Num : 47092333/

USGS Quad: TOIVOLA SW

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2017	NOT FOUND	Horz=NO Vert=NO	YES		PROJECTS 3 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1950)

Stamping: N 279 RESET 1950

2.8 MILES NORTH AND EAST OF THE HIGH SCHOOL AT CEDAR VALLEY, 75.0 FEET EAST OF TRUNK HIGHWAY 73, 0.9 MILE NORTH OF EAST-WEST COUNTY ROAD 183, 2.0 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NGVD29	1274. 778	0. 007	388. 553	0. 002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -96.857 12B = -96.850 09 = -96.808 03 = -96.634

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/N_279_RESET-SJ0488-3S-12JUL2017.jpg	S	Jul 12, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28903.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28903.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28904

N 28

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: N 28

NGS Name: N 28

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0615](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	1	51 N	18 W	465532.00	923329.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1943	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1934) **Stamping:** N 28 1934

AT CULVER, 6 RAILS WEST OF THE RAILROAD STATION, 3 RAILS WEST OF A HIGHWAY CROSSING, 45.0 FEET SOUTH OF A RAILROAD.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1289.896	0.016	393.161	0.005	2/0	1991	00000025
NGVD29	1289.371	0.016	393.001	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.266 12B = -95.262 09 = -95.144 03 = -94.970

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28904.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28904.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28916

N 30

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: N 30

NGS Name: N 30

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1212](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	28	51 N	19 W	465222.00	924543.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2017	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

Monument Type

BLANK

Disk Type

SEE DESCRIPTION

Mon. Agency

NGS

Description: (1934)

Stamping: N 30 1934

AT, PAUPORES, 5 RAILS EAST ON A RAILROAD FROM THE PAUPORES RAILROAD STATION, 2 RAILS EAST OF A ROAD CROSSING, 30.0 FEET SOUTH OF THE MAIN RAILROAD TRACKS.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	Orthometric (Feet)		Orthometric (Meters)		Survey <u>Order/(Class)</u>	Project Info	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1240.122	0.016	377.990	0.005	2/0	1991	00000025
NGVD29	1239.446	0.007	377.784	0.002	1	1934	L13 MINN

Geoid Separations(ft): GEOID18 = -94.869 12B = -94.855 09 = -94.773 03 = -94.652

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28916.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28916.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28929

NICHOL MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NICHOL MNDT

NGS Name: NICHOL

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6507](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	10	53 N	17 W	470510.73	922818.72	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2021	GOOD	Horz=YES Vert=YES	YES		RECESSED 8 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2007) **Stamping:** NICHOL 1992

3.0 MILES NORTH OF CANYON, 3.1 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 33.20, 26.5 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 53, 95.5 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 53, 145.0 FEET SOUTH OF THE CROSSOVER FOR COUNTY ROAD 232, 5.0 FEET WEST OF A WITNESS POST.

Station Pair: MUSTA MNDT RESET - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1354.384 0.016	412.817 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.624 12B = -96.634 09 = -96.489 03 = -96.296

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 05 10.72511	92 28 18.71933	494552.181	259144.573	150739.806	78987.424	383.371		2012	GPS2800
NAD83 (2007)	47 05 10.72523	92 28 18.72023	494552.119	259144.585	150739.787	78987.427	383.399		2007	GPS2300
NAD83 (1996)	47 05 10.72504	92 28 18.71994	494552.139	259144.566	150739.794	78987.422	383.419	C	2003	GPS1848
NAD83 (1986)	47 05 10.72330	92 28 18.72024	494552.118	259144.390	150739.787	78987.368		C	1993	H1993

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/NICHOL-DF6507-3N-26JUL2021.jpg	N	Jul 26, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/NICHOL-DF6507-2-26JUL2021.jpg		Jul 26, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/NICHOL-DF6507-1-26JUL2021.jpg		Jul 26, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28929.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28929.pdf



Geodetic Data Sheet (Brief)
GSID Station # 42628

NIKIN MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NIKIN MNDT

NGS Name: NIKIN

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF9109](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	50 N	19 W	465115.71	924241.74	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2017	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (2003)

Stamping: NIKIN 2001

11.5 MILES SOUTHEAST OF FLOODWOOD, 11.7 MILES SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 232.75, 91.0 FEET SOUTH OF TRUNK HIGHWAY 2, 51.0 FEET EAST OF THE WEST ENTRANCE TO THE ARROWHEAD TOWN HALL AND A FIRE DEPARTMENT (FIRE NUMBER 9798), 44.7 FEET NORTHWEST OF A LIGHT-POLE, 30.4 FEET WEST OF A POWER POLE, 2.9 FEET NORTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1366.762	0.016	416.590	0.005	2/1	2011	00000672

Geoid Separations(ft): GEOID18 = -94.672 12B = -94.662 09 = -94.580 03 = -94.449

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 51 15.71491	92 42 41.74118	434544.046	174649.613	132449.290	53233.308	387.727		2012	GPS2800
NAD83 (2007)	46 51 15.71504	92 42 41.74203	434543.987	174649.626	132449.272	53233.313	387.753		2007	GPS2300
NAD83 (1996)	46 51 15.71479	92 42 41.74168	434544.011	174649.601	132449.280	53233.305	387.794	C	2004	GPS1957

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/NIKIN-DF9109-3S-22OCT2006.jpg	S	Oct 22, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/NIKIN-DF9109-2-22OCT2006.jpg		Oct 22, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/NIKIN-DF9109-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_42628.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_42628.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NIKIN MNDT RESET

NGS Name: NIKIN RESET

County: ST. LOUIS, MN (Sheet 1)

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	2	50 N	19 W	465115.71	924241.74	2	3

NGS ACRN: [DQ9903](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: NIKIN 2001 2017

11.5 MILES SOUTHEAST OF FLOODWOOD, 11.7 MILES SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 232.75, 91.0 FEET SOUTH OF TRUNK HIGHWAY 2, 51.0 FEET EAST OF THE WEST ENTRANCE TO THE ARROWHEAD TOWN HALL AND A FIRE DEPARTMENT (FIRE NUMBER 9798), 44.7 FEET NORTHWEST OF A LIGHT-POLE, 30.4 FEET WEST OF A POWER POLE, 2.9 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height	Orthometric (Meters) Height	Survey Order/(Class)	Project Info Year	Reference
NAVD88	1366.595	416.539	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -94.672 12B = -94.662 09 = -94.580 03 = -94.449

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/NIKIN_RESET-DQ9903-3S-25JUL2017.jpg	S	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/NIKIN_RESET-DQ9903-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/NIKIN_RESET-DQ9903-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107957.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107957.pdf



Geodetic Data Sheet (Brief)
GSID Station # 64032

NORDNESS

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NORDNESS

NGS Name: NORDNESS

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9558](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	20	50 N	20 W	464808.43	925439.59		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2002	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	NGS

Description:

Stamping: NORDNESS 1999

8.5 MILES SOUTH OF FLOODWOOD, 8.5 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 2 TO TRUNK HIGHWAY 73 MILEPOINT 34.45 THEN 0.3 MILE WEST ON COUNTY ROAD 140, 30.5 FEET NORTH COUNTY ROAD 140, 15.0 FEET WEST OF AN ENTRANCE, 8.5 FEET SOUTHWEST OF A FENCE POST, 56.2 FEET WEST OF A POWER POLE, 2.8 FEET EAST OF A WITNESS POST.

Station Notes

THE MARK WAS RECOVERED WITH THE DISK ON THE GROUND AND THE ROD WAS STABLE, SO THE DISK WAS RESET IN THE SAME POSITION AT THIS TIME (4-01-2002). SEE NORDNESS MNDT RESET (DB5876). NORDNESS MNDT RESET WAS USED FOR THE VERTICAL AND NORDNESS WAS USED ONLY FOR THE HORIZONTAL.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.163 12B = -94.157 09 = -94.058 03 = -93.960

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 48 08.42871	92 54 39.58721	384538.848	155904.444	117207.675	47519.770	376.384		2012	GPS2800
NAD83 (2007)	46 48 08.42883	92 54 39.58807	384538.788	155904.457	117207.657	47519.773	376.412		2007	GPS2300
NAD83 (1996)	46 48 08.42851	92 54 39.58767	384538.816	155904.424	117207.665	47519.763	376.437	C	2003	GPS1769

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64032.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64032.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NORDNESS MNDT RESET

NGS Name: NORDNESS RESET

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	20	50 N	20 W	464808.42	925439.58	2	

NGS ACRN:	DG5876	Get Map
NGS Quad / Sta Num :	46092443/	
USGS Quad:	PRAIRIE LAKE	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2002	2017	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (2002)

Stamping: NORDNESS 1999 RESET 2002

8.5 MILES SOUTH OF FLOODWOOD, 8.5 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD TO TRUNK HIGHWAY 73 MILEPOINT 34.45, THEN 0.3 MILE WEST ON COUNTY ROAD 140, 30.5 FEET NORTH COUNTY ROAD 140, 15.0 FEET WEST OF AN ENTRANCE, 8.5 FEET SOUTHWEST OF A FENCE POST, 56.2 FEET WEST OF A POWER POLE, 2.8 FEET EAST OF A WITNESS POST.

Station Notes

THE MARK WAS RECOVERED WITH THE DISK ON THE GROUND AND THE ROD WAS STABLE, SO THE DISK WAS RESET IN THE SAME POSITION AT THIS TIME (4-01-2002). SEE NORDNESS (DE9558). NORDNESS MNDT RESET WAS USED FOR THE VERTICAL AND NORDNESS WAS USED ONLY FOR THE HORIZONTAL.

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1328.993	0.016	405.078	0.005	2/1	2004	00000464

Geoid Separations(ft): GEOID18 = -94.163 12B = -94.157 09 = -94.058 03 = -93.957

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40563.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40563.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NORDNESS MNDT RESET 2

NGS Name: NORDNESS RESET 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5187](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	20	50 N	20 W	464808.43	925439.59	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2019)

Stamping: NORDNESS 2002 2017

8.5 MILES SOUTH OF FLOODWOOD, 8.5 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD TO TRUNK HIGHWAY 73 MILEPOINT 34.45, THEN 0.3 MILE WEST ON COUNTY ROAD 140 (NORDNESS ROAD), 30.5 FEET NORTH OF COUNTY ROAD 140 (NORDNESS ROAD), 15.0 FEET WEST OF DRIVEWAY NUMBER 11681, 56.2 FEET WEST OF A POWER POLE, 2.8 FEET EAST OF A WITNESS POST.

Station Pair: PRAIR MNDT RESET - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1328.787 0.016	405.015 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.163 12B = -94.157 09 = -94.058 03 = -93.960

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/NORDNESS_RESET_2-DR5187-3N-06SEP2017.jpg	N	Sep 6, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/NORDNESS_RESET_2-DR5187-2-06SEP2017.jpg		Sep 6, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/NORDNESS_RESET_2-DR5187-1-06SEP2017.jpg		Sep 6, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108180.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108180.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107839

OLIVER

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: OLIVER

NGS Name: OLIVER

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5153](#) [Get Map](#)
NGS Quad / Sta Num : 47093212/
USGS Quad: SILICA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	8	55 N	21 W	471550.10	930126.83	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 42 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** OLIVER 2017

11.6 MILES SOUTH-SOUTHWEST OF HIBBING, 10.15 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 68.65, 46.6 FEET WEST OF TRUNK HIGHWAY 73, 205.3 FEET SOUTH-SOUTHWEST A GUARD RAIL, 1.5 FEET EAST OF A WITNESS POST.

Station Pair: VINCENT - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1329. 213 0. 016	405. 145 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.250 12B = -97.270 09 = -97.162 03 = -97.083

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/OLIVER-DR5153-3W-26JUL2017.jpg	W	Jul 26, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/OLIVER-DR5153-2-26JUL2017.jpg		Jul 26, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/OLIVER-DR5153-1-26JUL2017.jpg		Jul 26, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107839.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107839.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: P 163

NGS Name: P 163

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0169](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	35	54 N	17 W	470706.00	922818.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1966	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1966) **Stamping:** P 163 1935

3.5 MILES SOUTH OF COTTON, 3.5 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1353. 573	0. 016	412. 570	0. 005	2/0	1991	00000025
NGVD29	1352. 996	0. 007	412. 394	0. 002	1	1935	L63 MINN

Geoid Separations(ft): GEOID18 = -96.922 12B = -96.926 09 = -96.794 03 = -96.601

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28959.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28959.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: P 163 RESET

NGS Name: P 163 RESET

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	54 N	17 W	470706.00	922817.00		

NGS ACRN: [SJ0170](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1966	1992	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 3 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1978)

Stamping: P 163 RESET 1966

3.6 MILES SOUTH ON TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 35.45, 75.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53, 16.0 FEET NORTH OF A DIM TRAIL EAST, 54.5 FEET NORTH-NORTHWEST OF A POWER POLE, 2.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NGVD29	1352. 953 0. 007	412. 381 0. 002	1	1966 L63 MINN

Geoid Separations(ft): GEOID18 = -96.919 12B = -96.926 09 = -96.794 03 = -96.601

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28960.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28960.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: P 271

NGS Name: P 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0698](#) [Get Map](#)
NGS Quad / Sta Num : 46092414/
USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	35	52 N	19 W	465720.00	924205.75	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=? Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (2019)

Stamping: P 271 1948

7.6 MILES WEST-SOUTHWEST OF ALBORN, AT A 90 DEGREE TURN (NORTH AND WEST) IN COUNTY ROAD 166, 27.0 FEET SOUTH OF THE WEST TANGENT, 122.0 FEET WEST OF THE NORTH TANGENT EXTENDED, 8.5 FEET EAST OF A TELEPHONE POLE, 10.0 FEET WEST OF A SMALL BOULDER, 57.0 FEET WEST OF A TRAIL SOUTH, 2.0 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1319.584	0.016	402.210	0.005	2/0	1991	00000025
NGVD29	1319.007	0.016	402.034	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.640 12B = -95.623 09 = -95.535 03 = -95.387

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28982.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28982.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28983

P 272

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: P 272

NGS Name: P 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0507](#)

[Get Map](#)

NGS Quad / Sta Num : 47092323/

USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	18	53 N	18 W	470418.00	923941.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1993	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (2019)

Stamping: P 272 1948

3.55 MILES EAST OF THE HIGH SCHOOL AT MEADOWLANDS, AT THE JUNCTION OF COUNTY ROAD 133 AND A ROAD NORTH, 69.0 FEET NORTH OF COUNTY ROAD 133, 23.0 FEET WEST OF A ROAD NORTH, 75.0 FEET NORTHWEST OF THE NORTH END OF A METAL CULVERT, 2.0 FEET SOUTH OF A WITNESS POST, IN JULY 1993 THE TOP 18.0 INCH DIAMETER OF THE CONCRETE MONUMENT WITH THE DISK WAS FOUND LYING IN A ROAD DITCH BY THE AZIMUTH MARK FOR NATIONAL GEODETIC SURVEY (NGS) STATION ELMER (ABOUT 10.0 MILES WEST OF WHERE P 272 WAS ESTABLISHED IN 1948).

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1282. 927	0. 016	391. 037	0. 005	2/0	1991	00000025
NGVD29	1282. 330	0. 007	390. 855	0. 002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -96.775 12B = -96.765 09 = -96.663 03 = -96.479

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28983.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28983.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: P 273

NGS Name: P 273

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0503](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	36	53 N	21 W	470227.00	925613.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1950	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2019) **Stamping:** P 273 1948

8.6 MILES NORTH FROM FLOODWOOD, ABOUT 8.6 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE HIGH SCHOOL AT FLOODWOOD, AT THE JUNCTION OF A ROAD EAST, 73.0 FEET EAST-NORTHEAST OF TRUNK HIGHWAY 73, 17.0 FEET NORTH OF THE ROAD EAST, 120.0 FEET EAST AND ACROSS THE HIGHWAY FROM THE EAST BANK OF THE FLOODWOOD RIVER, 54.5 FEET EAST OF A FENCE CORNER, 1.0 FOOT SOUTH OF A WIRE FENCE, 2.0 FEET WEST OF A WHITE WOODEN WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1246. 743	0. 016	380. 008	0. 005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -96.397 12B = -96.381 09 = -96.342 03 = -96.158

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_54272.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_54272.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: P 273 RESET 1950

NGS Name: P 273 RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0504](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	25	53 N	21 W	470226.80	925611.20	2	

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1950	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1950)

Stamping: P 273 RESET 1950

8.2 MILES NORTH ON TRUNK HIGHWAY 73 FROM THE HIGH SCHOOL AT FLOODWOOD, AT THE NORTH END OF A TRUNK HIGHWAY 73 CURVE AND THE JUNCTION OF A ROAD EAST, 148.0 FEET EAST-NORTHEAST OF TRUNK HIGHWAY 73, 21.0 FEET SOUTH OF A SIDE ROAD, 50.0 FEET NORTH AND 107.0 FEET EAST OF THE NORTHEAST CORNER OF THE EAST END OF A BOX CULVERT, 40.0 FEET SOUTH OF AN EAST-WEST FENCE, 1.0 FOOT SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1248.498	0.016	380.543	0.005	2/1	2021	00000963
NGVD29	1247.799	0.007	380.330	0.002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -96.397 12B = -96.381 09 = -96.342 03 = -96.158

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/P_273_RESET-SJ0504-3NE-12JUL2017.jpg	NE	Jul 12, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/P_273_RESET-SJ0504-2-12JUL2017.jpg		Jul 12, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/P_273_RESET-SJ0504-1-12JUL2017.jpg		Jul 12, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28984.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28984.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28985

P 274

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: P 274

NGS Name: P 274

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0393](#) [Get Map](#)
NGS Quad / Sta Num : 47092332/
USGS Quad: ELMER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	7	53 N	19 W	470552.83	924735.75	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=? Vert=YES	NO		PROJECTS 5 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** P 274 1948

5.0 MILES SOUTH ON COUNTY ROAD 5 FROM THE HIGH SCHOOL AT TOIVOLA, 1.0 MILE SOUTH OF A RAILROAD CROSSING, AT THE JUNCTION OF COUNTY ROAD 5 AND COUNTY ROAD 193, 103.0 FEET WEST OF COUNTY ROAD 5, 19.0 FEET SOUTH OF COUNTY ROAD 193, 71.0 FEET WEST OF A FENCE CORNER, 1.5 FEET NORTH OF A FENCE LINE, 2.0 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1274.492	0.016	388.466	0.005	2/0	1991	00000025
NGVD29	1273.852	0.016	388.271	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.998 12B = -96.985 09 = -96.922 03 = -96.732

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28985.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28985.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28986

P 276

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: P 276

NGS Name: P 276

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0380](#) [Get Map](#)
NGS Quad / Sta Num : 47092342/
USGS Quad: LITTLE SWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	6	55 N	19 W	471657.45	924833.93	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=? Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: P 276 1948

1.0 MILE SOUTH ON COUNTY ROAD 5 FROM A CROSSROAD AND A STORE AT LITTLE SWAN, 0.5 MILE NORTH OF A SCHOOL, AT THE JUNCTION OF COUNTY ROAD 5 AND COUNTY ROAD 442 WEST, 31.0 FEET EAST OF COUNTY ROAD 5, 8.0 FEET SOUTH OF COUNTY ROAD 442 WEST EXTENDED, 8.0 FEET SOUTH OF A FENCE CORNER, 1.0 FOOT WEST OF A FENCE, 2.0 FEET NORTH OF A WITNESS POST.

Station Notes

THE AREA HAS BEEN RE-DITCHED.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1291.769	0.016	393.732	0.005	2/0	1991	00000025
NGVD29	1291.037	0.016	393.509	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.884 12B = -97.890 09 = -97.811 03 = -97.700

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_28986.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28986.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: P 279

NGS Name: P 279

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0485](#) [Get Map](#)
NGS Quad / Sta Num : 47092334/
USGS Quad: UPSTEAD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	54 N	21 W	470810.00	925950.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1959	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1959) **Stamping:** P 279 1948

16.0 MILES NORTH OF FLOODWOOD, 16.0 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 8 IN FLOODWOOD.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1296.913	0.016	395.300	0.005	2/0	1991	00000025
NGVD29	1296.169	0.007	395.073	0.002	1	1948	L28 MINN

Geoid Separations(ft): GEOID18 = -96.926 12B = -96.922 09 = -96.876 03 = -96.706

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28987.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28988

P 279 RESET 1958

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: P 279 RESET 1958

NGS Name: P 279 RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0486](#) [Get Map](#)
NGS Quad / Sta Num : 47092334/
USGS Quad: UPSTEAD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	54 N	21 W	470810.00	925950.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	2017	NOT FOUND	Horz=NO Vert=NO	YES		PROJECTS 6 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1959)

Stamping: P 279 RESET 1958

3.75 MILES NORTH OF A SCHOOL IN CEDAR VALLEY, 75.0 FEET WEST OF TRUNK HIGHWAY 73, AT THE NORTH END OF A SMALL MEADOW, 480.0 FEET SOUTH OF A METAL CULVERT, IN THE CENTER OF A LONG HIGHWAY CURVE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	1291.080	0.007	393.522	0.002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -96.926 12B = -96.922 09 = -96.876 03 = -96.706

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/P_279_RESET-SJ0486-3W-12JUL2017.jpg	W	Jul 12, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28988.pdf



Geodetic Data Sheet (Brief)
GSID Station # 28989

P 28

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: P 28

NGS Name: P 28

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0616](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	52 N	18 W	465703.00	923407.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2018) **Stamping:** P 28 1934

1.9 MILES NORTH ON A RAILROAD FROM CULVER, 115.5 FEET SOUTH OF RAILROAD MILEPOST 31, 17 RAILS SOUTH OF A RAILROAD SEMAPHORE, 45.0 FEET EAST OF A RAILROAD.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1279.030	0.016	389.849	0.005	2/0	1991	00000025
NGVD29	1278.501	0.016	389.688	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.521 12B = -95.512 09 = -95.394 03 = -95.223

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_28989.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29002

P 30

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: P 30

NGS Name: P 30

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	36	51 N	20 W	465134.00	924843.00	2	

NGS ACRN: [RN0680](#)

[Get Map](#)

NGS Quad / Sta Num : 46092442/

USGS Quad: GOWAN

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1974	POOR	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1974)

Stamping: P 30 1934

1.85 MILES EAST ON A RAILROAD FROM THE MIRBAT RAILROAD STATION, 0.2 MILE EAST OF A DOUBLE SIGNAL RELAY, 13 RAILS WEST OF A RAILROAD CULVERT, AT A WIRE GATE IN THE SOUTH RIGHT-OF-WAY FENCE, 30.0 FEET SOUTH OF A RAILROAD.

Station Notes

THE MONUMENT IS TILTED. THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1239.184	0.016	377.704	0.005	2/0	1991	00000025
NGVD29	1238.554	0.016	377.512	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.750 12B = -94.737 09 = -94.652 03 = -94.537

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29002.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PASCH

NGS Name: PASCH

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1883](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	24	50 N	17 W	464741.13	922657.57	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (17) **Stamping:** PASCH 2017

5.3 MILES NORTH CLOQUET, 3.55 MILES SOUTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 33 MILEPOINT 7.70, 26.8 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 33, 46.3 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 33, 161.3 FEET NORTH OF A CROSSOVER, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1205. 673 0. 016	367. 490 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -93.845 12B = -93.829 09 = -93.743 03 = -93.550

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PASCH-DR1883-3S-22AUG2017.jpg	S	Aug 22, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PASCH-DR1883-2-22AUG2017.jpg		Aug 22, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PASCH-DR1883-1-22AUG2017.jpg		Aug 22, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Geodetic Data Sheet (Brief)
GSID Station # 29022

PAUP MNDT

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PAUP MNDT

NGS Name: PAUP

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0746](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/1062
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	5	50 N	19 W	465108.50	924702.57	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (2001) **Stamping:** PAUP 1974

7.7 MILES SOUTHEAST OF FLOODWOOD, 8.3 MILES SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 SOUTH IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 229.3, 67.5 FEET SOUTH OF TRUNK HIGHWAY 2, 79.7 FEET WEST-NORTHWEST OF A POWER POLE NUMBER 11514, 50.41 FEET NORTH OF STATION 6907 N, 36.3 FEET NORTHWEST OF A RIGHT-OF-WAY POST, 3.7 FEET NORTH OF A WITNESS POST.

Station Notes

PAUP MNDT RM 2 WAS NOT SEARCHED FOR IN 1995.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1345.230	0.016	410.027	0.005	2/1	2021	00000963
NGVD29	1344.620	0.016	409.841	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.672 12B = -94.665 09 = -94.577 03 = -94.458

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 51 08.49585	92 47 02.57236	416411.892	173987.069	126922.598	53031.365	381.170		2012	GPS2800
NAD83 (2007)	46 51 08.49596	92 47 02.57322	416411.832	173987.081	126922.580	53031.368	381.198		2007	GPS2300
NAD83 (1996)	46 51 08.49547	92 47 02.57292	416411.853	173987.031	126922.587	53031.353	381.235	C	2004	GPS1957
NAD83 (1986)	46 51 08.48831	92 47 02.57453	416411.737	173986.306	126922.551	53031.132		2	1986	17289
NAD27	46 51 08.68721	92 47 01.86319						2	1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PAUP-RN0746-3S-25JUL2017.jpg	S	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PAUP-RN0746-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PAUP-RN0746-1-25JUL2017.jpg		Jul 25, 2017

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Geodetic Data Sheet (Brief)
GSID Station # 29023

PAUP MNDT AZ MK

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PAUP MNDT AZ MK

NGS Name: PAUP AZ MK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0747](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/1063
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	32	51 N	19 W	465110.72	924612.72	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2021	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	MNDT

Description: (2001) **Stamping:** PAUP 1974

7.5 MILES WEST-SOUTHWEST OF BROOKSTON, 8.1 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31, AT TRUNK HIGHWAY 2 MILEPOINT 230, 97.8 FEET NORTH OF TRUNK HIGHWAY 2, 78.0 FEET WEST OF AN EXTENDED DRIVEWAY SOUTH, 3.0 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1331.073	0.016	405.712	0.005	2/1	2021	00000963
NGVD29	1330.430	0.016	405.516	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.678 12B = -94.668 09 = -94.583 03 = -94.462

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 51 10.72314	92 46 12.72374	419877.659	174198.274	127978.967	53095.740	376.859		2012	GPS2800
NAD83 (2007)	46 51 10.72326	92 46 12.72460	419877.600	174198.286	127978.948	53095.744	376.886		2007	GPS2300
NAD83 (1996)	46 51 10.72291	92 46 12.72419	419877.628	174198.251	127978.957	53095.733	376.925	C	2004	GPS1957
NAD83 (1986)	46 51 10.71690	92 46 12.72690	419877.437	174197.643	127978.899	53095.548		3	1986	17289
NAD27	46 51 10.91563	92 46 12.01718						3	1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PAUP_AZ_MK-RN0747-3N-25JUL2021.jpg	N	Jul 25, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PAUP_AZ_MK-RN0747-2-25JUL2021.jpg		Jul 25, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PAUP_AZ_MK-RN0747-1-25JUL2021.jpg		Jul 25, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29023.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29023.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PAUP MNDT RM 2

NGS Name: PAUP RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0744](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	32	51 N	19 W	465109.83	924704.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2007	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 6 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

REFERENCE MARK DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: PAUP NO 2 1974

1.7 MILES SOUTHWEST OF PAUPORES, 3.4 MILES SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86 AT GOWAN, AT TRUNK HIGHWAY 2 MILEPOINT 229.3, 69.3 FEET NORTH OF TRUNK HIGHWAY 2, 87.0 FEET WEST-SOUTHWEST OF A POWER POLE, 2.5 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1335.811	0.016	407.156	0.005	2/0	1991	00000025
NGVD29	1335.184	0.016	406.965	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.678 12B = -94.668 09 = -94.583 03 = -94.462

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29024.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29024.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29025

PAYNE

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PAYNE

NGS Name: PAYNE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ2195](#) [Get Map](#)
NGS Quad / Sta Num : 47092322/1014
USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	10	53 N	18 W	470545.48	923558.24	2	1

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2007	GOOD	Horz=NO Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

TRIANGULATION STATION DISK

Mon. Agency

NGS

Description: (2007)

Stamping: PAYNE 1952

IN PAYNE, 9.0 MILES NORTH ALONG COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND COUNTY ROAD 47 IN ALBORN, ABOUT 0.2 MILE SOUTH ON COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND COUNTY ROAD 232, 199.0 FEET WEST OF COUNTY ROAD 7, 99.5 FEET WEST OF THE WEST RAIL OF A RAILROAD, 13.0 FEET WEST OF A FENCE, 91.19 FEET NORTHWEST OF PAYNE RM 1, 110.94 FEET SOUTHEAST OF PAYNE RM 2, 21.5 FEET NORTHWEST OF A TELEPHONE PEDESTAL NUMBER C291.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1315.857 0.016	401.074 0.005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -96.952 12B = -96.945 09 = -96.834 03 = -96.647

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>				
NAD83 (1996)	47 05 45.47618	92 35 58.24025	462757.498	262700.394	141048.767	80071.240	371.509	1	1999	17648
NAD83 (1986)	47 05 45.47409	92 35 58.24350	462757.272	262700.182	141048.699	80071.176		1	1986	17289
NAD27	47 05 45.69600	92 35 57.55000						1	1956	11100

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PAYNE-SJ2195-3W-22MAY2007.jpg	W	May 22, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PAYNE-SJ2195-2-22MAY2007.jpg		May 22, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PAYNE-SJ2195-1-22MAY2007.jpg		May 22, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29025.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29025.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PAYNE AZ MK

NGS Name: PAYNE AZ MK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ3454](#) [Get Map](#)
NGS Quad / Sta Num : 47092322/
USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	10	53 N	18 W	470530.00	923555.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2008	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	NGS

Description: **Stamping:** PAYNE 1952

43.0 FEET EAST OF THE CENTERLINE OF COUNTY ROAD 7, 19.5 FEET NORTH OF THE CENTER OF A DRIVEWAY, 2.0 FEET WEST OF A FENCE AND 2.0 FEET NORTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.913 12B = -96.903 09 = -96.791 03 = -96.604

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78890.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78890.pdf



Geodetic Data Sheet (Brief)
GSID Station # 65667

PAYNE RM 1

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PAYNE RM 1

NGS Name: PAYNE RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ3455](#) [Get Map](#)
NGS Quad / Sta Num : 47092322/
USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	10	53 N	18 W	470544.68	923557.63	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2007	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

Description: (2007)

Stamping: PAYNE NO 1 1952

9.0 MILES NORTH OF ALBORN, 9.0 MILES NORTH ALONG COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND COUNTY ROAD 47 IN ALBORN, ALSO 0.2 MILE SOUTH OF THE JUNCTION OF COUNTY ROAD 7 AND COUNTY ROAD 232, 156.5 FEET WEST OF COUNTY ROAD 7, 57.0 FEET WEST OF THE WEST RAIL OF THE RAILROAD TRACKS, 69.7 FEET SOUTHEAST OF A TELEPHONE PEDESTAL NUMBER C291, 68.0 FEET NORTH OF AN ENTRANCE, 104.0 FEET SOUTHWEST OF A TELEPHONE POLE, 1.0 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1314. 085 0. 016	400. 534 0. 005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -96.952 12B = -96.942 09 = -96.834 03 = -96.647

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PAYNE_RM_1-CJ3455-3W-22MAY2007.jpg	W	May 22, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PAYNE_RM_1-CJ3455-2-22MAY2007.jpg		May 22, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PAYNE_RM_1-CJ3455-1-22MAY2007.jpg		May 22, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65667.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65667.pdf



Geodetic Data Sheet (Brief)
GSID Station # 65671

PAYNE RM 2

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PAYNE RM 2

NGS Name: PAYNE RM 2

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	10	53 N	18 W	470546.06	923559.60	2	

NGS ACRN:	CJ3456	Get Map
NGS Quad / Sta Num :	47092322/	
USGS Quad:	PAYNE	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2007	GOOD	Horz=NO Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

REFERENCE MARK DISK

Mon. Agency

NGS

Description: (2007)

Stamping: PAYNE NO 2 1952

9.0 MILES NORTH OF ALBORN, 9.0 MILES NORTH ALONG COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND COUNTY ROAD 47 IN ALBORN, ALSO 0.2 MILE SOUTH OF THE JUNCTION OF COUNTY ROAD 7 AND COUNTY ROAD 232, 2.0 FEET SOUTHEAST OF AN OLD FENCE LINE, 110.94 FEET NORTHWEST OF STATION PAYNE, 1.0 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1312. 386	0. 016	400. 016	0. 005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -96.955 12B = -96.949 09 = -96.837 03 = -96.650

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PAYNE_RM_2-CJ3456-3W-22MAY2007.jpg	W	May 22, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PAYNE_RM_2-CJ3456-2-22MAY2007.jpg		May 22, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PAYNE_RM_2-CJ3456-1-22MAY2007.jpg		May 22, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65671.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65671.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PICKETT MNDT

NGS Name: PICKETT

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE8058](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	50 N	18 W	465104.45	923507.84		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	NOT FOUND	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type

UNKNOWN

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (2003)

Stamping: PICKETT 1999

1.5 MILES SOUTHEAST OF BROOKSTON, 6.10 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 9.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 2 MILEPOINT 238.70, 114.0 FEET NORTH OF TRUNK HIGHWAY 2, 93.0 FEET EAST-NORTHEAST OF A RIGHT-OF-WAY POST, 35.4 FEET NORTHEAST OF A POWER POLE, 2.3 FEET WEST OF A WITNESS POST.

Station Notes

REPORTED REMOVED BY MNDOT DISTRICT 1 BUT FOUND IN GOOD CONDITION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.596 12B = -94.596 09 = -94.495 03 = -94.596

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 51 04. 45006	92 35 07. 83761	466090. 707	173428. 376	142064. 732	52861. 075	355. 309				2012	GPS2800
NAD83 (2007)	46 51 04. 45020	92 35 07. 83848	466090. 647	173428. 390	142064. 713	52861. 079	355. 336				2007	GPS2300
NAD83 (1996)	46 51 04. 44990	92 35 07. 83838	466090. 654	173428. 360	142064. 715	52861. 070	355. 387	C			2004	GPS1957

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PICKETT-DE8058-3W-25JUL2017.jpg	W	Jul 25, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_39445.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_39445.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PIPE MNDT

NGS Name: PIPE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0666](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/1070
USGS Quad: GOWAN

1/4	Sec	Twp	Rng	Reference	Reference	Vert	Horz
				Latitude	Longitude	Order	Order
SW	27	51 N	20 W	465221.02	925137.86	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1974	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (2019) **Stamping:** PIPE 1974

4.6 MILES SOUTHEAST OF FLOODWOOD, 4.15 MILES SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 (THE JUNCTION IS 0.5 MILE SOUTHEAST OF FLOODWOOD), AT TRUNK HIGHWAY 2 MILEPOINT 225.15, 85.6 FEET SOUTHWEST OF TRUNK HIGHWAY 2, 37.3 FEET SOUTHWEST OF THE SOUTHEAST END OF A METAL CULVERT, 48.4 FEET EAST OF A POWER POLE NUMBER 1 WITH A TRANSFORMER, 20.0 FEET SOUTHEAST OF DRIVEWAY NUMBER 11198, 6.5 FEET NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1252.570	0.016	381.784	0.005	2/1	2021	00000963
NGVD29	1251.772	0.016	381.541	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.875 12B = -94.862 09 = -94.773 03 = -94.662

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (2011)	46 52 21.01715	92 51 37.85728	397316.089	181425.573	121102.186	55298.625	352.862		2012	GPS2800
NAD83 (2007)	46 52 21.01724	92 51 37.85815	397316.029	181425.582	121102.168	55298.628	352.891		2007	GPS2300
NAD83 (1996)	46 52 21.01685	92 51 37.85778	397316.054	181425.543	121102.175	55298.616	352.920	C	2004	GPS1957
NAD83 (1986)	46 52 21.01188	92 51 37.85642	397316.146	181425.039	121102.203	55298.462		2	1986	17289
NAD27	46 52 21.21272	92 51 37.14066						2	1977	15924

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PIPE-RN0666-3SW-24JUL2017.jpg	SW	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PIPE-RN0666-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PIPE-RN0666-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29044.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29044.pdf



Geodetic Data Sheet (Brief)
GSID Station # 40567

POINET MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: POINET MNDT

NGS Name: POINET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9560](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	33	50 N	20 W	464612.77	925256.23	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 45 FT)	SURVEY DISK	MNDT

Description: (1999) **Stamping:** POINET 1999

6.35 MILES NORTH OF CROMWELL, 6.35 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 210 IN CROMWELL, AT TRUNK HIGHWAY 73 MILEPOINT 31.55, 74.0 FEET EAST OF TRUNK HIGHWAY 73, 74.0 FEET NORTH-NORTHEAST OF A POWER POLE, 21.0 FEET WEST OF A GRAVEL ROAD, 2.6 FEET SOUTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1306.657 0.016	398.270 0.005	2/1	2004 00000464

Geoid Separations(ft): GEOID18 = -93.809 12B = -93.806 09 = -93.714 03 = -93.612

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>				
NAD83 (2011)	46 46 12.77325	92 52 56.23291	391664.745	144145.753	119379.653	43935.714	369.667		2012	GPS2800
NAD83 (2007)	46 46 12.77337	92 52 56.23376	391664.686	144145.766	119379.635	43935.717	369.696		2007	GPS2300
NAD83 (1996)	46 46 12.77308	92 52 56.23340	391664.711	144145.736	119379.643	43935.708	369.725	C	2003	GPS1769

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/POINET-DE9560-3W-06JUN2016.jpg	W	Jun 6, 2016
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/POINET-DE9560-2-06JUN2016.jpg		Jun 6, 2016
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/POINET-DE9560-1-06JUN2016.jpg		Jun 6, 2016

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40567.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40567.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108213

POINET MNDT RESET

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: POINET MNDT RESET

NGS Name: POINET RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR3222](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	33	50 N	20 W	464612.77	925256.23	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2018	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 45 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** POINET 1999 2017

6.35 MILES NORTH OF CROMWELL, 6.35 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 210 IN CROMWELL, AT TRUNK HIGHWAY 73 MILEPOINT 31.55, 74.0 FEET EAST OF TRUNK HIGHWAY 73, 21.0 FEET WEST OF A DRIVEWAY, 2.6 FEET SOUTH OF A WITNESS POST.

Station Pair: FINE MNDT RESET - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1306.448 0.016	398.206 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -93.809 12B = -93.806 09 = -93.714 03 = -93.612

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 46 12.77326	92 52 56.23292	391664.745	144145.754	119379.653	43935.714	369.611		2019	GPS3322
NAD83 (1996)	46 46 12.77302	92 52 56.23341	391664.710	144145.730	119379.642	43935.707	369.679	C	2019	HCARL

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/POINET_RESET-DR3222-3E-06SEP2017.jpg	E	Sep 6, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/POINET_RESET-DR3222-2-06SEP2017.jpg		Sep 6, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/POINET_RESET-DR3222-1-06SEP2017.jpg		Sep 6, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108213.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108213.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PRAIR MNDT

NGS Name: PRAIR

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9561](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	20	50 N	20 W	464808.51	925414.18	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	SURVEY DISK	MNDT

Description: (1999) **Stamping:** PRAIR 1999

8.5 MILES SOUTH OF FLOODWOOD, 8.5 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 34.45, 63.0 FEET NORTHEAST OF TRUNK HIGHWAY 73, 36.0 FEET NORTHWEST OF AN ENTRANCE, 20.7 FEET SOUTH OF A POWER POLE, 1.8 FEET SOUTHWEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1326.234 0.016	404.237 0.005	2/1	2004 00000464

Geoid Separations(ft): GEOID18 = -94.166 12B = -94.157 09 = -94.061 03 = -93.960

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 48 08.51148	92 54 14.18229	386306.353	155902.516	117746.412	47519.182	375.551		2012	GPS2800
NAD83 (2007)	46 48 08.51159	92 54 14.18315	386306.293	155902.527	117746.394	47519.185	375.579		2007	GPS2300
NAD83 (1996)	46 48 08.51127	92 54 14.18274	386306.322	155902.495	117746.402	47519.176	375.603	C	2003	GPS1769

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40562.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40562.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PRAIR MNDT RESET

NGS Name: PRAIR RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5186](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

1/4	Sec	Twp	Rng	Reference	Reference	Vert	Horz
				Latitude	Longitude	Order	Order
NW	20	50 N	20 W	464808.51	925414.18	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** PRAIR 1999 2017

8.5 MILES SOUTH OF FLOODWOOD, 8.5 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 34.45, 63.0 FEET NORTHEAST OF TRUNK HIGHWAY 73, 36.0 FEET NORTHWEST OF AN ENTRANCE, 20.7 FEET SOUTH OF A POWER POLE, 1.8 FEET SOUTHWEST OF A WITNESS POST.

Station Pair: NORDNESS MNDT RESET 2 - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	1326.047 0.016	404.180 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.166 12B = -94.157 09 = -94.061 03 = -93.960

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PRAIR_RESET-DR5186-3E-06SEP2017.jpg	E	Sep 6, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PRAIR_RESET-DR5186-2-06SEP2017.jpg		Sep 6, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PRAIR_RESET-DR5186-1-06SEP2017.jpg		Sep 6, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108217.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108217.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PRAIRIE LAKE MN137

NGS Name: PRAIRIE LAKE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF9146](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	27	50 N	21 W	464653.32	925857.52		C	2001	2020	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 16 FT)	SURVEY DISK	MN-137

Description: (2002) **Stamping:** PRAIRIE LAKE 2001

8.0 MILES NORTHWEST OF CROMWELL, 11.25 MILES NORTH ON TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 210 IN CROMWELL, THEN 0.40 MILE WEST ON COUNTY ROAD 140, THEN 4.80 MILES SOUTH AND WEST ON COUNTY ROAD 51, AT TRUNK HIGHWAY 73 MILEPOINT 34.45, 33.0 FEET WEST OF A FIELD ENTRANCE, 30.0 FEET WEST OF A DRIVEWAY, 25.0 FEET NORTH OF COUNTY ROAD 51, 3.0 FEET SOUTH-SOUTHWEST OF A POWER POLE, 2.0 FEET SOUTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.907 12B = -93.917 09 = -93.812 03 = -93.710

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 46 53.32415	92 58 57.51785	366542.600	148408.944	111722.408	45235.137	369.274		2012	GPS2800
NAD83 (2007)	46 46 53.32427	92 58 57.51872	366542.540	148408.957	111722.390	45235.141	369.303		2007	GPS2300
NAD83 (1996)	46 46 53.32399	92 58 57.51839	366542.562	148408.929	111722.396	45235.132	369.330	C	2003	GPS1931

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PRAIRIE_LAKE-DF9146-3N-06JUL2020.jpg	N	Jul 6, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PRAIRIE_LAKE-DF9146-2-06JUL2020.jpg		Jul 6, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/PRAIRIE_LAKE-DF9146-1-06JUL2020.jpg		Jul 6, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41649.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41649.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29062

Q 159

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Q 159

NGS Name: Q 159

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0300](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	2	53 N	17 W	470616.71	922711.41	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 4 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2007)

Stamping: Q 159 1935

4.5 MILES NORTH OF CANYON, 4.5 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON TO TRUNK HIGHWAY 53 MILEPOINT 34.50, THEN 0.9 MILE EAST ON COUNTY ROAD 49, 26.0 FEET SOUTH OF COUNTY ROAD 49 (THREE LAKES ROAD), 64.8 FEET SOUTH-SOUTHWEST OF A POWER POLE, 40.5 FEET NORTHWEST OF THE NORTHEAST CORNER OF A CABIN, 13.2 FEET EAST-NORTHEAST OF A CABLE MARKER, 0.5 FOOT NORTH OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1376.533	0.016	419.568	0.005	2/1	2021	00000963
NGVD29	1376.041	0.016	419.418	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.742 12B = -96.752 09 = -96.614 03 = -96.414

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/Q_159-SJ0300-3S-18SEP2017.jpg	S	Sep 18, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/Q_159-SJ0300-2-18SEP2017.jpg		Sep 18, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/Q_159-SJ0300-1-18SEP2017.jpg		Sep 18, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29062.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29062.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Q 163

NGS Name: Q 163

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0171](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	2	53 N	17 W	470616.00	922817.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1978	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1978) **Stamping:** Q 163 1935

4.45 MILES NORTH OF CANYON, 4.47 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1356.798	0.016	413.553	0.005	2/0	1991	00000025
NGVD29	1356.234	0.007	413.381	0.002	1	1935	L63 MINN

Geoid Separations(ft): GEOID18 = -96.791 12B = -96.801 09 = -96.663 03 = -96.470

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29066.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29066.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Q 271

NGS Name: Q 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0699](#) [Get Map](#)
NGS Quad / Sta Num : 46092414/
USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	34	52 N	19 W	465718.02	924321.60	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=? Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948)

Stamping: Q 271 1948

8.6 MILES WEST-SOUTHWEST OF ALBORN, 1.0 MILE EAST ALONG COUNTY ROAD 166 FROM THE JUNCTION OF COUNTY ROAD 166 AND COUNTY ROAD 5, 0.1 MILE WEST OF A CULVERT AT A CREEK, AT A SMALL FARM CLEARING, 27.0 FEET SOUTH OF COUNTY ROAD 166, 92.0 FEET EAST OF A FARM DRIVE, 148.0 FEET NORTHEAST OF THE NORTHEAST CORNER OF A HOUSE, 7.0 FEET EAST OF A TELEPHONE POLE, 2.5 FEET NORTH OF A FENCE, 2.0 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1316. 172	0. 016	401. 170	0. 005	2/0	1991	00000025
NGVD29	1315. 591	0. 016	400. 993	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.643 12B = -95.623 09 = -95.541 03 = -95.394

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29087.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29087.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Q 272

NGS Name: Q 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0506](#) [Get Map](#)
NGS Quad / Sta Num : 47092323/
USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	16	53 N	18 W	470416.00	923825.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=? Vert=YES	NO		PROJECTS 6 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: Q 272 1948

4.55 MILES EAST OF THE HIGH SCHOOL AT MEADOWLANDS, AT THE JUNCTION OF COUNTY ROAD 133 AND A DIM ROAD NORTH, 70.0 FEET NORTH OF COUNTY ROAD 133, 20.0 FEET EAST OF A DIM ROAD NORTH, 2.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1288. 118	0. 016	392. 619	0. 005	2/0	1991	00000025
NGVD29	1287. 527	0. 016	392. 439	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.755 12B = -96.748 09 = -96.644 03 = -96.456

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29088.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29088.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Q 273

NGS Name: Q 273

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0525](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	25	53 N	21 W	470310.00	925709.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1950	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** Q 273 1948

9.7 MILES NORTH FROM FLOODWOOD, ABOUT 9.7 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE HIGH SCHOOL AT FLOODWOOD, ABOUT 0.35 MILE SOUTHEAST OF THE JUNCTION OF A ROAD EAST, AT THE JUNCTION OF A ROAD LEADING NORTH, 78.0 FEET NORTHEAST OF TRUNK HIGHWAY 73, 27.0 FEET WEST OF THE ROAD NORTH, 120.0 FEET NORTH OF THE JUNCTION, 90.0 FEET SOUTH OF A POWER POLE, 65.5 FEET NORTH OF A TELEPHONE POLE, 2.0 FEET NORTH OF A WHITE WOODEN WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1250. 316	0. 016	381. 097	0. 005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -96.479 12B = -96.466 09 = -96.424 03 = -96.240

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_54274.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_54274.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29089

Q 273 RESET 1950

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Q 273 RESET 1950

NGS Name: Q 273 RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0526](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	26	53 N	21 W	470310.00	925709.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2017	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 3 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1950) **Stamping:** Q 273 RESET 1950

9.3 MILES NORTH ON TRUNK HIGHWAY 73 FROM THE HIGH SCHOOL AT FLOODWOOD, AT THE JUNCTION OF TRUNK HIGHWAY 73 AND COUNTY ROAD 186 NORTH, 103.0 FEET NORTH OF THE JUNCTION, 75.0 FEET NORTH-NORTHEAST OF TRUNK HIGHWAY 73, 35.0 FEET WEST OF A SIDE ROAD, 36.0 FEET SOUTH OF A POWER POLE, 2.0 FEET SOUTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE. FOUND THE CONCRETE BROKEN.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NGVD29	1249. 807 0. 007	380. 942 0. 002	1	1960 L28 MINN

Geoid Separations(ft): GEOID18 = -96.479 12B = -96.466 09 = -96.424 03 = -96.240

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/Q_273_RESET-SJ0526-1-13JUL2017.jpg		Jul 13, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29089.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29090

Q 274

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Q 274

NGS Name: Q 274

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0392](#) [Get Map](#)
NGS Quad / Sta Num : 47092332/
USGS Quad: ELMER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	31	54 N	19 W	470645.70	924725.67	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=? Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2019)

Stamping: Q 274 1948

3.95 MILES SOUTH ON COUNTY ROAD 5 FROM THE HIGH SCHOOL AT TOIVOLA, ON A COUNTY ROAD 5 CURVE AND A RAILROAD CROSSING, 53.0 FEET SOUTHEAST OF COUNTY ROAD 5, 292.0 FEET NORTHEAST OF THE NORTHEAST RAIL OF THE NORTHEAST RAILROAD TRACK, 44.0 FEET WEST OF A ROAD, 21.0 FEET SOUTH OF A ROAD CONNECTING COUNTY ROAD 5 AND A ROAD, 5.5 FEET SOUTHEAST OF A TELEPHONE POLE, 2.0 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1283. 826	0. 016	391. 311	0. 005	2/0	1991	00000025
NGVD29	1283. 183	0. 016	391. 115	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.119 12B = -97.109 09 = -97.047 03 = -96.853

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29090.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29090.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29091

Q 275

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Q 275

NGS Name: Q 275

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0492](#) [Get Map](#)
NGS Quad / Sta Num : 47092321/
USGS Quad: KELSEY

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	7	54 N	17 W	471005.73	923325.79	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=? Vert=YES	YES		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) Stamping: Q 275 1948

3.0 MILES NORTHEAST OF KELSEY, 2.0 MILES EAST ON COUNTY ROAD 52 FROM THE JUNCTION OF A RAILROAD AND COUNTY ROAD 52, 40.0 FEET NORTH OF COUNTY ROAD 52, 21.0 FEET EAST OF A GRASSY CROSSROAD, 15.0 FEET NORTH-NORTHEAST OF THE EAST END OF A METAL CULVERT, 1.5 FEET NORTH OF A FENCE, 2.0 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1312. 891	0. 016	400. 170	0. 005	2/0	1991	00000025
NGVD29	1312. 258	0. 016	399. 977	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.519 12B = -97.526 09 = -97.411 03 = -97.224

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29091.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29091.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29093

Q 279

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Q 279

NGS Name: Q 279

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1333](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	21	54 N	21 W	470854.38	930015.94	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	NOT FOUND	Horz=NO Vert=NO	YES		PROJECTS 6 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** Q 279 1948

4.75 MILES NORTH OF A SCHOOL IN CEDAR VALLEY, 0.15 MILE SOUTH OF THE SOUTH END OF A MEADOW AND A CULVERT UNDER COUNTY ROAD 184 (OLD TRUNK HIGHWAY 73), 36.0 FEET WEST OF COUNTY ROAD 184, 195.0 FEET SOUTH OF A WINDING ROAD SIGN, 180.0 FEET NORTH OF THE NORTH END OF A CURVE, 2.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1302. 750	0. 016	397. 079	0. 005	2/0	1991	00000025
NGVD29	1301. 999	0. 016	396. 850	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.968 12B = -96.965 09 = -96.913 03 = -96.752

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/Q_279-SJ1333-3N-12JUL2017.jpg	N	Jul 12, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29093.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29093.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29094

Q 28

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Q 28

NGS Name: Q 28

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0617](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	23	52 N	18 W	465822.02	923432.73	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1948	GOOD	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (2019)

Stamping: Q 28 1934

IN ALBORN, 164.0 FEET SOUTH OF THE SOUTHWEST CORNER OF A RAILROAD STATION, 15.8 FEET EAST OF THE EAST RAIL OF THE EAST RAILROAD TRACK, 16.0 FEET NORTHEAST OF A WATER CRANE, IN LINE WITH THE NORTH EDGE OF A WATER TANK, 2.0 FEET SOUTH OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1304. 850	0. 016	397. 719	0. 005	2/0	1991	00000025
NGVD29	1304. 322	0. 016	397. 558	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.738 12B = -95.731 09 = -95.607 03 = -95.436

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29094.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29094.pdf



Geodetic Data Sheet (Brief)
GSID Station # 54120

Q 30

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Q 30

NGS Name: Q 30

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	27	51 N	20 W	465206.00	925108.00	2	

NGS ACRN: [RN1211](#)

[Get Map](#)

NGS Quad / Sta Num : 46092442/

USGS Quad: GOWAN

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2017	UNKNOWN	Horz=NO Vert=NO	YES			SEE DESCRIPTION

Monument Type

BLANK

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1934)

Stamping:

0.36 MILE NORTHWEST OF GOWAN, 0.27 MILE NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 83 NORTHWEST OF GOWAN.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1246.858	0.016	380.043	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -94.839 12B = -94.823 09 = -94.737 03 = -94.623

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_54120.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_54120.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29115

QUIST MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: QUIST MNDT

NGS Name: QUIST

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9562](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	8	51 N	20 W	465457.00	925421.02	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1993	2017	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: QUIST 1993

0.55 MILE SOUTHEAST OF FLOODWOOD, 0.45 MILE SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 EAST OF FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 221.50, 45.5 FEET SOUTHWEST OF TRUNK HIGHWAY 2, 12.0 FEET SOUTHEAST OF AN ENTRANCE, 60.0 FEET NORTHEAST OF A RIGHT-OF-WAY POST, 6.9 FEET NORTHWEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1266.818	0.016	386.127	0.005	2/1	2004	00000464

Geoid Separations(ft): GEOID18 = -95.256 12B = -95.239 09 = -95.164 03 = -95.049

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 54 57.00464	92 54 21.01894	386071.371	197292.421	117674.789	60134.850	357.098		2012	GPS2800
NAD83 (2007)	46 54 57.00473	92 54 21.01980	386071.312	197292.431	117674.771	60134.853	357.126		2007	GPS2300
NAD83 (1996)	46 54 57.00461	92 54 21.01912	386071.358	197292.418	117674.785	60134.849	357.139	C	2004	GPS1957

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/QUIST-DE9562-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29115.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29115.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: QUIST MNDT RESET

NGS Name: QUIST RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9917](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	8	51 N	20 W	465457.00	925421.02	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2020	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017)

Stamping: QUIST 1993 2017

0.55 MILE SOUTHEAST OF FLOODWOOD, 0.45 MILE SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 EAST OF FLOODWOOD (THE JUNCTION IS 0.5 MILE SOUTHEAST OF FLOODWOOD), AT TRUNK HIGHWAY 2 MILEPOINT 221.50, 45.5 FEET SOUTHWEST OF TRUNK HIGHWAY 2, 12.0 FEET SOUTHEAST OF AN ENTRANCE, 6.9 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1266.704 0.016	386.092 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.256 12B = -95.239 09 = -95.164 03 = -95.049

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u> <u>Latitude</u> <u>Longitude</u>	<u>County (Feet)</u> <u>X</u> <u>Y</u>	<u>County (Meters)</u> <u>X</u> <u>Y</u>	<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAD83 (2011)	46 54 57.00370 92 54 21.01954	386071.329 197292.326	117674.776 60134.821	357.085	3	2020 GPSBM

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/QUIST_RESET-DQ9917-3SW-06JUL2020.jpg	SW	Jul 6, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/QUIST_RESET-DQ9917-2-06JUL2020.jpg		Jul 6, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/QUIST_RESET-DQ9917-1-06JUL2020.jpg		Jul 6, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107897.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107897.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: R 163

NGS Name: R 163

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0172](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	11	53 N	17 W	470503.00	922818.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1966	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1966) **Stamping:** R 163 1935

3.1 MILES NORTH OF CANYON, 3.1 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND TRUNK HIGHWAY 152 IN CANYON.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	Orthometric (Feet)		Orthometric (Meters)		Survey <u>Order/(Class)</u>	Project Info	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1354.026	0.016	412.708	0.005	2/0	1991	00000025
NGVD29	1353.475	0.007	412.540	0.002	1	1935	L63 MINN

Geoid Separations(ft): GEOID18 = -96.601 12B = -96.614 09 = -96.466 03 = -96.276

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29121.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29121.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29122

R 163 RESET 1966

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: R 163 RESET 1966

NGS Name: R 163 RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0173](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	11	53 N	17 W	470502.93	922816.29	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1966	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2007)

Stamping: R 163 RESET 1966

3.0 MILES NORTH OF CANYON, 3.1 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 33.10, 75.3 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53, 1.7 FEET NORTH OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1355.234	0.016	413.076	0.005	2/1	2021	00000963
NGVD29	1354.233	0.007	412.771	0.002	1	1966	L63 MINN

Geoid Separations(ft): GEOID18 = -96.601 12B = -96.611 09 = -96.466 03 = -96.273

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/R_163_RESET-SJ0173-3E-18SEP2017.jpg	E	Sep 18, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/R_163_RESET-SJ0173-2-18SEP2017.jpg		Sep 18, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/R_163_RESET-SJ0173-1-18SEP2017.jpg		Sep 18, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29122.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29122.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29142

R 271

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: R 271

NGS Name: R 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0700](#) [Get Map](#)
 NGS Quad / Sta Num : 46092414/
 USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	34	52 N	19 W	465716.00	924434.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2021	NOT FOUND	Horz=NO Vert=NO	NO		PROJECTS 3 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948)

Stamping: R 271 1948

9.6 MILES SOUTHWEST OF ALBORN, AT THE JUNCTION OF COUNTY ROAD 133 AND COUNTY ROAD 5, 30.0 FEET SOUTH OF COUNTY ROAD 166, 103.0 FEET EAST OF COUNTY ROAD 5, 70.0 FEET EAST OF A FENCE CORNER, 1.0 FOOT NORTH OF A FENCE, 2.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1299.030	0.016	395.945	0.005	2/0	1991	00000025
NGVD29	1298.439	0.016	395.765	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.643 12B = -95.623 09 = -95.541 03 = -95.397

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29142.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29142.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29143

R 272

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: R 272

NGS Name: R 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0505](#) [Get Map](#)
NGS Quad / Sta Num : 47092322/
USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	16	53 N	18 W	470409.00	923709.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=? Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948)

Stamping: R 272 1948

1.75 MILES SOUTH ON COUNTY ROAD 7 FROM THE RAILROAD STATION AT PAYNE THEN 0.9 MILE WEST ON COUNTY ROAD 133, 0.6 MILE WEST OF A RAILROAD CROSSING OF COUNTY ROAD 133, AT A SLIGHT CURVE IN COUNTY ROAD 133 AND A TRAIL NORTH, 78.0 FEET NORTH OF COUNTY ROAD 133, 18.0 FEET WEST OF A TRAIL, 2.0 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1293.262	0.016	394.187	0.005	2/0	1991	00000025
NGVD29	1292.675	0.016	394.008	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.712 12B = -96.706 09 = -96.598 03 = -96.414

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29143.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29143.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29144

R 273

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: R 273

NGS Name: R 273

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0527](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	23	53 N	21 W	470344.00	925823.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	NOT FOUND	Horz=NO Vert=NO	YES		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2019)

Stamping: R 273 1948

10.9 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE HIGH SCHOOL IN FLOODWOOD, 0.8 MILE SOUTHEAST OF A 9.0 FEET BRIDGE, AT THE JUNCTION OF TRUNK HIGHWAY 73 AND COUNTY ROAD 508, 25.0 FEET SOUTHWEST OF TRUNK HIGHWAY 73, 222.0 FEET SOUTHEAST OF COUNTY ROAD 508, 128.0 FEET NORTHWEST OF A POWER POLE, 1.5 FEET NORTHEAST OF A FENCE, 2.0 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1246. 822	0. 016	380. 032	0. 005	2/0	1991	00000025
NGVD29	1246. 129	0. 016	379. 821	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.529 12B = -96.519 09 = -96.476 03 = -96.292

*** No Horizontal Positions in the Database ***

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/R_273-SJ0527-3W-13JUL2017.jpg	W	Jul 13, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29144.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29144.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29145

R 274

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: R 274

NGS Name: R 274

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	29	54 N	19 W	470752.00	924725.00	2	

NGS ACRN: [SJ0391](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

[Get Map](#)

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: R 274 1948

2.7 MILES SOUTH ON COUNTY ROAD 5 FROM THE HIGH SCHOOL AT TOIVOLA, 1.3 MILES NORTH OF A RAILROAD CROSSING, AT THE JUNCTION OF COUNTY ROAD 5 AND A DIM ROAD EAST, 64.0 FEET EAST OF COUNTY ROAD 5, 20.0 FEET NORTH OF A ROAD EAST, 50.0 FEET NORTHEAST OF A POWER POLE, 2.0 FEET NORTHEAST OF A WITNESS POST.

Station Notes

FOUND THE MARK OUT OF THE GROUND, REMOVED THE DISK, AND RETURNED TO THE GEODETIC OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	Orthometric (Feet)		Orthometric (Meters)		Survey <u>Order/(Class)</u>	Project Info	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1286.782	0.016	392.212	0.005	2/0	1991	00000025
NGVD29	1286.133	0.007	392.014	0.002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -97.264 12B = -97.257 09 = -97.188 03 = -96.995

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29145.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29145.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29146

R 275

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: R 275

NGS Name: R 275

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0346](#) [Get Map](#)
NGS Quad / Sta Num : 47092321/
USGS Quad: KELSEY

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	27	54 N	18 W	470821.00	923603.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (2018)

Stamping: R 275 1948

1.0 MILE SOUTH ON A RAILROAD FROM THE RAILROAD STATION AT KELSEY, 669.0 FEET NORTH OF RAILROAD MILEPOST 44, AT A FARM ROAD CROSSING, 70.5 FEET WEST OF THE WEST RAIL OF THE WEST RAILROAD TRACK, 27.0 FEET SOUTH OF A FARM ROAD, 1.5 FEET EAST OF A RAILROAD RIGHT-OF-WAY FENCE, 17.5 FEET SOUTH OF THE SOUTH GATE POST, 40.8 FEET SOUTHWEST OF A RAILROAD CROSSING SIGN, 2.0 FEET SOUTH OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1302.189	0.016	396.908	0.005	2/0	1991	00000025
NGVD29	1301.589	0.007	396.725	0.002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -97.339 12B = -97.339 09 = -97.234 03 = -97.040

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29146.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29146.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29148

R 279

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: R 279

NGS Name: R 279

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1332](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	16	54 N	21 W	470935.65	930042.87	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	NOT FOUND	Horz=NO Vert=NO	YES		PROJECTS 5 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** R 279 1948

5.7 MILES NORTH OF A SCHOOL IN CEDAR VALLEY, AT THE TOP OF A GRADE, 32.0 FEET NORTHEAST OF COUNTY ROAD 184 (OLD TRUNK HIGHWAY 73), 29.5 FEET NORTHWEST OF A TELEPHONE POLE, 7.5 FEET NORTHEAST OF A POLE LINE, 2.5 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1313.465	0.016	400.345	0.005	2/0	1991	00000025
NGVD29	1312.714	0.016	400.116	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.995 12B = -96.995 09 = -96.939 03 = -96.781

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/R_279-SJ1332-3W-12JUL2017.jpg	W	Jul 12, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29148.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29148.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29149

R 28

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: R 28

NGS Name: R 28

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0338](#)

[Get Map](#)

NGS Quad / Sta Num : 47092322/

USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	11	52 N	18 W	470024.74	923500.26	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1935	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1934)

Stamping: R 28 1934

2.5 MILES NORTH ON A RAILROAD FROM ALBORN, 2.0 MILES SOUTH OF BIRCH, 7 RAILS NORTH OF HARPERS CROSSING, 107.5 FEET SOUTH OF RAILROAD MILEPOST 35, 50.0 FEET EAST OF THE EAST TRACK OF A RAILROAD, ON THE OUTSIDE EDGE OF A CURVE.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	Orthometric (Feet)		Orthometric (Meters)		Survey <u>Order/(Class)</u>	Project Info	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1333.213	0.016	406.364	0.005	2/0	1991	00000025
NGVD29	1332.658	0.016	406.195	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.063 12B = -96.060 09 = -95.935 03 = -95.761

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29149.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29149.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29161

R 30

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: R 30

NGS Name: R 30

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0663](#) [Get Map](#)
NGS Quad / Sta Num : 46092441/
USGS Quad: MCCARTY RIVER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	21	51 N	20 W	465320.00	925231.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2001	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 10 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (2001)

Stamping: R 30 1934

2.2 MILES NORTHWEST OF GOWAN, 2.2 MILES NORTHWEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86, AT TRUNK HIGHWAY 2 MILEPOINT 223.8, 101.6 FEET NORTHEAST OF TRUNK HIGHWAY 2, 46.7 FEET SOUTHWEST OF THE SOUTHWEST RAIL OF THE RAILROAD TRACKS, 35.0 FEET NORTHWEST OF A DIRT ROAD, 1.0 FOOT SOUTHWEST OF A WITNESS POST.

Station Notes

THE GEODETIC UNIT REPORTED THE MONUMENT WAS OUT OF THE GROUND AND THE DISK WAS GONE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1252.881	0.016	381.879	0.005	2/0	1991	00000025
NGVD29	1252.297	0.016	381.701	0.005	2	1974	L23566
Geoid Separations(ft): GEOID18 = -95.023 12B = -95.006 09 = -94.924 03 = -94.813							
* No Horizontal Positions in the Database *							

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29161.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29161.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107840

RACHEL

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RACHEL

NGS Name: RACHEL

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5135](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	15	53 N	21 W	470412.35	925847.49	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 50 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** RACHEL 2017

10.45 MILES NORTH-NORTHWEST OF FLOODWOOD, 11.45 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 54.7, 26.6 FEET WEST-SOUTHWEST OF TRUNK HIGHWAY 73, 22.2 FEET NORTH-NORTHWEST OF COUNTY ROAD 133 EXTENDED, 1.5 FEET EAST-NORTHEAST OF A WITNESS POST.

Station Pair: KRISTEN - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1249. 627 0. 016	380. 887 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.578 12B = -96.568 09 = -96.522 03 = -96.342

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/RACHEL-DR5135-3SW-02AUG2017.jpg	SW	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/RACHEL-DR5135-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/RACHEL-DR5135-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107840.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107840.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107841

RAECHELLE

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RAECELLE

NGS Name: RAECELLE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9919](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	7	51 N	20 W	465525.58	925452.91	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 43 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: RAECELLE 2017

IN FLOODWOOD, AT THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 220.75, 63.6 FEET NORTHEAST OF TRUNK HIGHWAY 2, 59.3 FEET EAST SOUTHEAST OF TRUNK HIGHWAY 73, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Station Pair: EMILY - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1258. 410 0. 016	383. 564 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.328 12B = -95.308 09 = -95.233 03 = -95.118

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/RAECHELLE-DQ9919-3NE-01AUG2017.jpg	NE	Aug 1, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/RAECHELLE-DQ9919-2-01AUG2017.jpg		Aug 1, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/RAECHELLE-DQ9919-1-01AUG2017.jpg		Aug 1, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107841.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107841.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107997

RANTA

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RANTA

NGS Name: RANTA

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9911](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	27	51 N	20 W	465201.14	925103.96	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: RANTA 2017

4.9 MILES SOUTHEAST OF FLOODWOOD, 4.65 MILES SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 225.75, 55.4 FEET SOUTHWEST OF TRUNK HIGHWAY 2, 48.8 FEET NORTHWEST OF MIRBAT ROAD, 1.5 FEET NORTHEAST OF A WITNESS POST.

Station Pair: SHEA - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1256.674	0.016	383.035	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -94.826 12B = -94.810 09 = -94.724 03 = -94.609

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/RANTA-DQ9911-3SW-15AUG2017.jpg	SW	Aug 15, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/RANTA-DQ9911-2-15AUG2017.jpg		Aug 15, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/RANTA-DQ9911-1-15AUG2017.jpg		Aug 15, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107997.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107997.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: REBAR 15

NGS Name: REBAR 15

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1687](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	52 N	21 W	465732.29	925747.63		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	1967	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	UNMONUMENTED	USGS

Description:

Stamping:

THE REINFORCING BAR IS LOCATED IN ST. LOUIS COUNTY, 2.79 MILES NORTHWEST OF FLOODWOOD ALONG ST. VINCENT ROAD AND THE BURLINGTON NORTHERN RAILROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.623 12B = -95.607 09 = -95.538 03 = -95.410

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 57 32.29121	92 57 47.63487	371830.144	213114.309	113334.055	64957.371	353.704	2	1999	17648
NAD83 (1986)	46 57 32.28489	92 57 47.63457	371830.161	213113.669	113334.060	64957.176		2	1986	17289
NAD27	46 57 32.49409	92 57 46.89787						2	1982	17020

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65458.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65458.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: REBAR 16

NGS Name: REBAR 16

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1688](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	36	52 N	21 W	465648.62	925634.99		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	1967	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	UNMONUMENTED	USGS

Description:

Stamping:

THE REINFORCING BAR IS LOCATED IN ST. LOUIS COUNTY, 1.52 MILES NORTHWEST OF FLOODWOOD ALONG ST. VINCENT ROAD AND THE BURLINGTON NORTHERN RAILROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.525 12B = -95.505 09 = -95.433 03 = -95.315

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 56 48.62306	92 56 34.98714	376841.800	208657.603	114861.611	63598.965	353.533	2	1999	17648
NAD83 (1986)	46 56 48.61659	92 56 34.98825	376841.719	208656.948	114861.586	63598.765		2	1986	17289
NAD27	46 56 48.82405	92 56 34.25700						2	1982	17020

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65459.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65459.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29182

RIESS MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RIESS MNDT

NGS Name: RIESS

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF6503](#) [Get Map](#)
NGS Quad / Sta Num : 47092234/
USGS Quad: COTTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	34	55 N	17 W	471244.47	922915.71	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2017	DESTROYED	Horz=NO Vert=NO	NO		RECESSED 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (1992) **Stamping:** RIESS 1992

3.0 MILES NORTH ON TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, AT TRUNK HIGHWAY 53 MILEPOINT 42.05, 67.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53, 11.0 FEET SOUTH OF A DRIVEWAY, 43.5 FEET SOUTHEAST OF A ONE-WAY SIGN, 12.9 FEET NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1332.182 0.016	406.050 0.005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -97.713 12B = -97.713 09 = -97.634 03 = -97.441

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 12 44.46918	92 29 15.71253	490630.041	305121.186	149544.336	93001.124	376.289		2012	GPS2800
NAD83 (2007)	47 12 44.46938	92 29 15.71343	490629.979	305121.206	149544.317	93001.130	376.303		2007	GPS2300
NAD83 (1996)	47 12 44.46947	92 29 15.71334	490629.985	305121.215	149544.319	93001.132	376.298	C	2003	GPS1848
NAD83 (1986)	47 12 44.46907	92 29 15.71560	490629.829	305121.175	149544.271	93001.120		C	1993	H1993

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29182.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29182.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29189

RM USGS

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RM USGS

NGS Name: GAGING STATION RM

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0138](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	52 N	17 W	465717.00	922744.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2017	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

UNKNOWN

Disk Type

SURVEY DISK

Mon. Agency

USGS

Description: (1978)

Stamping:

5.8 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON, 0.25 MILE SOUTHWEST OF A TRUNK HIGHWAY 53 BRIDGE OVER THE CLOQUET RIVER IN INDEPENDENCE, NEAR THE OLD BRIDGE OVER THE CLOQUET RIVER, 65.0 FEET NORTHWEST OF A GRAVEL ROAD (OLD TRUNK HIGHWAY 33), 53.0 FEET WEST OF A POWER POLE.

Station Notes

THE YEAR SET DATE IS APPROXIMATE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1293.436	0.016	394.240	0.005	2/0	1991	00000025
NGVD29	1292.976	0.016	394.100	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.351 12B = -95.344 09 = -95.216 03 = -95.023

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29189.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29189.pdf



Geodetic Data Sheet (Brief)
GSID Station # 42631

RUD MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RUD MNDT

NGS Name: RUD

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DG4250](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	52 N	21 W	465716.18	925758.08	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2017	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (2003)

Stamping: RUD 2001

3.5 MILES NORTHWEST OF FLOODWOOD, 3.55 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 217.50, 63.0 FEET SOUTHWEST OF TRUNK HIGHWAY 2, 50.0 FEET NORTH OF COUNTY ROAD 835, 31.0 FEET NORTH-NORTHWEST OF A POWER POLE, 43.6 FEET NORTHEAST OF A FIBER OPTIC MARKER, 7.0 FEET SOUTHWEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1264.325	0.016	385.367	0.005	2/1	2011	00000675

Geoid Separations(ft): GEOID18 = -95.577 12B = -95.561 09 = -95.492 03 = -95.367

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 57 16.18359	92 57 58.07757	371095.003	211487.078	113109.983	64461.390	356.235		2012	GPS2800
NAD83 (2007)	46 57 16.18370	92 57 58.07844	371094.943	211487.090	113109.965	64461.394	356.264		2007	GPS2300
NAD83 (1996)	46 57 16.18347	92 57 58.07805	371094.970	211487.066	113109.973	64461.387	356.288	C	2004	GPS1957

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/RUD-DG4250-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_42631.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_42631.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RUD MNDT RESET

NGS Name: RUD RESET

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	52 N	21 W	465716.18	925758.08	2	3

NGS ACRN: [DQ9925](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: RUD 2001 2017

3.5 MILES NORTHWEST OF FLOODWOOD, 3.55 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 217.50, 63.0 FEET SOUTHWEST OF TRUNK HIGHWAY 2, 50.0 FEET NORTH OF COUNTY ROAD 835, 43.6 FEET NORTHEAST OF A FIBER OPTIC MARKER, 31.0 FEET NORTH-NORTHWEST OF A POWER POLE, 1.0 FOOT SOUTHWEST OF A WITNESS POST.

Station Pair: SKID MNDT RESET - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1264.207	0.016	385.331	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -95.577 12B = -95.561 09 = -95.492 03 = -95.367

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/RUD_RESET-DQ9925-3SW-24JUL2017.jpg	SW	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/RUD_RESET-DQ9925-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/RUD_RESET-DQ9925-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107895.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107895.pdf



Geodetic Data Sheet (Brief)
GSID Station # 51503

S 163

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: S 163

NGS Name: S 163

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	53 N	17 W	470407.00	922818.00	2	

NGS ACRN: [SJ0174](#)

[Get Map](#)

NGS Quad / Sta Num : 47092233/

USGS Quad: CANYON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2017	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1935)

Stamping: S 163 1935

2.0 MILES NORTH OF CANYON, 2.0 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM CANYON, ACROSS THE HIGHWAY FROM A FILLING STATION, 48.0 FEET EAST OF TRUNK HIGHWAY 53, 27.0 FEET SOUTH OF A GRAVEL CROSSROAD.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1347.537	0.016	410.730	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -96.453 12B = -96.466 09 = -96.319 03 = -96.125

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_51503.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_51503.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: S 163 RESET

NGS Name: S 163 RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0175](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	53 N	17 W	470407.00	922818.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1941	1966	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: **Stamping:** S 163 RESET 1941

21.1 MILES NORTHWEST OF HERMANTOWN, 20.5 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAYS 53 (MILLER TRUNK HIGHWAY) AND 194 IN HERMANTOWN.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1347.222	0.016	410.634	0.005	2/1	2012	00000702

Geoid Separations(ft): GEOID18 = -96.453 12B = -96.466 09 = -96.319 03 = -96.125

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_79049.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_79049.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: S 163 RESET 1966

NGS Name: S 163 RESET 1966

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0176](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	53 N	17 W	470407.06	922815.43	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1966	2005	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1999) **Stamping:** S 163 RESET 1966

2.0 MILES NORTH ON TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON, AT THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 133 WEST/COUNTY ROAD 976 EAST, 93.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53, AT TRUNK HIGHWAY 53 MILEPOINT 32, 21.0 FEET SOUTH OF COUNTY ROAD 976 (BERKLUND ROAD), 1.7 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1347.209	0.016	410.630	0.005	2/1	1992	VTWIG
NGVD29	1346.287	0.007	410.349	0.002	1	1966	L63 MINN

Geoid Separations(ft): GEOID18 = -96.453 12B = -96.463 09 = -96.315 03 = -96.125

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>				<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>		<u>Longitude</u>		<u>X</u>	<u>Y</u>			<u>X</u>	<u>Y</u>					<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47	04	07.05695	92 28 15.42985	494778.108	252693.509	150808.669	77021.136	381.226				2012		GPS2800	
NAD83 (2007)	47	04	07.05707	92 28 15.43074	494778.046	252693.521	150808.650	77021.139	381.254				2007		GPS2300	
NAD83 (1996)	47	04	07.05688	92 28 15.43049	494778.064	252693.502	150808.655	77021.133	381.276	C			2003		GPS1848	
NAD83 (1986)	47	04	07.05429	92 28 15.43089	494778.036	252693.238	150808.647	77021.053			C		1991		H1991	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29244.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: S 271

NGS Name: S 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0701](#) [Get Map](#)
NGS Quad / Sta Num : 46092414/
USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	52 N	19 W	465808.00	924438.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1985	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** S 271 1948

7.5 MILES SOUTH OF THE HIGH SCHOOL AT MEADOWLANDS, 7.0 MILES SOUTH ON COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 133 AND COUNTY ROAD 5, 147.0 FEET WEST OF COUNTY ROAD 5, 23.0 FEET SOUTH OF COUNTY ROAD 165 (GRAVEL), 110.0 FEET WEST OF THE SOUTH END OF A METAL CULVERT, 2.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1284. 315	0. 016	391. 460	0. 005	2/0	1991	00000025
NGVD29	1283. 721	0. 007	391. 279	0. 002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -95.784 12B = -95.771 09 = -95.686 03 = -95.535

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29265.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29265.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29266

S 272

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: S 272

NGS Name: S 272

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	14	53 N	18 W	470410.89	923555.34	2	

NGS ACRN: [SJ0341](#)

[Get Map](#)

NGS Quad / Sta Num : 47092322/

USGS Quad: PAYNE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=NO Vert=NO	NO	7781		SEE DESCRIPTION

Monument Type

CONCRETE FOOTING - LARGE

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: S 272 1948

IN THE NORTH END OF THE WEST ABUTMENT OF COUNTY ROAD 133 BRIDGE NUMBER 7781, 1.75 MILES SOUTH ON COUNTY ROAD 7 FROM THE RAILROAD STATION IN PAYNE, AT THE JUNCTION OF COUNTY ROAD 133 AND COUNTY ROAD 7, 13.0 FEET NORTH OF COUNTY ROAD 133, 34.0 FEET EAST OF COUNTY ROAD 7, 130.0 FEET EAST OF THE EAST RAIL OF THE EAST TRACK OF A RAILROAD.

Station Notes

THE BOX CULVERT HAS BEEN REPLACED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1304. 285	0. 016	397. 547	0. 005	2/0	1991	00000025
NGVD29	1303. 701	0. 016	397. 369	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.699 12B = -96.693 09 = -96.575 03 = -96.391

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29266.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29266.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29267

S 273

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: S 273

NGS Name: S 273

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	22	53 N	21 W	470408.00	925911.00	2	

NGS ACRN: [SJ0528](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	DESTROYED	Horz=NO Vert=NO	YES	6739		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - LARGE	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** S 273 1948

10.9 MILES NORTHWEST ON TRUNK HIGHWAY 73 FROM THE HIGH SCHOOL AT FLOODWOOD THEN 0.8 MILE NORTHWEST ON COUNTY ROAD 508, IN THE NORTH END OF THE WEST HEADWALL OF OLD TRUNK HIGHWAY 73 BRIDGE NUMBER 6739 (COUNTY ROAD 508) OVER VAARA CREEK, 11.0 FEET WEST OF COUNTY ROAD 508, 0.3 FOOT NORTH OF THE NORTH END OF A BRIDGE RAILING.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1248.590	0.016	380.571	0.005	2/0	1991	00000025
NGVD29	1247.888	0.007	380.357	0.002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -96.561 12B = -96.548 09 = -96.502 03 = -96.325

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/S_273-SJ0528-3E-13JUL2017.jpg	E	Jul 13, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29267.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29268

S 274

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: S 274

NGS Name: S 274

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	20	54 N	19 W	470847.00	924725.00	2	

NGS ACRN: [SJ0390](#)

[Get Map](#)

NGS Quad / Sta Num : 47092331/

USGS Quad: TOIVOLA

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=? Vert=YES	NO		PROJECTS 5 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: S 274 1948

1.65 MILES SOUTH ON COUNTY ROAD 5 FROM THE HIGH SCHOOL AT TOIVOLA, 0.2 MILE SOUTH OF A COUNTY ROAD 5 CURVE AND THE JUNCTION OF COUNTY ROAD 158 NORTH, 38.0 FEET EAST OF COUNTY ROAD 5, 14.0 FEET SOUTH OF A FARM ROAD EAST, 28.0 FEET SOUTH OF A POWER POLE, 6.5 FEET WEST OF A TELEPHONE POLE, 3.5 FEET EAST OF A FENCE, 2.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1284. 673	0. 016	391. 569	0. 005	2/0	1991	00000025
NGVD29	1284. 020	0. 016	391. 370	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.372 12B = -97.369 09 = -97.300 03 = -97.106

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29268.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29268.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29269

S 275

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: S 275

NGS Name: S 275

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0345](#)

[Get Map](#)

NGS Quad / Sta Num : 47092322/

USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	54 N	18 W	470729.14	923558.78	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=? Vert=YES	NO	CO RD		SEE DESCRIPTION

Monument Type

WALL

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: S 275 1948

2.0 MILES SOUTH ON A RAILROAD FROM THE RAILROAD STATION IN KELSEY, 0.1 MILE NORTH OF RAILROAD MILEPOST 43, IN THE NORTH END OF THE WEST HEADWALL OF A COUNTY ROAD 7 CULVERT, 21.0 FEET WEST OF COUNTY ROAD 7, 86.0 FEET EAST OF THE EAST RAIL OF THE EAST RAILROAD TRACK.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1301. 103	0. 016	396. 577	0. 005	2/0	1991	00000025
NGVD29	1300. 509	0. 007	396. 396	0. 002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -97.218 12B = -97.214 09 = -97.106 03 = -96.916

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29269.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29269.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29272

S 279

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: S 279

NGS Name: S 279

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1331](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	8	54 N	21 W	471008.70	930149.72	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2019) **Stamping:** S 279 1948

7.9 MILES SOUTH OF HIBBING, 9.8 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND COUNTY ROAD 16 IN HIBBING, THEN 1.5 MILES NORTHWEST ON COUNTY ROAD 184 (FLOODWOOD RIVER ROAD), 33.0 FEET NORTHEAST OF COUNTY ROAD 184 (OLD TRUNK HIGHWAY 73), 176.0 FEET WEST OF THE WEST CORNER OF A HOUSE, 74.0 FEET NORTHWEST OF A FARM DRIVEWAY.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1312. 510	0. 016	400. 054	0. 005	2/0	1991	00000025
NGVD29	1311. 753	0. 016	399. 823	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.981 12B = -96.981 09 = -96.919 03 = -96.775

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/S_279-SJ1331-3N-12JUL2017.jpg	N	Jul 12, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/S_279-SJ1331-2-12JUL2017.jpg		Jul 12, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/S_279-SJ1331-1-12JUL2017.jpg		Jul 12, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29272.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29272.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29273

S 28

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: S 28

NGS Name: S 28

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	35	53 N	18 W	470202.34	923531.09	2	

NGS ACRN: [SJ0339](#)

[Get Map](#)

NGS Quad / Sta Num : 47092322/

USGS Quad: PAYNE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1991)

Stamping: S 28 1934

4.5 MILES NORTH ON A RAILROAD FROM ALBORN, 7 RAILS NORTH OF THE STATION SIGN AT BIRCH, 70.0 FEET NORTHWEST OF A HOUSE, 40.0 FEET EAST OF A RAILROAD.

Station Notes

THE ROAD IS INACCESSIBLE 07/27/21.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1323. 872	0. 016	403. 517	0. 005	2/0	1991	00000025
NGVD29	1323. 304	0. 016	403. 344	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.335 12B = -96.332 09 = -96.204 03 = -96.030

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29273.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29273.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: S 280

NGS Name: S 280

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1450](#) [Get Map](#)
NGS Quad / Sta Num : 47093212/
USGS Quad: SILICA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	5	55 N	21 W	471659.00	930129.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1957	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1957) **Stamping:** S 280 1948

26.5 MILES NORTH OF FLOODWOOD, 26.5 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND HIGHWAY 8 IN FLOODWOOD, THEN 125.0 FEET WEST ALONG SOUTH TOWN LINE ROAD.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1357.435	0.016	413.747	0.005	2/0	1991	00000025
NGVD29	1356.667	0.007	413.513	0.002	1	1948	L28 MINN

Geoid Separations(ft): GEOID18 = -97.336 12B = -97.359 09 = -97.244 03 = -97.175

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29274.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29274.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29275

S 280 RESET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: S 280 RESET

NGS Name: S 280 RESET

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	5	55 N	21 W	471659.00	930129.00		

NGS ACRN: SJ1451	Get Map
NGS Quad / Sta Num : 47093212/	
USGS Quad: SILICA	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1957	2017	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 5 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1957) **Stamping:** S 280 RESET 1957

1.1 MILES NORTH ON TRUNK HIGHWAY 73 FROM A RAILROAD CROSSING AT SILICA, AT A CROSSROAD, 129.0 FEET WEST OF TRUNK HIGHWAY 73, 35.0 FEET SOUTH OF COUNTY ROAD 442, 1.0 FOOT SOUTH OF A FENCE.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE. FOUND THAT THE STATION, THE CONCRETE WAS BROKEN UP AND THE DISK WAS LYING TO THE SIDE OF THE BROKEN CONCRETE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	1355.142	0.007	413.048	0.002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -97.336 12B = -97.359 09 = -97.247 03 = -97.178

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/S_280_RESET-SJ1451-1-11JUL2017.jpg		Jul 11, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29275.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29275.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: S 30

NGS Name: S 30

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0657](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	8	51 N	20 W	465439.00	925357.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1963	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1963) **Stamping:** S 30 1934

1.3 MILES EAST FROM FLOODWOOD, ON THE GREAT NORTHERN RAILROAD, 2 RAILS WEST OF A ROAD CROSSING AT TELEPHONE POLE NUMBER 1733 WHICH IS ON THE NORTH SIDE OF TRACKS, 30.0 FEET SOUTH OF THE TRACKS, 49.5 FEET WEST OF MILEPOST 74.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1268.429	0.016	386.618	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -95.216 12B = -95.197 09 = -95.118 03 = -95.006

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29286.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29286.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29293

SAG MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SAG MNDT

NGS Name: SAG

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0049](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/1173
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	3	50 N	17 W	465041.80	922812.78	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2008	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 2 IN.	STEEL SPIKE IMBED IN MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

TRAVERSE STATION DISK

Mon. Agency

MNDT

Description: (2019)

Stamping: SAG 1974 1981

1.5 MILES SOUTHWEST OF SAGINAW, 0.6 MILE WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33, AT TRUNK HIGHWAY 2 MILEPOINT 244.25, 66.5 FEET SOUTH OF TRUNK HIGHWAY 2, 55.0 FEET EAST OF AN ENTRANCE, 92.5 FEET EAST-NORTHEAST OF A POWER POLE, 28.4 FEET NORTH OF A WITNESS POST, 76.73 FEET EAST OF SAG MNDT RM 1, 27.93 FEET NORTH OF STATION 6907 AB, IN 1995 THE GEODETIC UNIT COULD NOT FIND THE STATION AND SAG MNDT RM 1 TRUNK HIGHWAY 2 HAS BEEN REBUILT INTO A 4 LANE ROADWAY.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1329.827	0.016	405.332	0.005	2/0	1991	00000025
NGVD29	1329.558	0.016	405.250	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.340 12B = -94.327 09 = -94.235 03 = -94.048

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>				<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>		<u>Longitude</u>		<u>X</u>	<u>Y</u>			<u>X</u>	<u>Y</u>					<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46	50	41.80493	92 28 12.78086	494940.453	171105.359			150858.152	52153.018			376.637	2	1999	17648
NAD83 (1986)	46	50	41.79901	92 28 12.78349	494940.270	171104.759			150858.096	52152.835					1991	H1991
NAD27	46	50	42.00748	92 28 12.08303										2	1977	15924

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29293.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SAG MNDT RESET

NGS Name: SAG RESET

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	2	50 N	17 W	465041.80	922812.78		2

NGS ACRN:	RN1808	Get Map
NGS Quad / Sta Num :	46092143/	
USGS Quad:	SAGINAW	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2017	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	STEEL SPIKE IMBED IN MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (2019)

Stamping: SAG 1974 1981

5.05 MILES EAST ALONG TRUNK HIGHWAY 2 FROM THE EAST END OF BRIDGE NUMBER 5190 (TRUNK HIGHWAY 2 OVER THE BURLINGTON NORTHERN RAILROAD AND THE ST. LOUIS RIVER), AND 0.6 MILE WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33, ABOUT 1.0 MILE SOUTHWEST OF SAGINAW, ON THE SOUTH RIGHT-OF-WAY OF TRUNK HIGHWAY 2, AT MILEPOINT 244.25, 66.5 FEET SOUTH OF TRUNK HIGHWAY 2, 55.0 FEET EAST OF AN ENTRANCE, 92.5 FEET EAST-NORTHEAST OF A POWER POLE, 28.4 FEET NORTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.340 12B = -94.324 09 = -94.235 03 = -94.340

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 50 41.80493	92 28 12.78086	494940.453	171105.359	150858.152	52153.018				2	1999	17648
NAD83 (1986)	46 50 41.79901	92 28 12.78349	494940.270	171104.759	150858.096	52152.835				2	1986	17289

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SAG_RESET-RN1808-3E-26JUL2017.jpg	E	Jul 26, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_42881.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_42881.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29294

SAG MNDT RM 1

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SAG MNDT RM 1

NGS Name: SAG RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1051](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
NE	3	50 N	17 W	465041.76	922813.88	2	2	1978	2008	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2019)

Stamping: SAG 1974 NO 1 1978

1.6 MILES SOUTHWEST OF SAGINAW, 0.6 MILE WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33, AT TRUNK HIGHWAY 2 MILEPOINT 244.25, 72.5 FEET SOUTH OF TRUNK HIGHWAY 2, 23.0 FEET WEST OF A FIELD ENTRANCE, 31.5 FEET NORTH-NORTHEAST OF A CORNER POWER POLE, 27.0 FEET WEST OF COUNTY ROAD 874 EXTENDED, 30.3 FEET NORTH-NORTHEAST OF CABLE POST NUMBER 263, 71.3 FEET NORTHWEST OF A 10.0 INCH DIAMETER PINE TREE, 78.7 FEET WEST-NORTHWEST OF A WITNESS POST, 76.51 FEET EAST OF STATION SAG MNDT, IN 1995 THE GEODETIC UNIT COULD NOT FIND THE STATION-TRUNK HIGHWAY 2 HAS BEEN REBUILT INTO A 4 LANE ROADWAY.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1327.980	0.016	404.769	0.005	2/2	1991	00000025
NGVD29	1327.711	0.016	404.687	0.005	2	1979	L23566

Geoid Separations(ft): GEOID18 = -94.340 12B = -94.327 09 = -94.235 03 = -94.048

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u> <u>Latitude</u>	<u>Longitude</u>	<u>County (Feet)</u> <u>X</u>	<u>Y</u>	<u>County (Meters)</u> <u>X</u>	<u>Y</u>	<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 50 41.76416	92 28 13.88334	494863.810	171101.248	150834.791	52151.765	376.074	2	1999	17648
NAD83 (1986)	46 50 41.75825	92 28 13.88592	494863.631	171100.649	150834.736	52151.582		2	1986	17289
NAD27	46 50 41.96672	92 28 13.18516						2	1980	16254

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29294.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29294.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29295

SAGINAW

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SAGINAW

NGS Name: SAGINAW

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0375](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/1021
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
NE	2	50 N	17 W	465042.72	922726.61	2	2	1952	2008	DESTROYED	Horz=NO Vert=NO	NO			STEEL SPIKE IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

Description: (2019) **Stamping:** SAGINAW 1952

9.5 MILES NORTH OF CLOQUET, IN THE NORTHEAST QUADRANT OF THE JUNCTION OF THE TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33, 121.0 FEET NORTH OF TRUNK HIGHWAY 2, 82.4 FEET EAST OF TRUNK HIGHWAY 33, 60.6 FEET NORTH OF A TELEPHONE CABLE RISER 7, 2.3 FEET NORTHWEST OF A WITNESS POST, AT TRUNK HIGHWAY 2 MILEPOINT 244.9, 88.34 FEET NORTHWEST OF SAGINAW RM 1, 85.36 FEET SOUTHEAST OF SAGINAW RM 2, IN 1995 THE GEODETIC UNIT COULD NOT FIND THE STATION AND SAGINAW RM 1 AND SAGINAW RM 2, TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 HAVE BEEN REBUILT INTO A 4 LANE ROADWAY.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1332.842	0.016	406.251	0.005	2/0	1991	00000025
NGVD29	1332.586	0.016	406.173	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -94.311 12B = -94.294 09 = -94.203 03 = -94.016

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u> <u>Latitude</u>	<u>Longitude</u>	<u>County (Feet)</u> <u>X</u>	<u>Y</u>	<u>County (Meters)</u> <u>X</u>	<u>Y</u>	<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 50 42.72051	92 27 26.60777	498150.302	171197.558	151836.516	52181.120	377.566	2	1999	17648
NAD83 (1986)	46 50 42.71450	92 27 26.61050	498150.112	171196.949	151836.458	52180.935		2	1986	17289
NAD27	46 50 42.92300	92 27 25.91000						2	1956	11100

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29295.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29295.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29296

SAGINAW AZ MK

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SAGINAW AZ MK

NGS Name: SAGINAW AZ MK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0376](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/1021
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	2	50 N	17 W	465031.23	922720.18	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	NGS

Description: (2001) **Stamping:** SAGINAW 1952

9.3 MILES NORTH OF CLOQUET, 0.15 MILE EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33, THEN 0.2 MILE SOUTH ON OLD TRUNK HIGHWAY 33, 54.0 FEET WEST OF OLD TRUNK HIGHWAY 33, 119.5 FEET SOUTH OF THE SOUTH END OF AN ENTRANCE, 119.5 FEET SOUTHEAST OF A POWER POLE NUMBER 24356, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1320.808	0.016	402.583	0.005	2/1	2021	00000963
NGVD29	1320.558	0.016	402.507	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.278 12B = -94.262 09 = -94.173 03 = -93.983

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 50 31.22907	92 27 20.17853	498597.161	170033.230	151972.719	51826.232	373.911	3	1999	17648
NAD83 (1986)	46 50 31.22320	92 27 20.18139	498596.962	170032.636	151972.658	51826.051		3	1986	17289
NAD27	46 50 31.43168	92 27 19.48114						3	1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SAGINAW_AZ_MK-RN0376-3SW-25JUL2017.jpg	SW	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SAGINAW_AZ_MK-RN0376-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SAGINAW_AZ_MK-RN0376-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29296.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29296.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SAGINAW RM 1

NGS Name: SAGINAW RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0374](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	50 N	17 W	465042.35	922725.46	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2008	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

Description: (2019)

Stamping: SAGINAW NO 1 1952

1.2 MILES SOUTHWEST OF SAGINAW, AT THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33, 86.0 FEET NORTH OF TRUNK HIGHWAY 2, 137.0 FEET EAST OF TRUNK HIGHWAY 33, AT TRUNK HIGHWAY 33 MILEPOINT 11.25, 66.2 FEET NORTHEAST OF A TELEPHONE POLE, 56.0 FEET EAST-NORTHEAST OF A TELEPHONE CABLE PEDESTAL 7, 88.3 FEET SOUTHEAST OF STATION SAGINAW, 170.9 FEET SOUTHEAST OF SAGINAW RM 2, 1.4 FEET WEST OF A WITNESS POST, IN 1995 THE GEODETIC UNIT COULD NOT FIND THE STATION, TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 HAVE BEEN REBUILT INTO A 4 LANE ROADWAY.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1330.319	0.016	405.482	0.005	2/0	1991	00000025
NGVD29	1330.066	0.016	405.405	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -94.308 12B = -94.291 09 = -94.199 03 = -94.012

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29297.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29297.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SAGINAW RM 2

NGS Name: SAGINAW RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0052](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	50 N	17 W	465043.33	922727.46	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2008	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

Description: (2019)

Stamping: SAGINAW NO 2 1952

1.2 MILES SOUTHWEST OF SAGINAW, AT THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33, 56.3 FEET EAST OF TRUNK HIGHWAY 33, AT TRUNK HIGHWAY 33 MILEPOINT 11.25, 181.0 FEET NORTH OF TRUNK HIGHWAY 2, 52.3 FEET SOUTH-SOUTHWEST OF A 12.0 INCH DIAMETER TWIN BIRCH TREE, 85.4 FEET NORTHWEST OF STATION SAGINAW, 170.9 FEET NORTHWEST OF SAGINAW RM 1, 1.5 FEET NORTHWEST OF A WITNESS POST, IN 1995 THE GEODETIC UNIT COULD NOT FIND THE STATION, TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 HAVE BEEN REBUILT INTO A 4 LANE ROADWAY.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1332. 189	0. 016	406. 052	0. 005	2/0	1991	00000025
NGVD29	1331. 933	0. 016	405. 974	0. 005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -94.311 12B = -94.294 09 = -94.203 03 = -94.016

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29298.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29298.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107899

SAHA

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SAHA

NGS Name: SAHA

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	34	51 N	19 W	465114.53	924406.44	2	

NGS ACRN: [DQ9905](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 16 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2019)

Stamping: SAHA 2017

9.9 MILES SOUTHEAST OF FLOODWOOD, 10.55 MILES SOUTHEAST AND EAST ALONG TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 231.65, 79.8 FEET NORTH OF TRUNK HIGHWAY 2, 45.5 FEET EAST OF DRIVEWAY NUMBER 10025, 1.5 FEET SOUTH OF A WITNESS POST.

Station Pair: FUNDY - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1363. 800	0. 016	415. 687	0. 005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -94.675 12B = -94.665 09 = -94.583 03 = -94.455

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SAHA-DQ9905-3N-07AUG2017.jpg	N	Aug 7, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SAHA-DQ9905-2-07AUG2017.jpg		Aug 7, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SAHA-DQ9905-1-07AUG2017.jpg		Aug 7, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107899.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107899.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29304

SAX

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SAX

NGS Name: SAX

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ2193](#) [Get Map](#)
NGS Quad / Sta Num : 47092321/1017
USGS Quad: KELSEY

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	34	55 N	18 W	471240.63	923614.30		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2020	GOOD	Horz=YES Vert=YES	YES		RECESSED 5 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

Description: (1995) **Stamping:** SAX 1952

6.5 MILES NORTHWEST OF COTTON, 2.95 MILES NORTH ON COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND COUNTY ROAD 52, 143.82 FEET NORTHWEST OF STATION Y 28, 142.4 FEET SOUTHWEST OF A TELEPHONE POLE, 124.0 FEET WEST OF THE WEST RAIL OF A RAILROAD, 117.4 FEET WEST-SOUTHWEST OF A RAILROAD CROSSING SIGN POST, 91.59 FEET SOUTHEAST OF SAX RM 2, 82.89 FEET WEST OF SAX RM 1, 56.0 FEET SOUTH OF COUNTY ROAD 28, 2.1 FEET NORTH OF A WITNESS POST.

Station Notes

IN 1992 THE GEODETIC UNIT FOUND SAX RM 2 HAD BEEN DISTURBED BY DITCH DREDGING AND SAX RM 1 AND STATION Y 28 COULD NOT BE FOUND.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.805 12B = -97.805 09 = -97.710 03 = -97.542

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 12 40.63253	92 36 14.30265	461728.711	304767.766	140735.193	92893.401	370.786		2012	GPS2800
NAD83 (2007)	47 12 40.63264	92 36 14.30355	461728.649	304767.778	140735.174	92893.404	370.812		2007	GPS2300
NAD83 (1996)	47 12 40.63250	92 36 14.30332	461728.665	304767.763	140735.179	92893.400	370.800	C	2003	GPS1848
NAD83 (1986)	47 12 40.63210	92 36 14.30754	461728.373	304767.723	140735.090	92893.388		1	1986	17289
NAD27	47 12 40.86100	92 36 13.62000						1	1956	11100

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SAX-SJ2193-3S-13JUL2020.jpg	S	Jul 13, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SAX-SJ2193-2-13JUL2020.jpg		Jul 13, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SAX-SJ2193-1-13JUL2020.jpg		Jul 13, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29304.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29304.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SAX AZ MK

NGS Name: SAX AZ MK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ2746](#) [Get Map](#)
NGS Quad / Sta Num : 47092321/
USGS Quad: KELSEY

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	34	55 N	18 W	471215.00	923612.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2002	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	AZIMUTH MARK DISK	MNDT

Description: **Stamping:** SAX 1952

36.0 FEET EAST OF THE EAST RAIL OF THE RAILROAD, 31.0 FEET WEST OF THE CENTERLINE OF COUNTY ROUTE 7 AND 3.0 FEET EAST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.775 12B = -97.779 09 = -97.677 03 = -97.506

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_79052.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_79052.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SAX RM 1

NGS Name: SAX RM 1

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	34	55 N	18 W	471240.61	923613.10		

NGS ACRN: [CJ2747](#)

[Get Map](#)

NGS Quad / Sta Num : 47092321/

USGS Quad: KELSEY

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2002	NOT FOUND	Horz=YES Vert=YES	NO			SEE DESCRIPTION

Monument Type

BLANK

Disk Type

REFERENCE MARK DISK

Mon. Agency

MNDT

Description: (2019)

Stamping: SAX NO 1 1952

4.0 MILES NORTH OF KELSEY, 3.02 MILES NORTH ALONG COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND COUNTY ROAD 52, NORTH OF KELSEY.

Station Notes

IN 1992 THE GEODETIC UNIT FOUND SAX RM 2 HAD BEEN DISTURBED BY DITCH DREDGING AND SAX RM 1 AND STATION Y 28 COULD NOT BE FOUND.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.805 12B = -97.805 09 = -97.710 03 = -97.542

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_79053.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_79053.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SAX RM 2

NGS Name: SAX RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ2748](#) [Get Map](#)
NGS Quad / Sta Num : 47092321/
USGS Quad: KELSEY

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	34	55 N	18 W	471241.36	923615.06		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2002	DISTURBED	Horz=YES Vert=YES	NO			SEE DESCRIPTION

Monument Type

BLANK

Disk Type

REFERENCE MARK DISK

Mon. Agency

MNDT

Description: (2019)

Stamping: SAX NO 1 1952

4.0 MILES NORTH OF KELSEY, 3.02 MILES NORTH ALONG COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND COUNTY ROAD 52, NORTH OF KELSEY.

Station Notes

IN 1992 THE GEODETIC UNIT FOUND SAX RM 2 HAD BEEN DISTURBED BY DITCH DREDGING AND SAX RM 1 AND STATION Y 28 COULD NOT BE FOUND.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.805 12B = -97.805 09 = -97.710 03 = -97.542

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_79054.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_79054.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107998

SHEA

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SHEA

NGS Name: SHEA

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9912](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	27	51 N	20 W	465215.53	925126.46	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: SHEA 2017

4.75 MILES SOUTHEAST OF FLOODWOOD, 4.2 MILES SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 225.35, 42.2 FEET NORTHEAST OF TRUNK HIGHWAY 2, 2.0 FEET SOUTHWEST OF A WITNESS POST.

Station Pair: RANTA - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1249. 486 0. 016	380. 844 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.862 12B = -94.846 09 = -94.760 03 = -94.645

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SHEA-DQ9912-3NE-14AUG2017.jpg	NE	Aug 14, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SHEA-DQ9912-2-14AUG2017.jpg		Aug 14, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SHEA-DQ9912-1-14AUG2017.jpg		Aug 14, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107998.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107998.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29314

SHINOB MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SHINOB MNDT

NGS Name: SHINOB

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0769](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/1055
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	3	50 N	18 W	465114.39	923558.42	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (2001) **Stamping:** SHINOB 1974

0.8 MILE SOUTH OF BROOKSTON, 0.2 MILE EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31 (THE JUNCTION IS 1.0 MILE SOUTH OF BROOKSTON), AT TRUNK HIGHWAY 2 MILEPOINT 238.0, 116.7 FEET NORTH OF TRUNK HIGHWAY 2, 184.42 FEET EAST OF SHINOB MNDT RM 1, 42.8 FEET NORTHWEST OF A POWER POLE NUMBER GL179, 36.68 FEET WEST-NORTHWEST OF SHINOB MNDT RM 2, 15.1 FEET NORTH OF AN EAST-WEST POWER LINE, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1294. 171	0. 016	394. 464	0. 005	2/1	2021	00000963
NGVD29	1293. 580	0. 016	394. 284	0. 005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.636 12B = -94.636 09 = -94.537 03 = -94.636

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>				<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>		<u>Longitude</u>		<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46	51	14. 39460	92	35	58. 42152	462576. 577	174442. 330	140993. 623	53170. 129	365. 585				2012	GPS2800
NAD83 (2007)	46	51	14. 39473	92	35	58. 42239	462576. 516	174442. 343	140993. 604	53170. 133	365. 612				2007	GPS2300
NAD83 (1996)	46	51	14. 39438	92	35	58. 42224	462576. 527	174442. 308	140993. 607	53170. 122	365. 654	C			2004	GPS1957
NAD83 (1986)	46	51	14. 39024	92	35	58. 42399	462576. 405	174441. 889	140993. 570	53169. 994			2		1986	17289
NAD27	46	51	14. 59250	92	35	57. 72573							2		1977	15924

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SHINOB-RN0769-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SHINOB-RN0769-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SHINOB-RN0769-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29314.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29314.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29315

SHINOB MNDT RM 1

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SHINOB MNDT RM 1

NGS Name: SHINOB RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0768](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	3	50 N	18 W	465114.86	923600.99	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 5 IN.	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ROCK (0 TO 1 METERS)	REFERENCE MARK DISK	MNDT

Description: (1974)

Stamping: SHINOB NO 1 1974

0.8 MILE SOUTH OF BROOKSTON, 0.2 MILE EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31 (THE JUNCTION IS 1.0 MILE SOUTH OF BROOKSTON), AT TRUNK HIGHWAY 2 MILEPOINT 238.0, 111.0 FEET NORTH OF TRUNK HIGHWAY 2, 217.8 FEET WEST-NORTHWEST OF SHINOB MNDT RM 2, 184.0 FEET WEST OF STATION SHINOB MNDT, 10.5 FEET NORTH OF AN EAST-WEST POWER LINE, 2.1 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1292. 852	0. 016	394. 062	0. 005	2/1	2021	00000963
NGVD29	1292. 353	0. 016	393. 910	0. 005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.636 12B = -94.636 09 = -94.540 03 = -94.376

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SHINOB_RM_1-RN0768-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SHINOB_RM_1-RN0768-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SHINOB_RM_1-RN0768-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29315.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29315.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SHINOB MNDT RM 2

NGS Name: SHINOB RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0770](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	3	50 N	18 W	465114.15	923558.03	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (1974) **Stamping:** SHINOB NO 2 1974

0.8 MILE SOUTH OF BROOKSTON, 0.2 MILE EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 31 (THE JUNCTION IS 1.0 MILE SOUTH OF BROOKSTON), AT TRUNK HIGHWAY 2 MILEPOINT 238.0, 100.0 FEET NORTH OF TRUNK HIGHWAY 2, 217.8 FEET EAST-SOUTHEAST OF SHINOB MNDT RM 1, 36.8 FEET SOUTHEAST OF STATION SHINOB MNDT, 6.7 FEET WEST-SOUTHWEST OF A POWER POLE NUMBER GL179, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1293.928	0.016	394.390	0.005	2/1	2021	00000963
NGVD29	1293.262	0.016	394.187	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.636 12B = -94.632 09 = -94.537 03 = -94.373

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SHINOB_RM_2-RN0770-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SHINOB_RM_2-RN0770-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SHINOB_RM_2-RN0770-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29316.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29316.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29322

SIMI MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SIMI MNDT

NGS Name: SIMI

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9563](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	29	52 N	20 W	465745.79	925359.76	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1993	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: SIMI 1993

2.2 MILES NORTH-NORTHEAST OF FLOODWOOD, 2.65 MILES NORTH ON TRUNK HIGHWAY 73 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD TO TRUNK HIGHWAY 73 MILEPOINT 45.9, THEN 0.25 MILE EAST AND NORTH ON SIMI ROAD, 13.0 FEET WEST OF SIMI ROAD, 38.6 FEET WEST OF A FENCE, 38.0 FEET WEST OF A WITNESS POST.

Station Pair: MUSHRAT MNDT RESET - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1251. 881 0. 016	381. 574 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.702 12B = -95.682 09 = -95.620 03 = -95.482

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 57 45. 79213	92 53 59. 76121	387645. 334	214385. 094	118154. 534	65344. 707	352. 396		2012	GPS2800
NAD83 (2007)	46 57 45. 79220	92 53 59. 76207	387645. 275	214385. 101	118154. 516	65344. 710	352. 424		2007	GPS2300
NAD83 (1996)	46 57 45. 79194	92 53 59. 76164	387645. 304	214385. 075	118154. 525	65344. 701	352. 442	C	2003	GPS1769

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SIMI-DE9563-3E-10JUL2017.jpg	E	Jul 10, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SIMI-DE9563-2-10JUL2017.jpg		Jul 10, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SIMI-DE9563-1-10JUL2017.jpg		Jul 10, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29322.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29322.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29323

SIMION

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SIMION

NGS Name: SIMION

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1655](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/1021
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	24	50 N	18 W	464748.71	923318.67		1

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO		PROJECTS 8 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

Description: (2019) **Stamping:** SIMION 1952

7.0 MILES NORTHWEST OF CLOQUET, 6.7 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 THEN 2.0 MILES SOUTH ON COUNTY ROAD 31 THEN 3.85 MILES EAST AND SOUTH ON COUNTY ROAD 80, 38.0 FEET WEST OF COUNTY ROAD 80, 65.0 FEET WEST OF A POWER POLE NUMBER 2, 4.0 FEET NORTHEAST OF A WITNESS POST, 77.07 FEET SOUTHWEST OF SIMION RM 1, 96.05 FEET NORTHWEST OF SIMION RM 2.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.012 12B = -94.006 09 = -93.924 03 = -93.750

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 47 48.70733	92 33 18.67110	473652.189	153584.518	144369.476	46812.655	386.403	1	1999	17648		
NAD83 (1986)	46 47 48.70137	92 33 18.67188	473652.134	153583.915	144369.459	46812.471		1	1986	17289		
NAD27	46 47 48.89800	92 33 17.97700						1	1956	11100		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29323.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29323.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SIMION AZ MK

NGS Name: SIMION AZ MK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ2779](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	24	50 N	18 W	464820.00	923318.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

BLANK

Disk Type

AZIMUTH MARK DISK

Mon. Agency

NGS

Description:

Stamping: SIMION 1952

7.0 MILES NORTHWEST OF CLOQUET, 6.7 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 THEN 2.0 MILES SOUTH ON COUNTY ROAD 31 THEN 3.25 MILES EAST AND SOUTH ON COUNTY ROAD 80, 36.0 FEET EAST OF THE APPROXIMATE CENTERLINE OF A ROAD, 10.0 FEET SOUTH-SOUTHEAST OF A POWER POLE WITH A TRANSFORMER, 3.0 FEET EAST OF A FENCE AND 2.0 FEET SOUTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.104 12B = -94.098 09 = -94.009 03 = -93.835

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_79072.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_79072.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SIMION RM 1

NGS Name: SIMION RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ2780](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	24	50 N	18 W	464749.21	923317.84		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO		PROJECTS 6 IN.	SEE DESCRIPTION

Monument Type

BLANK

Disk Type

REFERENCE MARK DISK

Mon. Agency

NGS

Description:

Stamping: SIMION NO 1 1952

7.0 MILES NORTHWEST OF CLOQUET, 6.7 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 THEN 2.0 MILES SOUTH ON COUNTY ROAD 31 THEN 3.85 MILES EAST AND SOUTH ON COUNTY ROAD 80, 20.0 FEET EAST OF THE APPROXIMATE CENTERLINE OF COUNTY ROAD 80 AND 14.0 FEET WEST OF A FENCE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.012 12B = -94.006 09 = -93.924 03 = -93.750

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_79073.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_79073.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SIMION RM 2

NGS Name: SIMION RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ2781](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	24	50 N	18 W	464747.93	923317.87		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	REFERENCE MARK DISK	NGS

Description: **Stamping:** SIMION NO 1 1952

7.0 MILES NORTHWEST OF CLOQUET, 6.7 MILES WEST ON TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33 THEN 2.0 MILES SOUTH ON COUNTY ROAD 31 THEN 3.85 MILES EAST AND SOUTH ON COUNTY ROAD 80, 20.0 FEET EAST OF THE APPROXIMATE CENTERLINE OF COUNTY ROAD 80 AND 14.0 FEET WEST OF A FENCE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.009 12B = -94.002 09 = -93.920 03 = -93.747

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_79074.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_79074.pdf



Geodetic Data Sheet (Brief)
GSID Station # 42632

SKID MNDT

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SKID MNDT

NGS Name: SKID

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DG4251](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	52 N	21 W	465727.27	925824.57	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2017	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	SURVEY DISK	MNDT

Description: (2003) **Stamping:** SKID 2001

4.0 MILES NORTHWEST OF FLOODWOOD, 3.95 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 217.10, 78.5 FEET SOUTHWEST OF TRUNK HIGHWAY 2, 22.5 FEET NORTHEAST OF A GATE POST, 13.0 FEET SOUTHEAST OF AN ENTRANCE, 22.3 FEET NORTHEAST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1266.441 0.016	386.012 0.005	2/1	2011 00000675

Geoid Separations(ft): GEOID18 = -95.600 12B = -95.584 09 = -95.515 03 = -95.390

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 57 27.26922	92 58 24.57362	369264.355	212622.436	1125520000	64807.448	356.849		2012	GPS2800
NAD83 (2007)	46 57 27.26933	92 58 24.57450	369264.294	212622.448	112551.982	64807.452	356.877		2007	GPS2300
NAD83 (1996)	46 57 27.26912	92 58 24.57406	369264.324	212622.426	112551.991	64807.445	356.904	C	2004	GPS1957

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SKID-DG4251-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_42632.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_42632.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SKID MNDT RESET

NGS Name: SKID RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9926](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	52 N	21 W	465727.27	925824.57	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** SKID 2001 2017

4.0 MILES NORTHWEST OF FLOODWOOD, 3.95 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 217.10, 78.5 FEET SOUTHWEST OF TRUNK HIGHWAY 2, 22.5 FEET NORTHEAST OF A GATE POST, 13.0 FEET SOUTHEAST OF AN ENTRANCE, 22.3 FEET NORTHEAST OF A WITNESS POST.

Station Pair: RUD MNDT RESET - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1266.225 0.016	385.946 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.600 12B = -95.584 09 = -95.515 03 = -95.390

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SKID_RESET-DQ9926-3SW-24JUL2017.jpg	SW	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SKID_RESET-DQ9926-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/SKID_RESET-DQ9926-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107894.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107894.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: STA 1248+53

NGS Name: STA 1248+53

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092333/

USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	15	53 N	21 W	470419.00	925849.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1953	2017	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

CULVERT - ANY SIZE, ANY TYPE

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (1953)

Stamping:

10.0 MILES NORTH OF FLOODWOOD, AT TRUNK HIGHWAY 73 STATION 1248+53, IN THE SOUTH END OF THE EAST HEADWALL OF A TRUNK HIGHWAY 73 BOX CULVERT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.591 12B = -96.581 09 = -96.535 03 = -96.352

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29336.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29336.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: STA 1367+05

NGS Name: STA 1367+05

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092333/

USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	25	53 N	21 W	470302.00	925648.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1953	2017	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

CULVERT - ANY SIZE, ANY TYPE

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (1953)

Stamping:

8.0 MILES NORTH OF FLOODWOOD, IN THE SOUTH END OF THE EAST HEADWALL OF A TRUNK HIGHWAY 73 BOX CULVERT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.466 12B = -96.453 09 = -96.414 03 = -96.230

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29337.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29337.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: STA 1409+75

NGS Name: STA 1409+75

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5131](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	25	53 N	21 W	470225.94	925612.48	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1953	2017	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (1953)

Stamping:

7.0 MILES NORTH OF FLOODWOOD, IN THE EAST HEADWALL OF A TRUNK HIGHWAY 73 BOX CULVERT.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1243. 275 0. 016	378. 951 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.397 12B = -96.378 09 = -96.338 03 = -96.155

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/STA_1409+75-DR5131-3NE-12JUL2017.jpg	NE	Jul 12, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/STA_1409+75-DR5131-2-12JUL2017.jpg		Jul 12, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/STA_1409+75-DR5131-1-12JUL2017.jpg		Jul 12, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29338.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29338.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29339

STA 1550+50

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: STA 1550+50

NGS Name: STA 1550+50

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	7	52 N	20 W	470015.13	925506.77	2	

NGS ACRN: [DR5128](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1953	2017	GOOD	Horz=NO Vert=NO	YES		FLUSH	SEE DESCRIPTION

Monument Type

CULVERT - ANY SIZE, ANY TYPE

Disk Type

BENCH MARK DISK

Mon. Agency

MNDT

Description: (1953)

Stamping:

5.5 MILES NORTH OF FLOODWOOD, IN THE SOUTH END OF THE EAST HEADWALL OF A TRUNK HIGHWAY 73 BOX CULVERT.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1245.421	0.016	379.605	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -96.086 12B = -96.066 09 = -96.017 03 = -95.856

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/STA_1550+50-DR5128-3NE-12JUL2017.jpg	NE	Jul 12, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/STA_1550+50-DR5128-2-12JUL2017.jpg		Jul 12, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/STA_1550+50-DR5128-1-12JUL2017.jpg		Jul 12, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29339.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29339.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: STONEY MN137

NGS Name: STONEY

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF9156](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	27	50 N	18 W	464652.11	923549.97		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2020	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 8 FT)	SURVEY DISK	MN-137

Description: (2019) **Stamping:** STONEY 2001

5.5 MILES SOUTH OF BROOKSTON, 5.1 MILES SOUTH ALONG COUNTY ROAD 31 SOUTH FROM THE JUNCTION OF COUNTY ROAD 31 AND TRUNK HIGHWAY 2, AT TRUNK HIGHWAY 2.0 MILEPOINT 238.2, 60.0 FEET WEST OF COUNTY ROAD 31 (TWIN LAKES ROAD), 55.0 FEET NORTH OF COUNTY ROAD 851 (PINE DRIVE), 2.0 FEET SOUTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.878 12B = -93.878 09 = -93.802 03 = -93.628

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 46 52.11240	92 35 49.96823	463114.228	147867.426	141157.499	45070.082	373.653		2012	GPS2800
NAD83 (2007)	46 46 52.11255	92 35 49.96907	463114.169	147867.441	141157.481	45070.086	373.678		2007	GPS2300
NAD83 (1996)	46 46 52.11229	92 35 49.96891	463114.180	147867.415	141157.485	45070.078	373.717	C	2003	GPS1931

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/STONEY-DF9156-3N-06JUL2020.jpg	N	Jul 6, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/STONEY-DF9156-2-06JUL2020.jpg		Jul 6, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/STONEY-DF9156-1-06JUL2020.jpg		Jul 6, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41656.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41656.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: STOORE

NGS Name: STOORE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1840](#) [Get Map](#)
NGS Quad / Sta Num : 47092243/
USGS Quad: CENTRAL LAKES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	3	55 N	17 W	471614.69	922844.75	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 12 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** STOORE 2017

14.0 MILES SOUTH OF EVELETH, 9.7 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND TRUNK HIGHWAY 37 (THE JUNCTION IS 5.0 MILES SOUTH OF EVELETH), AT TRUNK HIGHWAY 53 MILEPOINT 46.15, 28.9 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 53, 80.0 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 53, 20.4 FEET NORTH OF A GRAVEL PIT ENTRANCE EXTENDED, 5.0 FEET EAST OF A WITNESS POST.

Station Pair: ZEBOTT - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1391.746 0.016	424.205 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.939 12B = -97.939 09 = -97.880 03 = -97.710

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/STOORE-DR1840-3W-18OCT2017.jpg	W	Oct 18, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/STOORE-DR1840-2-18OCT2017.jpg		Oct 18, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/STOORE-DR1840-1-18OCT2017.jpg		Oct 18, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108312.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108312.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: STYLES

NGS Name: STYLES

County: ST. LOUIS, MN (Sheet 1)

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	11	52 N	17 W	470034.40	922816.23	2	3

NGS ACRN: [DR1864](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** STYLES 2017

2.05 MILES SOUTH OF CANYON, 2.1 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 27.90, 49.8 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 53, 72.7 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 53, 99.0 FEET NORTH OF A CROSSOVER, 0.9 MILE NORTH OF COUNTY ROAD 734 (SHIPLEY ROAD), 1.5 FEET EAST OF A WITNESS POST.

Station Pair: UNGER - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height	Accuracy	Orthometric (Meters) Height	Accuracy	Survey Order/(Class)	Project Info Year	Reference
NAVD88	1398.340	0.016	426.215	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -95.886 12B = -95.882 09 = -95.751 03 = -95.561

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/STYLES-DR1864-3S-17OCT2017.jpg	S	Oct 17, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/STYLES-DR1864-2-17OCT2017.jpg		Oct 17, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/STYLES-DR1864-1-17OCT2017.jpg		Oct 17, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108322.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108322.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29362

SUNSET

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SUNSET

NGS Name: SUNSET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1031](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/1024
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	51 N	17 W	465324.84	922811.97	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2008	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 3 IN.	STEEL ROD ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

Description: (1978) **Stamping:** SUNSET 1952

4.5 MILES WEST OF TWIG, 2.5 MILES NORTHWEST OF SAGINAW, 3.3 MILES NORTH ON TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2, 90.0 FEET EAST OF TRUNK HIGHWAY 33, 18.0 FEET EAST OF THE EDGE OF A CUT BANK, 3.0 FEET NORTH OF A WITNESS POST, 155.00 FEET SOUTHEAST OF SUNSET RM 1, 180.36 FEET NORTHEAST OF SUNSET RM 2, 63.89 FEET EAST-NORTHEAST OF SUNSET RM 3.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1403.954	0.016	427.926	0.005	2/1	1991	00000025
NGVD29	1403.701	0.016	427.849	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -94.754 12B = -94.750 09 = -94.632 03 = -94.445

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 53 24.84078	92 28 11.97471	495000.707	187623.882	150876.517	57187.874	399.109	2	1999	17648		
NAD83 (1986)	46 53 24.83515	92 28 11.97602	495000.616	187623.311	150876.490	57187.700		2	1986	17289		
NAD27	46 53 25.04800	92 28 11.28400						2	1956	11100		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29362.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29362.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SUNSET AZ MK

NGS Name: SUNSET AZ MK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ2861](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	15	51 N	17 W	465324.84	922811.96		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1978	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

BLANK

Disk Type

AZIMUTH MARK DISK

Mon. Agency

MNDT

Description: (1952)

Stamping: SUNSET 1952

2.7 MILES NORTH OF SAGINAW, 3.6 MILES NORTH ON TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2, 59.0 FEET WEST OF THE APPROXIMATE CENTERLINE OF THE HIGHWAY, 48.0 FEET NORTH OF THE APPROXIMATE CENTERLINE OF COUNTY ROAD 7, 3.0 FEET SOUTH-SOUTHEAST OF A FENCE CORNER AND 2.5 FEET EAST OF A WITNESS POST.

Station Notes

IN 1978 THIS STATION WAS REPLACED BY STATION 6911 P (RN1034).

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.750 12B = -94.747 09 = -94.629 03 = -94.442

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_89540.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_89540.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SUNSET RM 1

NGS Name: SUNSET RM 1

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	51 N	17 W	465325.28	922814.11	2	

NGS ACRN: [RN1032](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2008	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	STEEL ROD IMBED IN MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

REFERENCE MARK DISK

Mon. Agency

NGS

Description: (1978)

Stamping: SUNSET NO 1 1952

2.5 MILES NORTHWEST OF SAGINAW, 3.3 MILES NORTH ON TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2, 59.1 FEET WEST OF TRUNK HIGHWAY 33, AT TRUNK HIGHWAY 33 MILEPOINT 14.55, 155.0 FEET NORTHWEST OF STATION SUNSET, 103.7 FEET NORTH-NORTHWEST OF SUNSET RM 3, 160.0 FEET NORTH OF SUNSET RM 2, 2.9 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1397. 940	0. 016	426. 093	0. 005	2/1	1991	00000025
NGVD29	1397. 684	0. 016	426. 015	0. 005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -94.750 12B = -94.750 09 = -94.632 03 = -94.445

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29363.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29363.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SUNSET RM 2

NGS Name: SUNSET RM 2

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	51 N	17 W	465323.71	922813.98	2	

NGS ACRN: [RN1030](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2008	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

Description: (1978)

Stamping: SUNSET NO 2 1952

2.5 MILES NORTHWEST OF SAGINAW, 3.3 MILES NORTH ON TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2, AT TRUNK HIGHWAY 33 MILEPOINT 14.55, 49.5 FEET WEST OF TRUNK HIGHWAY 33, 24.8 FEET WEST-NORTHWEST OF THE WEST LEG OF A NO PASSING SIGN, 180.4 FEET SOUTHWEST OF STATION SUNSET, 127.2 FEET SOUTHWEST OF SUNSET RM 3, 160.0 FEET SOUTH OF SUNSET RM 1, 3.1 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1397. 809	0. 016	426. 053	0. 005	2/1	1991	00000025
NGVD29	1397. 553	0. 016	425. 975	0. 005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -94.754 12B = -94.750 09 = -94.632 03 = -94.445

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29364.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29364.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SUNSET RM 3

NGS Name: SUNSET RM 3

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1033](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	51 N	17 W	465324.71	922812.87	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2008	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (1978) **Stamping:** SUNSET 1952 1978 NO 3

4.5 MILES WEST OF TWIG, 2.5 MILES NORTHWEST OF SAGINAW, 3.3 MILES NORTH ON TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2, 27.2 FEET EAST OF TRUNK HIGHWAY 33, 63.8 FEET WEST-SOUTHWEST OF A WITNESS POST, 103.71 FEET SOUTHEAST OF SUNSET RM 1, 127.15 FEET NORTHEAST OF SUNSET RM 2, 68.89 FEET EAST-NORTHEAST OF STATION SUNSET.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1392.067	0.016	424.303	0.005	2/1	1991	00000025
NGVD29	1391.812	0.016	424.225	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -94.754 12B = -94.750 09 = -94.632 03 = -94.445

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions						County (Feet)		County (Meters)		Ellipsoid	Surv	Project Info	
	Latitude			Longitude			X	Y	X	Y	Hgt (m)	Ord	Year	Reference
NAD83 (1996)	46	53	24.70874	92	28	12.87395	494938.243	187610.520	150857.478	57183.801	395.486	2	1999	17648
NAD83 (1986)	46	53	24.70309	92	28	12.87543	494938.140	187609.947	150857.447	57183.626		2	1986	17289
NAD27	46	53	24.91603	92	28	12.18255						2	1980	16254

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29365.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29365.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29380

T 160

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: T 160

NGS Name: T 160

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0239](#)

[Get Map](#)

NGS Quad / Sta Num : 47092243/

USGS Quad: CENTRAL LAKES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	16	55 N	17 W	471520.00	922944.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1950	NOT FOUND	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1950)

Stamping: T 160 1935

1.0 MILE SOUTH OF FENS THEN 5.1 MILES EAST OF A RAILROAD, 0.6 MILE WEST OF TRUNK HIGHWAY 53, 150.0 FEET WEST OF A LONG CURVE, 36.0 FEET SOUTH OF A ROAD.

Station Notes

THE ROAD IS NOW A FOUR WHEELER TRAIL.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1348.423	0.016	411.000	0.005	2/0	1991	00000025
NGVD29	1347.730	0.016	410.789	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.907 12B = -97.907 09 = -97.841 03 = -97.664

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29380.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29380.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: T 163

NGS Name: T 163

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0177](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	53 N	17 W	470223.00	922814.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1966	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1966) **Stamping:** T 163 1935

9.2 MILES SOUTH OF COTTON, 9.2 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, THEN 115.0 FEET EAST ALONG HARRIS ROAD.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1355.562	0.016	413.176	0.005	2/0	1991	00000025
NGVD29	1355.056	0.007	413.022	0.002	1	1935	L63 MINN

Geoid Separations(ft): GEOID18 = -96.174 12B = -96.184 09 = -96.033 03 = -95.846

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29383.pdf

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Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: T 163 RESET 1966

NGS Name: T 163 RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0178](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	53 N	17 W	470223.54	922813.60	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1966	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1999) Stamping: T 163 RESET 1966

IN CANYON, AT THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 30.0, 75.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53, 45.0 FEET NORTH OF COUNTY ROAD 737 EAST, 77.0 FEET NORTH-NORTHWEST OF A TELEPHONE CABLE PEDESTAL NUMBER A 16 1, 43.0 FEET EAST-NORTHEAST OF A STOP SIGN, 1.6 FEET SOUTH OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1354.571	0.016	412.874	0.005	2/1	2021	00000963
NGVD29	1353.961	0.007	412.688	0.002	1	1966	L63 MINN

Geoid Separations(ft): GEOID18 = -96.178 12B = -96.184 09 = -96.033 03 = -95.850

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (2011)	47 02 23.54281	92 28 13.60305	494901.839	242205.239	150846.382	73824.305	383.560		2012	GPS2800
NAD83 (2007)	47 02 23.54293	92 28 13.60395	494901.777	242205.251	150846.363	73824.308	383.588		2007	GPS2300
NAD83 (1996)	47 02 23.54271	92 28 13.60370	494901.794	242205.229	150846.369	73824.302	383.611	C	2003	GPS1848
NAD83 (1986)	47 02 23.53993	92 28 13.60410	494901.766	242204.945	150846.360	73824.215		C	1991	H1991

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/T_163_RESET-SJ0178-3E-18SEP2017.jpg	E	Sep 18, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/T_163_RESET-SJ0178-2-18SEP2017.jpg		Sep 18, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/T_163_RESET-SJ0178-1-18SEP2017.jpg		Sep 18, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29384.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29405

T 271

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: T 271

NGS Name: T 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0702](#) [Get Map](#)
NGS Quad / Sta Num : 46092441/
USGS Quad: MCCARTY RIVER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	20	52 N	19 W	465807.00	924608.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=NO Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: T 271 1948

10.0 MILES NORTHEAST OF FLOODWOOD, 1.15 MILES WEST ON COUNTY ROAD 165 FROM THE JUNCTION OF COUNTY ROAD 165 AND COUNTY ROAD 5, 0.1 MILE WEST OF A LARGE PIPE CULVERT, 37.0 FEET NORTH OF COUNTY ROAD 165, 19.0 FEET EAST OF A FARM DRIVEWAY NORTH, 2.0 FEET EAST OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1277.812	0.016	389.478	0.005	2/0	1991	00000025
NGVD29	1277.215	0.016	389.296	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.790 12B = -95.774 09 = -95.695 03 = -95.544

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29405.pdf

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Geodetic Data Sheet (Brief)
GSID Station # 29406

T 272

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: T 272

NGS Name: T 272

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	53 N	18 W	470455.54	923555.71	2	

NGS ACRN: [SJ0342](#)

[Get Map](#)

NGS Quad / Sta Num : 47092322/

USGS Quad: PAYNE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	GOOD	Horz=NO Vert=YES	YES		FLUSH	NO MAG MATERIAL

Monument Type

BRIDGE ABUTMENT

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1988)

Stamping: T 272 1948

0.95 MILE SOUTH ON COUNTY ROAD 7 FROM THE RAILROAD STATION AT PAYNE, 0.2 MILE NORTH OF RAILROAD MILEPOST 40, IN THE WEST END OF THE SOUTH ABUTMENT OF A COUNTY ROAD 7 BRIDGE OVER THE WHITEFACE RIVER, 84.0 FEET EAST OF THE EAST RAIL OF A RAILROAD TRACKS, 16.5 FEET WEST OF COUNTY ROAD 7, 1.5 FEET WEST OF A RAILING.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1300.391	0.016	396.360	0.005	2/1	2012	00000702
NGVD29	1299.817	0.016	396.185	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.821 12B = -96.811 09 = -96.699 03 = -96.512

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/T_272-SJ0342-3W-22MAY2007.jpg	W	May 22, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/T_272-SJ0342-2-22MAY2007.jpg		May 22, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/T_272-SJ0342-1-22MAY2007.jpg		May 22, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29406.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29407

T 273

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: T 273

NGS Name: T 273

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0529](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	16	53 N	21 W	470445.00	925952.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** T 273 1948

10.9 MILES NORTHWEST ALONG TRUNK HIGHWAY 73 FROM THE HIGH SCHOOL IN FLOODWOOD, THEN 1.7 MILES NORTHWEST ON COUNTY ROAD 508, 1.0 MILE SOUTHEAST OF THE JUNCTION OF COUNTY ROAD 508 AND COUNTY ROAD 133 AND THE CEDAR VALLEY TOWNSHIP HALL, 0.9 MILE NORTHWEST OF A COUNTY ROAD 508 BRIDGE, 30.0 FEET NORTHEAST OF A COUNTY ROAD 508 (OLD TRUNK HIGHWAY 73), 89.0 FEET NORTH-NORTHEAST OF A POWER POLE, 7.0 FEET SOUTHEAST OF A DIM TRAIL NORTHEAST, 1.0 FOOT SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1255. 670	0. 016	382. 729	0. 005	2/0	1991	00000025
NGVD29	1254. 958	0. 016	382. 512	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.607 12B = -96.601 09 = -96.555 03 = -96.378

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/T_273-SJ0529-3NE-13JUL2017.jpg	NE	Jul 13, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/T_273-SJ0529-2-13JUL2017.jpg		Jul 13, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/T_273-SJ0529-1-13JUL2017.jpg		Jul 13, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29407.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29407.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29408

T 274

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: T 274

NGS Name: T 274

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	18	54 N	19 W	470922.50	924811.80	2	

NGS ACRN: [SJ0389](#) [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	FAIR	Horz=NO Vert=YES	YES		PROJECTS 1 IN.	STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: T 274 1948

0.7 MILE SOUTH ON COUNTY ROAD 5 FROM THE HIGH SCHOOL AT TOIVOLA, 0.35 MILE NORTHWEST OF AN EAST-WEST CROSSROAD, 42.0 FEET NORTHEAST OF COUNTY ROAD 5, 17.0 FEET NORTHWEST OF AN ENTRANCE, 154.0 FEET NORTH OF A FARM ROAD WEST, 2.0 FEET SOUTHEAST OF A WITNESS POST.

Station Notes

THE CONCRETE HAS BEEN CHIPPED OFF, BUT THE MARK IS SOLID.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1280.342	0.016	390.249	0.005	2/1	2012	00000702
NGVD29	1279.689	0.016	390.050	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.421 12B = -97.421 09 = -97.352 03 = -97.155

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/T_274-SJ0389-3W-23MAY2007.jpg	W	May 23, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/T_274-SJ0389-2-23MAY2007.jpg		May 23, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/T_274-SJ0389-1-23MAY2007.jpg		May 23, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29408.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29408.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29412

T 279

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: T 279

NGS Name: T 279

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1330](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	7	54 N	21 W	471023.91	930240.89	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1993)

Stamping: T 279 1948

7.6 MILES SOUTH OF HIBBING, 1.0 MILE EAST OF THE ITASCA-SAINT LOUIS COUNTY LINE, 9.8 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND COUNTY ROAD 16 IN HIBBING, THEN 2.2 MILES NORTHWEST ON COUNTY ROAD 184 (FLOODWOOD RIVER ROAD), 44.0 FEET WEST OF TRUNK HIGHWAY 73, 64.0 FEET NORTH OF A ROAD WEST, 63.0 FEET NORTH-NORTHEAST OF COUNTY ROAD 184 (FLOODWOOD RIVER ROAD), 43.0 FEET WEST-SOUTHWEST OF COUNTY ROAD 443 (MERRILL ROAD), 5.0 FEET SOUTHEAST OF AN INTERNATIONAL HARVESTER SIGN, 5.0 FEET NORTHEAST OF A POWER POLE, 1.0 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1319.663	0.016	402.234	0.005	2/0	1991	00000025
NGVD29	1318.902	0.016	402.002	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.958 12B = -96.958 09 = -96.896 03 = -96.755

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/T_279-SJ1330-3W-12JUL2017.jpg	W	Jul 12, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/T_279-SJ1330-2-12JUL2017.jpg		Jul 12, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/T_279-SJ1330-1-12JUL2017.jpg		Jul 12, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29412.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29412.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29413

T 28

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: T 28

NGS Name: T 28

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0340](#) [Get Map](#)
NGS Quad / Sta Num : 47092322/
USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	22	53 N	18 W	470340.00	923556.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1948	POOR	Horz=? Vert=YES	NO		PROJECTS 10 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** T 28 1934

2.25 MILES SOUTH ON A RAILROAD FROM THE RAILROAD STATION AT PAYNE, 0.5 MILE SOUTH OF COUNTY ROAD 133, 50.5 FEET EAST OF THE EAST RAIL OF THE EAST RAILROAD TRACK, 54.0 FEET WEST OF COUNTY ROAD 7, ON THE TOP OF A RIDGE BETWEEN 2 DITCHES, 2.0 FEET NORTH OF A WITNESS POST.

Station Notes

THE MONUMENT IS LOOSE AND MAY BE BROKEN BELOW THE GROUND.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	Orthometric (Feet)		Orthometric (Meters)		Survey <u>Order/(Class)</u>	Project Info	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1301.231	0.016	396.616	0.005	2/0	1991	00000025
NGVD29	1300.644	0.016	396.437	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.614 12B = -96.607 09 = -96.489 03 = -96.309

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29413.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29413.pdf



Geodetic Data Sheet (Brief)
GSID Station # 54119

T 30

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: T 30

NGS Name: T 30

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1210](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	6	51 N	20 W	465538.00	925505.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2017	NOT FOUND	Horz=NO Vert=NO	YES			SEE DESCRIPTION

Monument Type

UNKNOWN

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1934)

Stamping:

IN FLOODWOOD, IN THE NORTHWEST QUADRANT OF THE JUNCTION OF COUNTY ROAD 30 AND RAILROAD STREET IN FLOODWOOD.

Station Notes

THE MONUMENT TYPE AND DISK TYPE ARE BASED OFF OF SURROUNDING SIMILAR MARKS, THEY COULD BE DIFFERENT.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1254. 807	0. 016	382. 466	0. 005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -95.357 12B = -95.338 09 = -95.262 03 = -95.151

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/T_30-RN1210-3W-10JUL2017.jpg	W	Jul 10, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_54119.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_54119.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 06 2 L23566

NGS Name: TBM 06 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9078](#) [Get Map](#)
NGS Quad / Sta Num : 46093111/
USGS Quad: ISLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	17	52 N	21 W	465923.00	930112.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description:

Stamping:

6.31 MILES NORTHWEST OF FLOODWOOD, 6.85 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.850 12B = -95.840 09 = -95.771 03 = -95.636

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57423.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57423.pdf



Geodetic Data Sheet (Brief)
GSID Station # 57436

TBM 06 3 L23566

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 06 3 L23566

NGS Name: TBM 06 3

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9079](#) [Get Map](#)
NGS Quad / Sta Num : 46093111/
USGS Quad: ISLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	21	52 N	21 W	465846.00	930011.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

MNDT

Description: (2019)

Stamping:

5.26 MILES NORTHWEST OF FLOODWOOD, 5.5 MILES NORTHEAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND WEST 7TH AVENUE, THEN 325.0 FEET SOUTHWEST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.774 12B = -95.764 09 = -95.695 03 = -95.561

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57436.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57436.pdf



Geodetic Data Sheet (Brief)
GSID Station # 57442

TBM 06 4 L23566

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 06 4 L23566

NGS Name: TBM 06 4

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9080](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	22	52 N	21 W	465814.00	925932.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

MNDT

Description:

Stamping:

4.47 MILES NORTHWEST OF FLOODWOOD, 4.7 MILES NORTHEAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND WEST 7TH AVENUE

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.702 12B = -95.692 09 = -95.623 03 = -95.489

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57442.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57442.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 06 5 L23566

NGS Name: TBM 06 5

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9081](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>				
SE	27	52 N	21 W	465735.00	925839.00						
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>				
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION				
<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>									
IRON ROD	UNMONUMENTED	MNDT									

Description: (2012)

Stamping:

3.2 MILES NORTHWEST OF FLOODWOOD, 0.7 MILE NORTHWEST ALONG TRUNK HIGHWAY 2 WEST FROM THE JUNCTION OF TRUNK HIGHWAY. 2 WEST AND RUDOLPH ROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.617 12B = -95.603 09 = -95.531 03 = -95.407

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57448.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57448.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 06 6 L23566

NGS Name: TBM 06 6

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9082](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	35	52 N	21 W	465711.00	925731.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

2.3 MILES NORTHWEST OF FLOODWOOD, 0.4 MILE NORTHWEST ALONG TRUNK HIGHWAY 2 WEST FROM THE JUNCTION OF TRUNK HIGHWAY 2 WEST AND SAVANNA ROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.571 12B = -95.554 09 = -95.482 03 = -95.361

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57453.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57453.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 06 7 L23566

NGS Name: TBM 06 7

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9083](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	52 N	21 W	465651.00	925639.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description:

Stamping:

2.15 MILES NORTHWEST OF FLOODWOOD, 1.04 MILE NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, THEN TURN RIGHT AND CONTINUE 1.17 MILE NORTHWEST ALONG COUNTY ROAD 260 (ST. VINCENT ROAD).

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.528 12B = -95.512 09 = -95.439 03 = -95.318

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57458.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57458.pdf



Geodetic Data Sheet (Brief)
GSID Station # 57463

TBM 06 8 L23566

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 06 8 L23566

NGS Name: TBM 06 8

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9084](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	6	51 N	20 W	465608.00	925540.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description:

Stamping:

0.59 MILE NORTHWEST OF FLOODWOOD, 0.7 MILE NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND WEST 7TH AVENUE, THEN 187.0 FEET NORTHEAST ON ST. VINCENT ROAD, THEN 101.0 FEET SOUTHEAST OF ST. VINCENT ROAD IN THE 50.0 FEET ZONE OF THE RAILROAD TRACK.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.430 12B = -95.413 09 = -95.338 03 = -95.220

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57463.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57463.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 07 1 L23566

NGS Name: TBM 07 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9085](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	8	51 N	20 W	465458.00	925420.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description:

Stamping:

0.67 MILE SOUTHEAST OF FLOODWOOD, 0.67 MILE SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.259 12B = -95.243 09 = -95.164 03 = -95.052

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57151.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57151.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 07 10 L23566

NGS Name: TBM 07 10

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9093](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	3	50 N	18 W	465115.00	923612.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description:

Stamping:

11.6 MILES SOUTHEAST OF GOWAN, 11.92 MILES SOUTHEAST AND EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86 IN GOWAN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.639 12B = -94.639 09 = -94.540 03 = -94.380

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57156.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57156.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 07 11 L23566

NGS Name: TBM 07 11

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9097](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	2	50 N	18 W	465107.00	923520.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

MNDT

Description:

Stamping:

1.30 MILES SOUTHEAST OF BROOKSTON, 1.0 MILE SOUTH ALONG COUNTY HIGHWAY 31/2ND AVENUE FROM THE JUNCTION OF COUNTY HIGHWAY 31/2ND AVENUE AND MCCAMUS ROAD, THEN 0.7 MILE EAST ON TRUNK HIGHWAY 2E.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.606 12B = -94.606 09 = -94.504 03 = -94.340

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57157.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57157.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 07 12 L23566

NGS Name: TBM 07 12

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9098](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	5	50 N	17 W	465048.00	923130.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description:

Stamping:

4.01 MILES SOUTHEAST OF BROOKSTON, 1.0 MILE SOUTH ALONG COUNTY HIGHWAY 31/2ND AVENUE FROM THE JUNCTION OF COUNTY HIGHWAY 31/2ND AVENUE AND MCCAMUS ROAD, THEN 3.8 MILES EAST ON TRUNK HIGHWAY 2E.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.462 12B = -94.452 09 = -94.360 03 = -94.183

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57158.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57158.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 07 13 L23566

NGS Name: TBM 07 13

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9099](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	4	50 N	17 W	465049.00	923009.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

MNDT

Description:

Stamping:

5.01 MILES SOUTHEAST OF BROOKSTON, 1.0 MILE SOUTH ALONG COUNTY HIGHWAY 31/2ND AVENUE FROM THE JUNCTION OF COUNTY HIGHWAY 31/2ND AVENUE AND MCCAMUS ROAD, THEN 4.9 MILES EAST ON TRUNK HIGHWAY 2E.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.426 12B = -94.416 09 = -94.324 03 = -94.144

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57159.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57159.pdf



Geodetic Data Sheet (Brief)
GSID Station # 57160

TBM 07 14 L23566

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 07 14 L23566

NGS Name: TBM 07 14

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9100](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	3	50 N	17 W	465044.00	922835.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

MNDT

Description:

Stamping:

17.71 MILES SOUTHEAST OF GOWAN, 17.98 MILES SOUTHEAST AND EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86 IN GOWAN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.360 12B = -94.344 09 = -94.255 03 = -94.068

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57160.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57160.pdf



Geodetic Data Sheet (Brief)
GSID Station # 57161

TBM 07 15 L23566

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 07 15 L23566

NGS Name: TBM 07 15

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9101](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	2	50 N	17 W	465044.00	922752.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2019)

Stamping:

6.78 MILES SOUTHEAST OF BROOKSTON, 1.0 MILE SOUTH ALONG COUNTY HIGHWAY 31/2ND AVENUE FROM THE JUNCTION OF COUNTY HIGHWAY 31/2ND AVENUE AND MCCAMUS ROAD, THEN 6.7 MILES EAST ON TRUNK HIGHWAY 2E, THEN 315.0 FEET NORTH, MOST LIKELY TO THE EAST SIDE OF A DRIVEWAY.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.331 12B = -94.317 09 = -94.226 03 = -94.039

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57161.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57161.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 07 2 L23566

NGS Name: TBM 07 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9086](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	17	51 N	20 W	465413.00	925328.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description:

Stamping:

2.22 MILES SOUTHEAST OF FLOODWOOD, 2.1 MILES SOUTHEAST ALONG TRUNK HIGHWAY 2E FROM THE JUNCTION OF TRUNK HIGHWAY 2E AND WEST 7TH AVENUE

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.154 12B = -95.134 09 = -95.052 03 = -94.941

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57162.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57162.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 07 3 L23566

NGS Name: TBM 07 3

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9087](#) [Get Map](#)
NGS Quad / Sta Num : 46092441/
USGS Quad: MCCARTY RIVER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	21	51 N	20 W	465258.00	925211.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

MNDT

Description:

Stamping:

1.67 MILES NORTHWEST OF GOWAN, 1.59 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86 IN GOWAN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.970 12B = -94.954 09 = -94.869 03 = -94.757

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57164.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57164.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 07 4 L23566

NGS Name: TBM 07 4

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	6	50 N	19 W	465106.00	924820.00		

NGS ACRN: [AL9088](#)

[Get Map](#)

NGS Quad / Sta Num : 46092442/

USGS Quad: GOWAN

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

MNDT

Description:

Stamping:

2.08 MILES SOUTHEAST OF GOWAN, 2.37 MILES SOUTHEAST AND EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86 IN GOWAN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.675 12B = -94.662 09 = -94.577 03 = -94.458

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57167.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57167.pdf



Geodetic Data Sheet (Brief)
GSID Station # 57169

TBM 07 5 L23566

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 07 5 L23566

NGS Name: TBM 07 5

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9089](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	33	51 N	19 W	465112.00	924505.00			1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION
<u>Monument Type</u>						<u>Disk Type</u>						<u>Mon. Agency</u>			
IRON ROD						UNMONUMENTED						MNDT			

Description:

Stamping:

4.59 MILES SOUTHEAST OF GOWAN, 4.93 MILES SOUTHEAST AND EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86 IN GOWAN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.678 12B = -94.665 09 = -94.580 03 = -94.455

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57169.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57169.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 07 6 L23566

NGS Name: TBM 07 6

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9090](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	34	51 N	19 W	465116.00	924355.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

MNDT

Description:

Stamping:

6.14 MILES SOUTHWEST OF BROOKSTON, 1.0 MILE SOUTH ALONG COUNTY HIGHWAY 31/2ND AVENUE FROM THE JUNCTION OF COUNTY HIGHWAY 31/2ND AVENUE AND MCCAMUS ROAD, THEN 4.9 MILES WEST ON TRUNK HIGHWAY 2E.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.678 12B = -94.665 09 = -94.586 03 = -94.458

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57171.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57171.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 07 7 L23566

NGS Name: TBM 07 7

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9091](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	50 N	19 W	465117.00	924230.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description:

Stamping:

6.66 MILES SOUTHEAST OF GOWAN, 6.96 MILES SOUTHEAST AND EAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86 IN GOWAN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.675 12B = -94.665 09 = -94.583 03 = -94.452

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57173.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57173.pdf



Geodetic Data Sheet (Brief)
GSID Station # 57852

TBM 07 8 L23566

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 07 8 L23566

NGS Name: TBM 07 8

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1063](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	1	50 N	19 W	465119.00	924111.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2017	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PILES AND POLES	SPIKE	MNDT

Description:

Stamping:

4.6 MILES WEST-SOUTHWEST FROM BROOKSTON, STATION TBM 07 8 L23566 IS LOCATED ABOUT 4.2 MILES WEST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION WITH COUNTY ROAD 31, JUST SOUTH OF BROOKSTON AND ABOUT 0.6 MILE EAST OF THE ENTRANCE TO THE ARROWHEAD TOWN HALL, 400.0 FEET WEST OF TRUNK HIGHWAY 2.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1333. 144 0. 016	406. 343 0. 005	2/0	1991 00000025

Geoid Separations(ft): GEOID18 = -94.678 12B = -94.668 09 = -94.586 03 = -94.449

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57852.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57852.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 07 9 L23566

NGS Name: TBM 07 9

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9092](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	33	51 N	18 W	465118.00	923738.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

MNDT

Description:

Stamping:

1.43 MILES SOUTHWEST OF BROOKSTON, 1.0 MILE SOUTH ALONG COUNTY HIGHWAY 31/2ND AVENUE FROM THE JUNCTION OF COUNTY HIGHWAY 31/2ND AVENUE AND MCCAMUS ROAD, THEN 1.1 MILES WEST ON TRUNK HIGHWAY 2E.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.659 12B = -94.659 09 = -94.563 03 = -94.409

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57176.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57176.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 08 1 L23563

NGS Name: TBM 08 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [ZZ4026](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	1	50 N	17 W	465041.00	922639.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

MNDT

Description:

Stamping:

7.73 MILES SOUTHEAST OF BROOKSTON, 1.0 MILE SOUTH ALONG COUNTY HIGHWAY 31/2ND AVENUE FROM THE JUNCTION OF COUNTY HIGHWAY 31/2ND AVENUE AND MCCAMUS ROAD, THEN 7.6 MILES EAST ON TRUNK HIGHWAY 2E.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1347. 212	0. 016	410. 631	0. 005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -94.271 12B = -94.258 09 = -94.163 03 = -93.973

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57194.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57194.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 1 L L12572-6

NGS Name: TBM 1 L

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [ZZ1477](#) [Get Map](#)
NGS Quad / Sta Num : 47092323/
USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	21	53 N	19 W	470410.00	924440.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

NGS

Description:

Stamping:

0.6 MILE SOUTHWEST OF MEADOWLAND, 0.6 MILE WEST ALONG COUNTY HIGHWAY 133 FROM THE JUNCTION OF
COUNTY HIGHWAY 133 AND CENTRAL AVENUE

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1275.798	0.016	388.864	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -96.765 12B = -96.758 09 = -96.673 03 = -96.493

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61653.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61653.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 1 L7034-10

NGS Name: TBM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [BC6115](#) [Get Map](#)
NGS Quad / Sta Num : 47092322/
USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	9	53 N	17 W	470515.00	923047.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1935	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

3.88 MILES NORTHWEST OF CANYON, 3.23 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON, THEN 1.94 MILES WEST ALONG COUNTY ROAD 232.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.732 12B = -96.735 09 = -96.598 03 = -96.411

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59051.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_59051.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 1 L7034-13

NGS Name: TBM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [BC7617](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	30	52 N	17 W	465754.00	923204.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1935	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

1.97 MILES SOUTHEAST OF ALBORN, 0.93 MILE SOUTHEAST ALONG COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND COUNTY ROAD 166, SOUTHEAST OF ALBORN, THEN CONTINUE 1.06 MILES SOUTHEAST ALONG COUNTY ROAD 47, THEN 0.11 MILE NORTH ALONG NORTH SCHELIN ROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.610 12B = -95.600 09 = -95.476 03 = -95.295

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59052.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_59052.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 1 L7034-7

NGS Name: TBM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [BC4982](#) [Get Map](#)
NGS Quad / Sta Num : 47092321/
USGS Quad: KELSEY

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	16	54 N	17 W	471008.00	923039.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1935	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

1.55 MILES WEST OF COTTON, 1.63 MILES WEST ALONG COUNTY ROAD 52 FROM THE JUNCTION OF COUNTY ROAD 52 AND TRUNK HIGHWAY 53.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.454 12B = -97.454 09 = -97.349 03 = -97.155

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59055.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_59055.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 1 VWITT

NGS Name: TBM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092233/

USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	16	53 N	17 W	470409.10	922936.70		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2007	GOOD	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

Monument Type

OBJECT DRIVEN INTO THE GROUND

Disk Type

METAL ROD

Mon. Agency

MNDT

Description: (2007)

Stamping:

2.3 MILES NORTHWEST OF CANYON, 2.0 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON, THEN 1.0 MILE WEST ON COUNTY ROAD 133, 31.0 FEET NORTH OF COUNTY ROAD 133.

Station Notes

THE MARK IS AN IRON PIN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.516 12B = -96.522 09 = -96.374 03 = -96.191

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66640.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66640.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 10 VWITT

NGS Name: TBM 10

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092323/

USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	13	53 N	19 W	470418.20	924052.60		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2007	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

PILES AND POLES

Disk Type

SPIKE

Mon. Agency

MNDT

Description: (2007)

Stamping:

2.5 MILES EAST OF MEADOWLANDS, 2.5 MILES EAST ALONG COUNTY ROAD 133 FROM THE JUNCTION OF COUNTY ROAD 133 AND WESTERN AVENUE (ANDREW'S JUNCTION ROAD) IN MEADOWLANDS, THE SOUTH SIDE OF COUNTY ROAD 133, AND 50.0 FEET WEST OF COUNTY ROAD 209 EXTENDED.

Station Notes

THE MARK IS A RAILROAD SPIKE IN THE NORTH SIDE OF A POWER POLE WITH GUY WIRES.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.785 12B = -96.778 09 = -96.680 03 = -96.496

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66641.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66641.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 11 A L24513

NGS Name: TBM 11 A

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AK7855](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	51 N	17 W	465134.00	922738.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	1978	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description:

Stamping:

0.78 MILES WEST OF SAGINAW, 0.6 MILE SOUTH ALONG COUNTY ROAD 875 FROM THE JUNCTION OF COUNTY ROAD 875 AND COUNTY ROAD 46 IN SAGINAW, THEN 0.7 MILE WEST-NORTHWEST ALONG COUNTY ROAD 873, THEN 0.33 MILE NORTH ALONG TRUNK HIGHWAY 33

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.445 12B = -94.436 09 = -94.337 03 = -94.147

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59421.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_59421.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 11 B L24513

NGS Name: TBM 11 B

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AK7856](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	51 N	17 W	465210.00	922740.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	1978	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description:

Stamping:

1.06 MILES NORTHWEST OF SAGINAW, 0.82 MILE NORTHWEST ALONG COUNTY ROAD 46 FROM THE JUNCTION OF COUNTY ROAD 46 AND COUNTY ROAD 875 IN SAGINAW, THEN 0.23 MILE NORTH TO EXIT FROM COUNTY ROAD 46 TO TRUNK HIGHWAY 33, THEN 0.3 MILE NORTH OF TRUNK HIGHWAY 33, THEN MAKE A U-TURN, 87.45 SOUTHWEST OF SMITH ROAD, THEN 0.2 MILE SOUTH ON TRUNK HIGHWAY 33, 0.07 MILE WEST FROM THE CENTERLINE OF TRUNK HIGHWAY 33.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.537 12B = -94.531 09 = -94.426 03 = -94.235

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59425.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_59425.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 11 C L24513

NGS Name: TBM 11 C

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AK7857](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	23	51 N	17 W	465302.00	922800.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	1978	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description:

Stamping:

2.02 MILES NORTHWEST OF SAGINAW, 0.82 MILE NORTHWEST ALONG COUNTY ROAD 46 FROM THE JUNCTION OF COUNTY ROAD 46 AND COUNTY ROAD 875 IN SAGINAW, THEN 0.23 MILE NORTH TO EXIT FROM COUNTY ROAD 46 TO TRUNK HIGHWAY 33, THEN 1.25 MILES NORTH-NORTHWEST ON TRUNK HIGHWAY 33.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.685 12B = -94.678 09 = -94.567 03 = -94.380

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59429.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_59429.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 11 D L24513

NGS Name: TBM 11 D

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AK7858](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	15	51 N	17 W	465407.00	922815.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	1978	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description:

Stamping:

3.18 MILES NORTHWEST OF SAGINAW, 0.82 MILE NORTHWEST ALONG COUNTY ROAD 46 FROM THE JUNCTION OF COUNTY ROAD 46 AND COUNTY ROAD 875 IN SAGINAW, THEN 0.23 MILE NORTH TO EXIT FROM COUNTY ROAD 46 TO TRUNK HIGHWAY 33, THEN 2.51 MILES NORTH-NORTHWEST ON TRUNK HIGHWAY 33, 203.0 FEET WEST OF BERG ROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.865 12B = -94.869 09 = -94.744 03 = -94.554

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59430.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_59430.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 11 E L24513

NGS Name: TBM 11 E

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AK7859](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	3	51 N	17 W	465554.00	922816.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	1978	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

1.9 MILES SOUTH OF INDEPENDENCE, 1.0 MILE SOUTHWEST ALONG TRUNK HIGHWAY 33 SOUTH FROM THE JUNCTION OF TRUNK HIGHWAY 33 SOUTH AND NEW INDEPENDENCE ROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.154 12B = -95.154 09 = -95.026 03 = -94.832

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59431.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_59431.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 11 F L24513

NGS Name: TBM 11 F

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AK7860](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	52 N	17 W	465701.00	922748.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	1978	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

MNDT

Description:

Stamping:

6.07 MILES SOUTH OF CANYON, 6.0 MILES SOUTH-SOUTHEAST ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 153 IN CANYON, THEN 0.49 MILE SOUTHWEST ALONG TRUNK HIGHWAY 33.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.311 12B = -95.308 09 = -95.180 03 = -94.987

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59432.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_59432.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 11 VWITT

NGS Name: TBM 11

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092323/

USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	24	53 N	19 W	470414.80	924206.90		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2007	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

Monument Type

PILES AND POLES

Disk Type

SPIKE

Mon. Agency

MNDT

Description: (2007)

Stamping:

1.5 MILES EAST OF MEADOWLANDS, 1.5 MILES EAST ALONG COUNTY ROAD 133 FROM THE JUNCTION OF COUNTY ROAD 133 AND WESTERN AVENUE (ANDREW'S JUNCTION ROAD) IN MEADOWLANDS, IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF COUNTY ROAD 133 AND COUNTY ROAD 47.

Station Notes

THE MARK IS A RAILROAD SPIKE IN THE NORTH SIDE OF A POWER POLE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.781 12B = -96.775 09 = -96.676 03 = -96.496

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66642.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66642.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 12 VWITT

NGS Name: TBM 12

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092323/

USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	16	53 N	19 W	470410.30	924439.40		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2007	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

PILES AND POLES

Disk Type

SPIKE

Mon. Agency

MNDT

Description: (2007)

Stamping:

0.5 MILE WEST OF MEADOWLANDS, 0.5 MILE EAST ALONG COUNTY ROAD 133 FROM THE JUNCTION OF COUNTY ROAD 133 AND WESTERN AVENUE (ANDREW'S JUNCTION ROAD) IN MEADOWLANDS, IN THE NORTHEAST QUADRANT OF THE INTERSECTION OF COUNTY ROAD 133 AND COUNTY ROAD 200.

Station Notes

THE MARK IS A RAILROAD SPIKE IN THE SOUTH SIDE OF A POWER POLE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.768 12B = -96.758 09 = -96.673 03 = -96.493

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66643.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66643.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 13 L L12572-11

NGS Name: TBM 13 L

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [ZZ1483](#)

[Get Map](#)

NGS Quad / Sta Num : 46092414/

USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	21	52 N	19 W	465809.00	924438.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

NGS

Description:

Stamping:

8.77 MILES NORTHEAST OF FLOODWOOD, 8.03 MILE EAST ALONG COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 AND TRUNK HIGHWAY 73 IN FLOODWOOD, THEN 2.97 MILES NORTH ALONG COUNTY ROAD 5, THEN 0.04 MILE WEST ALONG COUNTY ROAD 165.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1283.298	0.016	391.150	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -95.787 12B = -95.774 09 = -95.689 03 = -95.538

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59673.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_59673.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 13 VWITT

NGS Name: TBM 13

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092323/

USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	53 N	19 W	470318.00	924436.10		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2007	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

PILES AND POLES

Disk Type

SPIKE

Mon. Agency

MNDT

Description: (2007)

Stamping:

1.1 MILES SOUTHWEST OF MEADOWLANDS, 0.5 MILE EAST ALONG COUNTY ROAD 133 FROM THE JUNCTION OF COUNTY ROAD 133 AND WESTERN AVENUE (ANDREW'S JUNCTION ROAD) IN MEADOWLANDS, THEN 1.0 MILE SOUTH ALONG COUNTY ROAD 200, IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF COUNTY ROAD 200 AND ANDREW'S JUNCTION ROAD.

Station Notes

THE MARK IS A RAILROAD SPIKE IN THE WEST SIDE OF A POWER POLE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.630 12B = -96.621 09 = -96.535 03 = -96.358

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66644.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66644.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 14 L L12572-3

NGS Name: TBM 14 L

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [ZZ1473](#) [Get Map](#)
NGS Quad / Sta Num : 47093222/
USGS Quad: WAWINA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	8	53 N	21 W	470506.00	930058.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

NGS

Description:

Stamping:

5.40 MILE NORTHEAST OF WAWINA, 4.88 MILES NORTH AND EAST ALONG COUNTY ROAD 25 FROM THE JUNCTION OF COUNTY ROAD 25 AND TRUNK HIGHWAY 2 IN WAWINA, THEN CONTINUE 1.94 MILES EAST ALONG COUNTY ROAD 133.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1261. 513	0. 016	384. 510	0. 005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -96.614 12B = -96.607 09 = -96.558 03 = -96.388

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59873.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_59873.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 15 L L12572-6

NGS Name: TBM 15 L

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [ZZ1479](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	25	53 N	21 W	470310.00	925709.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

NGS

Description:

Stamping:

8.72 MILES NORTH OF FLOODWOOD, 9.72 MILES NORTHWEST ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND COUNTY ROAD 8 IN FLOODWOOD.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1248.971	0.016	380.687	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -96.479 12B = -96.466 09 = -96.424 03 = -96.240

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59996.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_59996.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 16 L L12572-5

NGS Name: TBM 16 L

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [ZZ1476](#) [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	18	54 N	19 W	471001.00	924831.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

NGS

Description:

Stamping:

0.11 MILE EAST OF TOIVOLA, 0.11 MILE EAST ALONG COUNTY ROAD 52 FROM THE JUNCTION OF COUNTY ROAD 52 AND COUNTY ROAD 5 IN TOIVOLA.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1267. 639	0. 016	386. 377	0. 005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -97.477 12B = -97.477 09 = -97.408 03 = -97.214

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59766.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_59766.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 2 L L12572-10

NGS Name: TBM 2 L

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [ZZ1481](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	6	51 N	20 W	465543.00	925502.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

NGS

Description:

Stamping:

IN FLOODWOOD, 131.0 FEET EAST ALONG 6TH AVENUE FROM THE JUNCTION OF 6TH AVENUE AND RAILROAD STREET,
THEN 267.0 FEET NORTH OF A ROAD.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1255.962	0.016	382.818	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -95.371 12B = -95.354 09 = -95.279 03 = -95.164

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_58090.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_58090.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 2 L7034-1

NGS Name: TBM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [BC6114](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	2	53 N	17 W	470631.00	922817.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1935	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

4.16 MILES SOUTH OF COTTON, 4.22 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.831 12B = -96.837 09 = -96.703 03 = -96.509

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_58200.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_58200.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 2 VWITT

NGS Name: TBM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092322/

USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	17	53 N	17 W	470409.30	923051.30		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2007	GOOD	Horz=NO Vert=NO	NO		RECESSED 2 IN.	SEE DESCRIPTION

Monument Type

OBJECT DRIVEN INTO THE GROUND

Disk Type

METAL ROD

Mon. Agency

MNDT

Description: (2007)

Stamping:

3.0 MILES NORTHWEST OF CANYON, 2.0 MILES NORTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON, THEN 2.0 MILES WEST ON COUNTY ROAD 133, 20.7 FEET NORTH OF COUNTY ROAD 133, 2.7 FEET SOUTH OF THE SOUTH LEG OF AN "ADOPT A HIGHWAY" SIGN.

Station Notes

THE MARK IS AN IRON PIN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.558 12B = -96.565 09 = -96.420 03 = -96.237

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66645.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66645.pdf



Geodetic Data Sheet (Brief)
GSID Station # 58248

TBM 20 L L12572-3

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 20 L L12572-3

NGS Name: TBM 20 L

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AX3993](#) [Get Map](#)
NGS Quad / Sta Num : 47093222/
USGS Quad: WAWINA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	4	53 N	21 W	470610.00	930039.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

NGS

Description:

Stamping:

13.26 MILES NORTH OF FLOODWOOD, 12.6 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, THEN 1.4 MILES WEST ON WAWINA ROAD, THEN 1.3 MILES NORTH ON CEDAR VALLEY ROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.726 12B = -96.719 09 = -96.673 03 = -96.502

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_58248.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_58248.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 3 L L12572-10

NGS Name: TBM 3 L

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [ZZ1482](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	6	51 N	20 W	465541.00	925452.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

NGS

Description:

Stamping:

IN FLOODWOOD, 0.7 MILE NORTH ALONG ELM STREET FROM THE JUNCTION OF ELM STREET AND COUNTY ROAD 30 IN FLOODWOOD.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1245. 808	0. 016	379. 723	0. 005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -95.367 12B = -95.348 09 = -95.272 03 = -95.157

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_58853.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_58853.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 3 L7034-1

NGS Name: TBM 3

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [ZZ1039](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	26	52 N	17 W	465733.00	922721.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1935	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

NGS

Description:

Stamping:

6.23 MILES NORTHWEST OF TWIG, 6.2 MILE NORTHWEST OF TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 885 (INDUSTRIAL ROAD) IN TWIG, 0.2 MILE NORTHEAST OF A GRAVEL ROAD, 80.0 FEET WEST OF A GRAVEL ROAD.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1308.646	0.016	398.876	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -95.374 12B = -95.367 09 = -95.243 03 = -95.046

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_58919.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_58919.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 3 VWITT

NGS Name: TBM 3

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092322/

USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	18	53 N	17 W	470410.20	923204.60		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2007	GOOD	Horz=NO Vert=NO	NO		RECESSED 2 IN.	SEE DESCRIPTION

Monument Type

OBJECT DRIVEN INTO THE GROUND

Disk Type

METAL ROD

Mon. Agency

MNDT

Description: (2007)

Stamping:

3.5 MILES SOUTHEAST OF PAYNE, 1.8 MILES SOUTH ALONG COUNTY ROAD 7 FROM PAYNE, THEN 3.0 MILES EAST ALONG COUNTY ROAD 133, 24.4 FEET NORTH OF COUNTY ROAD 133.

Station Notes

THE MARK IS AN IRON PIN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.601 12B = -96.601 09 = -96.463 03 = -96.283

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66646.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66646.pdf



Geodetic Data Sheet (Brief)
GSID Station # 61512

TBM 31 L L12572-3

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 31 L L12572-3

NGS Name: TBM 31 L

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [ZZ1471](#) [Get Map](#)
 NGS Quad / Sta Num : 47093212/
 USGS Quad: SILICA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	8	55 N	21 W	471559.00	930128.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

NGS

Description:

Stamping:

23.39 MILES NORTHWEST OF FLOODWOOD, 25.35 MILES NORTHWEST ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND COUNTY ROAD 8 IN FLOODWOOD.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1336.694	0.016	407.425	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -97.257 12B = -97.280 09 = -97.168 03 = -97.093

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61512.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61512.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 32 L L12572-3

NGS Name: TBM 32 L

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AX3992](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	32	55 N	21 W	471156.00	930134.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

NGS

Description:

Stamping:

16.31 MILES SOUTHWEST OF HIBBING, 14.9 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND WEST 41ST STREET, THEN 783.0 FEET WEST OF TRUNK HIGHWAY 73.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.077 12B = -97.083 09 = -97.011 03 = -96.880

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62124.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62124.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 33 A L23563

NGS Name: TBM 33 A

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9124](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	11	50 N	17 W	465013.00	922709.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description:

Stamping:

7.99 MILES NORTH OF CLOQUET, 7.49 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 45 IN CLOQUET.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.226 12B = -94.212 09 = -94.124 03 = -93.930

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62278.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62278.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 33 B L23563

NGS Name: TBM 33 B

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9125](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	14	50 N	17 W	464901.00	922701.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description:

Stamping:

6.62 MILES NORTH OF CLOQUET, 6.85 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 45 IN CLOQUET.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.048 12B = -94.029 09 = -93.947 03 = -93.753

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62280.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62280.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 33 C L23563

NGS Name: TBM 33 C

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9126](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	26	50 N	17 W	464731.00	922659.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

MNDT

Description:

Stamping:

4.88 MILES NORTH OF CLOQUET, 5.1 MILES NORTH ALONG TRUNK HIGHWAY 33/SUNNYSIDE DRIVE FROM THE JUNCTION OF TRUNK HIGHWAY 33/SUNNYSIDE DRIVE AND CLOQUET AVENUE, THEN 141.0 FEET WEST OF TRUNK HIGHWAY 33/SUNNYSIDE DRIVE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.819 12B = -93.802 09 = -93.717 03 = -93.527

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62282.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62282.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 33 D L23563

NGS Name: TBM 33 D

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9127](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	50 N	17 W	464629.00	922658.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description:

Stamping:

3.73 MILES NORTH OF CLOQUET, 3.93 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 45 IN CLOQUET.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.655 12B = -93.638 09 = -93.553 03 = -93.366

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62283.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62283.pdf



Geodetic Data Sheet (Brief)
GSID Station # 62600

TBM 35 L3601

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 35 L3601

NGS Name: TBM 35

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [BI8598](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	27	51 N	18 W	465247.00	923611.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

NGS

Description:

Stamping:

0.83 MILE NORTH OF BROOKSTON, 0.9 MILE NORTH ALONG 2ND AVENUE/ALBORN-BROOKSTON ROAD FROM THE JUNCTION OF 2ND AVENUE AND ST. LOUIS STREET, THEN 59.0 FEET WEST OF THE ROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.882 12B = -94.878 09 = -94.780 03 = -94.616

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62600.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62600.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 36 L3601

NGS Name: TBM 36

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [BI8599](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	11	51 N	18 W	465442.00	923446.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

1.38 MILES SOUTHWEST OF CULVER, 1.0 MILE WEST ALONG COUNTY HIGHWAY 8 FROM THE JUNCTION OF COUNTY HIGHWAY 8 AND COUNTY ROAD 7 (THE JUNCTION IS EAST OF CULVER), THEN 1.0 MILE SOUTH ALONG COUNTY ROAD 31, THEN 0.11 MILE WEST ALONG EKLUND ROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.154 12B = -95.154 09 = -95.042 03 = -94.872

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60359.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60359.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 39 L L12572-3

NGS Name: TBM 39 L

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [ZZ1472](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	7	54 N	21 W	471025.00	930240.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

4.36 MILES NORTHEAST OF GOODLAND, 3.43 MILES EAST ALONG COUNTY ROAD 20 FROM THE JUNCTION OF COUNTY ROAD 20 AND TRUNK HIGHWAY 65 (THE JUNCTION IS NORTH OF GOODLAND), THEN 0.62 MILE NORTHEAST ALONG COUNTY ROAD 18, THEN 0.52 MILE EAST ALONG COUNTY ROAD 184, THEN 0.06 MILE NORTHWEST ALONG COUNTY ROAD 443.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1319. 679 0. 016	402. 239 0. 005	2/0	1991 00000025

Geoid Separations(ft): GEOID18 = -96.958 12B = -96.958 09 = -96.896 03 = -96.758

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60682.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60682.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 4 VWITT

NGS Name: TBM 4

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 47092322/
USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	13	53 N	18 W	470411.50	923323.60			2007	2007	GOOD	Horz=NO Vert=NO	NO		RECESSED 2 IN.	SEE DESCRIPTION
<u>Monument Type</u>						<u>Disk Type</u>						<u>Mon. Agency</u>			
OBJECT DRIVEN INTO THE GROUND						METAL ROD						MNMT			

Description: (2007)

Stamping:

2.7 MILES SOUTHEAST OF PAYNE, 1.8 MILES SOUTH ALONG COUNTY ROAD 7 FROM PAYNE, THEN 2.0 MILES EAST ALONG COUNTY ROAD 133, 22.9 FEET NORTH OF COUNTY ROAD 133, 3.7 FEET SOUTHEAST OF A "TOWNSHIP OF MEADOWLANDS" SIGN POST.

Station Notes

THE MARK IS AN IRON PIN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.640 12B = -96.637 09 = -96.506 03 = -96.329

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66647.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66647.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 5 L3629

NGS Name: TBM 5

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [BJ8805](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	35	51 N	17 W	465145.00	922715.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

0.5 MILE NORTHWEST OF SAGINAW, 0.53 MILE NORTHWEST ALONG COUNTY ROAD 46 FROM THE JUNCTION OF COUNTY ROAD 46 AND VIBERT ROAD IN SAGINAW,

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.458 12B = -94.445 09 = -94.344 03 = -94.157

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62028.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62028.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 5 VWITT

NGS Name: TBM 5

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092322/

USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	14	53 N	18 W	470412.70	923437.90		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2007	GOOD	Horz=NO Vert=NO	NO		RECESSED 2 IN.	SEE DESCRIPTION

Monument Type

OBJECT DRIVEN INTO THE GROUND

Disk Type

METAL ROD

Mon. Agency

MNDT

Description: (2007)

Stamping:

2.0 MILES SOUTHEAST OF PAYNE, 1.8 MILES SOUTH ALONG COUNTY ROAD 7 FROM PAYNE, THEN 1.0 MILE EAST ALONG COUNTY ROAD 133, 28.0 FEET NORTH OF COUNTY ROAD 133, 14.4 FEET EAST OF AN ENTRANCE.

Station Notes

THE MARK IS AN IRON PIN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.673 12B = -96.670 09 = -96.545 03 = -96.365

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66648.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66648.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 6 L3629

NGS Name: TBM 6

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [BJ8806](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	18	51 N	17 W	465425.00	923221.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

0.82 MILE NORTHWEST OF BURNETT, 0.81 MILE NORTHWEST ALONG COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND COUNTY ROAD 694 IN BURNETT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.056 12B = -95.059 09 = -94.941 03 = -94.760

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60864.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60864.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 6 VWITT

NGS Name: TBM 6

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092322/

USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	14	53 N	18 W	470411.40	923554.30		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2007	GOOD	Horz=NO Vert=NO	NO		RECESSED 2 IN.	SEE DESCRIPTION

Monument Type

OBJECT DRIVEN INTO THE GROUND

Disk Type

METAL ROD

Mon. Agency

MNDT

Description: (2007)

Stamping:

1.8 MILES SOUTH OF PAYNE, 1.8 MILES SOUTH ALONG COUNTY ROAD 7 FROM PAYNE, 84.0 FEET EAST OF COUNTY ROAD 7, 28.6 FEET NORTH OF COUNTY ROAD 133, BETWEEN THE HEADWALL OF THE BOX CULVERTS.

Station Notes

THE MARK IS AN IRON PIN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.699 12B = -96.693 09 = -96.575 03 = -96.394

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66649.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66649.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 7 L L12572-6

NGS Name: TBM 7 L

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [ZZ1478](#) [Get Map](#)
NGS Quad / Sta Num : 47092332/
USGS Quad: ELMER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	19	53 N	19 W	470409.00	924736.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

NGS

Description:

Stamping:

2.88 MILES WEST OF MEADOWLAND, 2.9 MILES WEST ALONG COUNTY HIGHWAY 133 FROM THE JUNCTION OF COUNTY HIGHWAY 133 AND CENTRAL AVENUE

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1271. 123	0. 016	387. 439	0. 005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -96.745 12B = -96.729 09 = -96.663 03 = -96.483

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61722.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61722.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 7 VWITT

NGS Name: TBM 7

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092322/

USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	15	53 N	18 W	470409.60	923708.60		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2007	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

OBJECT DRIVEN INTO THE GROUND

Disk Type

METAL ROD

Mon. Agency

MNDT

Description: (2007)

Stamping:

2.0 MILES SOUTHWEST OF PAYNE, 1.8 MILES SOUTH ALONG COUNTY ROAD 7 FROM PAYNE, THEN 1.0 MILE WEST ALONG COUNTY ROAD 133, 44.5 FEET NORTH OF COUNTY ROAD 133, 10.5 FEET EAST OF AN ENTRANCE.

Station Notes

THE MARK IS AN IRON PIN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.716 12B = -96.706 09 = -96.598 03 = -96.414

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66650.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66650.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 8 VWITT

NGS Name: TBM 8

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092323/

USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	17	53 N	18 W	470416.70	923826.30		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2007	GOOD	Horz=NO Vert=NO	NO		RECESSED 2 IN.	SEE DESCRIPTION

Monument Type

OBJECT DRIVEN INTO THE GROUND

Disk Type

METAL ROD

Mon. Agency

MNDT

Description: (2007)

Stamping:

2.6 MILES SOUTHWEST OF PAYNE, 1.8 MILES SOUTH ALONG COUNTY ROAD 7 FROM PAYNE, THEN 2.0 MILES WEST ALONG COUNTY ROAD 133, 34.4 FEET NORTH OF COUNTY ROAD 133, 11.7 FEET EAST OF AN ENTRANCE AND A TRAIL.

Station Notes

THE MARK IS AN IRON PIN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.755 12B = -96.745 09 = -96.644 03 = -96.456

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66651.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66651.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 9 VWITT

NGS Name: TBM 9

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 47092323/
USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SW	17	53 N	18 W	470418.60	923940.50			2007	2007	GOOD	Horz=NO Vert=NO	NO		RECESSED 2 IN.	SEE DESCRIPTION
<u>Monument Type</u> OBJECT DRIVEN INTO THE GROUND												<u>Disk Type</u> METAL ROD		<u>Mon. Agency</u> MNMT	

Description: (2007)

Stamping:

3.4 MILES SOUTHWEST OF PAYNE, 1.8 MILES SOUTH ALONG COUNTY ROAD 7 IN PAYNE, THEN 3.0 MILES WEST ALONG COUNTY ROAD 133, 64.4 FEET NORTH OF COUNTY ROAD 133, 15.5 FEET EAST OF COUNTY ROAD 211, 1.4 FEET SOUTHWEST OF A "COUNTY ROAD 211" SIGN POST.

Station Notes

THE MARK IS AN IRON PIN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.775 12B = -96.765 09 = -96.666 03 = -96.483

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66652.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66652.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM K 1 L23566

NGS Name: TBM K 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9096](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	29	51 N	18 W	465222.00	923846.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

MNDT

Description:

Stamping:

2.03 MILES NORTHWEST OF BROOKSTON, 0.07 MILE NORTHWEST ALONG MACCAMUS ROAD FROM THE JUNCTION OF MCCAMUS ROAD AND COUNTY ROAD 31 IN BROOKSTON, THEN 0.34 MILE NORTHWEST ALONG ST. LOUIS STREET, THEN 1.60 MILES NORTHWEST ALONG COUNTY ROAD 856.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.832 12B = -94.826 09 = -94.734 03 = -94.593

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60634.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60634.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM K 2 L23566

NGS Name: TBM K 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9095](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	28	51 N	18 W	465218.00	923758.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

MNDT

Description:

Stamping:

1.39 MILES NORTHWEST OF BROOKSTON, 0.07 MILE NORTHWEST ALONG MACCAMUS ROAD FROM THE JUNCTION OF MCCAMUS ROAD AND COUNTY ROAD 31 IN BROOKSTON, THEN 0.34 MILE NORTHWEST ALONG ST. LOUIS STREET, THEN 0.96 MILE NORTHWEST ALONG COUNTY ROAD 856.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.816 12B = -94.813 09 = -94.721 03 = -94.570

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60635.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60635.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM K 3 L23566

NGS Name: TBM K 3

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AL9094](#) [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	28	51 N	18 W	465214.00	923712.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

IRON ROD

Disk Type

UNMONUMENTED

Mon. Agency

MNDT

Description:

Stamping:

0.78 MILE NORTHWEST OF BROOKSTON, 0.07 MILE NORTHWEST ALONG MACCAMUS ROAD FROM THE JUNCTION OF MCCAMUS ROAD AND COUNTY ROAD 31 IN BROOKSTON, THEN 0.34 MILE NORTHWEST ALONG ST. LOUIS STREET, THEN 0.36 MILE NORTHWEST ALONG COUNTY ROAD 856.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.803 12B = -94.800 09 = -94.708 03 = -94.550

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60636.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60636.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107901

TELLOR

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TELLOR

NGS Name: TELLOR

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9907](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	31	51 N	19 W	465109.30	924733.41	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 22 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: TELLOR 2017

7.7 MILES SOUTHEAST OF FLOODWOOD, 7.85 MILES SOUTHEAST AND EAST ALONG TRUNK HIGHWAY 2 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 228.95, 43.2 FEET NORTH OF TRUNK HIGHWAY 2, 1.5 FEET SOUTH OF A WITNESS POST.

Station Pair: MECKOLA - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1324. 820 0. 016	403. 806 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.678 12B = -94.668 09 = -94.580 03 = -94.465

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/TELLOR-DQ9907-3N-07AUG2017.jpg	N	Aug 7, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/TELLOR-DQ9907-2-07AUG2017.jpg		Aug 7, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/TELLOR-DQ9907-1-07AUG2017.jpg		Aug 7, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107901.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107901.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TOIVOLA

NGS Name: TOIVOLA

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ2199](#) [Get Map](#)
NGS Quad / Sta Num : 47092331/1019
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	12	54 N	20 W	471003.34	924904.40		1

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO		PROJECTS 3 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

Description: (1952)

Stamping: TOIVOLA 1952

IN TOIVOLA, JUST WEST OF A LOOKOUT TOWER, 71.0 FEET WEST OF BUILDING NUMBER 527, 16.0 FEET EAST OF A FENCE LINE AND A WITNESS POST, 116.01 FEET WEST-NORTHWEST OF TOIVOLA RM 1, 83.25 FEET NORTHWEST OF TOIVOLA RM 2.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.467 12B = -97.467 09 = -97.401 03 = -97.208

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	47 10 03.34298	92 49 04.40037	408483.548	289007.574	124506.034	88089.685	362.343	1	1999	17648
NAD83 (1986)	47 10 03.34201	92 49 04.40402	408483.295	289007.477	124505.957	88089.655		1	1986	17289
NAD27	47 10 03.56300	92 49 03.70300						1	1954	10724

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29444.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29444.pdf



Geodetic Data Sheet (Brief)
GSID Station # 79120

TOIVOLA AZ MK

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TOIVOLA AZ MK

NGS Name: TOIVOLA AZ MK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ2912](#) [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	12	54 N	20 W	471002.00	924916.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO		PROJECTS 3 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	NGS

Description: (2019)

Stamping: TOIVOLA 1952

0.15 MILE WEST OF STATION TOIVOLA, 36.0 FEET NORTHEAST OF THE ROAD INTERSECTION, 3.0 FEET NORTH OF A WITNESS POST, 2.0 FEET NORTHEAST OF A FENCE CORNER.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.460 12B = -97.460 09 = -97.395 03 = -97.201

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_79120.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_79120.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TOIVOLA LOOKOUT TOWER

NGS Name: TOIVOLA LOOKOUT TOWER

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ2198](#) [Get Map](#)
NGS Quad / Sta Num : 47092331/1035
USGS Quad: TOIVOLA

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	12	54 N	20 W	471003.43	924902.50		4

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1952	1952	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type	Disk Type	Mon. Agency
SEE DESCRIPTIVE TEXT	LOOKOUT TOWER	NGS

Description: (1952) **Stamping:**

ON THE TOIVOLA LOOKOUT TOWER.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.467 12B = -97.467 09 = -97.401 03 = -97.208

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (1996)	47 10 03. 43180	92 49 02. 49684	408615. 123	289015. 956	124546. 139	88092. 240		4	1999	17648
NAD83 (1986)	47 10 03. 43048	92 49 02. 50107	408614. 830	289015. 824	124546. 049	88092. 199		4	1986	17289
NAD27	47 10 03. 65300	92 49 01. 79900						4	1954	10724

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29445.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29445.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TOIVOLA RM 1

NGS Name: TOIVOLA RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ2913](#) [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	12	54 N	20 W	471003.08	924902.77		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

REFERENCE MARK DISK

Mon. Agency

NGS

Description:

Stamping: TOIVOLA NO 1 1952

1.5 FEET SOUTH OF A TOOL BUILDING, 19.0 FEET SOUTHEAST OF BUILDING NUMBER 211, AND 21.0 FEET EAST OF A DRIVEWAY.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.467 12B = -97.467 09 = -97.401 03 = -97.208

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_79121.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_79121.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TOIVOLA RM 2

NGS Name: TOIVOLA RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ2914](#) [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>				
SE	12	54 N	20 W	471002.68	924903.70						
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>				
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION				
<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>									
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS									

Description:

Stamping: TOIVOLA NO 2 1952

35.0 FEET SOUTH OF BUILDING NUMBER 271, AND 12.0 FEET EAST OF A DRIVEWAY.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.467 12B = -97.467 09 = -97.401 03 = -97.208

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_79122.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_79122.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TONIK MNDT

NGS Name: TONIK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AC5027](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	32	51 N	19 W	465110.47	924624.72	2	B

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1995	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	MARKER IS STEEL ROD

Monument Type	Disk Type	Mon. Agency
STEEL ROD (NO SLEEVE) (DEPTH 16 FT)	METAL ROD	MNDT

Description: (2019) **Stamping:** TONIK 1995

8.5 MILES SOUTHEAST OF FLOODWOOD, 8.75 MILES SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE SOUTH JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 229.8, 86.0 FEET NORTH OF TRUNK HIGHWAY 2, 147.3 FEET WEST-SOUTHWEST OF A POWER POLE, 14.9 FEET NORTH-NORTHEAST OF THE WEST END OF A 21.0 INCH DIAMETER METAL CULVERT, 10.3 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	1325.089 0.016	403.888 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.678 12B = -94.668 09 = -94.583 03 = -94.462

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid	Surv	Project Info	
	Latitude	Longitude	X	Y	X	Y	Hgt (m)	Ord	Year	Reference
NAD83 (2011)	46 51 10.46763	92 46 24.72442	419043.426	174175.811	127724.692	53088.893	375.026		2012	GPS2800
NAD83 (2007)	46 51 10.46775	92 46 24.72528	419043.367	174175.824	127724.674	53088.897	375.054		2007	GPS2300
NAD83 (1996)	46 51 10.46729	92 46 24.72475	419043.403	174175.777	127724.685	53088.883	375.082	B	2004	GPS1954

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/TONIK-AC5027-3N-25JUL2017.jpg	N	Jul 25, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/TONIK-AC5027-2-25JUL2017.jpg		Jul 25, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/TONIK-AC5027-1-25JUL2017.jpg		Jul 25, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29446.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29446.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 10 RMC

NGS Name: TT 10 RMC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	27	51 N	21 W	465250.00	925828.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	1958	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

Description: (1958) **Stamping:** 10 RMC 1958

3.0 MILES SOUTH AND 3.0 MILES WEST OF FLOODWOOD, 60.0 FEET NORTH AND 16.0 FEET WEST OF COUNTY ROAD 831 AT A DRIVE EAST, 2.0 FEET SOUTHEAST OF A FENCE CORNER.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.898 12B = -94.888 09 = -94.796 03 = -94.698

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29458.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29458.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 11 RMC

NGS Name: TT 11 RMC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	34	51 N	21 W	465155.00	925944.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	1958	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

Description: (1958) **Stamping:** 11 RMC 1958

4.0 MILES SOUTH AND 4.0 MILES WEST OF FLOODWOOD, 0.5 MILE WEST OF THE ANDREW HEISKARIS FARMHOUSE, AT A SOUTHWEST CORNER OF A CLEARED FIELD, 6.0 FEET SOUTH AND 2.0 FEET EAST OF A FENCE CORNER, 27.0 FEET EAST OF A SPOIL BANK.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.741 12B = -94.737 09 = -94.639 03 = -94.540

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29463.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29463.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29465

TT 11 T

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 11 T

NGS Name: TT 11 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 46092412/

USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	27	50 N	18 W	464653.00	923549.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1952)

Stamping: TT 11 T 1952

4.0 MILES NORTH AND 6.0 MILES WEST OF CLOQUET, 85.0 FEET NORTH AND 85.0 FEET WEST OF THE CROSSROADS (COUNTY ROAD 31 AND COUNTY ROAD 851), 2.0 FEET WEST OF A NORTH-SOUTH FENCE, 113.0 FEET SOUTHEAST OF A CORNER OF A SCHOOL BUILDING, ON LINE WITH THE SOUTH FACE OF A BUILDING.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.881 12B = -93.881 09 = -93.806 03 = -93.632

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29465.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29465.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 12 RMC

NGS Name: TT 12 RMC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>	<u>Mon. Agency</u>
NE	21	50 N	21 W	464837.00	925949.00			1958	1958	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION	USGS
Monument Type CONCRETE MONUMENT (CAST-IN-PLACE)																
Disk Type SEE DESCRIPTION																
Mon. Agency USGS																

Description: (1958)

Stamping: 12 RMC 1958

8.0 MILES SOUTH AND 4.0 MILES WEST OF FLOODWOOD, 0.5 MILE WEST OF THE T G LE BRUN FARMHOUSE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.206 12B = -94.212 09 = -94.104 03 = -94.009

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29468.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29468.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 12 T

NGS Name: TT 12 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 46092412/

USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	22	50 N	18 W	464834.00	923549.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1952)

Stamping: TT 12 T 1952

6.0 MILES NORTH AND 6.0 MILES WEST OF CLOQUET, 140.0 FEET SOUTH AND 29.0 FEET WEST OF COUNTY ROAD 31 AT A TEE-ROAD WEST, 300.0 FEET SOUTHWEST OF A HOUSE, 2.0 FEET WEST OF A RIGHT-OF-WAY FENCE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.180 12B = -94.176 09 = -94.091 03 = -93.920

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29470.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29470.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 13 RMC

NGS Name: TT 13 RMC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 46092443/

USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	14	50 N	21 W	464835.00	925715.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	1958	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1958)

Stamping: 13 RMC 1958

8.0 MILES SOUTH AND 2.0 MILES WEST OF FLOODWOOD, 32.0 FEET NORTH OF A ROAD, ON THE TOP OF A SMALL KNOLL,
4.0 FEET WEST OF A POWER POLE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.226 12B = -94.226 09 = -94.124 03 = -94.025

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29473.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29473.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 13 T

NGS Name: TT 13 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 46092412/
USGS Quad: BROOKSTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	10	50 N	18 W	465010.00	923549.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1960	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (2008)

Stamping: TT 13 T 1952

8.0 MILES NORTH AND 6.0 MILES WEST OF CLOQUET. 800.0 FEET SOUTH AND 29.0 FEET EAST OF THE CORNER OF SECTIONS 2,3,10 AND 11. 207.0 FEET SOUTHWEST OF A STONE ROOT CELLAR. 168.0 FEET NORTHWEST OF THE OLD HOUSE FOUNDATION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.452 12B = -94.452 09 = -94.353 03 = -94.193

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_78874.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_78874.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 14 RMC

NGS Name: TT 14 RMC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	50 N	21 W	464653.00	925801.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	1958	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

Description: (1958) **Stamping:** 14 RMC 1958

10.0 MILES SOUTH AND 2.0 MILES WEST OF FLOODWOOD, 32.0 FEET NORTH AND 36.0 FEET WEST OF COUNTY ROAD 51 AT
A TEE-ROAD NORTH, 4.0 FEET SOUTHWEST OF A POLE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.914 12B = -93.917 09 = -93.819 03 = -93.717

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29477.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29477.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 14 T

NGS Name: TT 14 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>				
NE	22	51 N	18 W	465351.00	923603.00						
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>				
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION				
<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>									
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS									

Description: (2019)

Stamping: TT 14 T 1952

2.2 MILES NORTH OF BROOKSTON, 33.0 FEET SOUTH AND 437.0 FEET EAST OF THE JUNCTION OF COUNTY ROAD 31 (SOUTH AND EAST) AND COUNTY ROAD 857 (WEST), 42.0 FEET WEST OF A GATE TO A CEMETERY, 400.0 FEET NORTHEAST OF THE CULVER TOWN HALL, 2.0 FEET NORTH OF A SOUTH RIGHT-OF-WAY FENCE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.039 12B = -95.039 09 = -94.934 03 = -94.773

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29478.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29478.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29481

TT 15 T USGS

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 15 T USGS

NGS Name: TT 15 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1653](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/1010
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	12	51 N	18 W	465446.68	923431.68		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1992	GOOD	Horz=? Vert=YES	NO		PROJECTS 12 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (2008)

Stamping: 1318 TT 15 T 1952

4.0 MILES SOUTH OF ALBORN, 0.95 MILE WEST OF COUNTY ROAD 7, 0.95 MILE SOUTH OF COUNTY ROAD 8, 38.0 FEET EAST OF COUNTY ROAD 31, 34.0 FEET SOUTH-SOUTHEAST OF A TELEPHONE POLE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.164 12B = -95.164 09 = -95.049 03 = -94.878

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 54 46.68121	92 34 31.68026	468640.016	195940.327	142841.763	59722.731	373.082	2	1999	17648		
NAD83 (1986)	46 54 46.67534	92 34 31.68133	468639.941	195939.732	142841.740	59722.550		2	1986	17289		
NAD27	46 54 46.88800	92 34 30.99500						2	1956	11100		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29481.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29481.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 16 RMC

NGS Name: TT 16 RMC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092334/

USGS Quad: UPSTEAD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	18	55 N	20 W	471447.00	925535.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	1958	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

ROCK (0 TO 1 METERS)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1958)

Stamping: 16 RMC 1958

5.3 MILES NORTH AND 5.4 MILES WEST OF TOIVOLA, 61 RAILS SOUTH OF RAILROAD MILEPOST 4, 14 RAILS SOUTH OF A HANDCAR SIDING WEST, 35.0 FEET WEST OF THE WEST RAIL OF A RAILROAD, IN THE TOP OF A 4.0 FEET BY 2.0 FEET WHITE GRANITE BOULDER.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.480 12B = -97.483 09 = -97.408 03 = -97.293

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29484.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29484.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 16 T

NGS Name: TT 16 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 46092411/

USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	51 N	18 W	465620.00	923510.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (2008)

Stamping: TT 16 T 1952

2.5 MILES SOUTH AND 0.2 MILE WEST OF ALBORN, 550.0 FEET SOUTH AND 30.0 FEET EAST OF COUNTY ROAD 570 AT A TEE-ROAD EAST (COUNTY ROAD 143).

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.420 12B = -95.410 09 = -95.298 03 = -95.134

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29486.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29486.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 17 RMC

NGS Name: TT 17 RMC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 47092334/
USGS Quad: UPSTEAD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	31	55 N	20 W	471232.00	925530.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	1958	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

Description: (1958) **Stamping:** 17 RMC 1958

3.0 MILES NORTH AND 5.3 MILES WEST OF TOIVOLA, 224.0 FEET SOUTH OF RAILROAD MILEPOST 1, AND 34.0 FEET EAST OF THE EAST RAIL OF THE RAILROAD TRACKS, 4.0 FEET EAST OF A TELEPHONE POLE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.388 12B = -97.392 09 = -97.323 03 = -97.175

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29490.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29490.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 17 T

NGS Name: TT 17 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 47092324/
USGS Quad: MEADOWLANDS NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>	<u>Mon. Agency</u>
SE	22	55 N	19 W	471334.00	924334.00			1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION	USGS
<u>Monument Type</u> CONCRETE MONUMENT (CAST-IN-PLACE)																
<u>Disk Type</u> SEE DESCRIPTION																
<u>Mon. Agency</u> USGS																

Description: (2019)

Stamping: TT 17 T 1952

11.0 MILES NORTH AND 0.5 MILE EAST OF MEADOWLANDS, 240.0 FEET NORTH AND 42.0 FEET WEST OF COUNTY ROAD 83
AT A TEE-ROAD WEST, 2.0 FEET WEST OF A WEST RIGHT-OF-WAY FENCE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.818 12B = -97.811 09 = -97.746 03 = -97.588

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29492.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29492.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 18 RMC

NGS Name: TT 18 RMC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 47092334/
USGS Quad: UPSTEAD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	5	54 N	20 W	471108.00	925418.00			1958	1958	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION
<u>Monument Type</u> CONCRETE MONUMENT (CAST-IN-PLACE)												<u>Disk Type</u> SEE DESCRIPTION		<u>Mon. Agency</u> USGS	

Description: (1958)

Stamping: 18 RMC 1958

1.5 MILES NORTH AND 4.5 MILES WEST OF TOIVOLA, 29 RAILS NORTH OF RAILROAD MILEPOST 22, 52.0 FEET SOUTH AND 42.0 FEET EAST OF A RAILROAD AT A DRAIN CROSSING, 3.0 FEET WEST OF A TELEPHONE POLE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.372 12B = -97.372 09 = -97.313 03 = -97.132

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29495.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29495.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 18 T

NGS Name: TT 18 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 47092324/
USGS Quad: MEADOWLANDS NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>	<u>Mon. Agency</u>
SW	27	55 N	19 W	471240.00	924448.00			1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION	USGS
Monument Type CONCRETE MONUMENT (CAST-IN-PLACE)																
Disk Type SEE DESCRIPTION																
Mon. Agency USGS																

Description: (2019)

Stamping: TT 18 T 1952

10.0 MILES NORTH AND 0.5 MILE WEST OF MEADOWLAND, 38.0 FEET NORTH AND 174.0 FEET EAST OF COUNTY ROAD 83
AT A TEE-ROAD NORTH, 3.0 FEET NORTH OF A NORTH RIGHT-OF-WAY FENCE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.752 12B = -97.749 09 = -97.677 03 = -97.513

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29497.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29497.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 19 RMC

NGS Name: TT 19 RMC

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	53 N	21 W	470446.72	925902.48		

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092333/

USGS Quad: TOIVOLA SW

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	2017	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

Monument Type

CONCRETE POST (PREFABRICATED)

Disk Type

BENCH MARK DISK

Mon. Agency

USGS

Description:

Stamping: TT 19 RMC 1958

10.6 MILES NORTH OF FLOODWOOD, 12.1 MILES NORTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, 76.0 FEET NORTH OF A DRIVEWAY, 48.0 FEET EAST OF TRUNK HIGHWAY 73.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.634 12B = -96.627 09 = -96.581 03 = -96.401

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/TT_19_RMC-3S-13JUL2017.jpg	S	Jul 13, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_74822.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_74822.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 19 T

NGS Name: TT 19 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	4	54 N	19 W	471145.00	924606.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

Description: (1952) **Stamping:** TT 19 T 1952

9.0 MILES NORTH AND 1.5 MILES WEST OF MEADOWLANDS, 191.0 FEET SOUTH AND 23.0 FEET EAST OF A NORTH-SOUTH ROAD AT A TEE LANE WEST, 400.0 FEET NORTHWEST OF A HOUSE, 400.0 FEET SOUTHEAST OF AN OLD LOG HOUSE, 215.0 FEET SOUTH OF A FENCE CORNER, 13.0 FEET WEST OF A POWER POLE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.670 12B = -97.670 09 = -97.598 03 = -97.421

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29501.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29501.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 20 RMC

NGS Name: TT 20 RMC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 47092332/
USGS Quad: ELMER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	12	52 N	20 W	470534.01	924901.34		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	1958	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	USGS

Description: **Stamping:** TT 20 RMC 1958

4.1 MILES NORTHWEST MEADOWLANDS, 2.2 MILES WEST ALONG TRUNK HIGHWAY 133 FROM THE JUNCTION OF TRUNK HIGHWAY 133 AND TRUNK HIGHWAY 29 WEST OF MEADOWLANDS, THEN 2.0 MILES NORTH ON TRUNK HIGHWAY 5, THEN 1.1 MILES WEST ON COUNTY ROAD 193 (BAILEY ROAD), THEN 0.3 MILE SOUTH ON COUNTY ROAD 195 (CONDOR ROAD), 6.0 FEET SOUTH AND 15.0 FEET WEST OF A TEE-ROAD, AT A FENCE WEST, 6.0 FEET SOUTH AND 1.0 FOOT EAST OF A FENCE CORNER, GRID AZIMUTH TO CENTER BALL ON THE EAST GABLE OF A BARN 700.0 FEET DISTANT "16 30 45", GRID AZIMUTH TO THE CENTER OF THE SOUTH EAVE ON A HOUSE ABOUT 500.0 FEET DISTANT "15 09 45".

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.936 12B = -96.916 09 = -96.863 03 = -96.673

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_74819.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_74819.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 20 T

NGS Name: TT 20 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	28	54 N	19 W	470818.00	924604.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

Description: (2019)

Stamping: TT 20 T 1952

5.0 MILES NORTH AND 1.5 MILES WEST OF MEADOWLANDS, 27.0 FEET SOUTH AND 285.0 FEET EAST OF A POINT OF THE INTERSECTION OF THE ROADS NORTH AND EAST, 2.0 FEET SOUTH OF A SOUTH RIGHT-OF-WAY FENCE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.336 12B = -97.329 09 = -97.260 03 = -97.067

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29512.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29512.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 21 RMC

NGS Name: TT 21 RMC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	25	54 N	20 W	470755.93	924919.37		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	1958	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	SURVEY DISK	USGS

Description: **Stamping:** TT 21 RMC 1958

2.4 MILES SOUTH TOIVOLA, 4.2 MILES SOUTH ALONG TRUNK HIGHWAY 5 FROM THE JUNCTION OF TRUNK HIGHWAY 5 AND ARKOLA ROAD IN TOIVOLA, THEN 2.0 MILES NORTHWEST ALONG THE RAILROAD TRACKS TO THE MARK, 23 RAILS SOUTH OF MILEPOST 17, 15.0 FEET NORTHEAST OF THE NORTHEAST RAIL, ON THE SOUTHEAST CULVERT UNDER THE DULUTH MESABI AND IRON RANGE RAILROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.237 12B = -97.231 09 = -97.172 03 = -96.972

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_74820.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_74820.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29517

TT 21 T

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 21 T

NGS Name: TT 21 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092324/

USGS Quad: MEADOWLANDS NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	27	54 N	19 W	470756.00	924336.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1952)

Stamping: TT 21 T 1952

4.5 MILES NORTH AND 0.5 MILE EAST OF MEADOWLANDS, 356.0 FEET NORTH AND 38.0 FEET WEST OF A NORTH-SOUTH ROAD AT A TEE-ROAD EAST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.316 12B = -97.310 09 = -97.234 03 = -97.040

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29517.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29517.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 22 RMC

NGS Name: TT 22 RMC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	54 N	20 W	470857.05	925055.24		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	1958	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ROCK (0 TO 1 METERS)	BENCH MARK DISK	USGS

Description:

Stamping: TT 22 RMC 1958

2.1 MILES SOUTHWEST TOIVOLA, 4.2 MILES SOUTH ALONG TRUNK HIGHWAY 5 FROM THE JUNCTION OF TRUNK HIGHWAY 5 AND ARKOLA ROAD IN TOIVOLA, THEN 3.8 MILES NORTHWEST ALONG THE RAILROAD TRACKS, 30.0 FEET SOUTH OF THE NORTHWEST RAIL, 60 RAILS SOUTHEAST ALONG THE RAILROAD TRACKS FROM MILEPOST 19, SET IN THE TOP OF A BOULDER.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.310 12B = -97.306 09 = -97.250 03 = -97.054

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_74821.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_74821.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 22 T

NGS Name: TT 22 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 47092323/

USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	3	53 N	19 W	470556.00	924329.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1952)

Stamping: TT 22 T 1952

2.0 MILES NORTH AND 0.5 MILE EAST OF MEADOWLANDS, 48.0 FEET NORTH AND 179.0 FEET WEST OF COUNTY ROAD 29
AT A CROSSROAD, 200.0 FEET SOUTHEAST OF A HOUSE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.040 12B = -97.034 09 = -96.952 03 = -96.758

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29522.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29522.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 23 RMC

NGS Name: TT 23 RMC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 46092441/
USGS Quad: MCCARTY RIVER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>				
SE	15	51 N	20 W	465353.00	925052.82						
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>				
1958	2017	NOT FOUND	Horz=? Vert=YES	NO			SEE DESCRIPTION				
<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>									
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	USGS									

Description:

Stamping: TT 23 RMC 1958

3.3 MILES SOUTHEAST OF FLOODWOOD, 3.2 MILES EAST ALONG COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 (5TH AVENUE) AND TRUNK HIGHWAY 73 IN FLOODWOOD, THEN 1.8 MILES SOUTH ON HINGELEY ROAD, 57.0 FEET WEST OF HINGELEY ROAD, 27.0 FEET SOUTH A FENCE WEST, 1.0 FOOT EAST OF A FENCE LINE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.108 12B = -95.092 09 = -95.016 03 = -94.895

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_77840.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_77840.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 23 T

NGS Name: TT 23 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 46092414/

USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	4	51 N	19 W	465534.00	924443.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1952)

Stamping: TT 23 T 1952

4.0 MILES NORTH AND 6.5 MILES WEST OF BROOKSTON, 32.0 FEET NORTH AND 585.0 FEET WEST OF COUNTY ROAD 8 AT A TEE-ROAD NORTH (COUNTY ROAD 5), IN A SMALL CLEARING, 115.0 FEET EAST OF 36.0 INCH DIAMETER STEEL CULVERT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.364 12B = -95.344 09 = -95.272 03 = -95.134

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29526.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29526.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 24 T

NGS Name: TT 24 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 46092414/

USGS Quad: BROOKSTON NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	21	51 N	19 W	465322.00	924439.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

ROCK (0 TO 1 METERS)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1952)

Stamping: TT 24 T 1952

2.0 MILES NORTH AND 6.5 MILES WEST OF BROOKSTON, 0.4 MILE SOUTH OF THE NORTHEAST CORNER OF SECTION 21,
167.0 FEET WEST OF A NORTH-SOUTH TRAIL ON A SMALL KNOLL.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.019 12B = -95.003 09 = -94.928 03 = -94.796

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29530.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29530.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29533

TT 25 T

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 25 T

NGS Name: TT 25 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0751](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	35	51 N	19 W	465119.59	924320.22	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2021	GOOD	Horz=YES Vert=YES	YES		PROJECTS 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (2005) **Stamping:** TT 25 T 1952

2.3 MILES SOUTHEAST OF PAUPORES, 0.1 MILE NORTH ON COUNTY ROAD 845 FROM THE JUNCTION OF COUNTY ROAD 845 (MAKI ROAD) AND TRUNK HIGHWAY 2, AT TRUNK HIGHWAY 2 MILEPOINT 232.25, 24.0 FEET EAST OF COUNTY ROAD 845, 92.0 FEET SOUTH OF A DRIVE WEST, 119.4 FEET SOUTH-SOUTHEAST OF A POWER POLE, 3.1 FEET WEST OF A NORTH-SOUTH FENCE LINE, 1.2 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1366.684	0.016	416.566	0.005	2/1	2021	00000963
NGVD29	1365.899	0.016	416.327	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -94.685 12B = -94.672 09 = -94.593 03 = -94.465

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 51 19.58994	92 43 20.22176	431870.818	175051.329	131634.489	53355.752	387.656		2012	GPS2800
NAD83 (2007)	46 51 19.59007	92 43 20.22262	431870.758	175051.342	131634.470	53355.756	387.683		2007	GPS2300
NAD83 (1996)	46 51 19.58987	92 43 20.22237	431870.776	175051.322	131634.476	53355.750	387.719	C	2004	GPS1957

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/TT_25_T-RN0751-3E-25JUL2021.jpg	E	Jul 25, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/TT_25_T-RN0751-2-25JUL2021.jpg		Jul 25, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/TT_25_T-RN0751-1-25JUL2021.jpg		Jul 25, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29533.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29533.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 25 WM

NGS Name: TT 25 WM

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	18	55 N	21 W	471447.91	930355.92		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1951	1951	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	USGS

Description: **Stamping:** TT 25 WM 1951

2.4 MILES SOUTHWEST SILICA, 6.4 MILES NORTH ALONG COUNTY ROAD 16 FROM THE JUNCTION OF COUNTY ROAD 16 AND COUNTY ROAD 20 IN GOODLAND, THEN 1.2 MILES NORTHEAST ALONG COUNTY ROAD 565, THEN 0.9 MILE SOUTH ON COUNTY ROAD 944, 37.0 FEET EAST OF COUNTY ROAD 944, 970.0 FEET SOUTH OF A DRIVEWAY EAST TO A FARM, 8.0 FEET SOUTH AND 370.0 FEET EAST OF A ROAD AT A FENCE WEST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.077 12B = -97.103 09 = -96.991 03 = -96.916

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_74823.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_74823.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 26 T

NGS Name: TT 26 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0754](#) [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	12	50 N	19 W	464937.00	924205.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (2019)

Stamping: TT 26 T 1952

5.5 MILES SOUTHWEST OF BROOKSTON, 250.0 FEET NORTH AND 39.0 FEET WEST OF COUNTY ROAD 847 AT A FENCE WEST, 32.0 FEET NORTH OF A DRIVE TO A HOUSE, 150.0 FEET EAST OF THE NORTHEAST CORNER OF A LOG BARN, 15.0 FEET NORTH OF A FENCE CORNER POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.393 12B = -94.390 09 = -94.311 03 = -94.170

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29537.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29537.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 27 T

NGS Name: TT 27 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 46092413/
USGS Quad: MARTIN LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	23	50 N	19 W	464752.00	924205.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

Description: (2019)

Stamping: TT 27 T 1952

5.0 MILES SOUTH AND 4.5 MILES WEST OF BROOKSTON, 187.0 FEET NORTH AND 22.0 FEET WEST OF COUNTY ROAD 847 AT A TEE-ROAD WEST, ON A RIGHT-OF-WAY FENCE LINE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.098 12B = -94.101 09 = -94.016 03 = -93.878

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29541.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29541.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 3 T

NGS Name: TT 3 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0384](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	35	50 N	17 W	464646.05	922700.01	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2017	NOT FOUND	Horz=NO Vert=NO	NO		PROJECTS 6 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (2019)

Stamping: TT 3T 1952 1278

4.0 MILES NORTH OF CLOQUET, 4.2 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM A TRUNK HIGHWAY 33 BRIDGE NUMBER 5272 OVER THE ST. LOUIS RIVER, 128.8 FEET WEST OF TRUNK HIGHWAY 33, AT TRUNK HIGHWAY 33 MILEPOINT 6.6, 195.0 FEET SOUTH OF THE COUNTY ROAD 56 EAST (SUNSET ROAD), 175.2 FEET SOUTH-SOUTHEAST OF THE PINE RIVER TOWN HALL, 17.8 FEET WEST OF THE SOUTHWEST CORNER OF AN 8.0 FEET BY 8.0 FEET METAL BUILDING, 0.8 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1278.383	0.016	389.652	0.005	2/0	1991	00000025
NGVD29	1278.114	0.016	389.570	0.005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -93.704 12B = -93.691 09 = -93.605 03 = -93.418

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29553.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29553.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29574

TT 4 RMC

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 4 RMC

NGS Name: TT 4 RMC

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	11	50 N	20 W	465014.00	925052.00		3

NGS ACRN: [RN0670](#) [Get Map](#)
NGS Quad / Sta Num : 46092442/
USGS Quad: GOWAN

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 6 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (1958)

Stamping: TT 4 RMC 1958 1301

6.6 MILES SOUTHEAST OF FLOODWOOD, 1.9 MILES SOUTH ALONG COUNTY ROAD 86 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND COUNTY ROAD 86 (THE JUNCTION IS 4.9 MILES SOUTHEAST OF FLOODWOOD), 29.7 FEET EAST OF COUNTY ROAD 86, 274.5 FEET SOUTH OF LINDSTROM ROAD, 18.7 FEET SOUTH-SOUTHWEST OF A POWER POLE, 1.0 FOOT WEST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.531 12B = -94.518 09 = -94.432 03 = -94.321

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/TT_4_RMC-RN0670-3E-24JUL2017.jpg	E	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/TT_4_RMC-RN0670-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/TT_4_RMC-RN0670-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29574.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29574.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29576

TT 4 T

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 4 T

NGS Name: TT 4 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 46092143/

USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	13	50 N	17 W	464830.00	922700.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2017	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1974)

Stamping: TT 4 T 1952

6.0 MILES NORTH OF CLOQUET, 206.0 FEET SOUTH AND 56.0 FEET EAST OF TRUNK HIGHWAY 33 AT A TEE-ROAD EAST, 34.0 FEET NORTH AND 56.0 FEET EAST OF A TEE-ROAD WEST, UNDER A POWER LINE, 350.0 FEET SOUTH-SOUTHWEST OF A HOUSE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.970 12B = -93.953 09 = -93.871 03 = -93.674

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29576.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29576.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 5 RMC

NGS Name: TT 5 RMC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 46092442/

USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	16	50 N	20 W	464918.00	925212.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	1958	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1958)

Stamping: 5 RMC 1958 1313

3.0 MILES SOUTH AND 1.0 MILE WEST OF THE GOWAN POST OFFICE, 156.0 FEET SOUTH AND 24.0 FEET WEST OF COUNTY ROAD 86 AT A TEE DRIVE WEST TO A FARMHOUSE, 2.0 FEET EAST OF A TELEPHONE POLE, 1.0 FOOT EAST OF A FENCE LINE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.370 12B = -94.360 09 = -94.271 03 = -94.160

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29589.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29589.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 5 T RESET

NGS Name: TT 5 T RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0051](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	50 N	17 W	465044.73	922730.98	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1975	2017	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (1978) **Stamping:** TT 5 T 1952 RESET 1975

1.1 MILES SOUTHWEST OF SAGINAW, AT THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 33, 415.0 FEET NORTH OF TRUNK HIGHWAY 2, 98.0 FEET WEST OF TRUNK HIGHWAY 33, AT TRUNK HIGHWAY 33 MILEPOINT 11.3, 5.3 FEET SOUTHEAST OF A STEEL SIGN POST, 16.4 FEET SOUTHWEST OF A CABLE POST, 5.2 FEET WEST OF A WITNESS POST.

Station Notes

THE ROAD HAS BEEN WIDENED.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1335.457	0.016	407.048	0.005	2/1	1991	00000025
NGVD29	1335.204	0.016	406.971	0.005	2	1980	L24513

Geoid Separations(ft): GEOID18 = -94.317 12B = -94.304 09 = -94.212 03 = -94.022

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (1996)	46 50 44.73301	92 27 30.98230	497846.219	171401.492	151743.831	52243.279	378.361	3	1999	17648
NAD83 (1986)	46 50 44.72700	92 27 30.98501	497846.031	171400.883	151743.774	52243.094		3	1986	17289
NAD27	46 50 44.93551	92 27 30.28436						3	1980	16254

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/TT_5_T_RESET-RN0051-3S-26JUL2017.jpg	S	Jul 26, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29590.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29590.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 5 T USGS

NGS Name: TT 5 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0050](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/1021
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	50 N	17 W	465044.82	922730.54	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1978	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (1978) **Stamping:** TT 5 T 1952 1335

9.5 MILES NORTH OF CLOQUET, 9.5 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 45 IN CLOQUET, MAKE A U-TURN, THEN 0.6 MILE SOUTH ALONG TRUNK HIGHWAY 33.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1335.460	0.016	407.049	0.005	2/0	1991	00000025
NGVD29	1335.204	0.016	406.971	0.005	2	1974	L23563

Geoid Separations(ft): GEOID18 = -94.317 12B = -94.304 09 = -94.212 03 = -94.022

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid	Surv	Project Info	
	Latitude		Longitude		X	Y	X	Y	Hgt (m)	Ord	Year	Reference
NAD83 (1996)	46	50	44.81614	92 27 30.54421	497876.675	171409.911	151753.114	52245.845	378.362	2	1999	17648
NAD83 (1986)	46	50	44.81013	92 27 30.54692	497876.486	171409.302	151753.056	52245.660		2	1986	17289
NAD27	46	50	45.01872	92 27 29.84622						2	1977	15924

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29591.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29591.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 6 RMC

NGS Name: TT 6 RMC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 46092442/

USGS Quad: GOWAN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	50 N	20 W	464721.00	925216.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	1958	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1958)

Stamping: 6 RMC 1958 1332

5.5 MILES SOUTH AND 1.0 MILE WEST OF THE GOWAN POST OFFICE, 280.0 FEET NORTH OF A CURVE IN COUNTY ROAD 86,
35.0 FEET EAST OF A ROAD, 3.0 FEET EAST OF A TELEPHONE POLE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.022 12B = -94.009 09 = -93.924 03 = -93.815

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29606.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29606.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 6 T

NGS Name: TT 6 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1026](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	15	51 N	17 W	465341.00	922816.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2017	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (1952) **Stamping:** TT 6T 1952

12.0 MILES NORTH OF CLOQUET, 1.7 MILES NORTH OF GRAND LAKE, 42.0 FEET NORTH AND 150.0 FEET WEST OF A CROSSROADS, UNDER A POWER LINE, 150.0 FEET WEST OF TRUNK HIGHWAY 33, 200.0 FEET SOUTHEAST OF A HOUSE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.800 12B = -94.800 09 = -94.678 03 = -94.488

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29608.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29608.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29616

TT 7 T

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 7 T

NGS Name: TT 7 T

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1039](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	3	51 N	17 W	465528.87	922814.24	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2017	NOT FOUND	Horz=NO Vert=NO	NO		PROJECTS 18 IN.	STEEL ROD IMBED IN MON

Monument Type

UNKNOWN

Disk Type

BENCH MARK DISK

Mon. Agency

USGS

Description: (1978)

Stamping: TT 7 T 1952

4.5 MILES NORTH OF SAGINAW, 5.7 MILES NORTH ON TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 2, 50.6 FEET WEST OF TRUNK HIGHWAY 33, AT TRUNK HIGHWAY 33 MILEPOINT 16.95, 383.0 FEET NORTH OF COUNTY ROAD 8, 49.0 FEET EAST-NORTHEAST OF A POWER POLE, 1.0 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1306.864	0.016	398.333	0.005	2/1	1991	00000025
NGVD29	1306.605	0.016	398.254	0.005	2	1978	L24513

Geoid Separations(ft): GEOID18 = -95.082 12B = -95.085 09 = -94.960 03 = -94.764

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29616.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29616.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 8 RMC

NGS Name: TT 8 RMC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 46092444/

USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	11	51 N	21 W	465528.00	925710.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	1958	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1958)

Stamping: 8 RMC 1958

2.0 MILES WEST OF FLOODWOOD, AT THE JUNCTION OF COUNTY ROAD 186 AND COUNTY ROAD 832, 33.0 FEET WEST OF COUNTY ROAD 186, 268.0 FEET SOUTH OF COUNTY ROAD 832, 3.0 FEET NORTH OF A POWER POLE, 2.0 FEET EAST OF A FENCE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.311 12B = -95.295 09 = -95.216 03 = -95.105

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29621.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29621.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 9 RMC

NGS Name: TT 9 RMC

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 46092444/

USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	14	51 N	21 W	465348.00	925713.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	1958	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

SEE DESCRIPTION

Mon. Agency

USGS

Description: (1958)

Stamping: 9 RMC 1958

2.0 MILES SOUTH AND 2.0 MILES WEST OF FLOODWOOD, AT THE JUNCTION OF COUNTY ROAD 186 AND COUNTY ROAD 831, 21.0 FEET NORTH OF COUNTY ROAD 831, 147.0 FEET WEST OF COUNTY ROAD 186, 1.0 FOOT SOUTH OF A FENCE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.059 12B = -95.042 09 = -94.960 03 = -94.855

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29625.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29625.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29635

U 160

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: U 160

NGS Name: U 160

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0410](#) [Get Map](#)
NGS Quad / Sta Num : 47092312/
USGS Quad: ZIM

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	16	55 N	17 W	471519.94	923050.13	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1935	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1935) **Stamping:** U 160 1935

1.0 MILES SOUTH OF FENS, THEN 4.2 MILES EAST OF A RAILROAD, 1.5 MILES WEST OF TRUNK HIGHWAY 53, 150.0 FEET EAST OF A LONG CURVE, 36.0 FEET SOUTH OF A ROAD.

Station Notes

THE ROAD IS NOW A FOUR WHEELER TRAIL. NO ACCESSIBLE ROADS 07/26/21.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1342. 005	0. 016	409. 044	0. 005	2/0	1991	00000025
NGVD29	1341. 310	0. 016	408. 832	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.923 12B = -97.923 09 = -97.854 03 = -97.680

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29635.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29635.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: U 163

NGS Name: U 163

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0179](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	11	52 N	17 W	470031.00	922816.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1966	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1966) **Stamping:** U 163 1935

2.1 MILES SOUTH OF CANYON, 5.8 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON, THEN 3.7 MILES NORTH ALONG TRUNK HIGHWAY 53.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	Orthometric (Feet)		Orthometric (Meters)		Survey <u>Order/(Class)</u>	Project Info	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1401.772	0.016	427.261	0.005	2/0	1991	00000025
NGVD29	1401.270	0.007	427.108	0.002	1	1935	L63 MINN

Geoid Separations(ft): GEOID18 = -95.876 12B = -95.876 09 = -95.741 03 = -95.551

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29638.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29638.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: U 271

NGS Name: U 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0703](#) [Get Map](#)
NGS Quad / Sta Num : 46092441/
USGS Quad: MCCARTY RIVER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	30	52 N	19 W	465806.00	924707.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=NO Vert=YES	NO		PROJECTS 5 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) Stamping: U 271 1948

9.2 MILES NORTHEAST OF FLOODWOOD, 2.0 MILES WEST ON COUNTY ROAD 165 FROM THE JUNCTION OF COUNTY ROAD 165 AND COUNTY ROAD 5, 35.0 FEET SOUTH OF COUNTY ROAD 165, 59.0 FEET WEST OF AN ABANDONED CROSSROAD, 28.0 FEET WEST OF A FENCE CORNER, 97.0 FEET WEST OF THE SOUTH END OF A METAL CULVERT, 39.0 FEET SOUTHWEST OF THE SOUTH END OF A METAL CULVERT, 1.5 FEET NORTH OF A FENCE, 2.0 FEET EAST OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1276.024	0.016	388.933	0.005	2/0	1991	00000025
NGVD29	1275.421	0.016	388.749	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.784 12B = -95.771 09 = -95.692 03 = -95.544

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29657.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29657.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: U 272

NGS Name: U 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0513](#) [Get Map](#)
NGS Quad / Sta Num : 47092332/
USGS Quad: ELMER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	17	53 N	19 W	470410.00	924556.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=? Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2019) **Stamping:** U 272 1948

1.5 MILES WEST ON COUNTY ROAD 133 FROM THE HIGH SCHOOL AT MEADOWLANDS, 0.5 MILE EAST OF A COUNTY ROAD 133 BRIDGE OVER THE ST. LOUIS RIVER, AT THE JUNCTION OF COUNTY ROAD 133 AND A CROSSROAD, 39.0 FEET NORTH OF COUNTY ROAD 133, 34.0 FEET WEST OF A ROAD NORTH, 4.5 FEET NORTHEAST OF A POWER POLE WITH A GUY WIRE, 2.0 FEET WEST OF A WITNESS POST.

Station Notes

BELIEVE TO BE REMOVED DUE TO ROAD CONSTRUCTION.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1272.317	0.016	387.803	0.005	2/0	1991	00000025
NGVD29	1271.694	0.016	387.613	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.762 12B = -96.748 09 = -96.673 03 = -96.493

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29658.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29658.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29659

U 273

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: U 273

NGS Name: U 273

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1371](#) [Get Map](#)
NGS Quad / Sta Num : 47093222/
USGS Quad: WAWINA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	16	53 N	21 W	470506.14	930057.47	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** U 273 1948

10.9 MILES NORTHWEST ON TRUNK HIGHWAY 73 FROM THE HIGH SCHOOL AT FLOODWOOD THEN 2.7 MILES NORTHWEST ON COUNTY ROAD 508 (OLD TRUNK HIGHWAY 73), AT THE JUNCTION OF COUNTY ROAD 508 AND COUNTY ROAD 133, 130.0 FEET NORTHEAST OF COUNTY ROAD 508, 58.0 FEET NORTH OF COUNTY ROAD 133, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1261. 802	0. 016	384. 598	0. 005	2/1	2021	00000963
NGVD29	1261. 044	0. 016	384. 367	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.617 12B = -96.607 09 = -96.558 03 = -96.391

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/U_273-SJ1371-3N-13JUL2017.jpg	N	Jul 13, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/U_273-SJ1371-2-13JUL2017.jpg		Jul 13, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/U_273-SJ1371-1-13JUL2017.jpg		Jul 13, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29659.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29659.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: U 274

NGS Name: U 274

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0388](#) [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	13	54 N	20 W	470949.30	924837.50	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	GOOD	Horz=NO Vert=YES	NO		FLUSH	NO MAG MATERIAL

Monument Type

CONCRETE FOOTING - MEDIUM

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: U 274 1948

AT TOIVOLA, 0.25 MILE SOUTH ON COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 5 AND COUNTY ROAD 52 EAST, IN THE WEST WALL OF THE HIGH SCHOOL, 1.4 FEET NORTH OF THE SOUTHWEST CORNER OF A SCHOOL, 137.0 FEET EAST OF COUNTY ROAD 5.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1287. 675	0. 016	392. 484	0. 005	2/1	2012	00000702
NGVD29	1287. 045	0. 016	392. 292	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.457 12B = -97.454 09 = -97.388 03 = -97.195

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29660.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29660.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29663

U 28

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: U 28

NGS Name: U 28

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0343](#) [Get Map](#)
NGS Quad / Sta Num : 47092322/
USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	10	53 N	18 W	470529.75	923555.97	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2007	GOOD	Horz=YES Vert=YES	YES		PROJECTS 3 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2007) **Stamping:** U 28 1934

1.5 MILES NORTH OF COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND COUNTY ROAD 133, 0.13 MILE SOUTH OF A RAILROAD MILEPOST 41, 40.5 FEET WEST OF COUNTY ROAD 7, 96.0 FEET NORTH OF THE NORTH END OF A METAL CULVERT, 44.5 FEET NORTHEAST OF A TELEPHONE PEDESTAL, 57.5 FEET EAST OF THE EAST RAIL, 65.0 FEET SOUTHEAST OF A RAILROAD WHISTLE POST, 2.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1308.541	0.016	398.844	0.005	2/1	2012	00000702
NGVD29	1307.825	0.016	398.626	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.913 12B = -96.903 09 = -96.791 03 = -96.604

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/U_28-SJ0343-3W-22MAY2007.jpg	W	May 22, 2007
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/U_28-SJ0343-2-22MAY2007.jpg		May 22, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/U_28-SJ0343-1-22MAY2007.jpg		May 22, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29663.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29663.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29678

U 30

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: U 30

NGS Name: U 30

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0642](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	52 N	21 W	465650.00	925638.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1974	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 6 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1974) **Stamping:** U 30 1934

2.0 MILES NORTHWEST OF FLOODWOOD, 1.9 MILES NORTHWEST ALONG THE GREAT NORTHERN RAILWAY FROM THE STATION IN FLOODWOOD, 0.4 MILE NORTHWEST OF RAILROAD MILEPOST 77, 0.55 MILE SOUTHEAST OF A NORTH-SOUTH GRAVEL ROAD CROSSING, AT A FIELD ROAD CROSSING, 300.0 FEET SOUTHWEST AND ACROSS THE TRACKS FROM A TWO STORY FARM HOUSE, 27.0 FEET SOUTHWEST OF THE SOUTHWEST RAIL OF THE SOUTHWEST TRACK, 12.0 FEET SOUTHEAST OF THE CENTERLINE OF A FIELD ROAD, 2.5 FEET NORTHEAST OF A RIGHT-OF-WAY FENCE, 3.0 FEET EAST OF A GATE POST, 6.0 FEET WEST OF A TELEPHONE POLE, 2.0 FEET SOUTHEAST OF A WOODEN WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1260. 129	0. 016	384. 088	0. 005	2/0	1991	00000025
NGVD29	1259. 469	0. 007	383. 887	0. 002	1	1934	L13 MINN

Geoid Separations(ft): GEOID18 = -95.528 12B = -95.508 09 = -95.436 03 = -95.315

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29678.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29678.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108307

UNGER

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: UNGER

NGS Name: UNGER

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1865](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	11	52 N	17 W	470011.07	922816.24	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 17 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2019) **Stamping:** UNGER 2017

2.5 MILES SOUTH OF CANYON, 2.55 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 737 (HARRIS ROAD) IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 27.50, 65.2 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 53, 56.9 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 53, 19.5 FEET SOUTH OF A DRIVEWAY NUMBER 6795 EXTENDED, 3.0 FEET NORTH OF A WITNESS POST.

Station Pair: STYLES - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1374. 203	0. 016	418. 858	0. 005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -95.823 12B = -95.823 09 = -95.692 03 = -95.498

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/UNGER-DR1865-3S-17OCT2017.jpg	S	Oct 17, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/UNGER-DR1865-2-17OCT2017.jpg		Oct 17, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/UNGER-DR1865-1-17OCT2017.jpg		Oct 17, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108307.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108307.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29691

V 160

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: V 160

NGS Name: V 160

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0409](#) [Get Map](#)
NGS Quad / Sta Num : 47092312/
USGS Quad: ZIM

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	17	55 N	17 W	471519.78	923208.06	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1935	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1935) Stamping: V 160 1935

1.0 MILES SOUTH OF THE FENS RAILROAD STATION THEN 3.2 MILES EAST, 60.0 FEET EAST OF THE CROSSROADS, 42.0 FEET SOUTH OF A ROAD, 36.0 FEET EAST OF A CULVERT.

Station Notes

NO ACCESSIBLE ROADS 07/26/21.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1334. 108	0. 016	406. 637	0. 005	2/0	1991	00000025
NGVD29	1333. 419	0. 016	406. 427	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.933 12B = -97.933 09 = -97.861 03 = -97.693

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29691.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29691.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: V 163

NGS Name: V 163

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0135](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	52 N	17 W	465833.00	922812.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1966	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1966) Stamping: V 163 1935

15.1 MILES SOUTH OF COTTON, 15.1 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON, THEN 1.4 MILES NORTH ALONG TRUNK HIGHWAY 53.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1333.633	0.016	406.492	0.005	2/0	1991	00000025
NGVD29	1333.154	0.007	406.346	0.002	1	1935	L63 MINN

Geoid Separations(ft): GEOID18 = -95.574 12B = -95.567 09 = -95.436 03 = -95.243

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29694.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29694.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29695

V 163 RESET 1966

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: V 163 RESET 1966

NGS Name: V 163 RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0136](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	52 N	17 W	465832.05	922814.75	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1966	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1978)

Stamping: V 163 RESET 1966

17.5 MILES NORTH OF CLOQUET, 1.5 MILES NORTHWEST ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND TRUNK HIGHWAY 33 (THE JUNCTION IS 16.0 MILES NORTH OF CLOQUET), AT TRUNK HIGHWAY 53 MILEPOINT 25.55, 127.0 FEET WEST-SOUTHWEST OF SOUTHBOUND TRUNK HIGHWAY 53, 2.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1335.493	0.016	407.059	0.005	2/1	2021	00000963
NGVD29	1335.063	0.007	406.928	0.002	1	1966	L63 MINN

Geoid Separations(ft): GEOID18 = -95.574 12B = -95.567 09 = -95.436 03 = -95.243

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/V_163_RESET-RN0136-3W-02AUG2017.jpg	W	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/V_163_RESET-RN0136-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/V_163_RESET-RN0136-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29695.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29714

V 271

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: V 271

NGS Name: V 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0704](#) [Get Map](#)
NGS Quad / Sta Num : 46092441/
USGS Quad: MCCARTY RIVER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	24	52 N	20 W	465805.00	924819.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2021	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: V 271 1948

8.2 MILES NORTHEAST OF FLOODWOOD, AT THE JUNCTION OF COUNTY ROAD 166 AND COUNTY ROAD 170, 46.0 FEET WEST OF COUNTY ROAD 170 (MC GONAGLE ROAD), 21.0 FEET NORTH OF COUNTY ROAD 166, 15.0 FEET WEST OF A TELEPHONE POLE, 14.5 FEET WEST OF A FENCE CORNER, 1.5 FEET SOUTH OF A FENCE, 2.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1263. 528	0. 016	385. 124	0. 005	2/0	1991	00000025
NGVD29	1262. 924	0. 016	384. 940	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.781 12B = -95.764 09 = -95.692 03 = -95.544

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29714.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29714.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29715

V 272

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: V 272

NGS Name: V 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0514](#) [Get Map](#)
NGS Quad / Sta Num : 47092332/
USGS Quad: ELMER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	17	53 N	19 W	470409.00	924634.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

CONCRETE FOOTING - LARGE

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1976)

Stamping: V 272 1948

2.0 MILES WEST ON COUNTY ROAD 133 FROM THE HIGH SCHOOL AT MEADOWLANDS, IN THE NORTH END OF THE WEST ABUTMENT OF A COUNTY ROAD 133 BRIDGE OVER THE ST. LOUIS RIVER, 11.0 FEET NORTH OF COUNTY ROAD 133, 2.2 FEET NORTH OF A BRIDGE RAIL.

Station Notes

THE STATION MAY BE REMOVED AS THE OLD BRIDGE WAS REPLACED BY BRIDGE 69506 IN 1976.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1260.296	0.016	384.139	0.005	2/0	1991	00000025
NGVD29	1259.673	0.016	383.949	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.758 12B = -96.742 09 = -96.670 03 = -96.489

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29715.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29715.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29716

V 274

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: V 274

NGS Name: V 274

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0472](#)

[Get Map](#)

NGS Quad / Sta Num : 47092321/

USGS Quad: KELSEY

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	10	54 N	18 W	471006.36	923658.62	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2021	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: V 274 1948

9.25 MILES EAST ON COUNTY ROAD 52 FROM THE JUNCTION OF COUNTY ROAD 52 (EAST) -COUNTY ROAD 5 (NORTH-SOUTH) AND COUNTY ROAD 317 (WEST) AT TOIVOLA, AT A RAILROAD CROSSING, 202.0 FEET EAST OF THE EAST RAIL OF THE RAILROAD TRACKS, 29.0 FEET NORTH OF COUNTY ROAD 52, 153.0 FEET WEST OF A PRIVATE ROAD SOUTH EXTENDED, 2.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1296. 972	0. 016	395. 318	0. 005	2/0	1991	00000025
NGVD29	1296. 356	0. 016	395. 130	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.575 12B = -97.579 09 = -97.474 03 = -97.287

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29716.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29716.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29719

V 28

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: V 28

NGS Name: V 28

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0344](#) [Get Map](#)
NGS Quad / Sta Num : 47092322/
USGS Quad: PAYNE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	34	54 N	18 W	470716.85	923558.66	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1948	GOOD	Horz=NO Vert=NO	NO		PROJECTS 3 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1934) Stamping: V 28 1934

2.2 MILES SOUTH ON A RAILROAD FROM THE RAILROAD STATION AT KELSEY, 0.1 MILE SOUTH OF A RAILROAD MILEPOST 43, 399.0 FEET NORTH OF A WHISTLE SIGN, 66.5 FEET EAST OF THE EAST RAIL OF THE EAST RAILROAD TRACK, 51.0 FEET WEST OF COUNTY ROAD 7, 2.0 FEET SOUTH OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	Orthometric (Feet)		Orthometric (Meters)		Survey <u>Order/(Class)</u>	Project Info	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1304.299	0.016	397.551	0.005	2/0	1991	00000025
NGVD29	1303.705	0.016	397.370	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.188 12B = -97.182 09 = -97.073 03 = -96.883

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29719.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29719.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29733

V 30

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: V 30

NGS Name: V 30

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0636](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	27	52 N	21 W	465803.50	925836.96	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1974	GOOD	Horz=NO Vert=NO	NO		PROJECTS 3 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (2019)

Stamping: V 30 1934

3.9 MILES NORTHWEST ON A RAILROAD FROM FLOODWOOD, 46.7 FEET NORTHEAST OF THE NORTHEAST RAIL OF THE RAILROAD TRACKS, 0.5 FOOT SOUTHWEST OF A NORTHEAST RAILROAD RIGHT-OF-WAY FENCE, 193.0 FEET NORTH OF A TELEPHONE POLE NUMBER E34-A101, 0.45 MILE NORTHWEST OF RAILROAD MILEPOST 79, 1.0 FOOT NORTHWEST OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1259.148	0.016	383.789	0.005	2/0	1991	00000025
NGVD29	1258.482	0.016	383.586	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.699 12B = -95.686 09 = -95.620 03 = -95.482

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29733.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29733.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29743

VANBUR MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: VANBUR MNDT

NGS Name: VANBUR

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9565](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u> Horz=NO Vert=NO	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	7	52 N	20 W	470002.02	925455.33		C	1993	2017	NOT FOUND		YES		FLUSH	MARKER W/BAR MAGNET

Monument Type

UNKNOWN

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (2001)

Stamping: VANBUR 1993

4.7 MILES NORTH OF FLOODWOOD, 5.65 MILES NORTH ON TRUNK HIGHWAY 73 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 48.80, 30.0 FEET EAST-NORTHEAST OF TRUNK HIGHWAY 73, 9.0 FEET SOUTH-SOUTHEAST OF AN ENTRANCE, 160.4 FEET NORTHWEST OF A POWER POLE, 89.7 FEET SOUTH-SOUTHWEST OF A CABLE MARKER, 4.7 FEET EAST OF A WITNESS POST.

Station Notes

COULD NOT RESET THE STATION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.053 12B = -96.033 09 = -95.984 03 = -95.823

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 00 02.02364	92 54 55.33254	383872.613	228210.378	117004.607	69558.662	352.645				2012	GPS2800
NAD83 (2007)	47 00 02.02367	92 54 55.33338	383872.555	228210.381	117004.589	69558.663	352.674				2007	GPS2300
NAD83 (1996)	47 00 02.02346	92 54 55.33307	383872.576	228210.360	117004.595	69558.657	352.688		C		2003	GPS1769

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/VANBUR-DE9565-3E-12JUL2017.jpg	E	Jul 12, 2017
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29743.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29743.pdf



Geodetic Data Sheet (Brief)
GSID Station # 41684

VARN MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: VARN MNDT

NGS Name: VARN

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF9158](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	34	34 N	21 W	470634.73	925950.84		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2017	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	SURVEY DISK	MNDT

Description: (2001) **Stamping:** VARN 2001

21.0 MILES SOUTH OF HIBBING, 21.0 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 57.55, 103.5 FEET NORTH OF COUNTY ROAD 183 (VAN HORN ROAD), 67.0 FEET WEST OF TRUNK HIGHWAY 73, 14.5 MILES NORTH OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 JUNCTION IN FLOODWOOD, 6.3 FEET EAST OF A FENCE LINE, 2.7 FEET EAST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.791 12B = -96.785 09 = -96.739 03 = -96.565

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 06 34.72918	92 59 50.83880	363667.463	268131.359	110846.064	81726.602	359.040				2012	GPS2800
NAD83 (2007)	47 06 34.72931	92 59 50.83977	363667.396	268131.373	110846.044	81726.606	359.061				2007	GPS2300
NAD83 (1996)	47 06 34.72915	92 59 50.83949	363667.415	268131.356	110846.050	81726.601	359.077		C		2010	HASCA

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/VARN-DF9158-3W-19NOV2009.jpg	W	Nov 19, 2009
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/VARN-DF9158-2-19NOV2009.jpg		Nov 19, 2009
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/VARN-DF9158-1-12JUL2017.jpg		Jul 12, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41684.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41684.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: VARN MNDT RESET

NGS Name: VARN RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5139](#) [Get Map](#)
NGS Quad / Sta Num : 47092333/
USGS Quad: TOIVOLA SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	34	34 N	21 W	470634.73	925950.83	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** VARN 2001 2017

21.0 MILES SOUTH OF HIBBING, 21.0 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 57.55, 67.0 FEET WEST OF TRUNK HIGHWAY 73, 103.5 FEET NORTH OF COUNTY ROAD 183 (VAN HORN ROAD), 6.3 FEET EAST OF A FENCE LINE, 2.7 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1274. 555 0. 016	388. 485 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.791 12B = -96.785 09 = -96.739 03 = -96.565

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/VARN_RESET-DR5139-3W-12JUL2017.jpg	W	Jul 12, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/VARN_RESET-DR5139-2-12JUL2017.jpg		Jul 12, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/VARN_RESET-DR5139-1-12JUL2017.jpg		Jul 12, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107859.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107859.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: VATOR MNDT

NGS Name: VATOR

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DF9159](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	35	50 N	17 W	464559.07	922701.97		C	2001	2017	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	SURVEY DISK	MNDT

Description: (2001) **Stamping:** VATOR 2001

3.0 MILES NORTH OF CLOQUET, 3.0 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND A BRIDGE OVER THE ST. LOUIS RIVER IN CLOQUET, AT TRUNK HIGHWAY 33 MILEPOINT 5.8, 0.10 MILE NORTH OF THE ST. LOUIS/CARLTON COUNTY LINE (POHJOLA ROAD), 45.2 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 33, 2.2 FEET WEST-SOUTHWEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.579 12B = -93.563 09 = -93.478 03 = -93.294

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 45 59.06965	92 27 01.97291	499862.648	142458.653	152358.440	43421.484	359.046				2012	GPS2800
NAD83 (2007)	46 45 59.06984	92 27 01.97374	499862.590	142458.672	152358.422	43421.490	359.072				2007	GPS2300
NAD83 (1996)	46 45 59.06953	92 27 01.97360	499862.600	142458.641	152358.425	43421.481	359.115	C			2003	GPS1931

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41685.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41685.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: VATOR MNDT RESET

NGS Name: VATOR RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1885](#) [Get Map](#)
NGS Quad / Sta Num : 46092143/
USGS Quad: SAGINAW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	35	50 N	17 W	464559.07	922701.97	2	3	2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** VATOR 2001 2017

3.0 MILES NORTH OF CLOQUET, 5.75 MILES NORTH ALONG TRUNK HIGHWAY 33 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND INTERSTATE HIGHWAY 35 IN CLOQUET, AT TRUNK HIGHWAY 33 MILEPOINT 5.75, 45.2 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 33, 2.2 FEET WEST-SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1271. 369 0. 016	387. 514 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -93.579 12B = -93.563 09 = -93.478 03 = -93.294

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/VATOR_RESET-DR1885-3E-01AUG2017.jpg	E	Aug 1, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/VATOR_RESET-DR1885-2-01AUG2017.jpg		Aug 1, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/VATOR_RESET-DR1885-1-01AUG2017.jpg		Aug 1, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107981.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107981.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107842

VINCENT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: VINCENT

NGS Name: VINCENT

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5155](#) [Get Map](#)
NGS Quad / Sta Num : 47093212/
USGS Quad: SILICA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	4	55 N	21 W	471611.41	930125.70	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 47 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** VINCENT 2017

11.1 MILES SOUTH-SOUTHWEST OF HIBBING, 9.7 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 169 IN HIBBING, AT TRUNK HIGHWAY 73 MILEPOINT 69.1, 50.1 FEET EAST OF TRUNK HIGHWAY 73, 53.6 FEET NORTH OF THE NORTH ENTRANCE TO THE BIL-MARIS SUPPER CLUB, 1.5 FEET WEST OF A WITNESS POST.

Station Pair: OLIVER - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1342.084	0.016	409.068	0.005	2/1	2021	00000963

Geoid Separations(ft): GEOID18 = -97.273 12B = -97.296 09 = -97.185 03 = -97.109

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/VINCENT-DR5155-3E-02AUG2017.jpg	E	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/VINCENT-DR5155-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/VINCENT-DR5155-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107842.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107842.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29761

VOLA MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: VOLA MNDT

NGS Name: VOLA

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AC5028](#) [Get Map](#)
NGS Quad / Sta Num : 47092331/
USGS Quad: TOIVOLA

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	6	54 N	19 W	471141.73	924837.37	2	B

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1995	2021	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE) (DEPTH 24 FT)	METAL ROD	MNDT

Description: (2002) **Stamping:** VOLA 1995

2.0 MILES NORTH OF TOIVOLA, 1.9 MILES NORTH ALONG COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 5 AND COUNTY ROAD 817 IN TOIVOLA, 27.0 FEET EAST OF COUNTY ROAD 5, 139.0 FEET SOUTH OF AN ENTRANCE EXTENDED, 33.3 FEET SOUTH OF A POWER POLE, 4.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1292.491 0.016	393.952 0.005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -97.605 12B = -97.605 09 = -97.536 03 = -97.359

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 11 41.73310	92 48 37.36880	410397.252	298968.137	125089.333	91125.671	364.204		2012	GPS2800
NAD83 (2007)	47 11 41.73320	92 48 37.36966	410397.193	298968.148	125089.315	91125.674	364.231		2007	GPS2300
NAD83 (1996)	47 11 41.73298	92 48 37.36925	410397.221	298968.125	125089.323	91125.667	364.244	B	2008	HBMN1

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/VOLA-AC5028-3S-27JUL2021.jpg	S	Jul 27, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/VOLA-AC5028-2-27JUL2021.jpg		Jul 27, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/VOLA-AC5028-1-27JUL2021.jpg		Jul 27, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29761.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29761.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: W 160

NGS Name: W 160

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0408](#)

[Get Map](#)

NGS Quad / Sta Num : 47092312/

USGS Quad: ZIM

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	16	55 N	17 W	471523.00	923345.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1948	GOOD	Horz=? Vert=YES	NO		PROJECTS 7 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1935)

Stamping: W 160 1935

1.0 MILES SOUTH ON RAILROAD FROM THE FENS RAILROAD STATION THEN 1.9 MILES EAST ON A GRASSY ROAD, 0.3 MILE EAST OF A SLIGHT CURVE, 33.0 FEET SOUTH OF A GRASSY ROAD, 9.0 FEET SOUTH OF THE SOUTH DITCH BANK, 18.0 FEET SOUTH-SOUTHEAST OF A CULVERT END.

Station Notes

NO ACCESSIBLE ROADS 07/26/21.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	Orthometric (Feet)		Orthometric (Meters)		Survey <u>Order/(Class)</u>	Project Info	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1328.564	0.016	404.947	0.005	2/0	1991	00000025
NGVD29	1327.875	0.016	404.737	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.933 12B = -97.936 09 = -97.857 03 = -97.700

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29764.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29764.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: W 163

NGS Name: W 163

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0137](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	26	52 N	17 W	465729.00	922735.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1955	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STRUCTURE (MASSIVE)	BENCH MARK DISK	NGS

Description: (1955) **Stamping:** W 163 1935

15.0 MILES SOUTH OF COTTON, 15.0 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN COTTON.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1308.675	0.016	398.885	0.005	2/0	1991	00000025
NGVD29	1308.213	0.007	398.744	0.002	1	1935	L63 MINN

Geoid Separations(ft): GEOID18 = -95.377 12B = -95.371 09 = -95.243 03 = -95.049

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29767.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29767.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29783

W 271

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: W 271

NGS Name: W 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0705](#) [Get Map](#)
NGS Quad / Sta Num : 46092441/
USGS Quad: MCCARTY RIVER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	36	52 N	20 W	465712.00	924821.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2021	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 5 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** W 271 1948

7.2 MILES NORTHEAST OF FLOODWOOD, AT THE JUNCTION OF COUNTY ROAD 170 (MC GONAGLE ROAD) AND A ROAD WEST, 2.0 MILES NORTH ON COUNTY ROAD 170 FROM THE JUNCTION OF COUNTY ROAD 170 AND COUNTY ROAD 8, 26.0 FEET WEST OF COUNTY ROAD 170, 71.0 FEET SOUTH OF A ROAD WEST, 59.0 FEET SOUTH OF THE SOUTH END OF A METAL CULVERT, 2.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1280. 329	0. 016	390. 245	0. 005	2/0	1991	00000025
NGVD29	1279. 719	0. 016	390. 059	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.636 12B = -95.613 09 = -95.541 03 = -95.407

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29783.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29783.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29784

W 272

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: W 272

NGS Name: W 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0515](#) [Get Map](#)
NGS Quad / Sta Num : 47092332/
USGS Quad: ELMER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	19	53 N	19 W	470409.00	924729.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2007	NOT FOUND	Horz=? Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** W 272 1948

2.7 MILES WEST ON TRUNK HIGHWAY 133 THE FROM HIGH SCHOOL AT MEADOWLANDS, 0.7 MILE WEST OF A COUNTY ROAD 133 BRIDGE OVER THE ST. LOUIS RIVER, AT THE JUNCTION OF COUNTY ROAD 133 AND COUNTY ROAD 5 NORTH, 36.0 FEET SOUTH OF COUNTY ROAD 133, 15.0 FEET WEST OF AN ENTRANCE TO THE COMMUNITY BUILDING, 2.0 FEET NORTH OF A FENCE, 2.0 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1272. 753	0. 016	387. 936	0. 005	2/0	1991	00000025
NGVD29	1272. 120	0. 016	387. 743	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.745 12B = -96.732 09 = -96.663 03 = -96.483

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29784.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29784.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: W 274

NGS Name: W 274

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0473](#) [Get Map](#)
NGS Quad / Sta Num : 47092324/
USGS Quad: MEADOWLANDS NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	9	54 N	18 W	471006.58	923752.68	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2021	NOT FOUND	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) Stamping: W 274 1948

8.55 MILES EAST ON COUNTY ROAD 52 FROM THE JUNCTION OF COUNTY ROAD 52 AND COUNTY ROAD 5 AT TOIVOLA,
0.7 MILE WEST OF A RAILROAD, AT THE JUNCTION OF COUNTY ROAD 52 AND A ROAD NORTH, 94.0 FEET NORTH OF
COUNTY ROAD 52, 18.0 FEET WEST OF A ROAD NORTH, 52.0 FEET NORTH OF A FENCE CORNER, 1.0 FOOT EAST OF A FENCE
LINE, 2.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1296. 815	0. 016	395. 270	0. 005	2/0	1991	00000025
NGVD29	1296. 195	0. 016	395. 081	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.582 12B = -97.582 09 = -97.480 03 = -97.296

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29785.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29785.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: W 275

NGS Name: W 275

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0634](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	22	52 N	21 W	465840.00	925937.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1974	NOT FOUND	Horz=? Vert=YES	NO		PROJECTS 5 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1974) Stamping: W 275 1948

5.05 MILES NORTHWEST ON A RAILROAD FROM THE FLOODWOOD RAILROAD STATION, 0.45 MILE SOUTHEAST OF RAILROAD MILEPOST 81, 795.0 FEET SOUTHEAST OF A BLOCK SIGNAL, 100.0 FEET NORTHEAST OF THE NORTHEAST RAIL OF THE NORTHEAST RAILROAD TRACKS, 27.0 FEET SOUTHWEST OF A GRASSY ROAD PARALLELING THE TRACKS, 13.0 FEET NORTHEAST OF A RAILROAD RIGHT-OF-WAY FENCE, 57.0 FEET NORTHEAST OF A TELEPHONE POLE NUMBER 3, 2.0 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1259.187	0.016	383.801	0.005	2/0	1991	00000025
NGVD29	1258.524	0.016	383.599	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.761 12B = -95.748 09 = -95.682 03 = -95.544

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29786.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29786.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29789

W 28

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: W 28

NGS Name: W 28

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0347](#) [Get Map](#)
NGS Quad / Sta Num : 47092321/
USGS Quad: KELSEY

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	22	54 N	18 W	470905.11	923603.58	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1948	GOOD	Horz=NO Vert=NO	NO		PROJECTS 3 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1934)

Stamping: W 28 1934

0.15 MILE SOUTH ON A RAILROAD FROM THE RAILROAD STATION AT KELSEY, 165.0 FEET SOUTH OF RAILROAD MILEPOST 45, 0.15 MILE SOUTH OF A ROAD CROSSING, 57.0 FEET EAST OF THE EAST RAIL OF THE EAST RAILROAD TRACK, 99.5 FEET EAST-SOUTHEAST OF THE SOUTHEAST CORNER OF A SECTION TOOL HOUSE, 1.5 FEET SOUTH OF A FOOT PATH, 69.0 FEET SOUTHEAST OF THE CENTER OF A CULVERT, 1.0 FOOT NORTH OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1300.667	0.016	396.444	0.005	2/0	1991	00000025
NGVD29	1299.968	0.016	396.231	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.437 12B = -97.441 09 = -97.332 03 = -97.142

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29789.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29789.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29801

W 30

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: W 30

NGS Name: W 30

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0865](#) [Get Map](#)
NGS Quad / Sta Num : 46093111/
USGS Quad: ISLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	16	52 N	21 W	465911.00	930026.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1974	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 5 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1960)

Stamping: W 30 1934

6.0 MILES NORTHWEST OF FLOODWOOD, 5.95 MILES NORTHWEST ALONG THE GREAT NORTHERN RAILWAY FROM THE STATION IN FLOODWOOD, 6.95 MILES SOUTHEAST OF THE STATION IN WAWINA, 0.45 MILE NORTHWEST OF RAILROAD MILEPOST 81, 0.2 MILE SOUTHEAST OF ISLAND FARM ROAD CROSSING AND RAILWAY STATION ISLAND, 315.0 FEET NORTHWEST OF A JOG IN THE RIGHT-OF-WAY FENCE, 42.5 FEET NORTHEAST OF THE NORTHEAST RAIL OF THE NORTHEAST TRACK, 87.0 FEET SOUTHWEST OF THE CENTERLINE OF AN ABANDONED ROAD PARALLELING THE TRACK, 56.0 FEET SOUTHWEST OF A RIGHT-OF-WAY FENCE, 1.5 FEET SOUTHEAST OF A TELEPHONE POLE, 2.0 FEET NORTHEAST OF A WOODEN WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1267.681	0.016	386.390	0.005	2/0	1991	00000025
NGVD29	1267.015	0.007	386.187	0.002	1	1934	L13 MINN

Geoid Separations(ft): GEOID18 = -95.836 12B = -95.827 09 = -95.758 03 = -95.620

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29801.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29801.pdf



Geodetic Data Sheet (Brief)
GSID Station # 107999

WALLIN

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WALLIN

NGS Name: WALLIN

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DQ9929](#) [Get Map](#)
NGS Quad / Sta Num : 46093111/
USGS Quad: ISLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	16	52 N	21 W	465855.94	930019.91	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 34 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: WALLIN 2017

5.8 MILES NORTHWEST OF FLOODWOOD, 5.95 MILES NORTHWEST ALONG TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73 IN FLOODWOOD, AT TRUNK HIGHWAY 2 MILEPOINT 214.75, 35.7 FEET NORTHEAST OF TRUNK HIGHWAY 2, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Station Pair: FLYNN - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1265.454 0.016	385.711 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -95.797 12B = -95.790 09 = -95.718 03 = -95.584

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/WALLIN-DQ9929-3NE-07AUG2017.jpg	NE	Aug 7, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/WALLIN-DQ9929-2-07AUG2017.jpg		Aug 7, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/WALLIN-DQ9929-1-07AUG2017.jpg		Aug 7, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_107999.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_107999.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29813

WEGS MNDT

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WEGS MNDT

NGS Name: WEGS

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	2	52 N	17 W	470129.83	922813.79	2	B

NGS ACRN: [AC5029](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2017	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 4 FT)

Disk Type

HORIZONTAL CONTROL DISK

Mon. Agency

MNDT

Description: (2008)

Stamping: WEGS 1992

1.0 MILE SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 152 IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 29.00, 75.3 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53, 111.7 FEET SOUTH OF A TELEPHONE CABLE MARKER, 66.7 FEET SOUTH-SOUTHWEST OF A POWER POLE, 59.8 FEET SOUTHEAST OF MILEPOST 29, 4.2 FEET SOUTH OF A RIGHT-OF-WAY, CONTROL ACCESS AND A POWER POST, 2.5 FEET WEST OF A WITNESS POST.

Station Notes

THE ROD WAS DRIVEN TO REFUSAL. THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1336.441 0.016	407.348 0.005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -96.030 12B = -96.033 09 = -95.892 03 = -95.705

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>				
NAD83 (2011)	47 01 29.82926	92 28 13.79363	494887.215	236762.915	150841.925	72165.481	378.071		2018	GPS3119
NAD83 (2007)	47 01 29.82938	92 28 13.79453	494887.153	236762.927	150841.906	72165.485	378.099		2007	GPS2300
NAD83 (1996)	47 01 29.82910	92 28 13.79433	494887.167	236762.899	150841.910	72165.476	378.129	B	2004	GPS1954
NAD83 (1986)	47 01 29.82540	92 28 13.79488	494887.130	236762.525	150841.899	72165.362		C	1993	H1993

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/WEGS-AC5029-3E-13NOV2008.jpg	E	Nov 13, 2008
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/WEGS-AC5029-2-13NOV2008.jpg		Nov 13, 2008
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/WEGS-AC5029-1-13NOV2008.jpg		Nov 13, 2008

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29813.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29813.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WEGS MNDT RESET

NGS Name: WEGS RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1862](#) [Get Map](#)
NGS Quad / Sta Num : 47092233/
USGS Quad: CANYON

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	2	52 N	17 W	470129.83	922813.79	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 4 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** WEGS 1992 2017

10.0 MILES SOUTH OF COTTON, 10.0 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND COUNTY ROAD 52 IN CANYON, AT TRUNK HIGHWAY 53 MILEPOINT 29.00, 75.3 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 53, 66.7 FEET SOUTH-SOUTHWEST OF A POWER POLE WITH 2 GUY WIRES, 59.8 FEET SOUTHEAST OF MILEPOST 29, 4.2 FEET SOUTH OF A RIGHT-OF-WAY, CONTROL ACCESS AND A POWER POST, 2.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	1336. 293 0. 016	407. 303 0. 005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -96.030 12B = -96.033 09 = -95.892 03 = -95.705

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/WEGS_RESET-DR1862-3E-18SEP2017.jpg	E	Sep 18, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/WEGS_RESET-DR1862-2-18SEP2017.jpg		Sep 18, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/WEGS_RESET-DR1862-1-18SEP2017.jpg		Sep 18, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108349.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108349.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29815

WHITEFACE

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WHITEFACE

NGS Name: WHITEFACE

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN1682](#) [Get Map](#)
NGS Quad / Sta Num : 46092441/1022
USGS Quad: MCCARTY RIVER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	25	52 N	20 W	465751.32	924821.37		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	YES		PROJECTS 5 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

TRIANGULATION STATION DISK

Mon. Agency

NGS

Description: (1952)

Stamping: WHITEFACE 1952

6.0 MILES NORTHEAST OF FLOODWOOD, NEAR THE MOUTH OF THE WHITEFACE RIVER, 5.1 MILES EAST ON COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 AND TRUNK HIGHWAY 73 THEN 2.8 MILES NORTH ON COUNTY ROAD 150, 7.0 FEET EAST OF A WITNESS POST, 43.0 FEET NORTHWEST OF A TELEPHONE POLE, 60.0 FEET WEST OF COUNTY ROAD 170 (MCGONAGLE ROAD), 113.41 FEET SOUTHEAST OF WHITEFACE RM 1, 88.52 FEET WEST OF WHITEFACE RM 2.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.745 12B = -95.725 09 = -95.653 03 = -95.508

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	46 57 51.32159	92 48 21.37366	411119.933	214824.690	125309.606	65478.697	360.865	2	1999	17648		
NAD83 (1986)	46 57 51.31599	92 48 21.37555	411119.799	214824.124	125309.566	65478.524			2	1986	17289	
NAD27	46 57 51.52500	92 48 20.66500							2	1954	10724	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29815.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29815.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WHITEFACE AZ MK

NGS Name: WHITEFACE AZ MK

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ3028](#) [Get Map](#)
NGS Quad / Sta Num : 46092441/
USGS Quad: MCCARTY RIVER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	25	52 N	20 W	465744.00	924820.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	AZIMUTH MARK DISK	NGS

Description: **Stamping:** WHITEFACE 1952

6.0 MILES NORTHEAST OF FLOODWOOD, NEAR THE MOUTH OF THE WHITEFACE RIVER, 5.1 MILES EAST ON COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 AND TRUNK HIGHWAY 73 THEN 2.6 MILES NORTH ON COUNTY ROAD 150, 3.0 FEET NORTH OF A WITNESS POST, 27.0 FEET NORTH OF THE CENTERLINE OF A DRIVEWAY AND 13.0 FEET WEST OF THE CENTERLINE OF COUNTY ROAD 170.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.725 12B = -95.705 09 = -95.633 03 = -95.489

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_79226.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_79226.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WHITEFACE RM 1

NGS Name: WHITEFACE RM 1

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ3029](#) [Get Map](#)
NGS Quad / Sta Num : 46092441/
USGS Quad: MCCARTY RIVER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	25	52 N	20 W	465752.04	924820.12		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

BLANK

Disk Type

REFERENCE MARK DISK

Mon. Agency

NGS

Description: (2019)

Stamping: WHITEFACE NO 1 1952

6.0 MILES NORTHEAST OF FLOODWOOD, NEAR THE MOUTH OF THE WHITEFACE RIVER, 5.1 MILES EAST ON COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 AND TRUNK HIGHWAY 73 THEN 2.8 MILES NORTH ON COUNTY ROAD 150, 3.0 FEET WEST OF A RIGHT-OF-WAY FENCE AND 35.0 FEET WEST OF THE CENTERLINE OF COUNTY ROAD 170 (MCGONAGLE ROAD).

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.745 12B = -95.725 09 = -95.653 03 = -95.508

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_79227.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_79227.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WHITEFACE RM 2

NGS Name: WHITEFACE RM 2

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [CJ3030](#) [Get Map](#)
NGS Quad / Sta Num : 46092441/
USGS Quad: MCCARTY RIVER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	25	52 N	20 W	465751.03	924820.17		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	1952	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

Monument Type

BLANK

Disk Type

REFERENCE MARK DISK

Mon. Agency

NGS

Description: (2019)

Stamping: WHITEFACE NO 2 1952

6.0 MILES NORTHEAST OF FLOODWOOD, NEAR THE MOUTH OF THE WHITEFACE RIVER, 5.1 MILES EAST ON COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 AND TRUNK HIGHWAY 73 THEN 2.8 MILES NORTH ON COUNTY ROAD 150, 1.0 FOOT WEST OF A RIGHT-OF-WAY FENCE AND 33.0 FEET EAST OF THE CENTERLINE OF COUNTY ROAD 170 (MCGONAGLE ROAD).

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.745 12B = -95.725 09 = -95.653 03 = -95.508

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_79228.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_79228.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29822

WITTIG MNDT

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WITTIG MNDT

NGS Name: WITTIG

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [AC5031](#) [Get Map](#)
NGS Quad / Sta Num : 47092323/
USGS Quad: MEADOWLANDS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	34	53 N	19 W	470159.61	924435.00	2	B

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1995	2015	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE) (DEPTH 28 FT)	METAL ROD	MNDT

Description: (2008) **Stamping:** WITTIG 1995

2.5 MILES SOUTH OF MEADOWLANDS, 2.0 MILES SOUTH ALONG COUNTY ROAD 29 FROM THE JUNCTION OF COUNTY ROAD 29 AND COUNTY ROAD 133 IN MEADOWLANDS, THEN 0.5 MILE SOUTH ON COUNTY ROAD 5, THEN CONTINUE SOUTH 31.5 FEET EAST OF COUNTY ROAD 5, 28.0 FEET SOUTH OF A GRAVEL ROAD (SWEDE TOWN ROAD), 172.0 FEET NORTH OF A POWER POLE, 47.2 FEET SOUTH OF A POWER POLE, 3.1 FEET NORTH OF A WITNESS POST.

Station Notes

THE STATION FILLS WITH WATER.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1267. 901 0. 016	386. 457 0. 005	2/1	2012 00000702

Geoid Separations(ft): GEOID18 = -96.420 12B = -96.414 09 = -96.319 03 = -96.151

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>				
NAD83 (2011)	47 01 59. 61115	92 44 35. 00015	426915. 864	239916. 386	130124. 216	73126. 661	357. 079		2018	GPS3119
NAD83 (2007)	47 01 59. 61120	92 44 35. 00101	426915. 805	239916. 392	130124. 198	73126. 662	357. 108		2007	GPS2300
NAD83 (1996)	47 01 59. 61100	92 44 35. 00087	426915. 814	239916. 371	130124. 201	73126. 656	357. 117	B	2004	GPS1954

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/WITTIG-AC5031-3E-13NOV2008.jpg	E	Nov 13, 2008
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/WITTIG-AC5031-2-13NOV2008.jpg		Nov 13, 2008
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/WITTIG-AC5031-1-13NOV2008.jpg		Nov 13, 2008

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29822.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29822.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WOOD MNDT

NGS Name: WOOD

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0651](#) [Get Map](#)
NGS Quad / Sta Num : 46092444/1074
USGS Quad: FLOODWOOD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	7	51 N	20 W	465523.01	925450.61	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1999	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	VERTICAL CONTROL DISK	MNDT

Description: (1999) **Stamping:** WOOD 1974

AT THE SOUTH EDGE OF FLOODWOOD, 0.05 MILE SOUTHEAST ON TRUNK HIGHWAY 2 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73, AT TRUNK HIGHWAY 2 MILEPOINT 220.8, 28.0 FEET NORTHEAST OF TRUNK HIGHWAY 2, 28.0 FEET SOUTHEAST OF A POWER POLE WITH A LIGHT, 7.0 FEET SOUTHEAST OF AN ENTRANCE, 6.2 FEET NORTH OF THE SOUTHWEST END OF A METAL CULVERT, 6.4 FEET WEST OF A WITNESS POST, FOUND THE MONUMENT OUT OF THE GROUND, REMOVED THE DISK.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1254. 945	0. 016	382. 508	0. 005	2/0	1991	00000025
NGVD29	1254. 391	0. 016	382. 339	0. 005	2	1974	L23566

Geoid Separations(ft): GEOID18 = -95.321 12B = -95.302 09 = -95.226 03 = -95.115

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info				
	Latitude		Longitude		X	Y	X	Y			Year	Reference			
NAD83 (1996)	46	55	23. 01374	92	54	50. 60851	384032. 722	1999	39. 650	117053. 408	60941. 727	353. 503	2	1999	17648
NAD83 (1986)	46	55	23. 00699	92	54	50. 61124	384032. 529	1999	38. 967	117053. 349	60941. 519		2	1986	17289
NAD27	46	55	23. 21044	92	54	49. 88995							2	1977	15924

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29825.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29825.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29829

X 160

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: X 160

NGS Name: X 160

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0407](#)

[Get Map](#)

NGS Quad / Sta Num : 47092312/

USGS Quad: ZIM

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	14	55 N	18 W	471520.28	923515.73	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1948	GOOD	Horz=? Vert=YES	NO		PROJECTS 6 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1935)

Stamping: X 160 1935

1.0 MILES SOUTH ON A RAILROAD FROM THE RAILROAD STATION IN FENS, THEN 0.7 MILE EAST ON A GRASSY ROAD, 41.0 FEET SOUTH OF A GRASSY ROAD, 15.0 FEET SOUTH OF THE SOUTH DITCH BANK, 2.0 FEET WEST OF A WITNESS POST.

Station Notes

NO ACCESSIBLE ROADS 07/26/21.

Leveling-Derived Orthometric Heights (Elevations)

Vertical <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1325.421	0.016	403.989	0.005	2/0	1991	00000025
NGVD29	1324.725	0.016	403.777	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.933 12B = -97.936 09 = -97.857 03 = -97.703

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29829.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29829.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29832

X 163

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: X 163

NGS Name: X 163

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0139](#) [Get Map](#)
NGS Quad / Sta Num : 46092144/
USGS Quad: INDEPENDENCE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	52 N	17 W	465651.50	922647.88	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 4 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1978)

Stamping: X 163 1935

0.7 MILE SOUTHEAST ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 33 AND TRUNK HIGHWAY 53 IN INDEPENDENCE, 48.5 FEET SOUTHWEST OF SOUTHBOUND TRUNK HIGHWAY 53, AT TRUNK HIGHWAY 53 MILEPOINT 23.3, 500.0 FEET SOUTHEAST OF THE CREST OF A HILL, 107.0 FEET SOUTHEAST OF THE SOUTHWEST END OF A CONCRETE CULVERT, 1.5 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1375.148	0.016	419.146	0.005	2/1	2021	00000963
NGVD29	1374.702	0.016	419.010	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.233 12B = -95.229 09 = -95.105 03 = -94.908

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/X_163-RN0139-3SW-02AUG2017.jpg	SW	Aug 2, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/X_163-RN0139-2-02AUG2017.jpg		Aug 2, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/X_163-RN0139-1-02AUG2017.jpg		Aug 2, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29832.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29850

X 271

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: X 271

NGS Name: X 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0706](#) [Get Map](#)
NGS Quad / Sta Num : 46092441/
USGS Quad: MCCARTY RIVER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	1	51 N	20 W	465616.72	924823.33	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2021	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 5 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** X 271 1948

6.15 MILES NORTHEAST OF FLOODWOOD, 0.95 MILE NORTH ON COUNTY ROAD 170 FROM THE JUNCTION OF COUNTY ROAD 8 AND COUNTY ROAD 170 (MC GONAGLE ROAD), AT A GRAVEL PIT, 128.0 FEET NORTH-NORTHWEST OF THE TOP OF A SMALL GRADE, 28.0 FEET WEST OF COUNTY ROAD 170, 68.0 FEET NORTHWEST OF AN ENTRANCE TO A GRAVEL PIT, 2.0 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1298.849	0.016	395.890	0.005	2/0	1991	00000025
NGVD29	1298.229	0.016	395.701	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.485 12B = -95.469 09 = -95.394 03 = -95.262

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29850.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29851

X 272

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: X 272

NGS Name: X 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0516](#) [Get Map](#)
NGS Quad / Sta Num : 47092332/
USGS Quad: ELMER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	24	53 N	20 W	470408.00	924822.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** X 272 1948

3.4 MILES WEST ON COUNTY ROAD 133 FROM THE HIGH SCHOOL AT MEADOWLANDS, AT THE JUNCTION OF COUNTY ROAD 133 AND A ROAD SOUTH AND A TRAIL NORTH, 56.0 FEET SOUTH OF COUNTY ROAD 133, 27.0 FEET WEST OF A ROAD SOUTH, 22.0 FEET SOUTH OF A TELEPHONE POLE, 66.0 FEET SOUTHWEST OF THE SOUTH END OF A CONCRETE CULVERT, 2.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1265. 342	0. 016	385. 677	0. 005	2/0	1991	00000025
NGVD29	1264. 709	0. 007	385. 484	0. 002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -96.735 12B = -96.716 09 = -96.660 03 = -96.476

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Geodetic Data Sheet (Brief)
GSID Station # 29852

X 274

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: X 274

NGS Name: X 274

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0474](#) [Get Map](#)
NGS Quad / Sta Num : 47092324/
USGS Quad: MEADOWLANDS NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	17	54 N	18 W	471002.03	923910.67	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2021	NOT FOUND	Horz=NO Vert=NO	NO		PROJECTS 5 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** X 274 1948

7.5 MILES EAST ON COUNTY ROAD 52 FROM THE JUNCTION OF COUNTY ROAD 52 AND COUNTY ROAD 5 AT TOIVOLA, 0.5 MILE WEST OF A CROSSROAD AND COUNTY ROAD 52 OFFSET, AT THE JUNCTION OF COUNTY ROAD 52 AND A ROAD SOUTH, 22.0 FEET SOUTH OF COUNTY ROAD 52, 112.0 FEET WEST OF A ROAD SOUTH, 66.5 FEET WEST OF A FENCE CORNER, 1.0 FOOT NORTH OF A FENCE, 2.0 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1294. 801	0. 016	394. 656	0. 005	2/0	1991	00000025
NGVD29	1294. 177	0. 016	394. 466	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.579 12B = -97.579 09 = -97.483 03 = -97.296

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29852.pdf

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Geodetic Data Sheet (Brief)
GSID Station # 29853

X 275

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: X 275

NGS Name: X 275

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0864](#) [Get Map](#)
NGS Quad / Sta Num : 46093111/
USGS Quad: ISLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	17	52 N	21 W	465938.39	930145.60	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	GOOD	Horz=NO Vert=YES	YES		PROJECTS 6 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2001) **Stamping:** X 275 1948

7.35 MILES NORTHWEST OF FLOODWOOD, 2.1 MILES SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 200 (THE JUNCTION IS 10.0 MILES NORTHWEST OF FLOODWOOD), AT TRUNK HIGHWAY 2 MILEPOINT 213.4, 71.6 FEET NORTHEAST OF TRUNK HIGHWAY 2, 15.0 FEET NORTHWEST OF A FIELD ENTRANCE, 1.7 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1269.817	0.016	387.041	0.005	2/1	2021	00000963
NGVD29	1268.705	0.016	386.702	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.879 12B = -95.866 09 = -95.797 03 = -95.663

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	46 59 38.38876	93 01 45.60119	355417.193	226005.227	108331.377	68886.531	357.732		2012	GPS2800
NAD83 (2007)	46 59 38.38890	93 01 45.60208	355417.131	226005.242	108331.358	68886.536	357.761		2007	GPS2300
NAD83 (1996)	46 59 38.38873	93 01 45.60168	355417.159	226005.224	108331.367	68886.530	357.789	C	2004	GPS1957

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/X_275-RN0864-3NE-24JUL2017.jpg	NE	Jul 24, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/X_275-RN0864-2-24JUL2017.jpg		Jul 24, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/X_275-RN0864-1-24JUL2017.jpg		Jul 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29853.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29855

X 279

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: X 279

NGS Name: X 279

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1369](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	7	54 N	21 W	471002.00	930355.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=? Vert=YES	NO		PROJECTS 5 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: X 279 1948

3.6 MILES NORTHEAST OF GOODLAND, AT THE ITASCA-SAINT LOUIS COUNTY LINE AND A 90 DEGREE TURN IN A ROAD AND A DIM ROAD EAST, 57.0 FEET EAST OF THE NORTH TANGENT OF A ROAD, 31.0 FEET NORTH OF A GRASSY ROAD EAST, 9.0 FEET NORTH OF A ROAD DITCH, 2.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1338.429	0.016	407.954	0.005	2/0	1991	00000025
NGVD29	1337.658	0.016	407.719	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.886 12B = -96.883 09 = -96.821 03 = -96.689

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29855.pdf

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Geodetic Data Sheet (Brief)
GSID Station # 29856

X 28

04/28/2026
[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: X 28

NGS Name: X 28

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0348](#) [Get Map](#)
NGS Quad / Sta Num : 47092321/
USGS Quad: KELSEY

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	10	54 N	18 W	471046.00	923610.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1948	GOOD	Horz=? Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1934) **Stamping:** X 28 1934

1.75 MILES NORTH ON A RAILROAD FROM THE RAILROAD STATION AT KELSEY, 492.0 FEET SOUTH OF A RAILROAD MILEPOST 47, AT A PRIVATE ROAD CROSSING, 28.0 FEET WEST OF THE WEST RAIL OF THE WEST RAILROAD TRACK, 48.0 FEET NORTH OF A PRIVATE ROAD, 41.0 FEET SOUTHEAST OF THE NORTHEAST CORNER OF A FARMHOUSE PORCH, 29.5 FEET NORTHEAST OF A WELL, 2.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1309. 873	0. 016	399. 250	0. 005	2/0	1991	00000025
NGVD29	1309. 256	0. 016	399. 062	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.638 12B = -97.644 09 = -97.536 03 = -97.352

*** No Horizontal Positions in the Database ***

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29856.pdf



Geodetic Data Sheet (Brief)
GSID Station # 54251

X 30

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: X 30

NGS Name: X 30

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	8	52 N	21 W	470013.00	930208.00	2	

NGS ACRN: [SJ1980](#)

[Get Map](#)

NGS Quad / Sta Num : 47093222/

USGS Quad: WAWINA

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2017	UNKNOWN	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type

BLANK

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description:

Stamping: X 30 1934

8.0 MILES NORTHWEST OF FLOODWOOD, 8.0 MILES NORTH ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 73, 2090.0 FEET NORTHEAST OF TRUNK HIGHWAY 2 ON RAILROAD PROPERTY.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1267.370	0.016	386.295	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -95.958 12B = -95.945 09 = -95.879 03 = -95.738

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_54251.pdf

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Geodetic Data Sheet (Brief)
GSID Station # 29874

Y 160

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Y 160

NGS Name: Y 160

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0406](#) [Get Map](#)
NGS Quad / Sta Num : 47092312/
USGS Quad: ZIM

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	55 N	18 W	471512.00	923613.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2005	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1935) **Stamping:** Y 160 1935

1.0 MILE SOUTH ON A RAILROAD FROM THE RAILROAD STATION AT FENS, 185.0 FEET EAST OF THE EAST RAIL OF RAILROAD TRACKS, 116.0 FEET EAST OF COUNTY ROAD 7, 62.0 FEET EAST OF THE SOUTHEAST CORNER OF A BRIDGE, 16.0 FEET SOUTH OF A SIDE ROAD EAST, 68.5 FEET NORTH-NORTHWEST OF THE NORTHWEST CORNER OF A HOUSE.

Station Notes

FOUND THE MARK BROKEN OFF AND LAYING DOWN.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1320.634	0.016	402.530	0.005	2/0	1991	00000025
NGVD29	1319.919	0.007	402.312	0.002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -97.926 12B = -97.930 09 = -97.848 03 = -97.700

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Geodetic Data Sheet (Brief)
GSID Station # 29894

Y 271

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Y 271

NGS Name: Y 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0707](#) [Get Map](#)
NGS Quad / Sta Num : 46092441/
USGS Quad: MCCARTY RIVER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	1	51 N	20 W	465529.00	924829.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=NO Vert=YES	YES		PROJECTS 4 IN.	STEEL SPIKE ADJ TO MON

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: Y 271 1948

5.1 MILES EAST ON COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 AND TRUNK HIGHWAY 73 AT FLOODWOOD, 0.1 MILE WEST OF COUNTY ROAD 170 (MC GONAGLE ROAD), 32.0 FEET NORTH OF COUNTY ROAD 8, 60.0 FEET WEST-NORTHWEST OF THE NORTH END OF A METAL CULVERT, 2.0 FEET SOUTH OF A FENCE, 2.0 FEET WEST OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1304. 909	0. 016	397. 737	0. 005	2/0	1991	00000025
NGVD29	1304. 285	0. 016	397. 547	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.364 12B = -95.341 09 = -95.269 03 = -95.141

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Geodetic Data Sheet (Brief)
GSID Station # 29895

Y 272

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Y 272

NGS Name: Y 272

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0517](#)

[Get Map](#)

NGS Quad / Sta Num : 47092332/

USGS Quad: ELMER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	13	53 N	20 W	470408.00	924926.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=? Vert=YES	NO	CO RD		NO MAG MATERIAL

Monument Type

CULVERT - ANY SIZE, ANY TYPE

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: Y 272 1948

4.2 MILES WEST ON COUNTY ROAD 133 FROM THE HIGH SCHOOL AT MEADOWLANDS, 0.35 MILE WEST OF A CROSSROAD, IN THE EAST END OF THE NORTH HEADWALL OF A COUNTY ROAD 133 BOX CULVERT, 18.0 FEET NORTH OF COUNTY ROAD 133.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1260.270	0.016	384.131	0.005	2/0	1991	00000025
NGVD29	1259.633	0.016	383.937	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.729 12B = -96.709 09 = -96.657 03 = -96.470

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Geodetic Data Sheet (Brief)
GSID Station # 29896

Y 274

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Y 274

NGS Name: Y 274

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0475](#) [Get Map](#)
 NGS Quad / Sta Num : 47092324/1010
 USGS Quad: MEADOWLANDS NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	18	54 N	18 W	471002.39	924037.03	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1952	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1952) **Stamping:** Y 274 1948

6.5 MILES EAST OF TOIVOLA, 6.5 MILES EAST ON COUNTY ROAD 52 FROM THE JUNCTION OF COUNTY ROAD 5 AT TOIVOLA, 26.0 FEET SOUTH OF ARKOLA ROAD, 10.0 FEET WEST OF A WEST GATE POST, 2.0 FEET EAST OF A WITNESS POST, 49.92 FEET EAST OF STATION KELSEY.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1300. 503	0. 016	396. 394	0. 005	2/0	1991	00000025
NGVD29	1299. 873	0. 016	396. 202	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.579 12B = -97.579 09 = -97.490 03 = -97.303

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	47 10 02. 39450	92 40 37. 03017	443542. 570	288778. 459	135192. 046	88019. 850	366. 707	2	1999	17648
NAD83 (1986)	47 10 02. 39318	92 40 37. 03524	443542. 220	288778. 326	135191. 939	88019. 810		2	1986	17289
NAD27	47 10 02. 61900	92 40 36. 34200						2	1954	10724

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29896.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29897

Y 275

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Y 275

NGS Name: Y 275

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	7	52 N	21 W	470007.23	930246.84	2	3

NGS ACRN: [SJ1447](#)

[Get Map](#)

NGS Quad / Sta Num : 47093222/

USGS Quad: WAWINA

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2017	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (2002)

Stamping: Y 275 1948

8.8 MILES NORTHWEST OF FLOODWOOD, 1.15 MILES SOUTHEAST ALONG TRUNK HIGHWAY 2 FROM THE JUNCTION OF TRUNK HIGHWAY 2 AND TRUNK HIGHWAY 200 (THE JUNCTION IS 10.0 MILES NORTHWEST OF FLOODWOOD), AT TRUNK HIGHWAY 2 MILEPOINT 212.4, 73.1 FEET NORTHEAST OF TRUNK HIGHWAY 2, 39.0 FEET SOUTHEAST OF AN ENTRANCE, 1.7 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1273. 160	0. 016	388. 060	0. 005	2/1	2021	00000963
NGVD29	1272. 373	0. 016	387. 820	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.928 12B = -95.912 09 = -95.846 03 = -95.712

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/Y_275-SJ1447-3SE-12JUN2017.jpg	SE	Jun 12, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/Y_275-SJ1447-2-12JUN2017.jpg		Jun 12, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/Y_275-SJ1447-1-12JUN2017.jpg		Jun 12, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29897.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29897.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29899

Y 28

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Y 28

NGS Name: Y 28

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0349](#) [Get Map](#)
 NGS Quad / Sta Num : 47092321/1017
 USGS Quad: KELSEY

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	34	55 N	18 W	471239.38	923613.31	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1952	2005	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2019) **Stamping:** Y 28 1934

6.5 MILES NORTHWEST OF COTTON, 130.0 FEET SOUTH-SOUTHWEST OF THE SOUTHWEST CORNER OF THE SAX RAILROAD STATION, 2.95 MILES NORTH OF COUNTY ROAD 52, 40.0 FEET WEST OF THE WEST RAIL OF A RAILROAD, 8.0 FEET EAST OF THE EAST RAIL OF A RAILROAD SIDING, 1.0 FOOT SOUTH OF A WITNESS POST, 143.82 FEET SOUTHEAST OF STATION SAX.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1315.286	0.016	400.900	0.005	2/0	1991	00000025
NGVD29	1314.604	0.007	400.692	0.002	1	1941	L27 MINN

Geoid Separations(ft): GEOID18 = -97.805 12B = -97.805 09 = -97.710 03 = -97.542

Geodetic Position and St Louis County Coordinates - South Zone

Datum and Adjustment	Geodetic Positions						County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude		Longitude		X	Y	X	Y	Year	Reference				
NAD83 (1996)	47	12	39.38327	92	36	13.31402	461796.722	304641.051	140755.922	92854.778	371.145	2	1999	17648
NAD83 (1986)	47	12	39.38288	92	36	13.31824	461796.430	304641.012	140755.834	92854.766		2	1986	17289
NAD27	47	12	39.61200	92	36	12.63100						2	1954	10724

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29899.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29899.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29900

Y 280

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Y 280

NGS Name: Y 280

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0560](#) [Get Map](#)
NGS Quad / Sta Num : 47092343/
USGS Quad: RILEY

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	5	55 N	20 W	471658.68	925418.40	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2021	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** Y 280 1948

6.8 MILES NORTHEAST OF SILICA, 1.1 MILES NORTH ON TRUNK HIGHWAY 73 FROM A RAILROAD CROSSING AT SILICA THEN 5.7 MILES EAST ON COUNTY ROAD 442, 28.0 FEET SOUTH OF A ROAD, AT THE TOP OF A GRADE, 255.0 FEET EAST OF A SHARP BREAK IN A GRADE, 0.3 MILE WEST OF A ROAD SOUTH, 2.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1305.860	0.016	398.027	0.005	2/0	1991	00000025
NGVD29	1305.083	0.016	397.790	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.684 12B = -97.687 09 = -97.605 03 = -97.513

Geodetic Position and St Louis County Coordinates - Central Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	47 16 58.68523	92 54 18.40086	387030.303	112357.082	117967.072	34246.507	368.202	3	2021	GPSBM

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/Y_280-SJ0560-3S-27JUL2021.jpg	S	Jul 27, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/Y_280-SJ0560-2-27JUL2021.jpg		Jul 27, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/Y_280-SJ0560-1-27JUL2021.jpg		Jul 27, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29900.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29900.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29916

YANK MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: YANK MNDT

NGS Name: YANK

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	17	52 N	21 W	465951.07	930133.78		2

NGS ACRN: RN0868	Get Map
NGS Quad / Sta Num : 46093111/1038	
USGS Quad: ISLAND	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	1974	GOOD	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

TRAVERSE STATION DISK

Mon. Agency

MNDT

Description: (1974)

Stamping: YANK 1974

1.2 MILES NORTHWEST OF ISLAND, 5.65 MILES SOUTHEAST ALONG A RAILROAD FROM A COUNTY ROAD 25 CROSSING IN WAWINA, 7.55 MILES NORTHWEST ALONG A RAILROAD FROM A TRUNK HIGHWAY 73 CROSSING IN FLOODWOOD, 3.9 FEET SOUTHWEST OF THE SOUTHWEST RAIL OF THE RAILROAD TRACKS, 49.6 FEET NORTH OF A TELEPHONE POLE NUMBER 20, 9.0 FEET SOUTHEAST OF A TRAIL, 14.2 FEET NORTH OF A STOP SIGN, 44.5 FEET SOUTH OF A STOP SIGN, 31.2 FEET NORTHEAST OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

*** No 1st or 2nd Order Vertical Positions in the Database ***

Geoid Separations(ft): GEOID18 = -95.915 12B = -95.902 09 = -95.836 03 = -95.695

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>		
NAD83 (1996)	46 59 51.07004	93 01 33.78225	356245.959	227284.030	108583.985	69276.311	356.717	2	1999	17648		
NAD83 (1986)	46 59 51.06410	93 01 33.77986	356246.120	227283.427	108584.035	69276.127		2	1986	17289		
NAD27	46 59 51.27535	93 01 33.03848						2	1977	15924		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29916.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29916.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Z 163

NGS Name: Z 163

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0712](#) [Get Map](#)
NGS Quad / Sta Num : 46092411/
USGS Quad: ALBORN

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	24	52 N	18 W	465808.84	923318.32	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1948	GOOD	Horz=? Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1935)

Stamping: Z 163 1935

1.05 MILES EAST ON COUNTY ROAD 47 FROM THE RAILROAD STATION AT ALBORN, 0.65 MILE EAST OF A SCHOOL, AT THE JUNCTION OF COUNTY ROAD 47 (EAST-WEST) -COUNTY ROAD 7 (SOUTH) AND COUNTY ROAD 220 (NORTH), 32.0 FEET NORTH OF COUNTY ROAD 47, 95.0 FEET WEST OF COUNTY ROAD 220, 59.0 FEET WEST OF A FENCE CORNER, 42.0 FEET EAST OF A POWER POLE, 1.5 FEET SOUTH OF A FENCE, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1341.083	0.016	408.763	0.005	2/0	1991	00000025
NGVD29	1340.568	0.016	408.606	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.679 12B = -95.672 09 = -95.544 03 = -95.371

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29924.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29924.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Z 271

NGS Name: Z 271

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [RN0708](#) [Get Map](#)
NGS Quad / Sta Num : 46092441/
USGS Quad: MCCARTY RIVER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	2	51 N	20 W	465529.79	924950.47	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=? Vert=YES	YES		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2019)

Stamping: Z 271 1948

4.05 MILES EAST ON COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 AND TRUNK HIGHWAY 73 AT FLOODWOOD, 27.0 FEET NORTH OF COUNTY ROAD 8, 0.15 MILE WEST OF A SLIGHT COUNTY ROAD 8 CURVE, 40.0 FEET EAST OF A DIM TRAIL NORTH, 214.0 FEET EAST OF A ROAD NORTHEAST TO A GRAVEL PIT, 336.0 FEET EAST OF A DUMP ROAD, 2.0 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1298. 738	0. 016	395. 856	0. 005	2/0	1991	00000025
NGVD29	1298. 111	0. 016	395. 665	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.361 12B = -95.341 09 = -95.269 03 = -95.144

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29941.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29941.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29942

Z 272

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Z 272

NGS Name: Z 272

County: ST. LOUIS, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	53 N	20 W	470407.26	925053.67	2	

NGS ACRN: SJ0518	Get Map
NGS Quad / Sta Num : 47092332/	
USGS Quad: ELMER	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1948	GOOD	Horz=? Vert=YES	YES		PROJECTS 5 IN.	SEE DESCRIPTION

Monument Type

CONCRETE MONUMENT (CAST-IN-PLACE)

Disk Type

BENCH MARK DISK

Mon. Agency

NGS

Description: (1948)

Stamping: Z 272 1948

5.4 MILES WEST ON COUNTY ROAD 133 FROM THE HIGH SCHOOL AT MEADOWLANDS, 0.5 MILE WEST OF THE JUNCTION OF COUNTY ROAD 133 AND A ROAD NORTH, 36.0 FEET SOUTH OF COUNTY ROAD 133, 16.0 FEET EAST OF A FIELD ROAD SOUTH, 2.0 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1272. 678	0. 016	387. 913	0. 005	2/0	1991	00000025
NGVD29	1272. 032	0. 016	387. 716	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.703 12B = -96.680 09 = -96.637 03 = -96.450

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29942.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29942.pdf



Geodetic Data Sheet (Brief)
GSID Station # 29943

Z 274

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Z 274

NGS Name: Z 274

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0476](#) [Get Map](#)
NGS Quad / Sta Num : 47092324/
USGS Quad: MEADOWLANDS NW

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	12	54 N	19 W	471003.17	924130.36	2	

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1948	2021	GOOD	Horz=NO Vert=YES	YES		PROJECTS 6 IN.	SEE DESCRIPTION

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** Z 274 1948

5.65 MILES EAST ON COUNTY ROAD 52 FROM THE JUNCTION OF COUNTY ROAD 52 AND COUNTY ROAD 5 AT TOIVOLA, 150.0 FEET WEST OF THE TOP OF A LOW GRADE AND A FOREST FIRE SIGN, 58.0 FEET NORTH OF COUNTY ROAD 52, 15.0 FEET WEST OF A DIM ROAD NORTH, 1.5 FEET SOUTH OF A WITNESS POST.

Station Notes

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1299.400	0.016	396.058	0.005	2/0	1991	00000025
NGVD29	1298.767	0.016	395.865	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.579 12B = -97.575 09 = -97.490 03 = -97.303

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/Z_274-SJ0476-3NW-27JUL2021.jpg	NW	Jul 27, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/Z_274-SJ0476-2-27JUL2021.jpg		Jul 27, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/Z_274-SJ0476-1-27JUL2021.jpg		Jul 27, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29943.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29943.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Z 279

NGS Name: Z 279

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ1329](#) [Get Map](#)
NGS Quad / Sta Num : 47093221/
USGS Quad: FLOODWOOD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	5	54 N	21 W	471107.00	930229.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1968	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** Z 279 1948

5.9 MILES SOUTH ON TRUNK HIGHWAY 73 FROM A RAILROAD CROSSING AT SILICA THEN 1.1 MILES SOUTHWEST ON COUNTY ROAD 18, 47.0 FEET NORTHWEST OF COUNTY ROAD 18, 240.0 FEET NORTHEAST OF THE TOP OF A GRADE, AT THE NORTHEAST END OF A MEADOW, 24.0 FEET NORTH OF A ROAD WEST, 2.0 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1335.739	0.016	407.134	0.005	2/0	1991	00000025
NGVD29	1334.971	0.007	406.900	0.002	1	1960	L28 MINN

Geoid Separations(ft): GEOID18 = -97.001 12B = -97.001 09 = -96.936 03 = -96.804

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29946.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29946.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Z 28

NGS Name: Z 28

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0350](#) [Get Map](#)
NGS Quad / Sta Num : 47092321/
USGS Quad: KELSEY

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	22	55 N	18 W	471426.00	923614.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1995	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1995) **Stamping:** Z 28 1934

12.4 MILES SOUTH OF IRON JUNCTION, 12.4 MILES SOUTH ALONG COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND MAIN STREET IN IRON JUNCTION.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1319.092	0.016	402.060	0.005	2/0	1991	00000025
NGVD29	1318.386	0.007	401.845	0.002	1	1934	L27 MINN

Geoid Separations(ft): GEOID18 = -97.900 12B = -97.900 09 = -97.818 03 = -97.661

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29947.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29947.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Z 280

NGS Name: Z 280

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [SJ0559](#) [Get Map](#)
NGS Quad / Sta Num : 47092343/
USGS Quad: RILEY

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	4	55 N	20 W	471658.34	925318.43	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2021	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 5 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1948) **Stamping:** Z 280 1948

4.75 MILES SOUTHWEST OF LITTLE SWAN, 1.75 MILES WEST OF A NORTH-SOUTH GRAVEL ROAD (COUNTY ROAD 965), 1.9 MILES EAST OF A RAILROAD CROSSING, AT THE TOP OF A LOW GRADE, 31.0 FEET SOUTH OF COUNTY ROAD 442, 16.0 FEET EAST OF A TRAIL SOUTH, 2.0 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1308.567	0.016	398.852	0.005	2/0	1991	00000025
NGVD29	1307.793	0.016	398.616	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.729 12B = -97.729 09 = -97.651 03 = -97.556

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_29948.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_29948.pdf



Geodetic Data Sheet (Brief)
GSID Station # 108301

ZEBOTT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ZEBOTT

NGS Name: ZEBOTT

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR1839](#) [Get Map](#)
NGS Quad / Sta Num : 47092243/
USGS Quad: CENTRAL LAKES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	3	55 N	17 W	471638.12	922838.42	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 57 FT)

Disk Type

METAL ROD (WITH REMOVABLE ID DISK)

Mon. Agency

MNDT

Description: (2017)

Stamping: ZEBOTT 2017

13.5 MILES SOUTH OF EVELETH, 9.25 MILES SOUTH ALONG TRUNK HIGHWAY 53 FROM THE JUNCTION OF TRUNK HIGHWAY 53 AND TRUNK HIGHWAY 37 (THE JUNCTION IS 5.0 MILES SOUTH OF EVELETH), AT TRUNK HIGHWAY 53 MILEPOINT 46.6, 34.5 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 53, 5.0 FEET EAST OF A WITNESS POST.

Station Pair: STOORE - ST. LOUIS, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1380.998 0.016	420.929 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -97.953 12B = -97.953 09 = -97.897 03 = -97.729

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ZEBOTT-DR1839-3W-17OCT2017.jpg	W	Oct 17, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ZEBOTT-DR1839-2-17OCT2017.jpg		Oct 17, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ZEBOTT-DR1839-1-17OCT2017.jpg		Oct 17, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108301.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108301.pdf



Geodetic Data Sheet (Brief)
GSID Station # 40574

ZOBEL MNDT

04/28/2026

[Sheet Help](#)

Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ZOBEL MNDT

NGS Name: ZOBEL

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DE9564](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	7	50 N	20 W	464952.42	925445.15	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2017	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

Monument Type

ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)

Disk Type

SURVEY DISK

Mon. Agency

MNDT

Description: (1999)

Stamping: ZOBEL 1999

6.25 MILES SOUTH OF FLOODWOOD, 6.25 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 36.70, 70.0 FEET WEST OF TRUNK HIGHWAY 3, 19.0 FEET SOUTH OF AN ENTRANCE, 18.6 FEET NORTH-NORTHEAST OF A RIGHT-OF-WAY POST, 31.5 FEET NORTH-NORTHEAST OF A CABLE MARKER, 2.0 FEET NORTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u>	<u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u>	<u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u>	<u>Reference</u>
NAVD88	1278.337	0.016	389.638	0.005	2/1	2004	00000464

Geoid Separations(ft): GEOID18 = -94.462 12B = -94.458 09 = -94.360 03 = -94.255

Geodetic Position and St Louis County Coordinates - South Zone

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>				
NAD83 (2011)	46 49 52.42291	92 54 45.14680	384214.225	166442.994	117108.730	50731.926	360.850		2012	GPS2800
NAD83 (2007)	46 49 52.42303	92 54 45.14766	384214.166	166443.007	117108.712	50731.930	360.879		2007	GPS2300
NAD83 (1996)	46 49 52.42270	92 54 45.14723	384214.195	166442.973	117108.721	50731.920	360.901	C	2003	GPS1769

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40574.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40574.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ZOBEL MNDT RESET

NGS Name: ZOBEL RESET

County: ST. LOUIS, MN (Sheet 1)

NGS ACRN: [DR5181](#) [Get Map](#)
NGS Quad / Sta Num : 46092443/
USGS Quad: PRAIRIE LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	7	50 N	20 W	464952.42	925445.15	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2017	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017)

Stamping: ZOBEL 1999 2017

6.25 MILES SOUTH OF FLOODWOOD, 6.25 MILES SOUTH ALONG TRUNK HIGHWAY 73 FROM THE JUNCTION OF TRUNK HIGHWAY 73 AND TRUNK HIGHWAY 2 IN FLOODWOOD, AT TRUNK HIGHWAY 73 MILEPOINT 36.70, 70.0 FEET WEST OF TRUNK HIGHWAY 73, 19.0 FEET SOUTH OF A DRIVEWAY, 18.6 FEET NORTH-NORTHEAST OF A RIGHT-OF-WAY POST, 31.5 FEET NORTH-NORTHEAST OF A CABLE BOX, 2.0 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1278.134 0.016	389.576 0.005	2/1	2021 00000963

Geoid Separations(ft): GEOID18 = -94.462 12B = -94.458 09 = -94.360 03 = -94.255

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ZOBEL_RESET-DR5181-3W-06SEP2017.jpg	W	Sep 6, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ZOBEL_RESET-DR5181-2-06SEP2017.jpg		Sep 6, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/st_louis/ZOBEL_RESET-DR5181-1-06SEP2017.jpg		Sep 6, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108183.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108183.pdf