



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

Mn/DOT Name: 1 DWB

NGS Name: 1 DWB

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096132/  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	112 N	45 W	443036.00	961653.00		

<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>
1965	2010	NOT FOUND	Horz=NO 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:** (1993)

**Stamping:** 1 DWB 1965

3.6 MILES NORTHWEST OF IVANHOE, 3.0 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, 1.0 MILE WEST ON COUNTY ROAD 17, 0.5 MILE NORTH ON TOWNSHIP ROAD 113, 48.0 FEET NORTH AND 87.0 FEET EAST OF THE CROSSROADS (TRUNK HIGHWAY 75 AND A TOWNSHIP ROAD), 4.0 FEET SOUTH OF A POWER POLE, 2.0 FEET SOUTH OF A FENCE LINE.

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

Geoid Separations(ft): GEOID18 = -85.334 12B = -85.321 09 = -85.220 03 = -85.138

\* 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\\_17593.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17593.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17593.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17593.pdf)



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

Mn/DOT Name: 10 DWB

NGS Name: 10 DWB

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096122/  
 USGS Quad: TAUNTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	44 W	443330.00	960642.00		

<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>
1965	1974	GOOD	Horz=YES 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)	SURVEY DISK	USGS

**Description:** (1974)                      **Stamping:** 10 DWB 1965 1323

6.0 MILES SOUTH-SOUTHEAST OF PORTER, 3.8 MILES SOUTH ON COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 AND TRUNK HIGHWAY 68 IN PORTER, 430.0 FEET EAST ON COUNTY ROAD 18, 44.0 FEET SOUTH OF COUNTY ROAD 18, 231.5 FEET EAST OF COUNTY ROAD 8, 4.0 FEET NORTH OF A FENCE LINE, 1.1 FEET NORTH OF A WITNESS POST.

**Station Notes**  
THE YEAR SET IS UNKNOWN.

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

Geoid Separations(ft): GEOID18 = -86.617    12B = -86.604    09 = -86.486    03 = -86.384

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17594.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17594.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17594.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17594.pdf)



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

Mn/DOT Name: 10 T

NGS Name: 10 T

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0716](#) [Get Map](#)  
NGS Quad / Sta Num : 44096122/  
USGS Quad: TAUNTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	112 N	44 W	443014.36	960712.60		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>
1960	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)	SURVEY DISK	USGS

**Description:** (1960)                      **Stamping:** 10 T 1960 1508

6.9 MILES NORTHEAST OF IVANHOE, 7.0 MILES EAST ON COUNTY ROAD 17 FROM THE JUNCTION OF COUNTY ROAD 17 AND TRUNK HIGHWAY 75 IN IVANHOE, 382.0 FEET NORTH AND 45.0 FEET EAST OF THE CROSSROADS, 1.0 FOOT WEST OF A NORTH-SOUTH FENCE.

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

Geoid Separations(ft): GEOID18 = -86.716    12B = -86.712    09 = -86.601    03 = -86.466

Geodetic Position and Lincoln County Coordinates

<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)	44 30 14. 35570	96 07 12. 60171	538225. 396	212080. 887	164051. 429	64642. 384	433. 940	3	1999	17648
NAD83 (1986)	44 30 14. 35434	96 07 12. 58599	538226. 535	212080. 751	164051. 776	64642. 342		3	1986	17289
NAD27	44 30 14. 49519	96 07 11. 46320						3	1977	15976

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_73700.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_73700.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_73700.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_73700.pdf)



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

Mn/DOT Name: 10 T RESET

NGS Name: 10 T RESET

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096122/  
 USGS Quad: TAUNTON

<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	15	112 N	44 W	443014.36	960712.60		

<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>
1974	1993	POOR	Horz=NO Vert=YES	NO	R	FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 20 FT)	SURVEY DISK	USGS

**Description:** (1974)                      **Stamping:** 10 T RESET 1974

9.4 MILES SOUTH-SOUTHEAST OF PORTER, 7.6 MILES SOUTH ON COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 AND TRUNK HIGHWAY 68 IN PORTER, 46.0 FEET SOUTH OF COUNTY ROAD 17, 950.0 FEET WEST OF COUNTY ROAD 8, 14.1 FEET EAST OF A FIELD ENTRANCE, 35.4 FEET SOUTH-SOUTHWEST OF A POWER POLE, 4.9 FEET NORTH OF A WITNESS POST.

**Station Notes**

IN 1993 THE MARK WAS FOUND WITH THE DISK BATTERED BUT STILL ATTACHED TO THE DRIVEN ROD.

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

Geoid Separations(ft): GEOID18 = -86.716    12B = -86.712    09 = -86.601    03 = -86.466

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17595.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17595.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17595.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17595.pdf)



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

Mn/DOT Name: 11 DWB

NGS Name: 11 DWB

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096122/  
 USGS Quad: TAUNTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	44 W	443513.00	960652.00		

<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>
1965	2009	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)	SEE DESCRIPTION	USGS

**Description:** (1965)                      **Stamping:** 11 DWB 1965 1241

4.2 MILES SOUTH-SOUTHEAST OF PORTER, 1.8 MILES SOUTH ON COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 AND TRUNK HIGHWAY 68 IN PORTER, 360.0 FEET WEST AND 38.0 FEET NORTH OF THE CROSSROADS (COUNTY ROAD 8 AND COUNTY ROAD 17), 1.5 FEET SOUTH OF AN EAST-WEST FENCE LINE.

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

Geoid Separations(ft): GEOID18 = -86.420    12B = -86.424    09 = -86.286    03 = -86.191

\* 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\\_17596.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17596.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17596.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17596.pdf)



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

Mn/DOT Name: 14 T

NGS Name: 14 T

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6810](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096214/  
 USGS Quad: ARCO

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	45 W	442707.78	961430.96	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>
1960	2011	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	USGS

**Description:** (2006)                      **Stamping:** 14 T 1960 1716

IN IVANHOE, 0.6 MILE SOUTH ON COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 5 AND TRUNK HIGHWAY 19, 49.0 FEET WEST OF COUNTY ROAD 5, 3.0 FEET EAST OF A NORTH-SOUTH FENCE, 18.0 FEET NORTH-NORTHEAST OF THE NORTHEAST CORNER OF A CABLE BOX, 1.1 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	1716.893	0.016	523.310	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.820 12B = -85.827 09 = -85.722 03 = -85.604

Geodetic Position and Lincoln County Coordinates

<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)	44 27 07.78088	96 14 30.96265	506459.069	193151.817	154369.033	58872.792	497.161		2014	GPS3047
NAD83 (1996)	44 27 07.78026	96 14 30.96310	506459.037	193151.754	154369.023	58872.772	497.219	C	2011	HTH75

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/14_T-DL6810-3W-10OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/14_T-DL6810-3W-10OCT2006.jpg</a>	W	Oct 10, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/14_T-DL6810-2-10OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/14_T-DL6810-2-10OCT2006.jpg</a>		Oct 10, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/14_T-DL6810-1-10OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/14_T-DL6810-1-10OCT2006.jpg</a>		Oct 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\\_17597.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17597.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17597.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17597.pdf)



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

Mn/DOT Name: 17 T

NGS Name: 17 T

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0778](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	44 W	442220.49	961041.36		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>
1960	2007	DISTURBED	Horz=NO 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	USGS

**Description:** (1999)                      **Stamping:** 17 T 1960

9.4 MILES NORTHEAST OF LAKE BENTON, 7.3 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, 5.1 MILES EAST ON A TEE-ROAD TOWARD COUNTY ROAD 10, 31.0 FEET NORTH AND 797.0 FEET EAST OF THE CROSSROADS OF COUNTY ROAD 11 AND A TOWNSHIP ROAD, AT THE TOP OF A HILL.

**Station Notes**

RECOVERED BY DOUG SCHAFFER, (DEPARTMENT OF NATURAL RESOURCES) DNR-WATERS. REPORTED THAT THE MONUMENT WAS PROTRUDING 1.0 FOOT ABOVE THE GROUND AND THAT A GPS ELEVATION WAS 1.0 FOOT HIGHER THAN PUBLISHED.

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

Geoid Separations(ft): GEOID18 = -86.040    12B = -86.069    09 = -85.968    03 = -85.843

Geodetic Position and Lincoln County Coordinates

<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)	44 22 20.49313	96 10 41.36439	523146.373	164067.919	159455.333	50008.002	484.386	3	1999	17648		
NAD83 (1986)	44 22 20.49078	96 10 41.35066	523147.370	164067.682	159455.637	50007.930		3	1986	17289		
NAD27	44 22 20.62078	96 10 40.21279						3	1977	15976		

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17598.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17598.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17598.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17598.pdf)



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

Mn/DOT Name: 18 T

NGS Name: 18 T

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0782](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	110 N	45 W	442219.66	961408.74		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>
1960	1960	GOOD	Horz=YES 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	USGS

**Description:** (1960)                      **Stamping:** 18 T 1960 1768

8.0 MILES NORTHEAST OF LAKE BENTON, 7.3 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, 2.3 MILES EAST ON A TEE-ROAD TOWARD COUNTY ROAD 10, AT THE TOP OF A HILL, 6.0 FEET NORTH OF A CULTIVATED FIELD, IN LINE WITH A FENCE WEST, IN LINE WITH 2 POWER POLES 700.0 FEET EAST.

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

Geoid Separations(ft): GEOID18 = -85.689    12B = -85.725    09 = -85.623    03 = -85.499

Geodetic Position and Lincoln County Coordinates

<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)	44 22 19.66224	96 14 08.73522	508082.545	163972.777	154863.869	49979.002	512.968	3	1999	17648
NAD83 (1986)	44 22 19.66112	96 14 08.72113	508083.568	163972.664	154864.181	49978.968		3	1986	17289
NAD27	44 22 19.79078	96 14 07.57514						3	1977	15976

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17599.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17599.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17599.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17599.pdf)



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

Mn/DOT Name: 19 T

NGS Name: 19 T

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	110 N	45 W	442037.00	961408.00		

<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>
1960	1973	GOOD	Horz=YES 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:** (1973)                      **Stamping:** 19 T 1960 1764

6.25 MILES NORTHEAST OF LAKE BENTON, 5.5 MILES NORTH AND 2.5 MILES EAST OF LAKE BENTON, 2.0 MILES EAST OF TRUNK HIGHWAY 75 IN LAKE BENTON, 228.0 FEET NORTH AND 70.0 FEET EAST OF THE CROSSROADS, 16.0 FEET SOUTH OF A TELEPHONE POLE, 1.0 FOOT EAST OF A NORTH-SOUTH FENCE.

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

Geoid Separations(ft): GEOID18 = -85.581    12B = -85.623    09 = -85.515    03 = -85.390

\* 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\\_17600.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17600.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17600.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17600.pdf)



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

Mn/DOT Name: 2 DWB

NGS Name: 2 DWB

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096132/  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	112 N	47 W	443017.00	961926.00		

<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>
1965	1965	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:** (1965)                      **Stamping:** 2 DWB 1965

5.0 MILES EAST OF HENDRICKS, 5.0 MILES EAST ON COUNTY ROAD 17 (EAST RAILROAD STREET) FROM THE JUNCTION OF COUNTY ROAD 17 (RAILROAD STREET) AND TRUNK HIGHWAY 271 IN HENDRICKS, 0.1 MILE NORTH ON TOWNSHIP ROAD 122, 400.0 FEET WEST OF THE CROSSROADS (COUNTY ROAD 17 AND A TOWNSHIP ROAD), AT THE CREST OF A HILL, 50.0 FEET NORTH OF COUNTY ROAD 17, 2.0 FEET SOUTH OF A POWER POLE NUMBER 45.

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

Geoid Separations(ft): GEOID18 = -84.967    12B = -84.957    09 = -84.859    03 = -84.783

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17601.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17601.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17601.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17601.pdf)



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

Mn/DOT Name: 20 T

NGS Name: 20 T

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	110 N	45 W	441902.00	961427.00		

<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>
1960	1960	GOOD	Horz=YES 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:** (1960)                      **Stamping:** 20 T 1960 1769

4.5 MILES NORTHEAST OF LAKE BENTON, 2.8 MILES NORTHEAST ON COUNTY ROAD 21 FROM THE JUNCTION OF COUNTY ROAD 21 AND TRUNK HIGHWAY 75 IN LAKE BENTON, 1187.0 FEET NORTH AND 33.0 FEET WEST OF A TEE-ROAD EAST, 30.0 FEET SOUTH OF A POWER POLE, OPPOSITE A FIELD ENTRANCE EAST, AT THE TOP OF A HILL.

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

Geoid Separations(ft): GEOID18 = -85.439    12B = -85.479    09 = -85.377    03 = -85.266

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17602.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17602.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17602.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17602.pdf)



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

Mn/DOT Name: 21 T

NGS Name: 21 T

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	110 N	44 W	441849.00	961110.00		

<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>
1960	1960	GOOD	Horz=YES 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:** (1960)

**Stamping:** 21 T 1960 1763

6.2 MILES NORTHEAST OF LAKE BENTON, 1.9 MILES NORTH ON COUNTY ROAD 111 FROM THE JUNCTION OF COUNTY ROAD 111 AND TRUNK HIGHWAY 14 IN LAKE BENTON, 1.8 MILES NORTHEAST ON COUNTY ROAD 11, 233.0 FEET WEST ON COUNTY ROAD 13, 274.0 FEET WEST AND 50.0 FEET SOUTH OF COUNTY ROAD 13 AT A TEE-ROAD SOUTH (COUNTY ROAD 111), 5.0 FEET EAST AND 3.0 FEET NORTH OF A FENCE CORNER, 160.0 FEET EAST-NORTHEAST OF THE NORTHEAST CORNER OF A SCHOOL, 22.0 FEET EAST OF THE EAST END OF A WYE-DRIVE TO A SCHOOL.

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

Geoid Separations(ft): GEOID18 = -85.735 12B = -85.787 09 = -85.676 03 = -85.554

\* 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\\_17603.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17603.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17603.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17603.pdf)



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

Mn/DOT Name: 22 T ET

NGS Name: 22 T

County: LINCOLN, MN (Sheet 1)

NGS ACRN: <a href="#">PR0718</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096123/	
USGS Quad: PORTER 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	19	112 N	44 W	443012.62	961111.33		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>
1960	1960	GOOD	Horz=YES 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	USGS

**Description:** (1960)                      **Stamping:** 22 T 1960 1594

4.0 MILES NORTHEAST OF IVANHOE, 3.0 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, 3.7 MILES EAST ON COUNTY ROAD 17, 1292.0 FEET WEST AND 53.0 FEET SOUTH OF THE CROSSROADS (COUNTY ROAD 17 AND COUNTY ROAD 7), 30.0 FEET EAST OF AN ENTRANCE, 1.0 FOOT SOUTH OF AN EAST-WEST FENCE.

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

Geoid Separations(ft): GEOID18 = -86.171    12B = -86.168    09 = -86.063    03 = -85.941

Geodetic Position and Lincoln County Coordinates

<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)	44 30 12. 61776	96 11 11. 32577	520923. 052	211880. 903	158777. 664	64581. 428	459. 806	3	1999	17648		
NAD83 (1986)	44 30 12. 61700	96 11 11. 30904	520924. 265	211880. 827	158778. 033	64581. 405		3	1986	17289		
NAD27	44 30 12. 75498	96 11 10. 17855						3	1977	15976		

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17604.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17604.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17604.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17604.pdf)



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

Mn/DOT Name: 23 T ET

NGS Name: 23 T

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0720](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096123/  
 USGS Quad: PORTER 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	14	112 N	45 W	443013.85	961356.22		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>
1960	1960	GOOD	Horz=YES 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	USGS

**Description:** (2016) **Stamping:** 23 T 1960 1673

3.0 MILES NORTHEAST OF IVANHOE, 3.0 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, 1.4 MILES EAST ON COUNTY ROAD 17, 48.0 FEET NORTH AND 235.0 FEET WEST OF COUNTY ROAD 17 AT A TEE-ROAD SOUTH, 500.0 FEET EAST OF A FARMHOUSE, AT THE CREST OF A HILL, 20.0 FEET WEST OF A FIELD ENTRANCE, 1.0 FOOT SOUTH OF AN EAST-WEST FENCE.

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

Geoid Separations(ft): GEOID18 = -85.787 12B = -85.787 09 = -85.676 03 = -85.567

Geodetic Position and Lincoln County Coordinates

<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)	44 30 13.84531	96 13 56.21507	508971.856	211996.858	155134.932	64616.772	483.978	3	1999	17648		
NAD83 (1986)	44 30 13.84474	96 13 56.19793	508973.099	211996.801	155135.311	64616.754		3	1986	17289		
NAD27	44 30 13.97986	96 13 55.06188						3	1977	15976		

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17605.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17605.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17605.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17605.pdf)



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

Mn/DOT Name: 25 SEM

NGS Name: 25 SEM

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096123/  
 USGS Quad: PORTER 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	2	112 N	45 W	443200.00	961412.00		

<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>
1965	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)	SURVEY DISK	USGS

**Description:** (1965)                      **Stamping:** 25 SEM 1965 1619

4.9 MILES NORTHEAST OF IVANHOE, 5.2 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, 1.6 MILES EAST ON TOWNSHIP ROAD 122, THEN CONTINUE 0.2 MILE EAST ON TOWNSHIP ROAD 113, ON A GRAVEL ROAD, 42.0 FEET NORTH AND 97.0 FEET EAST OF THE CROSSROADS, 2.5 FEET NORTH OF A POWER POLE.

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

Geoid Separations(ft): GEOID18 = -85.613    12B = -85.597    09 = -85.502    03 = -85.410

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_74000.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_74000.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_74000.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_74000.pdf)



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

Mn/DOT Name: 25 SEM RESET

NGS Name: 25 SEM RESET

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096123/  
 USGS Quad: PORTER 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	2	112 N	45 W	443200.00	961412.00		

<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	GOOD	Horz=YES Vert=YES	NO		PROJECTS 4 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 23 FT)	SURVEY DISK	USGS

**Description:** (2016)                      **Stamping:** 25 SEM RESET 1974

4.9 MILES NORTHEAST OF IVANHOE, 5.2 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, 1.6 MILES EAST ON TOWNSHIP ROAD 122, THEN CONTINUE 0.2 MILE EAST ON TOWNSHIP ROAD 113, 334.0 FEET EAST OF COUNTY ROAD 5, 33.5 FEET NORTH OF A TOWNSHIP ROAD, 3.0 FEET SOUTH OF A POWER POLE, 1.2 FEET NORTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.613    12B = -85.597    09 = -85.502    03 = -85.410

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17606.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17606.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17606.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17606.pdf)



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

Mn/DOT Name: 25 T

NGS Name: 25 T

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096214/  
 USGS Quad: ARCO

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	45 W	442435.00	961429.00		

<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>
1960	1973	GOOD	Horz=NO 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:** (1973)

**Stamping:** 25 T 1960 1753

3.7 MILES SOUTHEAST OF IVANHOE, 3.5 MILES SOUTH ON COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 5 AND TRUNK HIGHWAY 19 IN IVANHOE, 102.0 FEET WEST AND 425.0 FEET NORTH OF COUNTY ROAD 5 AT A FENCE WEST, 1.0 FOOT WEST OF A NORTH-SOUTH FENCE, 35.0 FEET NORTH OF A FENCE WEST, ON THE TOP OF THE HIGHEST HILL.

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

Geoid Separations(ft): GEOID18 = -85.777 12B = -85.787 09 = -85.689 03 = -85.577

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17607.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17607.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17607.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17607.pdf)



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

Mn/DOT Name: 26 SEM

NGS Name: 26 SEM

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096123/  
 USGS Quad: PORTER 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	26	113 N	45 W	443339.00	961407.00		

<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>
1960	1960	GOOD	Horz=YES 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:** (1960)

**Stamping:** 26 SEM 1965 1615

10.5 MILES SOUTHEAST OF CANBY, 9.5 MILES SOUTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 68 IN CANBY, 2.0 MILES EAST ON A TEE-ROAD TOWARD COUNTY ROAD 109, 0.8 MILE SOUTH ON COUNTY ROAD 109, 955.0 FEET NORTH AND 49.0 FEET WEST OF THE CROSSROADS (COUNTY ROAD 18 / COUNTY ROAD 5 AND COUNTY ROAD 105), 3.0 FEET EAST OF A POWER POLE, 2.5 FEET EAST OF A NORTH-SOUTH FENCE.

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

Geoid Separations(ft): GEOID18 = -85.443 12B = -85.436 09 = -85.348 03 = -85.262

\* 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:

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17608.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17608.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17608.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17608.pdf)



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

Mn/DOT Name: 27 SEM

NGS Name: 27 SEM

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096123/  
 USGS Quad: PORTER 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	14	113 N	45 W	443515.00	961412.00		

<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>
1965	1996	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)	SEE DESCRIPTION	USGS

**Description:** (1965)                      **Stamping:** 27 SEM 1965 1512

8.6 MILES SOUTHEAST OF CANBY, 8.5 MILES SOUTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 68 IN CANBY, 2.0 MILES EAST ON A TEE-ROAD TOWARD COUNTY ROAD 19, 48.0 FEET NORTH AND 380.0 FEET WEST OF THE CROSSROADS (COUNTY ROAD 19 AND COUNTY ROAD 105), 3.0 FEET SOUTH OF A POWER POLE, 4.0 FEET SOUTH OF AN EAST-WEST FENCE.

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

Geoid Separations(ft): GEOID18 = -85.275    12B = -85.292    09 = -85.200    03 = -85.102

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17609.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17609.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17609.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17609.pdf)



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

Mn/DOT Name: 28 SEM ET

NGS Name: 28 SEM

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0721](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096123/  
 USGS Quad: PORTER 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	2	113 N	45 W	443703.67	961409.28		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>
1965	1965	GOOD	Horz=NO 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	USGS

**Description:** (1965)                      **Stamping:** 28 SEM 1965 1423

6.6 MILES SOUTHEAST OF CANBY, 6.5 MILES SOUTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 68 IN CANBY, 2.0 MILES EAST ON A TEE-ROAD TOWARD COUNTY ROAD 109, 479.0 FEET NORTH ON COUNTY ROAD 109, AT THE TOP OF A HILL, 142.0 FEET SOUTH AND 48.0 FEET WEST OF COUNTY ROAD 105 AT A DRIVEWAY, 3.0 FEET EAST OF A NORTH-SOUTH FENCE.

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

Geoid Separations(ft): GEOID18 = -85.207    12B = -85.223    09 = -85.128    03 = -85.026

Geodetic Position and Lincoln County Coordinates

<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)	44 37 03. 67190	96 14 09. 27873	508009. 408	253503. 356	154841. 577	77267. 977	407. 261	3	1999	17648
NAD83 (1986)	44 37 03. 67203	96 14 09. 26184	508010. 629	253503. 369	154841. 950	77267. 982		3	1986	17289
NAD27	44 37 03. 79923	96 14 08. 10357						3	1977	15976

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17610.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17610.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17610.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17610.pdf)



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

Mn/DOT Name: 3 DWB

NGS Name: 3 DWB

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096132/  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	112 N	46 W	443002.00	962226.00		

<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>
1965	1973	NOT FOUND	Horz=NO 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:** (1973)                      **Stamping:** 3 DWB 1965

2.5 MILES EAST OF HENDRICKS, 2.5 SOUTHEAST ON COUNTY ROAD 17 (RAILROAD STREET) FROM THE JUNCTION OF COUNTY ROAD 17 (RAILROAD STREET) AND TRUNK HIGHWAY 271 IN HENDRICKS, 50.0 FEET SOUTH OF COUNTY ROAD 17, 15.0 FEET EAST OF A FARM DRIVE, 4.0 FEET WEST OF A 12.0 INCH DIAMETER ASH TREE, 3.0 FEET NORTH OF A FENCE LINE.

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

Geoid Separations(ft): GEOID18 = -84.495    12B = -84.498    09 = -84.390    03 = -84.327

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17611.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17611.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17611.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17611.pdf)



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

Mn/DOT Name: 4 DWB

NGS Name: 4 DWB

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096133/  
 USGS Quad: HENDRICKS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	112 N	46 W	443017.00	962535.00		

<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>
1965	2016	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)	UNKNOWN	USGS

**Description:** (1965)                      **Stamping:** 4 DWB 1965

IN HENDRICKS, ALONG A RAILROAD, 0.1 MILE WEST ON TRUNK HIGHWAY 271, 232.0 FEET WEST OF THE SOUTHWEST CORNER OF A BUILDING, 30.0 FEET EAST OF A NORTH-SOUTH GRAVEL STREET, 12.0 FEET NORTH OF A RAILROAD, 7.5 FEET EAST OF A SWITCH BLOCK.

**Station Notes**  
THE RAILROAD TRACKS WERE REMOVED.

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

Geoid Separations(ft): GEOID18 = -83.993    12B = -83.999    09 = -83.888    03 = -83.845

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17612.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17612.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17612.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17612.pdf)



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

Mn/DOT Name: 4101 A

NGS Name: 4101 A

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2406](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/  
 USGS Quad: LAKE BENTON SW

				<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>
NE	7	109 N	46 W	441609.98	962538.76	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>
1953	2015	GOOD	Horz=NO Vert=NO	YES	NONE	FLUSH	NO MAG MATERIAL

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

**Description:** (1953)                      **Stamping:** 4104 A

7.0 MILES WEST OF LAKE BENTON, 7.0 MILES WEST ON TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 1.2, 25.0 FEET SOUTH OF TRUNK HIGHWAY 14, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 14 BOX CULVERT, AT TRUNK HIGHWAY 14 STATION 89+50, 1.2 MILES EAST OF THE WEST STATE LINE. STATION 4101 A IS A BRASS PLUG.

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	1811.351	0.016	552.101	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -84.449    12B = -84.472    09 = -84.370    03 = -84.301

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_A-DQ2406-3S-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_A-DQ2406-3S-23JUN2015.jpg</a>	S	Jun 23, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_A-DQ2406-2-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_A-DQ2406-2-23JUN2015.jpg</a>		Jun 23, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_A-DQ2406-1-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_A-DQ2406-1-23JUN2015.jpg</a>		Jun 23, 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\\_17613.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17613.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17613.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17613.pdf)



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

Mn/DOT Name: 4101 B

NGS Name: 4101 B

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096243/  
 USGS Quad: LAKE BENTON 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	9	109 N	46 W	441610.00	962316.00		

<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	2015	DESTROYED	Horz=NO Vert=NO	NO	1470	FLUSH	SEE DESCRIPTION

  

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

**Description:** (1953)

**Stamping:**

5.0 MILES WEST OF LAKE BENTON, 5.0 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 14 BOX CULVERT 1470, AT TRUNK HIGHWAY 14 STATION 192+40.

**Station Notes**

THE STATION IS A BRASS PLUG.

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

Geoid Separations(ft): GEOID18 = -84.508 12B = -84.547 09 = -84.439 03 = -84.363

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17614.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17614.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17614.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17614.pdf)



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

Mn/DOT Name: 4101 C

NGS Name: 4101 C

County: LINCOLN, MN (Sheet 1)

NGS ACRN: <a href="#">DQ2403</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096243/	
USGS Quad: LAKE BENTON 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	9	109 N	46 W	441609.48	962304.69	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>
1953	2015	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	BOLT	MNDT

**Description:** (1953)

**Stamping:** 4101 C

5.0 MILES WEST OF LAKE BENTON, 4.9 MILES WEST ON TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 14 BOX CULVERT, AT TRUNK HIGHWAY 14 MILEPOINT 3.4, AT TRUNK HIGHWAY 14 STATION 201+71, 3.4 MILES EAST OF THE WEST STATE LINE, 18.0 FEET SOUTH OF TRUNK HIGHWAY 14. STATION 4101 C IS A BRASS PLUG.

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	1831.857	0.016	558.351	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -84.514 12B = -84.557 09 = -84.445 03 = -84.370

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_C-DQ2403-3S-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_C-DQ2403-3S-22JUN2015.jpg</a>	S	Jun 22, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_C-DQ2403-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_C-DQ2403-2-22JUN2015.jpg</a>		Jun 22, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_C-DQ2403-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_C-DQ2403-1-22JUN2015.jpg</a>		Jun 22, 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\\_17615.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17615.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17615.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17615.pdf)



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

Mn/DOT Name: 4101 D

NGS Name: 4101 D

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6784](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441555.36	961809.70	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>
1953	2015	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	BOLT	MNDT

**Description:** (2006)                      **Stamping:** 4101 D

IN LAKE BENTON, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 14 BOX CULVERT, 0.7 MILE WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75, AT TRUNK HIGHWAY 14 MILEPOST 7.5, AT TRUNK HIGHWAY 14 STATION 421+21, 23.0 FEET SOUTH OF TRUNK HIGHWAY 14. STATION 4101 D IS A BRASS PLUG.

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	1791.850	0.016	546.157	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -84.849    12B = -84.872    09 = -84.803    03 = -84.718

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_D-DL6784-3S-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_D-DL6784-3S-22JUN2015.jpg</a>	S	Jun 22, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_D-DL6784-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_D-DL6784-2-22JUN2015.jpg</a>		Jun 22, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_D-DL6784-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_D-DL6784-1-22JUN2015.jpg</a>		Jun 22, 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\\_17616.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17616.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17616.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17616.pdf)



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

Mn/DOT Name: 4101 E

NGS Name: 4101 E

County: LINCOLN, MN (Sheet 1)

NGS ACRN: <a href="#">DL6783</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096242/	
USGS Quad: LAKE BENTON	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441556.34	961721.89	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>
1953	2015	GOOD	Horz=NO Vert=NO	YES	1827	FLUSH	NO MAG MATERIAL

  

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

**Description:** (1953)

**Stamping:** 4101 E

IN LAKE BENTON, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 14 BOX CULVERT (BRIDGE NUMBER 1827), 0.05 MILE WEST ON TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75, AT TRUNK HIGHWAY 14 MILEPOINT 8.3, AT TRUNK HIGHWAY 14 STATION 456+00, 23.5 FEET SOUTH OF TRUNK HIGHWAY 14. STATION 4101 E IS A BRASS PLUG.

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	1751.447	0.016	533.842	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -84.937 12B = -84.954 09 = -84.882 03 = -84.800

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_E-DL6783-3S-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_E-DL6783-3S-22JUN2015.jpg</a>	S	Jun 22, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_E-DL6783-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_E-DL6783-2-22JUN2015.jpg</a>		Jun 22, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_E-DL6783-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_E-DL6783-1-22JUN2015.jpg</a>		Jun 22, 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\\_17617.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17617.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17617.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17617.pdf)



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

Mn/DOT Name: 4101 F

NGS Name: 4101 F

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2399](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441600.00	961832.00	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	2015	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	BOLT	MNDT

**Description:** (2016)                      **Stamping:** 4101 F

1.0 MILE WEST OF LAKE BENTON, 1.0 MILE WEST ON TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 7.25, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 14 BOX CULVERT, AT TRUNK HIGHWAY 14 STATION 406+80, 25.5 FEET SOUTH OF TRUNK HIGHWAY 14. STATION 4101 F IS A BRASS PLUG.

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	1850.068	0.016	563.902	0.005	2/1	2017	00000903

---

Geoid Separations(ft): GEOID18 = -84.813    12B = -84.839    09 = -84.770    03 = -84.688

---

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_F-DQ2399-3S-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_F-DQ2399-3S-22JUN2015.jpg</a>	S	Jun 22, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_F-DQ2399-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_F-DQ2399-2-22JUN2015.jpg</a>		Jun 22, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_F-DQ2399-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_F-DQ2399-1-22JUN2015.jpg</a>		Jun 22, 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\\_17618.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17618.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17618.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17618.pdf)



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

Mn/DOT Name: 4101 G

NGS Name: 4101 G

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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>
NE	8	109 N	45 W	441549.00	961711.00		

<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	2006	DESTROYED	Horz=NO Vert=NO	NO	5445	FLUSH	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

**Description:** (1953)

**Stamping:**

IN LAKE BENTON, 0.2 MILE SOUTH ON TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75, IN THE NORTHEAST CORNER OF TRUNK HIGHWAY 14 BRIDGE NUMBER 5445, AT TRUNK HIGHWAY 14 STATION 472+75.

**Station Notes**

THE STATION IS BRASS PLUG.

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

Geoid Separations(ft): GEOID18 = -84.947 12B = -84.967 09 = -84.895 03 = -84.810

\* 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\\_17619.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17619.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17619.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17619.pdf)



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

Mn/DOT Name: 4101 J

NGS Name: 4101 J

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0126](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/1033  
 USGS Quad: LAKE BENTON 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	12	109 N	47 W	441611.40	962708.84	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>
1976	2016	GOOD	Horz=YES 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 32 FT)	VERTICAL CONTROL DISK	MNDT

**Description:** (2016)                      **Stamping:** 4101 J 1976

8.45 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, TO TRUNK HIGHWAY 14 MILEPOINT 0.0, THEN 0.1 MILE NORTH ON DRIVEWAY NUMBER 48768, 30.0 FEET EAST OF DRIVEWAY NUMBER 48768, 15.0 FEET EAST-SOUTHEAST OF A RIGHT-OF-WAY POST (STATION 23), 6.0 FEET SOUTHWEST OF A POWER POLE, 3.8 FEET SOUTH OF A FENCE LINE, 2.8 FEET SOUTH OF A WITNESS POST.

**Station Pair:** TRIGG MN081 - LINCOLN, 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	1771.670	0.016	540.006	0.005	2/1	2017	00000903
NGVD29	1770.872	0.007	539.763	0.002	1/2	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.426    12B = -84.442    09 = -84.337    03 = -84.268

Geodetic Position and Lincoln County Coordinates

<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)	44 16 11.39818	96 27 08.84474	451328.837	126730.600	137565.305	38627.564	514.291			2016	GPS3151	
NAD83 (1996)	44 16 11.39722	96 27 08.84492	451328.824	126730.502	137565.301	38627.534	514.350	C		2016	HTYLR	
NAD83 (1986)	44 16 11.39883	96 27 08.82855	451330.015	126730.663	137565.664	38627.583		2		1986	17289	
NAD27	44 16 11.52077	96 27 07.66982						2		1977	15815	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_J-PR0126-3N-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_J-PR0126-3N-23JUN2015.jpg</a>	N	Jun 23, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_J-PR0126-2-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_J-PR0126-2-23JUN2015.jpg</a>		Jun 23, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_J-PR0126-1-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_J-PR0126-1-23JUN2015.jpg</a>		Jun 23, 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\\_17620.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17620.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17620.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17620.pdf)



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

Mn/DOT Name: 4101 K

NGS Name: 4101 K

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0134](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/1031  
 USGS Quad: LAKE BENTON SW

				Reference	Reference	Vert	Horz
1/4	Sec	Twp	Rng	Latitude	Longitude	Order	Order
NE	9	109 N	46 W	441604.85	962302.29	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1976	2015	GOOD	Horz=NO Vert=YES	YES		PROJECTS 2 IN.	MARKER IS STEEL ROD

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

**Description:** (1976)                      **Stamping:** 4101 K 1976

4.8 MILES WEST OF LAKE BENTON, 4.8 MILES WEST ALONG ON TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 3.4, 516.7 FEET SOUTH OF TRUNK HIGHWAY 75, 74.8 FEET NORTH OF A DRIVEWAY, 54.5 FEET NORTH OF A UTILITY POLE, 33.8 FEET WEST OF A GRAVEL ROAD, 1.5 FEET SOUTHEAST OF A CORNER FENCE POST, 0.8 FOOT EAST OF A WITNESS POST.

**Station Notes**

THE ELEVATION MAY BE IN QUESTION AS THE DISK HAS BEEN HIT AND IS SLIGHTLY BENT.

**Leveling-Derived Orthometric Heights (Elevations)**

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1831.699	0.016	558.303	0.005	2/1	2017	00000903
NGVD29	1830.892	0.007	558.057	0.002	1/2	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.518    12B = -84.560    09 = -84.449    03 = -84.373

**Geodetic Position and Lincoln County Coordinates**

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)	44 16 04.84557	96 23 02.28794	469269.561	126033.757	143033.648	38415.166	532.560	3	1999	17648		
NAD83 (1986)	44 16 04.84533	96 23 02.26896	469270.943	126033.731	143034.069	38415.158		3	1986	17289		
NAD27	44 16 04.96530	96 23 01.11702						3	1977	15815		

**Station Photos**

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_K-PR0134-3S-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_K-PR0134-3S-22JUN2015.jpg</a>	S	Jun 22, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_K-PR0134-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_K-PR0134-2-22JUN2015.jpg</a>		Jun 22, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_K-PR0134-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_K-PR0134-1-22JUN2015.jpg</a>		Jun 22, 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\\_17621.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17621.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17621.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17621.pdf)



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

Mn/DOT Name: 4101 L

NGS Name: 4101 L

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0138](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/1028  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	46 W	441610.04	962035.88	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>
1976	2016	GOOD	Horz=YES 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 10 FT)	VERTICAL CONTROL DISK	MNDT

**Description:** (1976)                      **Stamping:** 4101 L 1976

2.8 MILES WEST OF LAKE BENTON, 2.8 MILES WEST ON TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 5.40, 91.8 FEET SOUTH OF TRUNK HIGHWAY 14, 31.0 FEET EAST OF 160TH AVENUE, 0.8 FOOT NORTH OF A WITNESS POST.

**Station Pair:**    SCHARDIN RM 2 - LINCOLN, 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	1925.324	0.016	586.840	0.005	2/1	2017	00000903
NGVD29	1924.504	0.007	586.590	0.002	1/2	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.645    12B = -84.685    09 = -84.593    03 = -84.514

Geodetic Position and Lincoln County Coordinates

<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)	44 16 10.04121	96 20 35.87814	479924.480	126547.314	146281.274	38571.699	561.052			2016	GPS3151	
NAD83 (1996)	44 16 10.04025	96 20 35.87834	479924.466	126547.217	146281.270	38571.669	561.101	C		2016	HTYLR	
NAD83 (1986)	44 16 10.04070	96 20 35.85832	479925.923	126547.261	146281.714	38571.682			3	1986	17289	
NAD27	44 16 10.15818	96 20 34.71023							3	1977	15815	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_L-PR0138-3S-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_L-PR0138-3S-22JUN2015.jpg</a>	S	Jun 22, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_L-PR0138-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_L-PR0138-2-22JUN2015.jpg</a>		Jun 22, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_L-PR0138-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_L-PR0138-1-22JUN2015.jpg</a>		Jun 22, 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\\_17622.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17622.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17622.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17622.pdf)



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

Mn/DOT Name: 4101 M

NGS Name: 4101 M

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0144](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441557.10	961812.49	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>
1976	2015	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 12 FT)	VERTICAL CONTROL DISK	MNDT

**Description:** (1976)                      **Stamping:** 4101 M 1976

0.8 MILE NORTHWEST OF LAKE BENTON, 0.75 MILE WEST OF THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, 158.5 FEET NORTH OF TRUNK HIGHWAY 14, AT TRUNK HIGHWAY 14 MILEPOINT 7.45, 22.0 FEET EAST OF LOVER'S LANE, 105.0 FEET NORTH-NORTHWEST OF A POWER POLE WITH A GUY WIRE, 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	1797.444	0.016	547.862	0.005	2/1	2017	00000903
NGVD29	1796.650	0.007	547.620	0.002	1/2	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.846    12B = -84.869    09 = -84.800    03 = -84.714

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_M-PR0144-3N-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_M-PR0144-3N-22JUN2015.jpg</a>	N	Jun 22, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_M-PR0144-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_M-PR0144-2-22JUN2015.jpg</a>		Jun 22, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_M-PR0144-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_M-PR0144-1-22JUN2015.jpg</a>		Jun 22, 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\\_17623.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17623.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17623.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17623.pdf)



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

Mn/DOT Name: 4101 N

NGS Name: 4101 N

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2402](#) [Get Map](#)  
NGS Quad / Sta Num : 44096243/  
USGS Quad: LAKE BENTON 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	10	109 N	46 W	441609.56	962247.59	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	2016	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:** (2015) **Stamping:** 4101 N 2015

3.9 MILES WEST OF LAKE BENTON, 4.6 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 3.60, 42.0 FEET SOUTH OF TRUNK HIGHWAY 14, 1.5 FEET NORTH OF A WITNESS POST.

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	1850.078	0.016	563.905	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -84.524 12B = -84.570 09 = -84.458 03 = -84.380

Geodetic Position and Lincoln County Coordinates

<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)	44 16 09.55854	96 22 47.58995	470339.813	126509.552	143359.862	38560.189	538.146			2016	GPS3151	
NAD83 (1996)	44 16 09.55752	96 22 47.59017	470339.797	126509.449	143359.857	38560.157	538.209	C		2016	HTYLR	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_N-DQ2402-3S-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_N-DQ2402-3S-08JUL2015.jpg</a>	S	Jul 8, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_N-DQ2402-2-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_N-DQ2402-2-08JUL2015.jpg</a>		Jul 8, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_N-DQ2402-1-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_N-DQ2402-1-08JUL2015.jpg</a>		Jul 8, 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\\_104019.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104019.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104019.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104019.pdf)



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

Mn/DOT Name: 4101 P

NGS Name: 4101 P

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2401](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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>
SW	2	109 N	46 W	441611.61	962101.97	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>
2015	2015	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 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2015)                      **Stamping:** 4101 P 2015

4.45 MILES WEST OF LAKE BENTON, 4.45 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 5.10, 56.8 FEET NORTH OF TRUNK HIGHWAY 14, 7.0 FEET WEST OF A FIELD ENTRANCE, 5.8 FEET SOUTHEAST OF A WITNESS POST.

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	1902.693	0.016	579.942	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -84.616    12B = -84.659    09 = -84.560    03 = -84.481

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_P-DQ2401-3N-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_P-DQ2401-3N-08JUL2015.jpg</a>	N	Jul 8, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_P-DQ2401-2-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_P-DQ2401-2-08JUL2015.jpg</a>		Jul 8, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_P-DQ2401-1-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_P-DQ2401-1-08JUL2015.jpg</a>		Jul 8, 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\\_104020.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104020.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104020.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104020.pdf)



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

Mn/DOT Name: 4101 Q

NGS Name: 4101 Q

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2400](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

				Reference	Reference	Vert	Horz
1/4	Sec	Twp	Rng	Latitude	Longitude	Order	Order
SW	6	109 N	45 W	441612.64	961901.16	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2016	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 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015)                      **Stamping:** 4101 Q 2015

1.1 MILES NORTHWEST OF LAKE BENTON, 1.55 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 6.75, 106.6 FEET NORTH OF TRUNK HIGHWAY 14, 17.0 FEET WEST OF 173RD AVENUE, 3.4 FEET SOUTH-SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1961.318	0.016	597.811	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -84.773    12B = -84.800    09 = -84.731    03 = -84.652

Geodetic Position and Lincoln County Coordinates

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)	44 16 12.63539	96 19 01.15824	486817.363	126804.690	148382.229	38650.147	571.949			2016	GPS3151	
NAD83 (1996)	44 16 12.63442	96 19 01.15847	486817.346	126804.592	148382.224	38650.117	572.007	C		2016	HTYLR	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_Q-DQ2400-3N-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_Q-DQ2400-3N-08JUL2015.jpg</a>	N	Jul 8, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_Q-DQ2400-2-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_Q-DQ2400-2-08JUL2015.jpg</a>		Jul 8, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_Q-DQ2400-1-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_Q-DQ2400-1-08JUL2015.jpg</a>		Jul 8, 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\\_104021.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104021.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104021.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104021.pdf)



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

Mn/DOT Name: 4101 R

NGS Name: 4101 R

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2398](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	7	109 N	45 W	441556.09	961812.67	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2016	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 12 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015)                      **Stamping:** 4101 R 2015

IN LAKE BENTON, 0.75 MILE WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 7.50, 55.5 FEET NORTH OF TRUNK HIGHWAY 14, 32.8 FEET WEST OF COUNTY ROAD 21 EXTENDED (RUSSEL ZIMMER DRIVE), 24.0 FEET WEST OF THE HORSE HILL PARK ENTRANCE, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1796.194	0.016	547.481	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -84.846    12B = -84.869    09 = -84.800    03 = -84.714

Geodetic Position and Lincoln County Coordinates

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)	44 15 56.09005	96 18 12.66886		490345.113	125127.194	149457.490	38138.845	521.629		2016	GPS3151
NAD83 (1996)	44 15 56.08906	96 18 12.66906		490345.099	125127.094	149457.485	38138.815	521.684	C	2016	HTYLR

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_R-DQ2398-3N-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_R-DQ2398-3N-08JUL2015.jpg</a>	N	Jul 8, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_R-DQ2398-2-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_R-DQ2398-2-08JUL2015.jpg</a>		Jul 8, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_R-DQ2398-1-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4101_R-DQ2398-1-08JUL2015.jpg</a>		Jul 8, 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\\_104022.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104022.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104022.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104022.pdf)



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

Mn/DOT Name: 4102 A

NGS Name: 4102 A

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096221/  
 USGS Quad: RUTHTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	44 W	441446.00	960451.00		

<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	2015	DESTROYED	Horz=NO Vert=NO	NO	4757	FLUSH	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

**Description:** (1952)

**Stamping:**

1.5 MILES NORTHWEST OF FLORENCE, 1.8 MILES WEST ON TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 23 IN FLORENCE, IN THE NORTHEAST CORNER OF TRUNK HIGHWAY 14 BRIDGE NUMBER 4757, 20.0 FEET EAST OF TRUNK HIGHWAY 13, AT TRUNK HIGHWAY 13 STATION 16+84.

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

Geoid Separations(ft): GEOID18 = -86.096 12B = -86.135 09 = -86.030 03 = -85.918

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17624.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17624.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17624.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17624.pdf)



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

Mn/DOT Name: 4102 AA

NGS Name: 4102 AA

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AB8792](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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>
SW	8	109 N	45 W	441546.44	961709.57	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>
1987	2015	GOOD	Horz=NO Vert=NO	YES	41003	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	VERTICAL CONTROL DISK	MNDT

**Description:** (2016)                      **Stamping:** 4102 AA 1987

IN LAKE BENTON, AT THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 AND THE CHICAGO NORTHWESTERN RAILROAD, 1.0 FOOT WEST OF THE EAST END OF THE SOUTHEAST CONCRETE ABUTMENT OF THE HIGHWAY OVERPASS OF A RAILROAD, 107.3 FEET SOUTH OF A RAILROAD TRACK, 25.9 FEET EAST OF TRUNK HIGHWAY 75.

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	1783.481	0.016	543.606	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -84.944    12B = -84.964    09 = -84.895    03 = -84.810

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_AA-AB8792-3E-11OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_AA-AB8792-3E-11OCT2006.jpg</a>	E	Oct 11, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_AA-AB8792-2-11OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_AA-AB8792-2-11OCT2006.jpg</a>		Oct 11, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_AA-AB8792-1-11OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_AA-AB8792-1-11OCT2006.jpg</a>		Oct 11, 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\\_40025.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40025.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_40025.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40025.pdf)



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

Mn/DOT Name: 4102 B

NGS Name: 4102 B

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0146](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441548.00	961711.00	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>
1976	2006	DESTROYED	Horz=NO Vert=NO	NO	5445	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	VERTICAL CONTROL DISK	MNDT

**Description:** (1976)                      **Stamping:** 4102 B 1976

IN LAKE BENTON, 0.2 MILE SOUTH OF THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75, 300.0 FEET NORTH OF THE SOUTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75, 18.3 FEET EAST OF TRUNK HIGHWAY 75, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 75 BRIDGE NUMBER 5445 OVER A RAILROAD.

**Station Notes**  
THE BRIDGE WAS REMOVED.

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	1782.920	0.016	543.435	0.005	2/1	1991	00000025
NGVD29	1782.057	0.016	543.172	0.005	2	1976	L24119

Geoid Separations(ft): GEOID18 = -84.954    12B = -84.974    09 = -84.901    03 = -84.816

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17625.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17625.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17625.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17625.pdf)



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

Mn/DOT Name: 4102 C

NGS Name: 4102 C

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0153](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441544.00	961553.00	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>
1976	2015	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
WALL	VERTICAL CONTROL DISK	MNDT

**Description:** (1976)                      **Stamping:** 4102 C 1976

1.1 MILES EAST OF LAKE BENTON, 1.1 MILES EAST ON TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, 37.2 FEET SOUTH OF TRUNK HIGHWAY 14, AT TRUNK HIGHWAY 14 MILEPOINT 9.6, IN THE SOUTHEAST HEADWALL OF A TRUNK HIGHWAY 14 BOX CULVERT.

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	1780.410	0.016	542.670	0.005	2/1	1991	00000025
NGVD29	1779.534	0.016	542.403	0.005	2	1976	L24119

Geoid Separations(ft): GEOID18 = -85.069 12B = -85.085 09 = -85.020 03 = -84.931

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17626.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17626.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17626.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17626.pdf)



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

Mn/DOT Name: 4102 D

NGS Name: 4102 D

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2394](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<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	3	109 N	45 W	441613.10	961437.97	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>
2015	2016	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 29 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2015)                      **Stamping:** 4102 D 2015

3.0 MILES EAST OF LAKE BENTON, 2.3 MILES EAST ALONG TRUNK HIGHWAY 14 FROM THE SOUTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 10.80, 61.4 FEET NORTH OF TRUNK HIGHWAY 14, 22.0 FEET EAST OF A FIELD ENTRANCE, 1.5 FEET SOUTH OF A WITNESS POST.

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	1778.166	0.016	541.986	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.229 12B = -85.249 09 = -85.180 03 = -85.079

Geodetic Position and Lincoln County Coordinates

<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)	44 16 13.09674	96 14 37.96947	505969.237	126848.190	154219.732	38663.406	516.028			2016	GPS3151	
NAD83 (1996)	44 16 13.09575	96 14 37.96968	505969.222	126848.090	154219.727	38663.375	516.084	C		2016	HTYLR	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_D-DQ2394-3N-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_D-DQ2394-3N-08JUL2015.jpg</a>	N	Jul 8, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_D-DQ2394-2-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_D-DQ2394-2-08JUL2015.jpg</a>		Jul 8, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_D-DQ2394-1-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_D-DQ2394-1-08JUL2015.jpg</a>		Jul 8, 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\\_104023.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104023.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104023.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104023.pdf)



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

Mn/DOT Name: 4102 E

NGS Name: 4102 E

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2393](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<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>
NE	11	109 N	45 W	441611.65	961324.68	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>
2015	2016	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:** (2015)                      **Stamping:** 4102 E 2015

3.5 MILES EAST OF LAKE BENTON, 3.3 MILES EAST ALONG TRUNK HIGHWAY 14 FROM SOUTH THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 11.80, 62.6 FEET SOUTH OF TRUNK HIGHWAY 14, 1.5 FEET NORTH OF A WITNESS POST.

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	1777.903	0.016	541.906	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.348    12B = -85.377    09 = -85.295    03 = -85.193

Geodetic Position and Lincoln County Coordinates

<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)	44 16 11.65153	96 13 24.68038		511302.449	126703.976	155845.298	38619.449	515.909		2016	GPS3151
NAD83 (1996)	44 16 11.65056	96 13 24.68058		511302.435	126703.878	155845.294	38619.419	515.963	C	2016	HTYLR

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_E-DQ2393-3S-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_E-DQ2393-3S-08JUL2015.jpg</a>	S	Jul 8, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_E-DQ2393-2-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_E-DQ2393-2-08JUL2015.jpg</a>		Jul 8, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_E-DQ2393-1-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_E-DQ2393-1-08JUL2015.jpg</a>		Jul 8, 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\\_104024.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104024.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104024.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104024.pdf)



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

Mn/DOT Name: 4102 F

NGS Name: 4102 F

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2388](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096212/  
 USGS Quad: DEAD COON LAKE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	10	109 N	44 W	441609.69	960725.82	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2016	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 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015)                      Stamping: 4102 F 2015

IN TYLER, 0.55 MILE EAST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND COUNTY ROAD 7 IN TYLER, AT TRUNK HIGHWAY 14 MILEPOINT 16.75, 233.2 FEET EAST OF HIGHLAND LANE, 91.7 FEET SOUTH OF COUNTY ROAD 120, 71.6 FEET NORTH-NORTHEAST OF TRUNK HIGHWAY 14, 2.0 FEET SOUTH OF A RIGHT-OF-WAY POST, 2.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1733.612	0.016	528.406	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.922 12B = -85.964 09 = -85.863 03 = -85.751

Geodetic Position and Lincoln County Coordinates

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)	44 16 09.68650	96 07 25.82180	537416.549	126534.648	163804.892	38567.838	502.240	2016	GPS3151			
NAD83 (1996)	44 16 09.68551	96 07 25.82200	537416.535	126534.548	163804.887	38567.807	502.296	2016	HTYLR	C		

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_F-DQ2388-3NE-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_F-DQ2388-3NE-08JUL2015.jpg</a>	NE	Jul 8, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_F-DQ2388-2-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_F-DQ2388-2-08JUL2015.jpg</a>		Jul 8, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_F-DQ2388-1-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4102_F-DQ2388-1-08JUL2015.jpg</a>		Jul 8, 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\\_104025.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104025.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104025.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104025.pdf)



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

Mn/DOT Name: 4103 A

NGS Name: 4103 A

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5897](#) [Get Map](#)  
NGS Quad / Sta Num : 44096241/  
USGS Quad: LAKE BENTON NE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	32	112 N	45 W	442735.70	961657.50	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2006	2019	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

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

Description: (2006)                      **Stamping:** 4103 A 2006

1.5 MILES WEST OF IVANHOE, 1.0 MILE WEST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, AT TRUNK HIGHWAY 19 MILEPOINT 9.4, 101.4 FEET WEST OF 190TH AVENUE, 62.8 FEET NORTH OF TRUNK HIGHWAY 19, 28.8 FEET WEST-SOUTHWEST OF A POWER POLE NUMBER 2, 15.4 FEET WEST-SOUTHWEST OF ELECTRIC CABINET NUMBER 2, 1.4 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	1687.605 0.016	514.383 0.005	2/1	2011 00000425-40

Geoid Separations(ft): GEOID18 = -85.508    12B = -85.515    09 = -85.403    03 = -85.298

Geodetic Position and Lincoln County Coordinates

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)	44 27 35.70354	96 16 57.50437	495828.991	195979.172	151128.979	59734.571	488.322		2012	GPS2800
NAD83 (2007)	44 27 35.70340	96 16 57.50517	495828.933	195979.158	151128.961	59734.567	488.331	C	2009	GPS2587
NAD83 (1996)	44 27 35.70290	96 16 57.50469	495828.968	195979.108	151128.972	59734.552	488.382	C	2009	HIVAN

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_A-DL5897-3N-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_A-DL5897-3N-23OCT2019.jpg</a>	N	Oct 23, 2019
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_A-DL5897-2-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_A-DL5897-2-23OCT2019.jpg</a>		Oct 23, 2019
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_A-DL5897-1-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_A-DL5897-1-23OCT2019.jpg</a>		Oct 23, 2019

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_63669.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63669.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63669.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63669.pdf)



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

Mn/DOT Name: 4103 B

NGS Name: 4103 B

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5898](#) [Get Map](#)  
NGS Quad / Sta Num : 44096241/  
USGS Quad: LAKE BENTON NE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	6	111 N	45 W	442733.55	961809.89	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2006	2021	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	SURVEY DISK	MNDT

Description: (2006)                      **Stamping:** 4103 B 2006

2.5 MILES WEST OF IVANHOE, 2.0 MILES WEST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, AT TRUNK HIGHWAY 19 MILEPOINT 8.4, 68.8 FEET SOUTH OF TRUNK HIGHWAY 19, 43.6 FEET WEST OF 180TH AVENUE, 6.8 FEET WEST OF CABLE PEDESTAL NUMBER 3J2, 1.4 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1716.712	0.016	523.255	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.348    12B = -85.354    09 = -85.239    03 = -85.141

Geodetic Position and Lincoln County Coordinates

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)	44 27 33.55203	96 18 09.88564	490578.809	195762.944	149528.720	59668.665	497.244	2012	C	2012	GPS2800	
NAD83 (2007)	44 27 33.55189	96 18 09.88643	490578.751	195762.930	149528.703	59668.660	497.253	2009	C	2009	GPS2587	
NAD83 (1996)	44 27 33.55140	96 18 09.88595	490578.787	195762.880	149528.713	59668.645	497.305	2009	C	2009	HIVAN	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_B-DL5898-3S-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_B-DL5898-3S-03MAY2021.jpg</a>	S	May 3, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_B-DL5898-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_B-DL5898-2-03MAY2021.jpg</a>		May 3, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_B-DL5898-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_B-DL5898-1-03MAY2021.jpg</a>		May 3, 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\\_63671.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63671.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63671.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63671.pdf)



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

Mn/DOT Name: 4103 C

NGS Name: 4103 C

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5899](#) [Get Map](#)  
NGS Quad / Sta Num : 44096241/  
USGS Quad: LAKE BENTON NE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	46 W	442732.41	962038.72	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>
2006	2021	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 20 FT)	SURVEY DISK	MNDT

**Description:** (2006) **Stamping:** 4103 C 2006

4.5 MILES WEST OF IVANHOE, 4.0 MILES WEST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, AT TRUNK HIGHWAY 19 MILEPOINT 6.35, 76.5 FEET SOUTH OF TRUNK HIGHWAY 19, 54.1 FEET WEST OF 160TH AVENUE, 5.9 FEET EAST OF A FENCE CORNER, 1.5 FEET NORTH OF A WITNESS POST.

**Station Notes**

FOUND CAP OFF OF ROD. USE WITH CAUTION.

**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	1759.567	0.016	536.317	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -84.990 12B = -84.993 09 = -84.888 03 = -84.800

**Geodetic Position and Lincoln County Coordinates**

<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)	44 27 32.40645	96 20 38.71908	479783.141	195654.411	146238.194	59635.584	510.414	C	2012	GPS2800		
NAD83 (2007)	44 27 32.40630	96 20 38.71995	479783.078	195654.396	146238.175	59635.579	510.427	C	2009	GPS2587		
NAD83 (1996)	44 27 32.40580	96 20 38.71946	479783.113	195654.345	146238.185	59635.564	510.477	C	2009	HIVAN		

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_C-DL5899-3S-29APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_C-DL5899-3S-29APR2009.jpg</a>	S	Apr 29, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_C-DL5899-2-29APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_C-DL5899-2-29APR2009.jpg</a>		Apr 29, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_C-DL5899-1-29APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_C-DL5899-1-29APR2009.jpg</a>		Apr 29, 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\\_63672.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63672.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63672.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63672.pdf)



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

Mn/DOT Name: 4103 D

NGS Name: 4103 D

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5900](#) [Get Map](#)  
NGS Quad / Sta Num : 44096241/  
USGS Quad: LAKE BENTON NE

				Reference	Reference	Vert	Horz
1/4	Sec	Twp	Rng	Latitude	Longitude	Order	Order
SW	35	112 N	46 W	442733.12	962149.00	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2006	2021	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	SURVEY DISK	MNDT

Description: (2006)                      **Stamping:** 4103 D 2006

5.5 MILES WEST OF IVANHOE, 5.0 MILES WEST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, AT TRUNK HIGHWAY 19 MILEPOST 5.35, 132.6 FEET EAST OF COUNTY ROAD 102, 75.2 FEET NORTH OF TRUNK HIGHWAY 19, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1754.107	0.016	534.653	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -84.816    12B = -84.816    09 = -84.718    03 = -84.636

Geodetic Position and Lincoln County Coordinates

Datum and Adjustment	Geodetic Positions						County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Hgt (m)	Ord	Year	Reference				
NAD83 (2011)	44 27 33.12196	96 21 48.99569	474685.723	195732.307	144684.498	59659.327	508.802	N	2012	GPS2800				
NAD83 (2007)	44 27 33.12182	96 21 48.99658	474685.658	195732.293	144684.478	59659.322	508.818	C	2009	GPS2587				
NAD83 (1996)	44 27 33.12133	96 21 48.99609	474685.693	195732.244	144684.489	59659.307	508.866	C	2009	HIVAN				

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_D-DL5900-3N-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_D-DL5900-3N-03MAY2021.jpg</a>	N	May 3, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_D-DL5900-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_D-DL5900-2-03MAY2021.jpg</a>		May 3, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_D-DL5900-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_D-DL5900-1-03MAY2021.jpg</a>		May 3, 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\\_63674.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63674.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63674.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63674.pdf)



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

Mn/DOT Name: 4103 E

NGS Name: 4103 E

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5901](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096244/  
 USGS Quad: LAKE BENTON 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	3	111 N	46 W	442731.47	962303.17	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>
2006	2011	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 25 FT)	SURVEY DISK	MNDT

**Description:** (2006) **Stamping:** 4103 E 2006

6.5 MILES WEST OF IVANHOE, 6.0 MILES NORTH ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, AT TRUNK HIGHWAY 19 MILEPOST 4.35, 87.4 FEET SOUTH OF TRUNK HIGHWAY 19, 51.4 FEET EAST OF COUNTY ROAD 101, 1.5 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	1756.847	0.016	535.488	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -84.636 12B = -84.629 09 = -84.541 03 = -84.465

Geodetic Position and Lincoln County Coordinates

<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)	44 27 31.46840	96 23 03.16764	469305.450	195571.892	143044.587	59610.432	509.691	2012	C	2012	GPS2800	
NAD83 (2007)	44 27 31.46827	96 23 03.16856	469305.383	195571.879	143044.567	59610.428	509.711	2009	C	2009	GPS2587	
NAD83 (1996)	44 27 31.46778	96 23 03.16807	469305.418	195571.829	143044.578	59610.413	509.755	2009	C	2009	HIVAN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_E-DL5901-3S-29APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_E-DL5901-3S-29APR2009.jpg</a>	S	Apr 29, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_E-DL5901-2-29APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_E-DL5901-2-29APR2009.jpg</a>		Apr 29, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_E-DL5901-1-29APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_E-DL5901-1-29APR2009.jpg</a>		Apr 29, 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\\_63682.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63682.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63682.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63682.pdf)



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

Mn/DOT Name: 4103 F

NGS Name: 4103 F

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5902](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096244/  
 USGS Quad: LAKE BENTON 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	4	111 N	46 W	442729.73	962416.42	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>
2006	2019	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 20 FT)	SURVEY DISK	MNDT

**Description:** (2016) **Stamping:** 4103 F 2006

7.5 MILES WEST OF IVANHOE, 7.0 MILES WEST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE TO TRUNK HIGHWAY 19 MILEPOINT 3.35, THEN 0.05 MILE SOUTH ON 130TH AVENUE, 33.6 FEET EAST OF 130TH AVENUE, 23.8 FEET NORTH OF A FIELD ENTRANCE, 3.2 FEET SOUTH OF A WITNESS POST.

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	1784.360	0.016	543.874	0.005	2/1	2020	00000949

Geoid Separations(ft): GEOID18 = -84.458 12B = -84.449 09 = -84.360 03 = -84.294

Geodetic Position and Lincoln County Coordinates

<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)	44 27 29.72943	96 24 16.41517	463992.133	195404.068	141425.085	59559.279	518.131			2012	GPS2800	
NAD83 (2007)	44 27 29.72929	96 24 16.41613	463992.063	195404.054	141425.064	59559.275	518.154	C		2009	GPS2587	
NAD83 (1996)	44 27 29.72880	96 24 16.41562	463992.100	195404.004	141425.075	59559.260	518.197	C		2020	HTH271	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_F-DL5902-3E-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_F-DL5902-3E-23OCT2019.jpg</a>	E	Oct 23, 2019
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_F-DL5902-2-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_F-DL5902-2-23OCT2019.jpg</a>		Oct 23, 2019
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_F-DL5902-1-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_F-DL5902-1-23OCT2019.jpg</a>		Oct 23, 2019

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_63685.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63685.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63685.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63685.pdf)



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

Mn/DOT Name: 4103 G

NGS Name: 4103 G

County: LINCOLN, MN (Sheet 1)

NGS ACRN: <a href="#">DL5903</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096244/	
USGS Quad: LAKE BENTON NW	

<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>
SW	32	112 N	46 W	442733.19	962528.92	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>
2006	2019	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 20 FT)	SURVEY DISK	MNDT

**Description:** (2006)                      **Stamping:** 4103 G 2006

8.5 MILES WEST OF IVANHOE, 8.0 MILES WEST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, AT TRUNK HIGHWAY 19 MILEPOINT 2.35, 171.2 FEET NORTH OF TRUNK HIGHWAY 19, 75.2 FEET EAST OF TRUNK HIGHWAY 271, 4.0 FEET SOUTH OF A RIGHT-OF WAY-POST, 1.6 FEET WEST OF A WITNESS POST.

**Station Pair:** SWINKER - LINCOLN, MN

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	1795.666	0.016	547.320	0.005	2/1	2020	00000949

Geoid Separations(ft): GEOID18 = -84.278    12B = -84.262    09 = -84.173    03 = -84.121

Geodetic Position and Lincoln County Coordinates

<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)	44 27 33.18736	96 25 28.92236	458733.449	195763.788	139822.235	59668.922	521.631	2012	GPS2800			
NAD83 (2007)	44 27 33.18723	96 25 28.92337	458733.376	195763.775	139822.213	59668.918	521.654	2009	GPS2587			
NAD83 (1996)	44 27 33.18674	96 25 28.92286	458733.413	195763.725	139822.224	59668.903	521.697	2020	HTH271			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_G-DL5903-3E-29APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_G-DL5903-3E-29APR2009.jpg</a>	E	Apr 29, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_G-DL5903-2-29APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_G-DL5903-2-29APR2009.jpg</a>		Apr 29, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_G-DL5903-1-29APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_G-DL5903-1-29APR2009.jpg</a>		Apr 29, 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\\_63686.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63686.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63686.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63686.pdf)



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

Mn/DOT Name: 4103 H

NGS Name: 4103 H

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5904](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096244/  
 USGS Quad: LAKE BENTON 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	6	111 N	46 W	442725.57	962639.94	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>
2006	2019	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 20 FT)	SURVEY DISK	MNDT

**Description:** (2016)                      **Stamping:** 4103 H 2006

3.5 MILES SOUTH-SOUTHWEST OF HENDRICKS, 1.0 MILE WEST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 271 IN HENDRICKS (THE JUNCTION IS 3.5 MILES SOUTH OF HENDRICKS), AT TRUNK HIGHWAY 19 MILEPOINT 1.3, THEN 0.05 MILE NORTH ON 110TH AVENUE, 112.0 FEET NORTHWEST OF TRUNK HIGHWAY 19, 34.7 FEET EAST OF 110TH AVENUE, 24.0 FEET SOUTH OF A FIELD ENTRANCE, 1.0 FOOT NORTH OF A WITNESS POST.

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	1823.638	0.016	555.846	0.005	2/1	2020	00000949

Geoid Separations(ft): GEOID18 = -84.111    12B = -84.094    09 = -84.012    03 = -83.966

Geodetic Position and Lincoln County Coordinates

<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)	44 27 25.56706	96 26 39.93527	453580.887	195002.598	138251.731	59436.911	530.210			2012	GPS2800	
NAD83 (2007)	44 27 25.56691	96 26 39.93629	453580.814	195002.583	138251.709	59436.906	530.232	C		2009	GPS2587	
NAD83 (1996)	44 27 25.56642	96 26 39.93578	453580.850	195002.533	138251.720	59436.891	530.275	C		2020	HTH271	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_H-DL5904-3W-29APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_H-DL5904-3W-29APR2009.jpg</a>	W	Apr 29, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_H-DL5904-2-29APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_H-DL5904-2-29APR2009.jpg</a>		Apr 29, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_H-DL5904-1-29APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_H-DL5904-1-29APR2009.jpg</a>		Apr 29, 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\\_63689.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63689.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63689.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63689.pdf)



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

Mn/DOT Name: 4103 J

NGS Name: 4103 J

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5905](#) [Get Map](#)  
NGS Quad / Sta Num : 44096244/  
USGS Quad: LAKE BENTON 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	12	111 N	46 W	442629.78	962706.41	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>
2006	2016	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 25 FT)	SURVEY DISK	MNDT

**Description:** (2016) **Stamping:** 4103 J 2006

4.7 MILES SOUTH-SOUTHWEST OF HENDRICKS, 2.4 MILES WEST AND SOUTH ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 271 IN HENDRICKS (THE JUNCTION IS 3.5 MILES SOUTH OF HENDRICKS), AT TRUNK HIGHWAY 19 MILEPOINT 0.00, 76.5 FEET NORTH OF TRUNK HIGHWAY 19, 51.0 FEET EAST OF THE SOUTH DAKOTA-MINNESOTA STATE LINE ROAD, 39.3 FEET EAST OF A FENCE CORNER, 1.0 FOOT 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	1873.759	0.016	571.123	0.005	2/1	2020	00000949

Geoid Separations(ft): GEOID18 = -84.094 12B = -84.088 09 = -84.002 03 = -83.960

Geodetic Position and Lincoln County Coordinates

<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)	44 26 29.78185	96 27 06.40529	451648.047	189357.115	137662.600	57716.164	545.492	2012	GPS2800			
NAD83 (2007)	44 26 29.78171	96 27 06.40632	451647.972	189357.101	137662.577	57716.160	545.517	2009	GPS2587			
NAD83 (1996)	44 26 29.78121	96 27 06.40582	451648.008	189357.051	137662.588	57716.145	545.558	2009	HIVAN			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_J-DL5905-3N-29APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_J-DL5905-3N-29APR2009.jpg</a>	N	Apr 29, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_J-DL5905-2-29APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_J-DL5905-2-29APR2009.jpg</a>		Apr 29, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_J-DL5905-1-29APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_J-DL5905-1-29APR2009.jpg</a>		Apr 29, 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\\_63723.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63723.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63723.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63723.pdf)



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

Mn/DOT Name: 4103 K

NGS Name: 4103 K

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DM4456](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096244/  
 USGS Quad: LAKE BENTON NW

				<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>
SW	31	112 N	46 W	442731.98	962607.76	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>
2007	2016	GOOD	Horz=NO 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)	SURVEY DISK	MNDT

**Description:** (2016)                      **Stamping:** 4103 K 2007

3.4 MILES SOUTH OF HENDRICKS, 0.5 MILE WEST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 271 (THE JUNCTION IS 3.5 MILES SOUTH OF HENDRICKS), AT TRUNK HIGHWAY 19 MILEPOINT 1.80, 65.0 FEET NORTH OF TRUNK HIGHWAY 19, 63.0 FEET WEST OF A WEATHER STATION TOWER, 17.0 FEET SOUTH OF A POWER POLE, IN THE CONCRETE BASE OF THE REAL TIME REFERENCE NETWORK (RTRN) STATION ON THE SOUTH SIDE.

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	1804.304	0.016	549.953	0.005	2/1	2020	00000949

Geoid Separations(ft): GEOID18 = -84.183    12B = -84.166    09 = -84.084    03 = -84.032

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_K-DM4456-3N-13NOV2007.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_K-DM4456-3N-13NOV2007.jpg</a>	N	Nov 13, 2007
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_K-DM4456-2-13NOV2007.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_K-DM4456-2-13NOV2007.jpg</a>		Nov 13, 2007
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_K-DM4456-1-13NOV2007.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4103_K-DM4456-1-13NOV2007.jpg</a>		Nov 13, 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\\_74177.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_74177.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_74177.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_74177.pdf)



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

Mn/DOT Name: 4104 A

NGS Name: 4104 A

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5906](#) [Get Map](#)  
NGS Quad / Sta Num : 44096211/  
USGS Quad: GISLASON 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	1	111 N	44 W	442639.27	960558.73	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>
2006	2019	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 25 FT)	SURVEY DISK	MNDT

**Description:** (2006) **Stamping:** 4104 A 2006

8.0 MILES EAST OF IVANHOE, 8.8 MILES EAST AND SOUTH ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, AT TRUNK HIGHWAY 19 MILEPOST 19.3, 73.7 FEET NORTH OF TRUNK HIGHWAY 19, 38.8 FEET EAST OF 280TH AVENUE, 1.7 FEET SOUTH OF A WITNESS POST.

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	1612.179	0.016	491.393	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -86.791 12B = -86.791 09 = -86.699 03 = -86.558

Geodetic Position and Lincoln County Coordinates

<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)	44 26 39.26842	96 05 58.73091	543623.952	190307.713	165696.912	58005.907	464.934	N	2012	GPS2800		
NAD83 (2007)	44 26 39.26826	96 05 58.73180	543623.887	190307.696	165696.892	58005.902	464.969	C	2009	GPS2587		
NAD83 (1996)	44 26 39.26776	96 05 58.73147	543623.911	190307.646	165696.900	58005.887	465.001	C	2009	HIVAN		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_A-DL5906-3N-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_A-DL5906-3N-23OCT2019.jpg</a>	N	Oct 23, 2019
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_A-DL5906-2-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_A-DL5906-2-23OCT2019.jpg</a>		Oct 23, 2019
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_A-DL5906-1-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_A-DL5906-1-23OCT2019.jpg</a>		Oct 23, 2019

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_63724.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63724.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63724.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63724.pdf)



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

Mn/DOT Name: 4104 B

NGS Name: 4104 B

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6812](#) [Get Map](#)  
NGS Quad / Sta Num : 44096211/  
USGS Quad: GISLASON LAKE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	3	111 N	44 W	442733.17	960714.73	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2006	2021	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	SURVEY DISK	MNDT

Description: (2006)                      **Stamping:** 4104 B 2006

6.5 MILES EAST OF IVANHOE, 6.9 MILES EAST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, THEN 0.15 MILE EAST ON 280TH STREET, AT TRUNK HIGHWAY 19 MILEPOST 17.25, 94.6 FEET SOUTH OF 280TH STREET, 52.6 FEET WEST OF COUNTY ROAD 8, 39.7 FEET SOUTH OF CABLE PEDESTAL NUMBER 12J1, 1.3 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	1561.647 0.016	475.991 0.005	2/1	2011 00000425-40

Geoid Separations(ft): GEOID18 = -86.680 12B = -86.683 09 = -86.584 03 = -86.443

Geodetic Position and Lincoln County Coordinates

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)	44 27 33.16916	96 07 14.72971	538100.273	195756.064	164013.291	59666.568	449.567		2012	GPS2800
NAD83 (2007)	44 27 33.16901	96 07 14.73062	538100.207	195756.048	164013.271	59666.563	449.601	C	2009	GPS2587
NAD83 (1996)	44 27 33.16851	96 07 14.73027	538100.232	195755.998	164013.279	59666.547	449.633	C	2009	HIVAN

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_B-DL6812-3W-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_B-DL6812-3W-03MAY2021.jpg</a>	W	May 3, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_B-DL6812-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_B-DL6812-2-03MAY2021.jpg</a>		May 3, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_B-DL6812-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_B-DL6812-1-03MAY2021.jpg</a>		May 3, 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\\_63725.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63725.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63725.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63725.pdf)



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

Mn/DOT Name: 4104 C

NGS Name: 4104 C

County: LINCOLN, MN (Sheet 1)

NGS ACRN: <a href="#">DL5908</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096214/	
USGS Quad: ARCO	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	44 W	442733.93	960826.88	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>
2006	2009	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	MNDT

**Description:** (2006)                      **Stamping:** 4104 C 2006

5.5 MILES EAST OF IVANHOE, 6.0 MILES EAST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, AT TRUNK HIGHWAY 19 MILEPOST 16.4, 67.7 FEET SOUTH OF TRUNK HIGHWAY 19, 26.6 FEET EAST OF 260TH AVENUE, 1.2 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	1620.043	0.016	493.790	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -86.535 12B = -86.535 09 = -86.443 03 = -86.306

Geodetic Position and Lincoln County Coordinates

<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)	44 27 33.92679	96 08 26.88329	532866.528	195824.102	162418.043	59687.306	467.408			2012	GPS2800	
NAD83 (2007)	44 27 33.92666	96 08 26.88421	532866.461	195824.088	162418.022	59687.302	467.441	C		2009	GPS2587	
NAD83 (1996)	44 27 33.92618	96 08 26.88385	532866.487	195824.040	162418.030	59687.287	467.473	C		2009	HIVAN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_C-DL5908-3S-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_C-DL5908-3S-28APR2009.jpg</a>	S	Apr 28, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_C-DL5908-2-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_C-DL5908-2-28APR2009.jpg</a>		Apr 28, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_C-DL5908-1-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_C-DL5908-1-28APR2009.jpg</a>		Apr 28, 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\\_63726.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63726.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63726.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63726.pdf)



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

Mn/DOT Name: 4104 D

NGS Name: 4104 D

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5909](#) [Get Map](#)  
NGS Quad / Sta Num : 44096214/  
USGS Quad: ARCO

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	44 W	442733.07	960939.96	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>
2006	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 20 FT)	SURVEY DISK	MNDT

**Description:** (2006) **Stamping:** 4104 D 2006

4.5 MILES EAST OF IVANHOE, 5.0 MILES EAST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, AT TRUNK HIGHWAY 19 MILEPOST 15.4, 0.05 MILE SOUTH OF TRUNK HIGHWAY 19, 33.8 FEET EAST OF 250TH AVENUE, 1.4 FEET WEST OF A WITNESS POST.

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	1617.087	0.016	492.889	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -86.394 12B = -86.391 09 = -86.296 03 = -86.165

Geodetic Position and Lincoln County Coordinates

<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)	44 27 33.07282	96 09 39.95727	527566.269	195730.118	160802.520	59658.659	466.553			2012	GPS2800	
NAD83 (2007)	44 27 33.07269	96 09 39.95818	527566.203	195730.104	160802.500	59658.655	466.585	C		2009	GPS2587	
NAD83 (1996)	44 27 33.07221	96 09 39.95783	527566.228	195730.056	160802.508	59658.640	466.618	C		2009	HIVAN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_D-DL5909-3E-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_D-DL5909-3E-03MAY2021.jpg</a>	E	May 3, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_D-DL5909-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_D-DL5909-2-03MAY2021.jpg</a>		May 3, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_D-DL5909-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_D-DL5909-1-03MAY2021.jpg</a>		May 3, 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\\_63727.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63727.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63727.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63727.pdf)



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

Mn/DOT Name: 4104 E

NGS Name: 4104 E

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5910](#) [Get Map](#)  
NGS Quad / Sta Num : 44096214/  
USGS Quad: ARCO

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	5	111 N	44 W	442734.68	961052.74	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2006	2021	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	SURVEY DISK	MNDT

Description: (2006)                      **Stamping:** 4104 E 2006

3.5 MILES EAST OF IVANHOE, 4.0 MILES EAST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 WEST OF IVANHOE, AT TRUNK HIGHWAY 19 MILEPOST 14.4, 96.4 FEET SOUTH OF TRUNK HIGHWAY 19, 64.6 FEET EAST OF COUNTY ROAD 7, 12.3 FEET SOUTH OF AN ENTRANCE TO THE STATE WILDLIFE MANAGEMENT AREA, 1.6 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	1618.668 0.016	493.371 0.005	2/1	2013 00000797

Geoid Separations(ft): GEOID18 = -86.250 12B = -86.253 09 = -86.155 03 = -86.023

Geodetic Position and Lincoln County Coordinates

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)	44 27 34.67994	96 10 52.74002	522286.829	195886.723	159193.344	59706.393	467.079			2012	GPS2800	
NAD83 (2007)	44 27 34.67980	96 10 52.74093	522286.763	195886.708	159193.324	59706.388	467.111	C		2009	GPS2587	
NAD83 (1996)	44 27 34.67932	96 10 52.74058	522286.789	195886.660	159193.332	59706.373	467.144	C		2009	HIVAN	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_E-DL5910-3S-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_E-DL5910-3S-03MAY2021.jpg</a>	S	May 3, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_E-DL5910-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_E-DL5910-2-03MAY2021.jpg</a>		May 3, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_E-DL5910-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_E-DL5910-1-03MAY2021.jpg</a>		May 3, 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\\_63728.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63728.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63728.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63728.pdf)



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

Mn/DOT Name: 4104 F

NGS Name: 4104 F

County: LINCOLN, MN (Sheet 1)

NGS ACRN: <a href="#">DL6811</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096214/	
USGS Quad: ARCO	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	45 W	442735.00	961317.00	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>
2006	2009	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 14 FT)	SURVEY DISK	MNDT

**Description:** (2006)                      **Stamping:** 4104 F 2006

1.5 MILES EAST OF IVANHOE, 2.0 MILES EAST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, AT TRUNK HIGHWAY 19 MILEPOST 12.4, 71.2 FEET SOUTH OF TRUNK HIGHWAY 19, 54.5 FEET WEST OF 220TH AVENUE, 11.7 FEET NORTHWEST OF A POWER POLE, 1.0 FOOT NORTH OF A WITNESS POST.

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	1641.713	0.016	500.395	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.968    12B = -85.968    09 = -85.863    03 = -85.741

\* No Horizontal Positions in the Database \*

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_F-DL6811-3S-31OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_F-DL6811-3S-31OCT2006.jpg</a>	S	Oct 31, 200
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_F-DL6811-2-31OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_F-DL6811-2-31OCT2006.jpg</a>		Oct 31, 200
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_F-DL6811-1-31OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_F-DL6811-1-31OCT2006.jpg</a>		Oct 31, 200

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_63730.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63730.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63730.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63730.pdf)



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

Mn/DOT Name: 4104 F RESET

NGS Name: 4104 F RESET

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5911](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096214/  
 USGS Quad: ARCO

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	45 W	442735.68	961317.52	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>
2009	2019	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 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2009) **Stamping:** 4104 F RESET 2006 2009

1.5 MILES EAST OF IVANHOE, 2.0 MILES EAST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, AT TRUNK HIGHWAY 19 MILEPOINT 12.4, 71.2 FEET SOUTH OF TRUNK HIGHWAY 19, 54.5 FEET WEST OF 220TH AVENUE, 11.7 FEET NORTHWEST OF A POWER POLE, 1.0 FOOT NORTH OF A WITNESS POST.

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	1641.670	0.016	500.382	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.968 12B = -85.968 09 = -85.863 03 = -85.741

Geodetic Position and Lincoln County Coordinates

<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)	44 27 35.67753	96 13 17.51745	511785.473	195979.382	155992.524	59734.635	474.177			2012	GPS2800	
NAD83 (2007)	44 27 35.67736	96 13 17.51827	511785.413	195979.365	155992.506	59734.630	474.201			2009	GPS2587	
NAD83 (1996)	44 27 35.67688	96 13 17.51789	511785.441	195979.316	155992.514	59734.615	474.239			2009	HIVAN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_F_RESET-DL5911-3S-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_F_RESET-DL5911-3S-23OCT2019.jpg</a>	S	Oct 23, 2019
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_F_RESET-DL5911-2-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_F_RESET-DL5911-2-23OCT2019.jpg</a>		Oct 23, 2019
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_F_RESET-DL5911-1-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_F_RESET-DL5911-1-23OCT2019.jpg</a>		Oct 23, 2019

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_86365.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_86365.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_86365.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_86365.pdf)



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

Mn/DOT Name: 4104 G

NGS Name: 4104 G

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5912](#) [Get Map](#)  
NGS Quad / Sta Num : 44096214/  
USGS Quad: ARCO

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	45 W	442735.95	961423.42	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>
2006	2011	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 20 FT)	SURVEY DISK	MNDT

**Description:** (2006) **Stamping:** 4104 G 2006

0.5 MILE EAST OF IVANHOE, 1.1 MILES EAST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, AT TRUNK HIGHWAY 19 MILEPOST 11.5, 74.6 FEET SOUTH OF TRUNK HIGHWAY 19, 6.1 FEET EAST OF A LOT CORNER, 2.8 FEET WEST OF A RIGHT-OF-WAY POST, 2.8 FEET WEST OF A WITNESS POST.

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	1683.399	0.016	513.101	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.833 12B = -85.836 09 = -85.728 03 = -85.613

Geodetic Position and Lincoln County Coordinates

<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)	44 27 35.94939	96 14 23.41694	507005.525	196004.813	154535.593	59742.387	486.943	C	2012	GPS2800		
NAD83 (2007)	44 27 35.94923	96 14 23.41774	507005.467	196004.797	154535.576	59742.382	486.965	C	2009	GPS2587		
NAD83 (1996)	44 27 35.94875	96 14 23.41734	507005.496	196004.748	154535.584	59742.367	487.004	C	2011	HTH75		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_G-DL5912-3S-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_G-DL5912-3S-28APR2009.jpg</a>	S	Apr 28, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_G-DL5912-2-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_G-DL5912-2-28APR2009.jpg</a>		Apr 28, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_G-DL5912-1-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_G-DL5912-1-28APR2009.jpg</a>		Apr 28, 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\\_63731.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63731.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63731.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63731.pdf)



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

Mn/DOT Name: 4104 H

NGS Name: 4104 H

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5913](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096241/  
 USGS Quad: LAKE BENTON NE

				Reference	Reference	Vert	Horz
1/4	Sec	Twp	Rng	Latitude	Longitude	Order	Order
NW	3	111 N	45 W	442734.74	961540.21	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2006	2011	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

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

Description: (2012)                      **Stamping:** 4104 H 2006

0.5 MILE WEST OF IVANHOE, AT THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, AT TRUNK HIGHWAY 19 MILEPOST 10.4, 211.3 FEET EAST OF TRUNK HIGHWAY 75, 134.3 FEET SOUTH OF TRUNK HIGHWAY 19, 2.0 FEET NORTHWEST OF A RIGHT-OF-WAY POST, 2.0 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1674.655	0.016	510.436	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.676    12B = -85.682    09 = -85.571    03 = -85.462

Geodetic Position and Lincoln County Coordinates

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)	44 27 34.74368	96 15 40.21460	501435.116	195881.602	152837.729	59704.832	484.329			2012	GPS2800	
NAD83 (2007)	44 27 34.74352	96 15 40.21540	501435.058	195881.586	152837.711	59704.827	484.351	C		2009	GPS2587	
NAD83 (1996)	44 27 34.74304	96 15 40.21500	501435.087	195881.537	152837.720	59704.812	484.391	C		2011	HTH75	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_H-DL5913-3S-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_H-DL5913-3S-28APR2009.jpg</a>	S	Apr 28, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_H-DL5913-2-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_H-DL5913-2-28APR2009.jpg</a>		Apr 28, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_H-DL5913-1-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4104_H-DL5913-1-28APR2009.jpg</a>		Apr 28, 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\\_63732.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63732.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63732.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63732.pdf)



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

Mn/DOT Name: 4106 A

NGS Name: 4106 A

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DM5950](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096124/  
 USGS Quad: PORTER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	44 W	443732.00	960845.00	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	2009	GOOD	Horz=NO Vert=YES	YES	6221	FLUSH	NO MAG MATERIAL

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

**Description:** (1953)                      **Stamping:** 4106 A 1953

1.2 MILES SOUTHEAST OF PORTER, 1.0 MILE SOUTHEAST ALONG TRUNK HIGHWAY 68 FROM THE JUNCTION OF TRUNK HIGHWAY 68 AND SUNRISE AVENUE IN PORTER, AT TRUNK HIGHWAY 68 MILEPOINT 17.60, IN THE MIDDLE OF A SOUTH HEADWALL OF A TRUNK HIGHWAY 60 CULVERT (BRIDGE NUMBER 6221), 18.0 FEET SOUTHEAST OF TRUNK HIGHWAY 60, AT TRUNK HIGHWAY 60 STATION 458+11.

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	1195.946	0.016	364.525	0.005	2/1	2012	00000711

Geoid Separations(ft): GEOID18 = -85.955    12B = -85.961    09 = -85.830    03 = -85.754

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_A-DM5950-3SW-14APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_A-DM5950-3SW-14APR2009.jpg</a>	SW	Apr 14, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_A-DM5950-2-14APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_A-DM5950-2-14APR2009.jpg</a>		Apr 14, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_A-DM5950-1-14APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_A-DM5950-1-14APR2009.jpg</a>		Apr 14, 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\\_17627.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17627.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17627.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17627.pdf)



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

Mn/DOT Name: 4106 B

NGS Name: 4106 B

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096123/  
 USGS Quad: PORTER 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	3	113 N	44 W	443725.00	960826.00		

<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	2008	DESTROYED	Horz=NO Vert=NO	NO	6220	FLUSH	SEE DESCRIPTION

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

**Description:** (2016)

**Stamping:**

1.5 MILES SOUTHEAST OF PORTER, 1.3 MILES SOUTHWEST ON TRUNK HIGHWAY 68 FROM THE JUNCTION OF TRUNK HIGHWAY 68 AND SUNRISE AVENUE IN PORTER, IN THE MIDDLE OF A SOUTH HEADWALL OF A TRUNK HIGHWAY 60 CULVERT (BRIDGE 6220), 15.0 FEET SOUTH OF TRUNK HIGHWAY 60, AT TRUNK HIGHWAY 60 STATION 482+83.

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

Geoid Separations(ft): GEOID18 = -86.007 12B = -86.014 09 = -85.879 03 = -85.804

\* 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\\_17628.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17628.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17628.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17628.pdf)



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

Mn/DOT Name: 4106 C

NGS Name: 4106 C

County: LINCOLN, MN (Sheet 1)

NGS ACRN: <a href="#">DM4080</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096122/	
USGS Quad: TAUNTON	

<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	12	113 N	44 W	443626.00	960604.00	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>
1986	2009	GOOD	Horz=NO Vert=YES	YES	41002	FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	VERTICAL CONTROL DISK	MNDT

**Description:** (2009)                      **Stamping:** 4106 C 2006

2.0 MILES NORTHWEST OF TAUNTON, 1.6 MILES NORTHWEST ON TRUNK HIGHWAY 68 FROM THE JUNCTION OF TRUNK HIGHWAY 68 AND 110TH AVENUE IN TAUNTON, IN AN ABUTMENT IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 68 BRIDGE NUMBER 41002, 1.9 MILES NORTHWEST ALONG TRUNK HIGHWAY 68 FROM THE JUNCTION OF TRUNK HIGHWAY 68 AND COUNTY ROAD 1 NORTH IN TAUNTON, AT TRUNK HIGHWAY 68 MILEPOINT 20.1, 24.0 FEET SOUTHWEST OF TRUNK HIGHWAY 68.

**Station Notes**

THE DISK SET IN THE BRIDGE WHEN BUILT IN 1986, THEN STAMPED WHEN USED IN 2006.

**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	1175.634	0.016	358.334	0.005	2/1	2012	00000711

Geoid Separations(ft): GEOID18 = -86.430 12B = -86.437 09 = -86.286 03 = -86.194

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_C-DM4080-3SW-14APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_C-DM4080-3SW-14APR2009.jpg</a>	SW	Apr 14, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_C-DM4080-2-14APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_C-DM4080-2-14APR2009.jpg</a>		Apr 14, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_C-DM4080-1-14APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_C-DM4080-1-14APR2009.jpg</a>		Apr 14, 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\\_63577.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63577.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63577.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63577.pdf)



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

Mn/DOT Name: 4106 D

NGS Name: 4106 D

County: LINCOLN, MN (Sheet 1)

NGS ACRN: <a href="#">DL5832</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096124/	
USGS Quad: PORTER	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	44 W	443743.82	960914.39	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>
2006	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 65 FT)	SURVEY DISK	MNDT

**Description:** (2009)                      **Stamping:** 4106 D 2006

IN PORTER, 0.8 MILE SOUTHEAST ALONG TRUNK HIGHWAY 68 FROM THE JUNCTION OF TRUNK HIGHWAY 68 AND COUNTY ROAD 12 IN PORTER, AT TRUNK HIGHWAY 68 MILEPOINT 17.15, 87.6 FEET SOUTHWEST OF TRUNK HIGHWAY 68, 33.5 FEET WEST 250TH AVENUE, 2.4 FEET SOUTHEAST OF A WITNESS POST.

**Station Notes**

NO REAL TIME REFERENCE NETWORK (RTRN).

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	1196.057	0.016	364.559	0.005	2/1	2012	00000711

Geoid Separations(ft): GEOID18 = -85.879    12B = -85.882    09 = -85.758    03 = -85.682

Geodetic Position and Lincoln County Coordinates

<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)	44 37 43.81831	96 09 14.39108	529335.522	257588.097	161341.790	78513.009	338.382	C	2012	GPS2800		
NAD83 (2007)	44 37 43.81824	96 09 14.39209	529335.449	257588.090	161341.768	78513.007	338.423	C	2009	GPS2583		
NAD83 (1996)	44 37 43.81781	96 09 14.39165	529335.481	257588.047	161341.777	78512.994	338.444	C	2009	HCNBY		

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_D-DL5832-3W-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_D-DL5832-3W-03MAY2021.jpg</a>	W	May 3, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_D-DL5832-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_D-DL5832-2-03MAY2021.jpg</a>		May 3, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_D-DL5832-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_D-DL5832-1-03MAY2021.jpg</a>		May 3, 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\\_63578.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63578.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63578.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63578.pdf)



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

Mn/DOT Name: 4106 E

NGS Name: 4106 E

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5833](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096123/  
 USGS Quad: PORTER 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	2	113 N	44 W	443705.76	960736.34	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>
2009	2021	GOOD	Horz=NO Vert=NO	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 13 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2009)                      **Stamping:** 4106 E 2009

2.5 MILES SOUTHEAST OF PORTER, 2.4 MILES SOUTHEAST ALONG TRUNK HIGHWAY 68 FROM THE JUNCTION OF TRUNK HIGHWAY 68 AND COUNTY ROAD 12 IN PORTER, AT TRUNK HIGHWAY 68 MILEPOINT 18.70, 96.2 FEET NORTHEAST OF TRUNK HIGHWAY 68, 59.8 FEET NORTH OF A POWER POLE WITH A GUY WIRE, 26.0 FEET NORTHWEST OF DRIVEWAY NUMBER 2632, 24.0 FEET NORTHEAST OF A FENCE CORNER POST.

**Station Notes**

NO WITNESS POST WAS SET IN THE PRIVATE YARD.

**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	1177.425	0.016	358.880	0.005	2/1	2012	00000711

Geoid Separations(ft): GEOID18 = -86.145    12B = -86.158    09 = -86.014    03 = -85.928

**Geodetic Position and Lincoln County Coordinates**

<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)	44 37 05.75661	96 07 36.33686	536433.845	253744.141	163505.363	77341.369	332.625			2012	GPS2800	
NAD83 (2007)	44 37 05.75655	96 07 36.33786	536433.773	253744.135	163505.341	77341.367	332.666	C		2009	GPS2583	
NAD83 (1996)	44 37 05.75613	96 07 36.33743	536433.804	253744.093	163505.350	77341.354	332.687	C		2009	HCNBY	

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_E-DL5833-3NE-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_E-DL5833-3NE-03MAY2021.jpg</a>	NE	May 3, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_E-DL5833-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_E-DL5833-2-03MAY2021.jpg</a>		May 3, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_E-DL5833-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_E-DL5833-1-03MAY2021.jpg</a>		May 3, 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\\_86052.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_86052.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_86052.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_86052.pdf)



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

Mn/DOT Name: 4106 F

NGS Name: 4106 F

County: LINCOLN, MN (Sheet 1)

NGS ACRN: <a href="#">DL5834</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096122/	
USGS Quad: TAUNTON	

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	11	113 N	44 W	443650.76	960700.45	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2009	2019	GOOD	Horz=YES Vert=YES	YES		FLUSH	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: (2009)                      **Stamping:** 4106 F 2009

3.0 MILES SOUTHEAST OF PORTER, 2.85 MILES SOUTHEAST ALONG TRUNK HIGHWAY 68 FROM THE JUNCTION OF TRUNK HIGHWAY 68 AND COUNTY ROAD 12/16 IN PORTER, AT TRUNK HIGHWAY 68 MILEPOINT 19.25, 72.4 FEET NORTHEAST OF TRUNK HIGHWAY 68, 36.5 FEET SOUTHEAST OF A FIELD ENTRANCE, 20.0 FEET SOUTHEAST OF A POWER POLE, 1.0 FOOT SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1178.912	0.016	359.333	0.005	2/1	2012	00000711

Geoid Separations(ft): GEOID18 = -86.250 12B = -86.266 09 = -86.115 03 = -86.027

Geodetic Position and Lincoln County Coordinates

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)	44 36 50.76227	96 07 00.45474	539032.255	252230.109	164297.360	76879.891	333.047	2012	GPS2800			
NAD83 (2007)	44 36 50.76219	96 07 00.45577	539032.180	252230.101	164297.337	76879.888	333.090	2009	GPS2583			
NAD83 (1996)	44 36 50.76176	96 07 00.45533	539032.212	252230.057	164297.347	76879.875	333.112	2009	HCNBY			

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_F-DL5834-3NE-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_F-DL5834-3NE-23OCT2019.jpg</a>	NE	Oct 23, 2019
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_F-DL5834-2-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_F-DL5834-2-23OCT2019.jpg</a>		Oct 23, 2019
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_F-DL5834-1-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_F-DL5834-1-23OCT2019.jpg</a>		Oct 23, 2019

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_86072.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_86072.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_86072.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_86072.pdf)



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

Mn/DOT Name: 4106 G

NGS Name: 4106 G

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5835](#) [Get Map](#)  
NGS Quad / Sta Num : 44096122/  
USGS Quad: TAUNTON

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	12	113 N	44 W	443631.46	960612.48	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2009	2009	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2016)                      **Stamping:** 4106 G 2009

4.0 MILES SOUTHEAST OF PORTER, 3.7 MILES SOUTHEAST ALONG TRUNK HIGHWAY 68 FROM THE JUNCTION OF TRUNK HIGHWAY 68 AND COUNTY ROAD 12 IN PORTER, AT TRUNK HIGHWAY 68 MILEPOINT 20, 113.0 FEET NORTHEAST OF TRUNK HIGHWAY 68, AT TRUNK HIGHWAY 68 MILEPOINT 20.0, 50.8 FEET SOUTHEAST OF DRIVEWAY NUMBER 2748, 2.7 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	1170.076 0.016	356.640 0.005	2/1	2012 00000711

Geoid Separations(ft): GEOID18 = -86.401 12B = -86.411 09 = -86.260 03 = -86.168

Geodetic Position and Lincoln County Coordinates

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)	44 36 31.45726	96 06 12.48096	542506.711	250281.537	165356.376	76285.965	330.317			2012	GPS2800
NAD83 (2007)	44 36 31.45722	96 06 12.48197	542506.638	250281.533	165356.354	76285.964	330.355	C		2009	GPS2583
NAD83 (1996)	44 36 31.45679	96 06 12.48155	542506.669	250281.489	165356.363	76285.951	330.377	C		2009	HCNBY

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_G-DL5835-3NE-06MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_G-DL5835-3NE-06MAY2009.jpg</a>	NE	May 6, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_G-DL5835-2-06MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_G-DL5835-2-06MAY2009.jpg</a>		May 6, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_G-DL5835-1-06MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4106_G-DL5835-1-06MAY2009.jpg</a>		May 6, 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\\_86067.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_86067.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_86067.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_86067.pdf)



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

Mn/DOT Name: 4107 A

NGS Name: 4107 A

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DK9890](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096231/  
 USGS Quad: VERDI

<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>
NE	31	109 N	45 W	441236.00	961819.50	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>
1976	2010	GOOD	Horz=NO Vert=YES	YES	6394	FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	VERTICAL CONTROL DISK	MNDT

**Description:** (2006)                      **Stamping:** 4107 A 2006

3.6 MILES SOUTH-SOUTHEAST OF LAKE BENTON, 3.8 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, AT TRUNK HIGHWAY 75 MILEPOST 50.85, 24.0 FEET SOUTHEAST OF TRUNK HIGHWAY 75.

**Station Notes**

A DISK WAS SET IN A DRILL HOLE IN 1976 AND THEN STAMPED WHEN USED IN 2006, BRIDGE NUMBER 6394 WAS BUILT IN 1950.

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	1753.989	0.016	534.617	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -84.780 12B = -84.826 09 = -84.718 03 = -84.636

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A-DK9890-3SE-11OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A-DK9890-3SE-11OCT2006.jpg</a>	SE	Oct 11, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A-DK9890-2-11OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A-DK9890-2-11OCT2006.jpg</a>		Oct 11, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A-DK9890-1-11OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A-DK9890-1-11OCT2006.jpg</a>		Oct 11, 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\\_63567.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63567.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63567.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63567.pdf)



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

Mn/DOT Name: 4107 A 1

NGS Name: 4107 A 1

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DK9891](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096231/  
 USGS Quad: VERDI

				<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>
SW	25	109 N	46 W	441242.69	962000.98	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>
2006	2021	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 30 FT)	SURVEY DISK	MNDT

**Description:** (2006)                      **Stamping:** 4107 A 1 2006

1.0 MILE EAST OF VERDI, 1.0 MILE NORTHEAST AND EAST ALONG COUNTY ROAD 9 FROM THE JUNCTION OF COUNTY ROAD 9 AND COUNTY ROAD 2 IN VERDI, 49.1 FEET NORTH OF COUNTY ROAD 9, 78.5 FEET WEST OF A FIELD ENTRANCE, 57.8 FEET EAST OF A POWER POLE, 1.0 FOOT WEST OF A WITNESS POST.

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	1762.926	0.016	537.341	0.005	2/1	2009	00000425-36

Geoid Separations(ft): GEOID18 = -84.695 12B = -84.744 09 = -84.629 03 = -84.541

Geodetic Position and Lincoln County Coordinates

<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)	44 12 42.68696	96 20 00.98398	482446.530	105545.521	147049.997	32170.339	511.496	3	2021	GPSBM		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A_1-DK9891-3N-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A_1-DK9891-3N-04MAY2021.jpg</a>	N	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A_1-DK9891-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A_1-DK9891-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A_1-DK9891-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A_1-DK9891-1-04MAY2021.jpg</a>		May 4, 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\\_63568.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63568.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63568.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63568.pdf)



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

Mn/DOT Name: 4107 A 2

NGS Name: 4107 A 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DK9892](#) [Get Map](#)  
NGS Quad / Sta Num : 44096231/  
USGS Quad: VERDI

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	46 W	441335.01	962148.77	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>
2006	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 20 FT)	SURVEY DISK	MNDT

**Description:** (2006)                      **Stamping:** 4107 A 2 2006

1.50 MILES NORTHWEST OF VERDI, 1.0 MILE NORTH ALONG COUNTY ROAD 2 FROM THE JUNCTION OF COUNTY ROAD 2 AND COUNTY ROAD 9 IN VERDI, 54.2 FEET WEST OF COUNTY ROAD 2, 42.0 FEET NORTH OF 120TH STREET, 18.7 FEET SOUTH OF A CABLE MARKER, 1.8 FEET SOUTH OF A WITNESS POST AND A WILDLIFE SIGN.

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	1810.154	0.016	551.736	0.005	2/1	2009	00000425-36

Geoid Separations(ft): GEOID18 = -84.596    12B = -84.642    09 = -84.541    03 = -84.449

Geodetic Position and Lincoln County Coordinates

<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)	44 13 35.01314	96 21 48.76830	474601.710	110852.640	144658.891	33787.952	525.935	3	2021	GPSBM		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A_2-DK9892-3W-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A_2-DK9892-3W-04MAY2021.jpg</a>	W	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A_2-DK9892-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A_2-DK9892-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A_2-DK9892-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A_2-DK9892-1-04MAY2021.jpg</a>		May 4, 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\\_63569.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63569.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63569.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63569.pdf)



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

Mn/DOT Name: 4107 A 3

NGS Name: 4107 A 3

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DK9893](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096231/  
 USGS Quad: VERDI

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	46 W	441428.10	962149.30	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>
2006	2006	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 25 FT)	SURVEY DISK	MNDT

**Description:** (2006)                      **Stamping:** 4107 A 3 2006

2.3 MILES NORTHWEST OF VERDI, 2.0 MILES NORTH ALONG COUNTY ROAD 2 FROM THE JUNCTION OF COUNTY ROAD 2 AND COUNTY ROAD 9 IN VERDI, 98.0 FEET WEST OF COUNTY ROAD 2, 151.0 FEET NORTH OF COUNTY ROAD 10 (130TH STREET), 25.6 FEET SOUTH OF THE SOUTHEAST CORNER OF A CABLE BOX, 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	1877.162	0.016	572.160	0.005	2/1	2009	00000425-36

Geoid Separations(ft): GEOID18 = -84.570 12B = -84.613 09 = -84.511 03 = -84.422

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A_3-DK9893-3W-25OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A_3-DK9893-3W-25OCT2006.jpg</a>	W	Oct 25, 200
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A_3-DK9893-2-25OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A_3-DK9893-2-25OCT2006.jpg</a>		Oct 25, 200
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A_3-DK9893-1-25OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_A_3-DK9893-1-25OCT2006.jpg</a>		Oct 25, 200

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_63570.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63570.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63570.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63570.pdf)



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

Mn/DOT Name: 4107 B

NGS Name: 4107 B

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DK9894](#) [Get Map](#)  
NGS Quad / Sta Num : 44096231/  
USGS Quad: VERDI

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441334.50	961802.50	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>
2006	2021	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 20 FT)	SURVEY DISK	MNDT

**Description:** (2006) **Stamping:** 4107 B 2006

2.7 MILES SOUTH-SOUTHWEST OF LAKE BENTON, 2.9 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, AT TRUNK HIGHWAY 75 MILEPOINT 52.0, 86.8 FEET EAST OF TRUNK HIGHWAY 75, 122.2 FEET SOUTH OF COUNTY ROAD 9, 33.0 FEET SOUTHWEST OF METAL HIGH TENSION POWER POLE NUMBER 134, 1.0 FOOT SOUTH OF A WITNESS POST.

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	1854.941	0.016	565.387	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -84.787 12B = -84.826 09 = -84.731 03 = -84.649

Geodetic Position and Lincoln County Coordinates

<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)	44 13 34.50060	96 18 02.50042	491079.151	110787.551	149681.225	33768.113	539.545			2014	GPS3047	
NAD83 (1996)	44 13 34.50002	96 18 02.50074	491079.128	110787.493	149681.218	33768.095	539.600	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_B-DK9894-3E-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_B-DK9894-3E-04MAY2021.jpg</a>	E	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_B-DK9894-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_B-DK9894-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_B-DK9894-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_B-DK9894-1-04MAY2021.jpg</a>		May 4, 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\\_63571.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63571.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63571.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63571.pdf)



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

Mn/DOT Name: 4107 C

NGS Name: 4107 C

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096231/  
 USGS Quad: VERDI

<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	30	109 N	45 W	441308.00	961803.00		

<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	2010	NOT FOUND	Horz=NO Vert=YES	YES		FLUSH	SEE DESCRIPTION

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

**Description:** (1953)

**Stamping:**

3.0 MILES SOUTH OF LAKE BENTON, 3.2 MILES SOUTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND HIGHWAY 14 IN LAKE BENTON, 75.0 FEET EAST OF TRUNK HIGHWAY 75, AT TRUNK HIGHWAY 75 STATION 95+60.

**Station Notes**

NO TIES, LATITUDE AND LONGITUDE WERE OF NO USE.

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

Geoid Separations(ft): GEOID18 = -84.790 12B = -84.829 09 = -84.728 03 = -84.649

\* 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\\_17629.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17629.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17629.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17629.pdf)



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

Mn/DOT Name: 4107 E

NGS Name: 4107 E

County: LINCOLN, MN (Sheet 1)

NGS ACRN: NGS Quad / Sta Num : 44096231/ USGS Quad: VERDI	<a href="#">Get Map</a>
---	-------------------------

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441448.00	961730.00		

<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	1953	GOOD	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

  

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

**Description:** (1953)                      **Stamping:** 4107 E 1953

1.0 MILE SOUTH OF LAKE BENTON, 1.2 MILES SOUTH-SOUTHWEST ON TRUNK HIGHWAY 75 FROM THE SOUTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, AT TRUNK HIGHWAY 75 MILEPOINT 53.65, 50.0 FEET EAST OF TRUNK HIGHWAY 75, AT THE SOUTH END OF THE EAST HEADWALL OF A TRUNK HIGHWAY 75 BOX CULVERT.

**Station Notes**

IF THE MARK IS IN, IT'S NOT FEASIBLE TO LEVEL TO, 30.0 FEET DOWN FROM THE HIGHWAY AT A STEEP ANGLE.  
(12-01-2010)

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

Geoid Separations(ft): GEOID18 = -84.855    12B = -84.882    09 = -84.810    03 = -84.728

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17630.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17630.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17630.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17630.pdf)



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

Mn/DOT Name: 4107 F

NGS Name: 4107 F

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0147](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441512.77	961708.20	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>
1953	2015	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:** (2006)                      **Stamping:** 4107 F 1953

IN LAKE BENTON, 0.6 MILE SOUTH OF THE SOUTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 71 MILEPOINT 54.20, 71.0 FEET SOUTHEAST OF TRUNK HIGHWAY 71, 44.5 FEET SOUTH OF THE SOUTHWEST CORNER OF A GARAGE, IN THE SOUTHEAST END OF THE NORTHEAST HEADWALL OF A TRUNK HIGHWAY 75 BOX CULVERT.

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	1823.546	0.016	555.818	0.005	2/1	2017	00000903
NGVD29	1822.759	0.016	555.578	0.005	2/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.908    12B = -84.931    09 = -84.865    03 = -84.783

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_F-PR0147-3SE-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_F-PR0147-3SE-22JUN2015.jpg</a>	SE	Jun 22, 2015
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_F-PR0147-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_F-PR0147-2-22JUN2015.jpg</a>		Jun 22, 2015
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_F-PR0147-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_F-PR0147-1-22JUN2015.jpg</a>		Jun 22, 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\\_17631.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17631.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17631.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17631.pdf)



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

Mn/DOT Name: 4107 G

NGS Name: 4107 G

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0148](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096231/  
 USGS Quad: VERDI

<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>
SW	17	109 N	45 W	441436.00	961742.00	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>
1976	2015	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
WALL	VERTICAL CONTROL DISK	MNDT

**Description:** (1976)

**Stamping:** 4107 G

1.5 MILES SOUTH OF LAKE BENTON, 1.5 MILES SOUTH-SOUTHWEST ON TRUNK HIGHWAY 75 FROM THE SOUTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 75 MILEPOINT 53.3 (STATION 188+75), 21.5 FEET SOUTHEAST OF AND ABOUT 1.0 FOOT LOWER THAN TRUNK HIGHWAY 75, IN THE SOUTHEAST CORNER OF A 6.0 FOOT BY 8.0 FOOT BOX CULVERT.

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	1771.935	0.016	540.087	0.005	2/1	1991	00000025
NGVD29	1771.082	0.016	539.827	0.005	2	1976	L24119

---

Geoid Separations(ft): GEOID18 = -84.829 12B = -84.859 09 = -84.783 03 = -84.701

---

\* 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\\_17632.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17632.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17632.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17632.pdf)



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

Mn/DOT Name: 4107 H

NGS Name: 4107 H

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0149](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096231/  
 USGS Quad: VERDI

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441424.00	961754.00	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>
1976	2010	GOOD	Horz=YES Vert=YES	YES			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:** (2006)                      **Stamping:** 4107 H 1976

1.6 MILES SOUTH OF LAKE BENTON, 1.7 MILES SOUTH-SOUTHWEST ON TRUNK HIGHWAY 75 FROM THE SOUTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, 23.7 FEET SOUTHEAST OF TRUNK HIGHWAY 75, 158.8 FEET NORTH OF TRUNK HIGHWAY 75 MILEPOST 53, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 75 BOX CULVERT, 103.0 FEET SOUTH OF DRIVEWAY NUMBER 1288.

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	1761.775	0.016	536.990	0.005	2/1	2013	00000797
NGVD29	1761.030	0.016	536.763	0.005	2/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.810 12B = -84.839 09 = -84.757 03 = -84.678

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_H-PR0149-3SE-11OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_H-PR0149-3SE-11OCT2006.jpg</a>	SE	Oct 11, 2006
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_H-PR0149-2-11OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_H-PR0149-2-11OCT2006.jpg</a>		Oct 11, 2006
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_H-PR0149-1-11OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_H-PR0149-1-11OCT2006.jpg</a>		Oct 11, 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\\_17633.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17633.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17633.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17633.pdf)



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

Mn/DOT Name: 4107 J

NGS Name: 4107 J

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DN8893](#) [Get Map](#)  
NGS Quad / Sta Num : 44096231/  
USGS Quad: VERDI

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	31	109 N	45 W	441242.48	961811.85	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2010	2021	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 55 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2010)                      **Stamping:** 4107 J 2010

3.5 MILES SOUTH OF LAKE BENTON, 3.7 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 EAST IN LAKE BENTON, AT TRUNK HIGHWAY 75 MILEPOINT 51.05, 166.5 FEET SOUTHEAST OF TRUNK HIGHWAY 75, 48.10 FEET NORTHEAST OF 180TH AVENUE, 16.0 FEET SOUTH OF A FIELD ENTRANCE, 10.0 FEET NORTH OF A CABLE BOX, 2.0 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	1767.126 0.016	538.621 0.005	2/1	2013 00000797

Geoid Separations(ft): GEOID18 = -84.787 12B = -84.829 09 = -84.721 03 = -84.642

Geodetic Position and Lincoln County Coordinates

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)	44 12 42.47545	96 18 11.84745	490396.114	105519.069	149473.034	32162.277	512.772		2014	GPS3047
NAD83 (1996)	44 12 42.47472	96 18 11.84791	490396.080	105518.995	149473.024	32162.254	512.858	C	2011	HTH75

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_J-DN8893-3E-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_J-DN8893-3E-04MAY2021.jpg</a>	E	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_J-DN8893-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_J-DN8893-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_J-DN8893-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_J-DN8893-1-04MAY2021.jpg</a>		May 4, 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\\_93334.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93334.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93334.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93334.pdf)



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

Mn/DOT Name: 4107 K

NGS Name: 4107 K

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2397](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441545.56	961707.04	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>
2015	2015	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:** (2015)                      **Stamping:** 4107 K 2015

IN LAKE BENTON, AT THE SOUTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 8.50, 136.3 FEET EAST-NORTHEAST OF TRUNK HIGHWAY 14/TRUNK HIGHWAY 75, 87.8 FEET NORTH OF LAKE VIEW STREET, 38.4 FEET EAST OF A POWER POLE WITH A GUY WIRE NUMBER 6520, 1.5 FEET EAST OF A WITNESS POST.

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	1779.038	0.016	542.252	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -84.947    12B = -84.967    09 = -84.898    03 = -84.813

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_K-DQ2397-3N-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_K-DQ2397-3N-08JUL2015.jpg</a>	N	Jul 8, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_K-DQ2397-2-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_K-DQ2397-2-08JUL2015.jpg</a>		Jul 8, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_K-DQ2397-1-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4107_K-DQ2397-1-08JUL2015.jpg</a>		Jul 8, 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\\_104026.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104026.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104026.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104026.pdf)



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

Mn/DOT Name: 4108 A

NGS Name: 4108 A

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0145](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441600.00	961712.00	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>
1950	2015	GOOD	Horz=NO Vert=NO	YES	8370	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

**Description:** (2006)                      **Stamping:** 4108 A 1950

IN LAKE BENTON, 0.1 MILE NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14, AT TRUNK HIGHWAY 75 MILEPOINT 55.2, 58.0 FEET EAST OF TRUNK HIGHWAY 75, 61.8 FEET EAST OF A SIGNPOST, IN THE SOUTHEAST HEADWALL OF A TRUNK HIGHWAY 75 BOX CULVERT.

**Station Notes**

IN 1996 THE DNR (DEPARTMENT OF NATURAL RESOURCES) FOUND THE STATION IN GOOD CONDITION-A GUARD RAIL HAS BEEN CONSTRUCTED OVER THE MARK SO YOU CANNOT GET A LEVEL ROD ON THE MARK.

**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	1751.998	0.016	534.010	0.005	2/1	1991	00000025
NGVD29	1751.135	0.016	533.747	0.005	2/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.957 12B = -84.974 09 = -84.901 03 = -84.819

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_A-PR0145-3E-10OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_A-PR0145-3E-10OCT2006.jpg</a>	E	Oct 10, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_A-PR0145-2-10OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_A-PR0145-2-10OCT2006.jpg</a>		Oct 10, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_A-PR0145-1-10OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_A-PR0145-1-10OCT2006.jpg</a>		Oct 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\\_17634.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17634.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17634.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17634.pdf)



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

Mn/DOT Name: 4108 B

NGS Name: 4108 B

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6787](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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	29	110 N	45 W	441758.00	961654.00	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	2010	DESTROYED	Horz=NO Vert=NO	YES	6248	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE HEADWALL	BENCH MARK DISK	MNDT

**Description:** (2006)                      **Stamping:** 4108 B 1948

IN LAKE BENTON, IN THE CENTER OF THE WEST HEADWALL OF A TRUNK HIGHWAY 75 BRIDGE, 2.4 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14, AT TRUNK HIGHWAY 75 MILEPOST 57.5, AT TRUNK HIGHWAY 75 STATION 631+06=589+38, 51.0 FEET NORTH OF COUNTY ROAD 12, 30.3 FEET WEST OF TRUNK HIGHWAY 75.

**Station Notes**

THIS MARK WAS DESIGNATED - STA 589+38- BUT STAMPED AND GIVEN A NEW NAME OF 4108 B IN 2006. THE OLD BOX CULVERT WAS REPLACED BY A NEW BOX CULVERT.

**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	1766.096	0.016	538.307	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.121    12B = -85.144    09 = -85.059    03 = -84.967

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_B-DL6787-3W-28NOV2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_B-DL6787-3W-28NOV2006.jpg</a>	W	Nov 28, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_B-DL6787-2-28NOV2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_B-DL6787-2-28NOV2006.jpg</a>		Nov 28, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_B-DL6787-1-28NOV2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_B-DL6787-1-28NOV2006.jpg</a>		Nov 28, 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\\_17722.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17722.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17722.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17722.pdf)



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

Mn/DOT Name: 4108 E

NGS Name: 4108 E

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096241/  
 USGS Quad: LAKE BENTON NE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	45 W	442620.00	961648.00		

<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	2010	NOT FOUND	Horz=NO Vert=YES	NO		FLUSH	SEE DESCRIPTION

  

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

**Description:** (1948)

**Stamping:**

2.3 MILES SOUTHWEST OF IVANHOE, 1.8 MILES SOUTHWEST ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, AT TRUNK HIGHWAY 75 STATION 383+26, 75.0 FEET EAST OF TRUNK HIGHWAY 75.

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

Geoid Separations(ft): GEOID18 = -85.548 12B = -85.554 09 = -85.449 03 = -85.341

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17635.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17635.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17635.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17635.pdf)



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

Mn/DOT Name: 4108 F

NGS Name: 4108 F

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	110 N	45 W	442033.00	961655.00		

<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>
1945	1945	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

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

**Description:** (1945)

**Stamping:**

5.6 MILES NORTH OF LAKE BENTON, 5.4 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON.

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

Geoid Separations(ft): GEOID18 = -85.298 12B = -85.331 09 = -85.236 03 = -85.128

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17636.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17636.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17636.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17636.pdf)



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

Mn/DOT Name: 4108 G

NGS Name: 4108 G

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6786](#) [Get Map](#)  
NGS Quad / Sta Num : 44096242/  
USGS Quad: LAKE BENTON

<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>
SW	33	110 N	45 W	441722.57	961653.90	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>
2006	2011	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 25 FT)	SURVEY DISK	MNDT

**Description:** (2006) **Stamping:** 4108 G 2006

2.0 MILES NORTH OF LAKE BENTON, 1.7 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 WEST IN LAKE BENTON, AT TRUNK HIGHWAY 75 MILEPOST 56.85, 132.0 FEET SOUTHEAST OF TRUNK HIGHWAY 75, 29.6 FEET EAST OF 190TH AVENUE, 18.8 FEET SOUTH OF A FIELD ENTRANCE, 1.0 FOOT NORTH OF A WITNESS POST.

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	1834.327	0.016	559.104	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.075 12B = -85.092 09 = -85.016 03 = -84.931

Geodetic Position and Lincoln County Coordinates

<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)	44 17 22.57361	96 16 53.89517	496079.418	133883.943	151205.309	40807.908	533.171			2014	GPS3047	
NAD83 (1996)	44 17 22.57295	96 16 53.89557	496079.389	133883.877	151205.300	40807.887	533.216	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_G-DL6786-3E-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_G-DL6786-3E-22JUN2015.jpg</a>	E	Jun 22, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_G-DL6786-2-25OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_G-DL6786-2-25OCT2006.jpg</a>		Oct 25, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_G-DL6786-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_G-DL6786-1-22JUN2015.jpg</a>		Jun 22, 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\\_63733.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63733.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63733.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63733.pdf)



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

Mn/DOT Name: 4108 H

NGS Name: 4108 H

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6788](#) [Get Map](#)  
NGS Quad / Sta Num : 44096242/  
USGS Quad: LAKE BENTON

				<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>
SW	21	110 N	45 W	441850.80	961652.63	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>
2006	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 20 FT)	SURVEY DISK	MNDT

**Description:** (2006) **Stamping:** 4108 H 2006

3.5 MILES NORTH OF LAKE BENTON, 3.4 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 WEST IN LAKE BENTON, AT TRUNK HIGHWAY 75 MILEPOINT 58.5, 73.1 FEET EAST OF TRUNK HIGHWAY 75, 49.8 FEET NORTH OF 180TH STREET, 1.0 FOOT WEST OF A WITNESS POST.

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	1782.037	0.016	543.166	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.190 12B = -85.213 09 = -85.125 03 = -85.023

Geodetic Position and Lincoln County Coordinates

<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)	44 18 50.80208	96 16 52.62547	496173.378	142819.233	151233.948	43531.389	517.199			2014	GPS3047	
NAD83 (1996)	44 18 50.80143	96 16 52.62582	496173.353	142819.167	151233.940	43531.369	517.238	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_H-DL6788-3E-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_H-DL6788-3E-04MAY2021.jpg</a>	E	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_H-DL6788-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_H-DL6788-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_H-DL6788-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_H-DL6788-1-04MAY2021.jpg</a>		May 4, 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\\_63734.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63734.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63734.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63734.pdf)



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

Mn/DOT Name: 4108 J

NGS Name: 4108 J

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6789](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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	21	110 N	45 W	441941.49	961653.61	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>
2006	2011	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	MNDT

**Description:** (2006) **Stamping:** 4108 J 2006

4.5 MILES NORTH OF LAKE BENTON, 4.4 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, AT TRUNK HIGHWAY 75 MILEPOST 59.5, 95.5 FEET NORTH OF COUNTY ROAD 13, 76.9 FEET EAST OF TRUNK HIGHWAY 75, 38.0 FEET SOUTHWEST OF A POWER POLE, 26.0 FEET NORTHEAST OF A POWER POLE, 1.0 FOOT WEST OF A WITNESS POST.

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	1787.710	0.016	544.895	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.243 12B = -85.275 09 = -85.184 03 = -85.075

Geodetic Position and Lincoln County Coordinates

<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)	44 19 41.48623	96 16 53.61459	496102.389	147952.279	151212.311	45095.945	518.905			2014	GPS3047	
NAD83 (1996)	44 19 41.48560	96 16 53.61498	496102.361	147952.215	151212.302	45095.925	518.943	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_J-DL6789-3E-24OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_J-DL6789-3E-24OCT2006.jpg</a>	E	Oct 24, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_J-DL6789-2-24OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_J-DL6789-2-24OCT2006.jpg</a>		Oct 24, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_J-DL6789-1-24OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_J-DL6789-1-24OCT2006.jpg</a>		Oct 24, 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\\_63735.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63735.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63735.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63735.pdf)



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

Mn/DOT Name: 4108 K

NGS Name: 4108 K

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6790](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	110 N	45 W	442036.30	961656.25	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>
2006	2019	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:** (2006) **Stamping:** 4108 K 2006

5.5 MILES NORTH OF LAKE BENTON, 5.4 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, AT TRUNK HIGHWAY 75 MILEPOST 60.5, 93.0 FEET WEST OF TRUNK HIGHWAY 75, 64.9 FEET NORTH OF 200TH STREET, 36.9 FEET SOUTHWEST OF CABLE BOX ONU7C4, 1.0 FOOT EAST OF A WITNESS POST.

**Station Notes**

FOUND CAP LOOSE. USE WITH CAUTION.

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	1777.818	0.016	541.880	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.298 12B = -85.331 09 = -85.236 03 = -85.128

Geodetic Position and Lincoln County Coordinates

<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)	44 20 36.30216	96 16 56.24832	495911.986	153503.804	151154.276	46788.053	515.878			2014	GPS3047	
NAD83 (1996)	44 20 36.30160	96 16 56.24868	495911.960	153503.747	151154.268	46788.036	515.914	C		2011	HTH75	

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_K-DL6790-3W-24OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_K-DL6790-3W-24OCT2006.jpg</a>	W	Oct 24, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_K-DL6790-2-24OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_K-DL6790-2-24OCT2006.jpg</a>		Oct 24, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_K-DL6790-1-24OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_K-DL6790-1-24OCT2006.jpg</a>		Oct 24, 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\\_63736.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63736.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63736.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63736.pdf)



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

Mn/DOT Name: 4108 L

NGS Name: 4108 L

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6791](#) [Get Map](#)  
NGS Quad / Sta Num : 44096242/  
USGS Quad: LAKE BENTON

<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	5	110 N	45 W	442128.25	961656.01	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>
2006	2019	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 20 FT)	SURVEY DISK	MNDT

**Description:** (2006) **Stamping:** 4180 L 2006

6.5 MILES NORTH OF LAKE BENTON, 6.4 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, AT TRUNK HIGHWAY 75 MILEPOST 61.5, 118.5 FEET WEST OF TRUNK HIGHWAY 75, 87.0 FEET NORTH OF COUNTY ROAD 122, 67.0 FEET NORTHWEST OF A POWER POLE, 3.5 FEET SOUTHEAST OF A RIGHT-OF-WAY POST, 1.0 FOOT EAST OF A WITNESS POST.

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	1782.608	0.016	543.340	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.354 12B = -85.384 09 = -85.289 03 = -85.180

Geodetic Position and Lincoln County Coordinates

<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)	44 21 28.25060	96 16 56.00799	495930.453	158764.896	151159.904	48391.637	517.317			2014	GPS3047	
NAD83 (1996)	44 21 28.25003	96 16 56.00836	495930.426	158764.838	151159.896	48391.619	517.355	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_L-DL6791-3W-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_L-DL6791-3W-23OCT2019.jpg</a>	W	Oct 23, 2019
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_L-DL6791-2-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_L-DL6791-2-23OCT2019.jpg</a>		Oct 23, 2019
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_L-DL6791-1-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_L-DL6791-1-23OCT2019.jpg</a>		Oct 23, 2019

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_63737.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63737.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63737.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63737.pdf)



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

Mn/DOT Name: 4108 M

NGS Name: 4108 M

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6793](#) [Get Map](#)  
NGS Quad / Sta Num : 44096241/  
USGS Quad: LAKE BENTON NE

				<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>
NE	32	111 N	45 W	442310.83	961657.18	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>
2006	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 20 FT)	SURVEY DISK	MNDT

**Description:** (2006)                      **Stamping:** 4108 M 2006

5.6 MILES SOUTH-SOUTHWEST OF IVANHOE, 5.4 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, AT TRUNK HIGHWAY 75 MILEPOST 63.5, 94.0 FEET WEST OF TRUNK HIGHWAY 75, 65.3 FEET SOUTH OF COUNTY ROAD 15, 24.8 FEET NORTH OF A WITNESS POST.

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	1758.720	0.016	536.059	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.449 12B = -85.469 09 = -85.374 03 = -85.262

Geodetic Position and Lincoln County Coordinates

<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)	44 23 10.83254	96 16 57.17475	495847.693	169153.965	151134.679	51558.232	510.012	C	2014	GPS3047		
NAD83 (1996)	44 23 10.83205	96 16 57.17499	495847.675	169153.915	151134.674	51558.216	510.060	C	2011	HTH75		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_M-DL6793-3W-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_M-DL6793-3W-04MAY2021.jpg</a>	W	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_M-DL6793-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_M-DL6793-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_M-DL6793-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_M-DL6793-1-04MAY2021.jpg</a>		May 4, 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\\_63738.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63738.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63738.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63738.pdf)



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

Mn/DOT Name: 4108 N

NGS Name: 4108 N

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6794](#) [Get Map](#)  
NGS Quad / Sta Num : 44096241/  
USGS Quad: LAKE BENTON NE

<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	20	111 N	45 W	442404.31	961656.74	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>
2006	2011	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 18 FT)	SURVEY DISK	MNDT

**Description:** (2006) **Stamping:** 4108 N 2006

4.6 MILES SOUTH-SOUTHWEST OF IVANHOE, 4.4 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, AT TRUNK HIGHWAY 75 MILEPOST 64.3, 75.8 FEET WEST OF TRUNK HIGHWAY 75, 74.2 FEET NORTH OF 240TH STREET, 44.2 FEET NORTH OF CABLE BOX 4M7, 17.1 FEET SOUTH OF A POWER POLE, 1.0 FOOT EAST OF A WITNESS POST.

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	1757.661	0.016	535.736	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.492 12B = -85.505 09 = -85.403 03 = -85.298

Geodetic Position and Lincoln County Coordinates

<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)	44 24 04.30884	96 16 56.73981	495880.324	174569.824	151144.625	53208.989	509.678	2014	C	GPS3047		
NAD83 (1996)	44 24 04.30823	96 16 56.74007	495880.304	174569.762	151144.619	53208.970	509.725	2011	C	HTH75		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_N-DL6794-3W-24OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_N-DL6794-3W-24OCT2006.jpg</a>	W	Oct 24, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_N-DL6794-2-24OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_N-DL6794-2-24OCT2006.jpg</a>		Oct 24, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_N-DL6794-1-24OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_N-DL6794-1-24OCT2006.jpg</a>		Oct 24, 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\\_63739.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63739.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63739.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63739.pdf)



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

Mn/DOT Name: 4108 P

NGS Name: 4108 P

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5914](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096241/  
 USGS Quad: LAKE BENTON NE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	9	111 N	45 W	442551.96	961654.33	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2006	2019	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

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

Description: (2012)                      **Stamping:** 4108 P 2006

2.8 MILES SOUTHWEST OF IVANHOE, 2.4 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, AT TRUNK HIGHWAY 75 MILEPOST 66.55, 110.6 FEET NORTH OF AN ENTRANCE TO A SUBSTATION, 74.3 FEET EAST OF TRUNK HIGHWAY 75, 3.5 FEET SOUTHWEST OF A FENCE CORNER, 1.0 FOOT 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	1733. 707 0. 016	528. 435 0. 005	2/1	2011 00000425-40

Geoid Separations(ft): GEOID18 = -85.535 12B = -85.541 09 = -85.436 03 = -85.328

Geodetic Position and Lincoln County Coordinates

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)	44 25 51. 95615	96 16 54. 32686	496057. 530	185471. 918	151198. 638	56531. 954	502. 364			2012	GPS2800	
NAD83 (2007)	44 25 51. 95601	96 16 54. 32762	496057. 475	185471. 904	151198. 621	56531. 950	502. 376	C		2009	GPS2587	
NAD83 (1996)	44 25 51. 95551	96 16 54. 32718	496057. 507	185471. 853	151198. 631	56531. 934	502. 421	C		2011	HTH75	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_P-DL5914-3E-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_P-DL5914-3E-23OCT2019.jpg</a>	E	Oct 23, 2019
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_P-DL5914-2-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_P-DL5914-2-23OCT2019.jpg</a>		Oct 23, 2019
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_P-DL5914-1-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_P-DL5914-1-23OCT2019.jpg</a>		Oct 23, 2019

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_63740.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63740.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63740.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63740.pdf)



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

Mn/DOT Name: 4108 Q

NGS Name: 4108 Q

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5915](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096241/  
 USGS Quad: LAKE BENTON NE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	45 W	442650.57	961608.72	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>
2006	2011	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 15 FT)	SURVEY DISK	MNDT

**Description:** (2006)                      **Stamping:** 4108 Q 2006

1.5 MILES SOUTHWEST OF IVANHOE, 1.0 MILE SOUTH AND SOUTHWEST ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, AT TRUNK HIGHWAY 75 MILEPOST 68.0, 72.0 FEET SOUTHEAST OF TRUNK HIGHWAY 75, 26.6 FEET NORTHEAST OF A POWER POLE WITH TWO GUY WIRES, 1.0 FOOT NORTHWEST OF A WITNESS POST.

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	1689.298	0.016	514.899	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.626    12B = -85.633    09 = -85.528    03 = -85.413

Geodetic Position and Lincoln County Coordinates

<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)	44 26 50.57300	96 16 08.71647	499367.626	191408.089	152207.557	58341.302	488.804			2012	GPS2800	
NAD83 (2007)	44 26 50.57286	96 16 08.71724	499367.570	191408.074	152207.540	58341.298	488.819	C		2009	GPS2587	
NAD83 (1996)	44 26 50.57237	96 16 08.71682	499367.601	191408.025	152207.549	58341.283	488.863	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_Q-DL5915-3SE-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_Q-DL5915-3SE-28APR2009.jpg</a>	SE	Apr 28, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_Q-DL5915-2-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_Q-DL5915-2-28APR2009.jpg</a>		Apr 28, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_Q-DL5915-1-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_Q-DL5915-1-28APR2009.jpg</a>		Apr 28, 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\\_63741.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63741.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63741.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63741.pdf)



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

Mn/DOT Name: 4108 R

NGS Name: 4108 R

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6785](#) [Get Map](#)  
NGS Quad / Sta Num : 44096242/  
USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441639.22	961710.47	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>
2006	2021	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 20 FT)	SURVEY DISK	MNDT

**Description:** (2006) **Stamping:** 4108 R 2006

1.0 MILE NORTH OF LAKE BENTON, 0.9 MILE NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, AT TRUNK HIGHWAY 75 MILEPOST 55.9, 74.0 FEET EAST OF TRUNK HIGHWAY 75, 39.4 FEET SOUTHWEST OF A POWER POLE, 10.8 FEET SOUTH OF A FIELD ENTRANCE, 2.0 FEET WEST OF A FENCE CORNER, 1.0 FOOT WEST OF A WITNESS POST.

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	1861.158	0.016	567.282	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -84.997 12B = -85.013 09 = -84.944 03 = -84.862

Geodetic Position and Lincoln County Coordinates

<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)	44 16 39.22134	96 17 10.47021	494872.623	129493.723	150837.477	39469.766	541.374			2014	GPS3047	
NAD83 (1996)	44 16 39.22058	96 17 10.47054	494872.599	129493.646	150837.470	39469.742	541.423	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_R-DL6785-3E-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_R-DL6785-3E-04MAY2021.jpg</a>	E	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_R-DL6785-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_R-DL6785-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_R-DL6785-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4108_R-DL6785-1-04MAY2021.jpg</a>		May 4, 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\\_63742.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63742.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63742.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63742.pdf)



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

Mn/DOT Name: 4109 A

NGS Name: 4109 A

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6803](#) [Get Map](#)  
NGS Quad / Sta Num : 44096132/  
USGS Quad: CANBY SE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	9	113 N	45 W	443656.23	961635.53	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2006	2019	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

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

Description: (2012)                      **Stamping:** 4109 A 2006

11.0 MILES NORTH OF IVANHOE, 11.0 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, AT TRUNK HIGHWAY 75 MILEPOST 79.9, 70.4 FEET WEST OF TRUNK HIGHWAY 75, 64.1 FEET SOUTH OF COUNTY ROAD 20, 14.1 FEET NORTH OF CABLE PEDESTAL NUMBER 9R3, 1.4 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1529.167	0.016	466.091	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -84.901 12B = -84.918 09 = -84.823 03 = -84.737

Geodetic Position and Lincoln County Coordinates

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)	44 36 56.23099	96 16 35.53372	497429.454	252748.388	151616.801	77037.863	440.213	2014	C	2014	GPS3047	
NAD83 (1996)	44 36 56.23034	96 16 35.53426	497429.415	252748.322	151616.789	77037.843	440.275	2011	C	2011	HTH75	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_A-DL6803-3W-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_A-DL6803-3W-23OCT2019.jpg</a>	W	Oct 23, 2019
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_A-DL6803-2-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_A-DL6803-2-23OCT2019.jpg</a>		Oct 23, 2019
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_A-DL6803-1-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_A-DL6803-1-23OCT2019.jpg</a>		Oct 23, 2019

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_63743.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63743.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63743.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63743.pdf)



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

Mn/DOT Name: 4109 B

NGS Name: 4109 B

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6802](#) [Get Map](#)  
NGS Quad / Sta Num : 44096132/  
USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	45 W	443604.66	961638.97	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>
2006	2011	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 15 FT)	SURVEY DISK	MNDT

**Description:** (2006) **Stamping:** 4109 B 2006

10.0 MILES NORTH OF IVANHOE, 10.0 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, THEN 0.1 MILE WEST ON 380TH STREET, 41.8 FEET NORTH OF 380TH STREET, 1.6 FEET SOUTH OF A WITNESS POST.

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	1542.694	0.016	470.214	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -84.905 12B = -84.921 09 = -84.833 03 = -84.737

Geodetic Position and Lincoln County Coordinates

<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)	44 36 04.65577	96 16 38.97224	497180.017	247524.873	151540.772	75445.732	444.334	2014	C	2014	GPS3047	
NAD83 (1996)	44 36 04.65516	96 16 38.97279	497179.977	247524.811	151540.760	75445.713	444.394	2011	C	2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_B-DL6802-3N-18OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_B-DL6802-3N-18OCT2006.jpg</a>	N	Oct 18, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_B-DL6802-2-18OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_B-DL6802-2-18OCT2006.jpg</a>		Oct 18, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_B-DL6802-1-18OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_B-DL6802-1-18OCT2006.jpg</a>		Oct 18, 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\\_63744.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63744.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63744.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63744.pdf)



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

Mn/DOT Name: 4109 C

NGS Name: 4109 C

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6800](#) [Get Map](#)  
NGS Quad / Sta Num : 44096132/  
USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	45 W	443511.32	961634.00	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>
2006	2021	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 20 FT)	SURVEY DISK	MNDT

**Description:** (2006)                      **Stamping:** 4109 C 2006

9.0 MILES NORTH OF IVANHOE, 9.0 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, AT TRUNK HIGHWAY 75 MILEPOST 77.9, 75.2 FEET EAST OF TRUNK HIGHWAY 75, 56.9 FEET SOUTH OF COUNTY ROAD 19, 1.8 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	1586.234	0.016	483.485	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -84.954 12B = -84.964 09 = -84.882 03 = -84.793

Geodetic Position and Lincoln County Coordinates

<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)	44 35 11.31493	96 16 33.99395		497539.616	242122.477	151650.378	73799.079	457.590		2014	GPS3047
NAD83 (1996)	44 35 11.31439	96 16 33.99446		497539.579	242122.423	151650.367	73799.062	457.650	C	2011	HTH75

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_C-DL6800-3E-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_C-DL6800-3E-03MAY2021.jpg</a>	E	May 3, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_C-DL6800-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_C-DL6800-2-03MAY2021.jpg</a>		May 3, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_C-DL6800-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_C-DL6800-1-03MAY2021.jpg</a>		May 3, 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\\_63745.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63745.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63745.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63745.pdf)



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

Mn/DOT Name: 4109 D

NGS Name: 4109 D

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6799](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/  
 USGS Quad: CANBY SE

		<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>
NW	27	113 N	45 W	443420.08	961631.50	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>
2006	2011	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 20 FT)	SURVEY DISK	MNDT

**Description:** (2006) **Stamping:** 4109 D 2006

8.0 MILES NORTH OF IVANHOE, 8.0 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, AT TRUNK HIGHWAY 75 MILEPOST 76.0, 71.4 FEET EAST OF TRUNK HIGHWAY 75, 52.8 FEET NORTH OF 360TH STREET, 18.7 FEET NORTH OF A POWER POLE, 1.5 FEET WEST OF A WITNESS POST.

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	1602.434	0.016	488.423	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.026 12B = -85.023 09 = -84.941 03 = -84.865

Geodetic Position and Lincoln County Coordinates

<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)	44 34 20.07603	96 16 31.49520	497719.914	236933.007	151705.333	72217.325	462.503			2014	GPS3047	
NAD83 (1996)	44 34 20.07545	96 16 31.49571	497719.877	236932.948	151705.322	72217.307	462.562	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_D-DL6799-3E-30OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_D-DL6799-3E-30OCT2006.jpg</a>	E	Oct 30, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_D-DL6799-2-30OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_D-DL6799-2-30OCT2006.jpg</a>		Oct 30, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_D-DL6799-1-30OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_D-DL6799-1-30OCT2006.jpg</a>		Oct 30, 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\\_63746.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63746.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63746.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63746.pdf)



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

Mn/DOT Name: 4109 E

NGS Name: 4109 E

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6798](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	45 W	443327.80	961631.23	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>
2006	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 24 FT)	SURVEY DISK	MNDT

**Description:** (2006)                      **Stamping:** 4109 E 2006

7.0 MILES NORTH OF IVANHOE, 6.9 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 WEST OF IVANHOE, AT TRUNK HIGHWAY 75 MILEPOST 75.9, 137.4 FEET EAST OF TRUNK HIGHWAY 75, 56.9 FEET NORTH OF COUNTY ROAD 18, 1.8 FEET SOUTH OF A WITNESS POST.

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	1646.680	0.016	501.909	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.108 12B = -85.095 09 = -85.016 03 = -84.944

Geodetic Position and Lincoln County Coordinates

<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>Hgt (m)</u>	<u>Year</u>	<u>Reference</u>					
NAD83 (2011)	44 33 27.80191	96 16 31.22633	497738.817	231638.724	151711.095	70603.624	475.964	2014	GPS3047					
NAD83 (1996)	44 33 27.80131	96 16 31.22683	497738.781	231638.663	151711.084	70603.606	476.022	C	2011 HTH75					

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_E-DL6798-3N-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_E-DL6798-3N-03MAY2021.jpg</a>	N	May 3, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_E-DL6798-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_E-DL6798-2-03MAY2021.jpg</a>		May 3, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_E-DL6798-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_E-DL6798-1-03MAY2021.jpg</a>		May 3, 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\\_63773.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63773.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63773.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63773.pdf)



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

Mn/DOT Name: 4109 F

NGS Name: 4109 F

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6797](#) [Get Map](#)  
NGS Quad / Sta Num : 44096132/  
USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	45 W	443236.75	961628.62	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>
2006	2011	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	MNDT

**Description:** (2006) **Stamping:** 4109 F 2006

6.0 MILES NORTH OF IVANHOE, 6.0 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, AT TRUNK HIGHWAY 75 MILEPOST 74.9, 128.8 FEET SOUTHWEST OF TRUNK HIGHWAY 75, 57.2 FEET WEST OF A POWER POLE, 35.1 FEET NORTH OF 340TH STREET, 1.7 FEET SOUTH OF A WITNESS POST.

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	1662.096	0.016	506.608	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.203 12B = -85.187 09 = -85.102 03 = -85.029

Geodetic Position and Lincoln County Coordinates

<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)	44 32 36.75138	96 16 28.62332	497926.806	226468.364	151768.394	69027.695	480.634	2014	C	GPS3047		
NAD83 (1996)	44 32 36.75080	96 16 28.62376	497926.774	226468.305	151768.384	69027.677	480.693	2011	C	HTH75		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_F-DL6797-3N-18OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_F-DL6797-3N-18OCT2006.jpg</a>	N	Oct 18, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_F-DL6797-2-18OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_F-DL6797-2-18OCT2006.jpg</a>		Oct 18, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_F-DL6797-1-18OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_F-DL6797-1-18OCT2006.jpg</a>		Oct 18, 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\\_63777.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63777.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63777.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63777.pdf)



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

Mn/DOT Name: 4109 G

NGS Name: 4109 G

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6796](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/  
 USGS Quad: CANBY SE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	9	112 N	45 W	443157.43	961615.44	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2006	2021	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

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

Description: (2006)                      **Stamping:** 4109 G 2006

5.0 MILES NORTH OF IVANHOE, 5.2 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, AT TRUNK HIGHWAY 75 MILEPOST 74.15, 154.2 FEET EAST OF TRUNK HIGHWAY 75, 43.3 FEET EAST-SOUTHEAST OF A POWER POLE, 41.6 FEET SOUTH OF 330TH STREET, 21.6 FEET EAST OF A FIELD ENTRANCE, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1601.165	0.016	488.036	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.305    12B = -85.292    09 = -85.197    03 = -85.118

Geodetic Position and Lincoln County Coordinates

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)	44 31 57.43406	96 16 15.44118	498881.382	222486.288	152059.350	67813.956	462.033	2014	C	GPS3047	HTH75	
NAD83 (1996)	44 31 57.43343	96 16 15.44164	498881.349	222486.224	152059.339	67813.937	462.097	2011	C	HTH75		

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_G-DL6796-3S-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_G-DL6796-3S-03MAY2021.jpg</a>	S	May 3, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_G-DL6796-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_G-DL6796-2-03MAY2021.jpg</a>		May 3, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_G-DL6796-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_G-DL6796-1-03MAY2021.jpg</a>		May 3, 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\\_63782.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63782.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63782.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63782.pdf)



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

Mn/DOT Name: 4109 H

NGS Name: 4109 H

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6795](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	112 N	45 W	443105.04	961611.90	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>
2006	2011	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 20 FT)	SURVEY DISK	MNDT

**Description:** (2006) **Stamping:** 4109 H 2006

4.0 MILES NORTH OF IVANHOE, 4.2 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, AT TRUNK HIGHWAY 75 MILEPOST 73.15, 128.0 FEET NORTHEAST OF TRUNK HIGHWAY 75, 49.2 FEET SOUTH OF 320TH STREET, 18.4 FEET EAST OF A POWER POLE, 1.7 FEET WEST OF A WITNESS POST.

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	1685.863	0.016	513.852	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.397 12B = -85.384 09 = -85.282 03 = -85.197

Geodetic Position and Lincoln County Coordinates

<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)	44 31 05.03830	96 16 11.89826	499137.831	217179.719	152137.515	66196.511	487.826			2014	GPS3047	
NAD83 (1996)	44 31 05.03773	96 16 11.89878	499137.793	217179.661	152137.504	66196.493	487.885	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_H-DL6795-3S-19OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_H-DL6795-3S-19OCT2006.jpg</a>	S	Oct 19, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_H-DL6795-2-19OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_H-DL6795-2-19OCT2006.jpg</a>		Oct 19, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_H-DL6795-1-19OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_H-DL6795-1-19OCT2006.jpg</a>		Oct 19, 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\\_63786.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63786.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63786.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63786.pdf)



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

Mn/DOT Name: 4109 J

NGS Name: 4109 J

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5916](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096241/  
 USGS Quad: LAKE BENTON NE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	112 N	45 W	442920.60	961539.69	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>
2006	2021	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 15 FT)	SURVEY DISK	MNDT

**Description:** (2012)                      **Stamping:** 4109 J 2006

2.0 MILES NORTH OF IVANHOE, 2.0 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, AT TRUNK HIGHWAY 75 MILEPOST 70.95, 76.5 FEET EAST OF TRUNK HIGHWAY 75, 2.1 FEET WEST OF A RIGHT-OF-WAY POST, 2.1 FEET WEST OF A WITNESS POST. IN THE CENTER OF AN ENTRANCE.

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	1653.186	0.016	503.892	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.607 12B = -85.607 09 = -85.489 03 = -85.387

Geodetic Position and Lincoln County Coordinates

<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)	44 29 20.59777	96 15 39.68705	501472.642	206602.230	152849.167	62972.486	477.812	C	2014	GPS3047		
NAD83 (2007)	44 29 20.59761	96 15 39.68783	501472.586	206602.214	152849.150	62972.481	477.836	C	2009	GPS2587		
NAD83 (1996)	44 29 20.59713	96 15 39.68742	501472.615	206602.165	152849.159	62972.466	477.875	C	2011	HTH75		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_J-DL5916-3E-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_J-DL5916-3E-03MAY2021.jpg</a>	E	May 3, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_J-DL5916-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_J-DL5916-2-03MAY2021.jpg</a>		May 3, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_J-DL5916-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_J-DL5916-1-03MAY2021.jpg</a>		May 3, 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\\_63791.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63791.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63791.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63791.pdf)



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

Mn/DOT Name: 4109 K

NGS Name: 4109 K

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5917](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096241/  
 USGS Quad: LAKE BENTON NE

<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>
SW	27	112 N	45 W	442828.27	961540.86	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>
2006	2021	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 25 FT)	SURVEY DISK	MNDT

**Description:** (2006)                      **Stamping:** 4109 K 2006

1.0 MILE NORTHWEST OF IVANHOE, 1.0 MILE NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, AT TRUNK HIGHWAY 75 MILEPOST 69.95, 77.0 FEET EAST OF TRUNK HIGHWAY 75, 28.4 FEET SOUTH OF CABLE BOX 561, 23.7 FEET SOUTH OF A POWER POLE WITH GUY WIRES, 12.0 FEET NORTH OF A FIELD ENTRANCE.

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	1664.642	0.016	507.384	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.646    12B = -85.649    09 = -85.531    03 = -85.430

Geodetic Position and Lincoln County Coordinates

<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)	44 28 28.26690	96 15 40.86483	501387.600	201302.283	152823.246	61357.059	481.291		2012	GPS2800				
NAD83 (2007)	44 28 28.26674	96 15 40.86561	501387.543	201302.267	152823.229	61357.054	481.314	C	2009	GPS2587				
NAD83 (1996)	44 28 28.26626	96 15 40.86521	501387.573	201302.218	152823.238	61357.039	481.353	C	2009	HIVAN				

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_K-DL5917-3E-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_K-DL5917-3E-03MAY2021.jpg</a>	E	May 3, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_K-DL5917-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_K-DL5917-2-03MAY2021.jpg</a>		May 3, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_K-DL5917-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_K-DL5917-1-03MAY2021.jpg</a>		May 3, 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\\_63794.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63794.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63794.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63794.pdf)



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

Mn/DOT Name: 4109-06 F

NGS Name: 4109 06 F

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL6801](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	45 W	443539.00	961634.00	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>
1947	2010	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	BENCH MARK DISK	MNDT

**Description:** (2006)                      **Stamping:** 4109 06 F 1947

7.9 MILES SOUTH OF CANBY, 7.9 MILES SOUTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 68 IN CANBY, 48.0 FEET EAST OF TRUNK HIGHWAY 75, IN THE CENTER OF A TRUNK HIGHWAY 75 BOX CULVERT HEADWALL BRIDGE NUMBER 91172.

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	1542.149	0.016	470.048	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -84.928    12B = -84.944    09 = -84.859    03 = -84.764

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_06_F-DL6801-3E-14OCT2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_06_F-DL6801-3E-14OCT2011.jpg</a>	E	Oct 14, 2011
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_06_F-DL6801-2-14OCT2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_06_F-DL6801-2-14OCT2011.jpg</a>		Oct 14, 2011
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_06_F-DL6801-1-14OCT2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4109_06_F-DL6801-1-14OCT2011.jpg</a>		Oct 14, 2011

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17637.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17637.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17637.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17637.pdf)



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

Mn/DOT Name: 4110 A

NGS Name: 4110 A

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096244/  
 USGS Quad: LAKE BENTON 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	32	112 N	46 W	442732.00	962527.00		

<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>
1959	2016	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	MNDT

**Description:** (1973)

**Stamping:**

3.5 MILES SOUTH OF HENDRICKS, 3.0 MILES SOUTH ON TRUNK HIGHWAY 271 FROM THE JUNCTION OF TRUNK HIGHWAY 271 AND 312TH STREET IN HENDRICKS, AT TRUNK HIGHWAY 19 STATION 99+78, AT THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 271, 60.0 FEET EAST OF TRUNK HIGHWAY 271, TRUNK HIGHWAY 271 STATION 100+40.

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

Geoid Separations(ft): GEOID18 = -84.285 12B = -84.268 09 = -84.180 03 = -84.124

\* 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\\_17638.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17638.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17638.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17638.pdf)



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

Mn/DOT Name: 4110 B

NGS Name: 4110 B

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096244/  
 USGS Quad: LAKE BENTON 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	30	112 N	46 W	442852.00	962529.00		

<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>
1959	2016	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	MNDT

**Description:** (1973)

**Stamping:**

1.9 MILES SOUTH OF HENDRICKS, 1.9 MILES SOUTH ON TRUNK HIGHWAY 271 FROM THE JUNCTION OF TRUNK HIGHWAY 271 AND 312TH STREET IN HENDRICKS, AT TRUNK HIGHWAY 271 STATION 174+74, 151.0 FEET WEST OF TRUNK HIGHWAY 271.

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

Geoid Separations(ft): GEOID18 = -84.160 12B = -84.150 09 = -84.052 03 = -84.002

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17639.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17639.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17639.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17639.pdf)



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

Mn/DOT Name: 4110 D

NGS Name: 4110 D

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096133/  
 USGS Quad: HENDRICKS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	112 N	46 W	443220.00	962531.00		

<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>
1959	2016	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	MNDT

**Description:** (1973)

**Stamping:**

2.1 MILES NORTH OF HENDRICKS, 2.2 MILES NORTH ON TRUNK HIGHWAY 271 FROM THE JUNCTION OF TRUNK HIGHWAY 271 AND COUNTY ROAD 17 IN HENDRICKS, AT TRUNK HIGHWAY 271 STATION 393+00, 75.0 FEET EAST OF TRUNK HIGHWAY 271, AT THE JUNCTION OF TRUNK HIGHWAY 271 AND COUNTY ROAD 1.

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

Geoid Separations(ft): GEOID18 = -83.806 12B = -83.822 09 = -83.701 03 = -83.684

\* 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\\_17640.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17640.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17640.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17640.pdf)



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

Mn/DOT Name: 4110 E

NGS Name: 4110 E

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ3886](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096133/  
 USGS Quad: HENDRICKS

<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>
NE	30	113 N	46 W	443419.95	962659.23	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>
1959	2016	GOOD	Horz=NO Vert=NO	YES		RECESSED 8 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:** (2016)                      **Stamping:** SP 4110 E 1959

5.0 MILES NORTHWEST OF HENDRICKS, 5.3 MILES NORTH ALONG TRUNK HIGHWAY 271 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 271 AND COUNTY ROAD 17 IN HENDRICKS, AT TRUNK HIGHWAY 271 MILEPOINT 8.5, 159.0 FEET SOUTH OF TRUNK HIGHWAY 271, 1.0 FOOT NORTH OF A WITNESS POST.

**Station Notes**  
ON PRIVATE PROPERTY

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	1796.223	0.016	547.490	0.005	2/1	2020	00000949

Geoid Separations(ft): GEOID18 = -83.550 12B = -83.563 09 = -83.445 03 = -83.441

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_E-DQ3886-3S-23MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_E-DQ3886-3S-23MAR2016.jpg</a>	S	Mar 23, 2016
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_E-DQ3886-2-23MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_E-DQ3886-2-23MAR2016.jpg</a>		Mar 23, 2016
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_E-DQ3886-1-23MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_E-DQ3886-1-23MAR2016.jpg</a>		Mar 23, 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\\_17641.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17641.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17641.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17641.pdf)



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

Mn/DOT Name: 4110 F

NGS Name: 4110 F

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ3876](#) [Get Map](#)  
NGS Quad / Sta Num : 44096244/  
USGS Quad: LAKE BENTON 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	29	112 N	46 W	442847.17	962527.48	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>
2016	2019	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 13 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2016) **Stamping:** 4110 F 2016

2.0 MILES SOUTH OF HENDRICKS, 1.75 MILES SOUTH ALONG TRUNK HIGHWAY 271 FROM THE JUNCTION OF TRUNK HIGHWAY 271 AND COUNTY ROAD 17 EAST IN HENDRICKS, AT TRUNK HIGHWAY 271 MILEPOINT 1.45, 70.3 FEET EAST OF TRUNK HIGHWAY 271, 46.7 FEET SOUTH OF DRIVEWAY NUMBER 2944, 24.0 FEET SOUTH OF A POWER POLE WITH 2 GUY WIRES, 1.5 FEET WEST OF A WITNESS POST.

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	1764.829	0.016	537.921	0.005	2/1	2020	00000949

Geoid Separations(ft): GEOID18 = -84.170 12B = -84.163 09 = -84.062 03 = -84.012

Geodetic Position and Lincoln County Coordinates

<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)	44 28 47.17337	96 25 27.47856	458852.611	203256.675	139858.556	61952.759	512.273	C	2020	GPS3343		
NAD83 (1996)	44 28 47.17264	96 25 27.47889	458852.587	203256.601	139858.548	61952.736	512.339	C	2020	HTH271		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_F-DQ3876-3E-28MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_F-DQ3876-3E-28MAR2016.jpg</a>	E	Mar 28, 2016
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_F-DQ3876-2-28MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_F-DQ3876-2-28MAR2016.jpg</a>		Mar 28, 2016
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_F-DQ3876-1-28MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_F-DQ3876-1-28MAR2016.jpg</a>		Mar 28, 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\\_104929.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104929.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104929.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104929.pdf)



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

Mn/DOT Name: 4110 G

NGS Name: 4110 G

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ3877](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096244/  
 USGS Quad: LAKE BENTON NW

<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	19	112 N	46 W	442934.17	962528.79	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>
2016	2019	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:** (2016)                      **Stamping:** 4110 G 2016

1.0 MILE SOUTH OF HENDRICKS, 0.8 MILE SOUTH ALONG TRUNK HIGHWAY 271 FROM THE JUNCTION OF TRUNK HIGHWAY 271 AND COUNTY ROAD 17 EAST IN HENDRICKS, AT TRUNK HIGHWAY 271 MILEPOINT 2.35, 72.3 FEET WEST OF TRUNK HIGHWAY 271, 2.5 FEET NORTHEAST OF A RIGHT-OF-WAY POST, 2.2 FEET EAST OF A FENCE LINE, 1.5 FEET EAST OF A WITNESS POST.

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	1767.608	0.016	538.768	0.005	2/1	2020	00000949

Geoid Separations(ft): GEOID18 = -84.084    12B = -84.084    09 = -83.979    03 = -83.930

Geodetic Position and Lincoln County Coordinates

<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)	44 29 34.16985	96 25 28.79416	458766.410	208016.542	139832.281	63403.569	513.153			2020	GPS3343	
NAD83 (1996)	44 29 34.16912	96 25 28.79450	458766.385	208016.467	139832.274	63403.546	513.220	C		2020	HTH271	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_G-DQ3877-3W-28MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_G-DQ3877-3W-28MAR2016.jpg</a>	W	Mar 28, 2016
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_G-DQ3877-2-28MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_G-DQ3877-2-28MAR2016.jpg</a>		Mar 28, 2016
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_G-DQ3877-1-28MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_G-DQ3877-1-28MAR2016.jpg</a>		Mar 28, 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\\_104930.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104930.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104930.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104930.pdf)



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

Mn/DOT Name: 4110 H

NGS Name: 4110 H

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ3878](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096133/  
 USGS Quad: HENDRICKS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	112 N	46 W	443007.90	962528.39	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>
2016	2019	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:** (2016)                      **Stamping:** 4110 H 2016

IN HENDRICKS, 0.15 MILE SOUTH ALONG TRUNK HIGHWAY 271 FROM THE JUNCTION OF TRUNK HIGHWAY 271 AND COUNTY ROAD 17 EAST IN HENDRICKS, AT TRUNK HIGHWAY 271 MILEPOINT 3.0, 67.1 FEET WEST OF TRUNK HIGHWAY 271, 63.0 FEET SOUTH OF COTTAGE AVENUE, 1.5 FEET NORTH OF A WITNESS POST.

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	1783.750	0.016	543.688	0.005	2/1	2020	00000949

Geoid Separations(ft): GEOID18 = -84.022    12B = -84.029    09 = -83.920    03 = -83.875

Geodetic Position and Lincoln County Coordinates

<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)	44 30 07.90126	96 25 28.38924	458802.356	211432.722	139843.238	64444.823	518.098			2020	GPS3343	
NAD83 (1996)	44 30 07.90053	96 25 28.38958	458802.331	211432.648	139843.230	64444.800	518.164	C		2020	HTH271	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_H-DQ3878-3W-28MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_H-DQ3878-3W-28MAR2016.jpg</a>	W	Mar 28, 2016
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_H-DQ3878-2-28MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_H-DQ3878-2-28MAR2016.jpg</a>		Mar 28, 2016
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_H-DQ3878-1-28MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_H-DQ3878-1-28MAR2016.jpg</a>		Mar 28, 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\\_104931.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104931.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104931.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104931.pdf)



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

Mn/DOT Name: 4110 J

NGS Name: 4110 J

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ3881](#) [Get Map](#)  
NGS Quad / Sta Num : 44096133/  
USGS Quad: HENDRICKS

<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	6	112 N	46 W	443207.37	962528.70	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>
2016	2019	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:** (2016) **Stamping:** 4110 J 2016

1.8 MILES NORTH OF HENDRICKS, 2.0 MILES NORTH ALONG TRUNK HIGHWAY 271 FROM THE JUNCTION OF TRUNK HIGHWAY 271 AND COUNTY ROAD 17 WEST IN HENDRICKS, AT TRUNK HIGHWAY 271 MILEPOINT 5.3, 73.2 FEET WEST OF TRUNK HIGHWAY 271, 2.0 FEET EAST OF A RIGHT-OF-WAY POST, 1.5 FEET EAST OF A WITNESS POST.

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	1770.498	0.016	539.649	0.005	2/1	2020	00000949

Geoid Separations(ft): GEOID18 = -83.829 12B = -83.845 09 = -83.720 03 = -83.704

Geodetic Position and Lincoln County Coordinates

<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)	44 32 07.37055	96 25 28.70468	458802.854	223532.384	139843.390	68132.807	514.123	2020	C	2020	GPS3343	
NAD83 (1996)	44 32 07.36980	96 25 28.70499	458802.832	223532.308	139843.383	68132.784	514.188	2020	C	2020	HTH271	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_J-DQ3881-3W-29MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_J-DQ3881-3W-29MAR2016.jpg</a>	W	Mar 29, 2016
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_J-DQ3881-2-29MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_J-DQ3881-2-29MAR2016.jpg</a>		Mar 29, 2016
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_J-DQ3881-1-29MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_J-DQ3881-1-29MAR2016.jpg</a>		Mar 29, 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\\_104932.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104932.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104932.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104932.pdf)



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

Mn/DOT Name: 4110 K

NGS Name: 4110 K

County: LINCOLN, MN (Sheet 1)

NGS ACRN: <a href="#">DQ3882</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096133/	
USGS Quad: HENDRICKS	

<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	32	113 N	46 W	443239.13	962600.73	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>
2016	2019	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:** (2016)                      **Stamping:** 4110 K 2016

2.8 MILES NORTH-NORTHWEST OF HENDRICKS, 2.7 MILES NORTH ALONG TRUNK HIGHWAY 271 FROM THE JUNCTION OF TRUNK HIGHWAY 271 AND COUNTY ROAD 17 WEST IN HENDRICKS, AT TRUNK HIGHWAY 271 MILEPOINT 6.05, 55.8 FEET SOUTHWEST OF TRUNK HIGHWAY 271, 51.3 FEET NORTH OF 340TH STREET, 24.7 FEET NORTHEAST OF A TELEPHONE PEDESTAL, 1.5 FEET NORTHEAST OF A WITNESS POST.

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	1768.225	0.016	538.956	0.005	2/1	2020	00000949

Geoid Separations(ft): GEOID18 = -83.717    12B = -83.733    09 = -83.612    03 = -83.602

Geodetic Position and Lincoln County Coordinates

<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)	44 32 39.13306	96 26 00.73099	456489.422	226753.847	139138.254	69114.711	513.457			2020	GPS3343	
NAD83 (1996)	44 32 39.13233	96 26 00.73134	456489.397	226753.774	139138.246	69114.688	513.523	C		2020	HTH271	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_K-DQ3882-3SW-29MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_K-DQ3882-3SW-29MAR2016.jpg</a>	SW	Mar 29, 2016
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_K-DQ3882-2-29MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_K-DQ3882-2-29MAR2016.jpg</a>		Mar 29, 2016
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_K-DQ3882-1-29MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_K-DQ3882-1-29MAR2016.jpg</a>		Mar 29, 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\\_104933.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104933.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104933.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104933.pdf)



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

Mn/DOT Name: 4110 L

NGS Name: 4110 L

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ3885](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096133/  
 USGS Quad: HENDRICKS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	30	113 N	46 W	443420.54	962644.34	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2016	2019	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 21 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2016) **Stamping:** 4110 L 2016

4.6 MILES NORTH OF HENDRICKS, 4.9 MILES NORTH ALONG TRUNK HIGHWAY 271 FROM THE JUNCTION OF TRUNK HIGHWAY 271 AND COUNTY ROAD 17 WEST IN HENDRICKS, AT TRUNK HIGHWAY 271 MILEPOINT 8.3, 66.5 FEET SOUTH-SOUTHWEST OF TRUNK HIGHWAY 271, 21.8 FEET EAST-SOUTHEAST OF AN ENTRANCE, 5.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1791.365	0.016	546.009	0.005	2/1	2020	00000949

Geoid Separations(ft): GEOID18 = -83.579 12B = -83.589 09 = -83.474 03 = -83.471

Geodetic Position and Lincoln County Coordinates

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)	44 34 20.54071	96 26 44.34443	4533530000	237030.970	138182.271	72247.184	520.542	2020	GPS3343			
NAD83 (1996)	44 34 20.53997	96 26 44.34474	453352.977	237030.895	138182.264	72247.161	520.608	C	2020	HTH271		

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_L-DQ3885-3S-29MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_L-DQ3885-3S-29MAR2016.jpg</a>	S	Mar 29, 2016
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_L-DQ3885-2-29MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_L-DQ3885-2-29MAR2016.jpg</a>		Mar 29, 2016
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_L-DQ3885-1-29MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/4110_L-DQ3885-1-29MAR2016.jpg</a>		Mar 29, 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\\_104934.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104934.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104934.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104934.pdf)



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

Mn/DOT Name: 43 SEM

NGS Name: 43 SEM

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096133/  
 USGS Quad: HENDRICKS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	46 W	443700.00	962242.00		

<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>
1965	2002	GOOD	Horz=YES Vert=YES	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

**Description:** (1965)                      **Stamping:** 43 SEM 1965 1667

9.0 MILES SOUTHWEST OF BURR, 5.0 MILES WEST ON COUNTY ROAD 20 FROM THE JUNCTION OF COUNTY ROAD 20 AND TRUNK HIGHWAY 75 IN BURR, 54.0 FEET NORTH AND 47.0 FEET WEST OF THE CROSSROADS (COUNTY ROAD 20 AND COUNTY ROAD 101), 1.0 FOOT NORTH AND 2.5 FEET EAST OF A FENCE CORNER.

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

Geoid Separations(ft): GEOID18 = -84.160    12B = -84.163    09 = -84.062    03 = -83.996

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17642.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17642.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17642.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17642.pdf)



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

Mn/DOT Name: 44 SEM

NGS Name: 44 SEM

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096133/  
 USGS Quad: HENDRICKS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	46 W	443423.00	962244.00		

<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>
1965	2002	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)	SEE DESCRIPTION	USGS

**Description:** (1965)                      **Stamping:** 44 SEM 1965 1720

5.0 MILES NORTHEAST OF HENDRICKS, 2.5 MILES NORTH ON COUNTY ROAD 1 FROM THE JUNCTION OF COUNTY ROAD 1 AND TRUNK HIGHWAY 271 IN HENDRICKS, 1.9 MILES EAST TOWARD COUNTY ROAD 101, 41.0 FEET NORTH AND 48.0 FEET WEST OF THE CROSSROADS (COUNTY ROAD 101 AND A TOWNSHIP ROAD), 5.0 FEET NORTH AND 3.0 FEET EAST OF A POWER POLE.

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

Geoid Separations(ft): GEOID18 = -84.124    12B = -84.121    09 = -84.035    03 = -84.006

\* 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\\_17643.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17643.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17643.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17643.pdf)



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

Mn/DOT Name: 45 SEM

NGS Name: 45 SEM

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096133/  
 USGS Quad: HENDRICKS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	112 N	46 W	443155.00	962300.00		

<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>
1965	1996	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)	SEE DESCRIPTION	USGS

**Description:** (1965)                      **Stamping:** 45 SEM 1965 1737

2.6 MILES NORTHEAST OF HENDRICKS, 2.0 MILES EAST ON TOWNSHIP ROAD 122 FROM THE JUNCTION OF THE TOWNSHIP ROAD 122 AND TRUNK HIGHWAY 271 IN HENDRICKS, 33.0 FEET NORTH AND 63.0 FEET EAST OF THE CROSSROADS (COUNTY ROAD 101 AND A TOWNSHIP ROAD), 2.5 FEET SOUTH AND 3.0 FEET EAST OF A POWER POLE.

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

Geoid Separations(ft): GEOID18 = -84.226    12B = -84.226    09 = -84.121    03 = -84.081

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17644.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17644.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17644.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17644.pdf)



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

Mn/DOT Name: 6 T

NGS Name: 6 T

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0769](#) [Get Map](#)  
NGS Quad / Sta Num : 44096212/  
USGS Quad: DEAD COON 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	111 N	44 W	442218.94	960655.37		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>
1960	2007	FAIR	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	USGS

**Description:** (2016) **Stamping:** 6 T 1960

3.5 MILES EAST-SOUTHEAST OF ARCO, 2.2 MILES EAST ALONG COUNTY ROAD 15 FROM THE JUNCTION OF COUNTY ROAD 15 AND COUNTY ROAD 7 IN ARCO, THEN 1.0 MILE SOUTH ON COUNTY ROAD 8, THEN 0.2 MILE EAST ON A TEE-ROAD, 49.0 FEET NORTH AND 1154.0 FEET EAST OF THE CROSSROADS (COUNTY ROAD 8 AND A TOWNSHIP ROAD), 2.0 FEET WEST OF A POWER LINE, 1.0 FOOT SOUTH OF A FENCE, ON THE SOUTH SIDE OF A WITNESS POST.

**Station Notes**

THE CONCRETE IS BREAKING AWAY FROM THE SOUTH SIDE OF THE TABLET.

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

Geoid Separations(ft): GEOID18 = -86.417 12B = -86.434 09 = -86.352 03 = -86.224

**Geodetic Position and Lincoln County Coordinates**

<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)	44 22 18.93523	96 06 55.37229	539563.199	163934.200	164459.192	49967.244	479.543	3	1999	17648		
NAD83 (1986)	44 22 18.93173	96 06 55.35921	539564.150	163933.847	164459.482	49967.136		3	1986	17289		
NAD27	44 22 19.06222	96 06 54.23031						3	1977	15976		

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17645.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17645.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17645.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17645.pdf)



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

Mn/DOT Name: 69 SEM

NGS Name: 69 SEM

County: LINCOLN, MN (Sheet 1)

NGS ACRN: <a href="#">DL6792</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096242/	
USGS Quad: LAKE BENTON	

<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	4	110 N	45 W	442214.61	961655.08	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>
1965	2011	GOOD	Horz=YES Vert=YES	YES		PROJECTS 2 IN.	MARKER W/BAR MAGNET

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

**Description:** (2012)                      **Stamping:** 69 SEM 1965

7.2 MILES NORTH OF LAKE BENTON, 7.3 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, AT TRUNK HIGHWAY 75 MILEPOST 62.45, 465.0 FEET SOUTH OF 220TH STREET, 74.0 FEET EAST OF TRUNK HIGHWAY 75, 27.0 FEET NORTH-NORTHWEST OF A POWER POLE, 2.0 FEET WEST OF A FENCE, 1.4 FEET WEST OF A WITNESS POST.

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	1781.512	0.016	543.006	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.403    12B = -85.430    09 = -85.331    03 = -85.220

Geodetic Position and Lincoln County Coordinates

<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)	44 22 14.60757	96 16 55.08179	495998.629	163459.710	151180.684	49822.619	516.975			2014	GPS3047	
NAD83 (1996)	44 22 14.60695	96 16 55.08191	495998.620	163459.647	151180.682	49822.600	517.018	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/69_SEM-DL6792-3E-10OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/69_SEM-DL6792-3E-10OCT2006.jpg</a>	E	Oct 10, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/69_SEM-DL6792-2-10OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/69_SEM-DL6792-2-10OCT2006.jpg</a>		Oct 10, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/69_SEM-DL6792-1-10OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/69_SEM-DL6792-1-10OCT2006.jpg</a>		Oct 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\\_17646.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17646.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17646.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17646.pdf)



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

Mn/DOT Name: 7 T

NGS Name: 7 T

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096212/  
 USGS Quad: DEAD COON 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	23	110 N	44 W	441935.00	960709.00		

<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>
1960	1973	GOOD	Horz=YES 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:** (1973)                      **Stamping:** 7 T 1960 1700

8.3 MILES WEST OF RUSSELL, 8.0 MILES WEST ON 190TH STREET FROM THE JUNCTION OF 190TH STREET AND 170TH AVENUE IN RUSSELL, 382.0 FEET SOUTH AND 58.0 FEET EAST OF COUNTY ROAD 8 AT A TEE-ROAD EAST, 360.0 FEET SOUTH AND 55.0 FEET EAST OF THE NORTHWEST CORNER OF SECTION 23, 8.0 FEET EAST OF A FENCE, 11.0 FEET SOUTHEAST OF A POWER POLE, 350.0 FEET SOUTHEAST OF A HOUSE, NEAR THE TOP OF A CUT BACK SLOPE.

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

Geoid Separations(ft): GEOID18 = -86.187    12B = -86.227    09 = -86.122    03 = -85.994

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17647.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17647.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17647.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17647.pdf)



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

Mn/DOT Name: 70 SEM

NGS Name: 70 SEM

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6608](#) [Get Map](#)  
 NGS Quad / Sta Num : 4409624/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	46 W	442221.23	962036.95		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>
1965	2021	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	USGS

**Description:** (1973)                      **Stamping:** 70 SEM 1965 1822

10.0 MILES SOUTHEAST OF HENDRICKS, 5.0 MILES SOUTH ON COUNTY ROAD 101 FROM THE JUNCTION OF COUNTY ROAD 101 AND TRUNK HIGHWAY 19 IN HENDRICKS, 2.0 MILES EAST ON COUNTY ROAD 103 (COUNTY ROAD 3), 0.9 MILE SOUTH ON COUNTY ROAD 103, 295.0 FEET NORTH AND 50.0 FEET EAST OF THE CROSSROADS (COUNTY ROAD 3 AND A TOWNSHIP ROAD), 2.0 FEET WEST OF A NORTH-SOUTH FENCE.

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

Geoid Separations(ft): GEOID18 = -850000 12B = -85.006 09 = -84.915 03 = -84.826

Geodetic Position and Lincoln County Coordinates

<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)	44 22 21. 23157	96 20 36. 94730	479882. 025	164139. 644	146268. 334	50029. 863	529. 566			2012	GPS2800	
NAD83 (2007)	44 22 21. 23142	96 20 36. 94810	479881. 967	164139. 628	146268. 316	50029. 859	529. 564			2007	GPS2300	
NAD83 (1996)	44 22 21. 23091	96 20 36. 94760	479882. 003	164139. 577	146268. 327	50029. 843	529. 603	C		2003	GPS1883	

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17648.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17648.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17648.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17648.pdf)



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

Mn/DOT Name: 71 SEM

NGS Name: 71 SEM

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096243/  
 USGS Quad: LAKE BENTON 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	32	111 N	46 W	442223.00	962416.00		

<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>
1965	1965	GOOD	Horz=YES 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:** (2016)                      **Stamping:** 71 SEM 1965 1908

9.3 MILES SOUTHEAST OF HENDRICKS, 5.9 MILES SOUTH TOWARD COUNTY ROAD 127 FROM TRUNK HIGHWAY 19 IN HENDRICKS, 510.0 FEET NORTH AND 39.0 FEET WEST OF A NORTH-SOUTH TOWNSHIP ROAD AT A TEE-ROAD EAST, 52.0 FEET NORTH OF A FIELD ENTRANCE AT THE CREST OF A HILL, 3.5 FEET WEST OF A NORTH-SOUTH FENCE.

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

Geoid Separations(ft): GEOID18 = -84.541    12B = -84.550    09 = -84.445    03 = -84.393

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17649.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17649.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17649.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17649.pdf)



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

Mn/DOT Name: 72 SEM

NGS Name: 72 SEM

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6609](#) [Get Map](#)  
NGS Quad / Sta Num : 44096244/  
USGS Quad: LAKE BENTON 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	36	111 N	47 W	442300.45	962639.73		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>
1965	2021	GOOD	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:** (1973)                      **Stamping:** 72 SEM 1965

8.6 MILES SOUTHWEST OF HENDRICKS, 5.0 MILES SOUTH ALONG COUNTY ROAD 1 FROM THE JUNCTION OF COUNTY ROAD 1 AND TRUNK HIGHWAY 19 IN HENDRICKS, 1.2 MILES WEST ON COUNTY ROAD 15, 0.4 MILE EAST OF THE WEST STATE LINE, 37.0 FEET SOUTH OF COUNTY ROAD 15, NEAR THE TOP OF A HILL, 2.0 FEET SOUTHWEST OF A TEE-FENCE SOUTH, 0.5 FOOT 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 = -84.239 12B = -84.252 09 = -84.134 03 = -84.101

**Geodetic Position and Lincoln County Coordinates**

<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)	44 23 00.45386	96 26 39.72461	453537.853	168152.908	138238.614	51253.109	557.380			2012	GPS2800	
NAD83 (2007)	44 23 00.45387	96 26 39.72565	453537.777	168152.909	138238.591	51253.109	557.370			2007	GPS2300	
NAD83 (1996)	44 23 00.45336	96 26 39.72514	453537.814	168152.858	138238.602	51253.094	557.445	C		2009	HIVAN	

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/72_SEM-DF6609-3S-19MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/72_SEM-DF6609-3S-19MAY2009.jpg</a>	S	May 19, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/72_SEM-DF6609-2-19MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/72_SEM-DF6609-2-19MAY2009.jpg</a>		May 19, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/72_SEM-DF6609-1-19MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/72_SEM-DF6609-1-19MAY2009.jpg</a>		May 19, 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\\_17650.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17650.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17650.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17650.pdf)



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

Mn/DOT Name: 8 T

NGS Name: 8 T

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096211/  
 USGS Quad: GISLASON 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	23	111 N	44 W	442447.00	960709.00		

<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>
1960	2002	GOOD	Horz=YES Vert=YES	YES			SEE DESCRIPTION

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

**Description:** (2016)                      **Stamping:** 8 T 1960 1633

7.2 MILES SOUTHEAST OF IVANHOE, 7.8 MILES EAST ON TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, 2.3 MILES SOUTH ON COUNTY ROAD 8, 790.0 FEET SOUTH AND 50.0 FEET EAST OF THE CROSSROADS (COUNTY ROAD 8 COUNTY ROAD 125), 22.0 FEET EAST OF A FIELD CROSSROAD, 10.0 FEET EAST OF A NORTH-SOUTH RIGHT-OF-WAY FENCE.

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

Geoid Separations(ft): GEOID18 = -86.565    12B = -86.562    09 = -86.486    03 = -86.358

\* 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\\_17651.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17651.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17651.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17651.pdf)



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

Mn/DOT Name: 80 SEM

NGS Name: 80 SEM

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096243/  
 USGS Quad: LAKE BENTON 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	8	109 N	46 W	441518.89	962419.74		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>
1960	2015	GOOD	Horz=NO Vert=YES	NO		PROJECTS 6 IN.	STEEL ROD IMBED IN MON

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

**Description:** (1976)                      **Stamping:** 80 SEM 1965 1825

5.8 MILES WEST OF LAKE BENTON, 5.8 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, TO TRUNK HIGHWAY 14 MILEPOINT 2.4, THEN 1.0 MILE SOUTH ON 130TH AVENUE, 412.0 FEET WEST OF 130TH AVENUE, ON A HILLTOP, 55.0 FEET NORTH OF A FIELD ROAD, 63.9 FEET NORTH OF A FENCE LINE.

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

Geoid Separations(ft): GEOID18 = -84.501    12B = -84.531    09 = -84.432    03 = -84.357

\* 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\\_17652.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17652.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17652.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17652.pdf)



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

Mn/DOT Name: 81 SEM

NGS Name: 81 SEM

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DK9910](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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>
SW	11	109 N	46 W	441519.00	962142.00	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>
1965	2015	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 7 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	SURVEY DISK	USGS

**Description:** (2006)                      **Stamping:** 81 SEM 1965 1877

3.9 MILES WEST OF LAKE BENTON, 3.8 MILES WEST ON TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, 1.0 MILE SOUTH ON COUNTY ROAD 2, 0.1 MILE EAST ON COUNTY ROAD 119 FROM THE JUNCTION OF COUNTY ROAD 2 AND COUNTY ROAD 119, 48.5 FEET NORTH OF COUNTY ROAD 19, 1.7 FEET SOUTH OF AN EAST-WEST FENCE LINE, 78.3 FEET EAST-NORTHEAST OF A CROSSROAD SIGN, 0.8 FOOT SOUTH OF A WITNESS POST.

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	1878.024	0.016	572.423	0.005	2/1	2009	00000425-36

Geoid Separations(ft): GEOID18 = -84.567    12B = -84.609    09 = -84.508    03 = -84.419

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/81_SEM-DK9910-3N-11OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/81_SEM-DK9910-3N-11OCT2006.jpg</a>	N	Oct 11, 200
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/81_SEM-DK9910-2-11OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/81_SEM-DK9910-2-11OCT2006.jpg</a>		Oct 11, 200
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/81_SEM-DK9910-1-11OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/81_SEM-DK9910-1-11OCT2006.jpg</a>		Oct 11, 200

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17653.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17653.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17653.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17653.pdf)



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

Mn/DOT Name: 82 SEM

NGS Name: 82 SEM

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441524.00	961836.00			1965	1976	GOOD	Horz=NO Vert=YES	NO		FLUSH	STEEL SPIKE ADJ TO MON
<b>Monument Type</b>						<b>Disk Type</b>						<b>Mon. Agency</b>			
CONCRETE MONUMENT (CAST-IN-PLACE)						SURVEY DISK						USGS			

**Description:** (1976)

**Stamping:** 82 SEM 1965 1975

1.2 MILES SOUTHWEST OF LAKE BENTON, 1.3 MILES SOUTHWEST ALONG COUNTY ROAD 21/EAST BENTON STREET FROM THE JUNCTION OF COUNTY ROAD 21/EAST BENTON STREET AND TRUNK HIGHWAY 75 IN LAKE BENTON, 82.5 FEET NORTH-NORTHWEST OF COUNTY ROAD 119, 21.0 FEET NORTHWEST OF A POWER POLE, IN A CULTIVATED FIELD.

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

Geoid Separations(ft): GEOID18 = -84.777 12B = -84.806 09 = -84.734 03 = -84.652

\* 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\\_17654.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17654.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17654.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17654.pdf)



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

Mn/DOT Name: 9 DWB

NGS Name: 9 DWB

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096122/  
 USGS Quad: TAUNTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	112 N	44 W	443154.00	960712.00		

<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>
1965	1974	GOOD	Horz=YES Vert=YES	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)	SEE DESCRIPTION	USGS

**Description:** (1974)                      **Stamping:** 9 DWB 1965 1406

7.6 MILES SOUTH-SOUTHEAST OF PORTER, 5.7 MILES SOUTH ON COUNTY ROAD 19 FROM THE JUNCTION OF COUNTY ROAD 19 AND TRUNK HIGHWAY 68 IN PORTER, 157.0 FEET EAST ON COUNTY ROAD 34, NEAR THE JUNCTION OF COUNTY ROAD 8 - COUNTY ROAD 134 AND A TOWNSHIP ROAD (EAST), 34.5 FEET NORTH OF A TOWNSHIP ROAD, 222.5 FEET EAST OF COUNTY ROAD 8, 23.0 FEET WEST OF A POWER POLE, 3.0 FEET WEST OF A FENCE CORNER, 0.9 FOOT SOUTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -86.660    12B = -86.647    09 = -86.539    03 = -86.417

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17655.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17655.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17655.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17655.pdf)



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

Mn/DOT Name: 9 T

NGS Name: 9 T

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096211/  
 USGS Quad: GISLASON LAKE

<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>
SW	35	112 N	44 W	442736.00	960712.00		

<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>
1960	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)	SURVEY DISK	USGS

**Description:** (1960)                      **Stamping:** 9 T 1960 1564

6.5 MILES EAST OF IVANHOE, 7.0 MILES EAST ON TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, 358.0 FEET NORTH AND 36.0 FEET EAST OF A FIELD ENTRANCE EAST, 1.0 FOOT WEST OF A NORTH-SOUTH FENCE.

**Station Notes**  
SEE 9 T RESET.

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

Geoid Separations(ft): GEOID18 = -86.689    12B = -86.689    09 = -86.591    03 = -86.450

\* 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\\_73701.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_73701.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_73701.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_73701.pdf)



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

Mn/DOT Name: 9 T RESET

NGS Name: 9 T RESET

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096211/  
 USGS Quad: GISLASON LAKE

<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>
SW	35	112 N	44 W	442736.00	960712.00		

<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	2006	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 16 FT)	BENCH MARK DISK	USGS

**Description:** (1985)                      **Stamping:** 9 T RESET 1974

6.5 MILES EAST OF IVANHOE, 7.0 MILES EAST ON TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, NEAR THE JUNCTION OF COUNTY ROAD 8 AND TRUNK HIGHWAY 19, 32.0 FEET NORTH AND 21.0 FEET WEST OF COUNTY ROAD 8 AT DRIVE, 54.0 FEET WEST OF A POWER POLE, 63.0 FEET NORTH OF A TELEPHONE CABLE POST, 2.5 FEET SOUTH OF A WITNESS POST.

**Station Notes**

FALLS IN THE ROAD.

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

Geoid Separations(ft): GEOID18 = -86.689    12B = -86.689    09 = -86.591    03 = -86.450

\* 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\\_17656.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17656.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17656.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17656.pdf)



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

Mn/DOT Name: A 112

NGS Name: A 112

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0093](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096231/  
 USGS Quad: VERDI

<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	35	109 N	46 W	441232.00	962110.00	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	1954	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:** (1954)                      **Stamping:** A 112 1934

IN VERDI, 82.0 FEET SOUTH FROM THE JUNCTION OF FRONT STREET AND CENTER STREET.

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	1764.508	0.016	537.823	0.005	2/0	1991	00000025
NGVD29	1763.651	0.007	537.562	0.002	1	1934	L33 MINN

Geoid Separations(ft): GEOID18 = -84.665 12B = -84.711 09 = -84.600 03 = -84.508

\* 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\\_17657.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17657.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17657.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17657.pdf)



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

Mn/DOT Name: A 112 RESET

NGS Name: A 112 RESET

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0094](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096231/  
 USGS Quad: VERDI

<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	35	109 N	46 W	441231.00	962110.00		

<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>
1954	1994	GOOD	Horz=YES Vert=YES	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:** (1994)                      **Stamping:** A 112 RESET 1954

IN VERDI, 51.0 FEET SOUTH OF COUNTY ROAD 9, 17.0 FEET EAST OF AN ALLEY, 66.0 FEET NORTHWEST OF THE NORTHWEST CORNER OF A METAL BUILDING, 6.5 FEET EAST OF A POWER POLE.

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>
NGVD29	1764.275	0.016	537.752	0.005	2	1954	Q440962

Geoid Separations(ft): GEOID18 = -84.668    12B = -84.711    09 = -84.600    03 = -84.508

\* 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\\_17658.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17658.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17658.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17658.pdf)



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

Mn/DOT Name: A 390

NGS Name: A 390

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AB8786](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	44 W	441611.00	960814.09	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>
1994	2015	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE) (DEPTH 20 FT)	METAL ROD	NGS

**Description:** (2016)                      **Stamping:** A 390 1994

IN TYLER, 0.15 MILE WEST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND COUNTY ROAD 7 IN TAYLOR, AT TRUNK HIGHWAY 14 MILEPOINT 16.10, 39.7 FEET NORTH OF TRUNK HIGHWAY 14, 25.6 FEET WEST OF MAPLE STREET, 2.6 FEET WEST OF A POWER POLE.

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	1750.699	0.016	533.614	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.843    12B = -85.889    09 = -85.787    03 = -85.676

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/A_390-AB8786-3S-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/A_390-AB8786-3S-18JUN2015.jpg</a>	S	Jun 18, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/A_390-AB8786-2-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/A_390-AB8786-2-18JUN2015.jpg</a>		Jun 18, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/A_390-AB8786-1-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/A_390-AB8786-1-18JUN2015.jpg</a>		Jun 18, 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\\_40026.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40026.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_40026.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40026.pdf)



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

Mn/DOT Name: A19 MN083

NGS Name: A19

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DE6473](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096211/  
 USGS Quad: GISLASON LAKE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	36	112 N	44 W	442733.17	960448.05	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1998	2019	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MN-083

**Description:** (2006)                      **Stamping:** A19 1998

8.5 MILES EAST OF IVANHOE, 9.8 MILES EAST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND COUNTY ROAD 75 IN IVANHOE TO TRUNK HIGHWAY 19 MILEPOINT 20.3, THEN 1.0 MILE NORTH ON 290TH AVENUE, 72.1 FEET WEST OF 290TH AVENUE EXTENDED, 20.7 FEET NORTH OF 280TH STREET, 12.0 FEET WEST OF A FIELD ENTRANCE, 8.5 FEET SOUTH OF A FENCE LINE, 8.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1522.658	0.016	464.107	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -86.968    12B = -86.978    09 = -86.857    03 = -86.716

Geodetic Position and Lincoln County Coordinates

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)	44 27 33.16986	96 04 48.05306	548739.389	195777.757	167256.100	59673.180	437.596			2012	GPS2800	
NAD83 (2007)	44 27 33.16957	96 04 48.05413	548739.311	195777.727	167256.077	59673.171	437.627			2007	GPS2300	
NAD83 (1996)	44 27 33.16906	96 04 48.05380	548739.335	195777.675	167256.084	59673.155	437.658	C		2009	HIVAN	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/A19-DE6473-3N-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/A19-DE6473-3N-23OCT2019.jpg</a>	N	Oct 23, 2019
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/A19-DE6473-2-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/A19-DE6473-2-23OCT2019.jpg</a>		Oct 23, 2019
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/A19-DE6473-1-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/A19-DE6473-1-23OCT2019.jpg</a>		Oct 23, 2019

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_36986.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36986.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_36986.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36986.pdf)



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

Mn/DOT Name: A31 MN083

NGS Name: A31

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DE6475](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096121/  
 USGS Quad: ST LEO

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	112 N	44 W	443749.13	960534.88	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>
1998	2009	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)	SURVEY DISK	MN-083

**Description:** (2006)                      **Stamping:** A31 1998

2.0 MILES NORTHWEST OF TAUNTON, 1.4 MILES NORTH ALONG 110TH AVENUE FROM THE JUNCTION OF 110TH AVENUE AND TRUNK HIGHWAY 68 IN TAUNTON, 1.0 MILE WEST ON 390TH STREET, 1.0 MILE NORTH ON 280TH AVENUE, 62.0 FEET SOUTH OF 400TH STREET, 22.0 FEET WEST OF 280TH STREET (LYON/LINCOLN ROAD), 2.0 FEET OF A WITNESS POST.

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	1177.252	0.016	358.827	0.005	2/1	2011	00000668

Geoid Separations(ft): GEOID18 = -86.394 12B = -86.407 09 = -86.256 03 = -86.165

Geodetic Position and Lincoln County Coordinates

<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)	44 37 49.13374	96 05 34.87900	545210.494	258154.225	166180.491	78685.565	332.500			2012	GPS2800	
NAD83 (2007)	44 37 49.13377	96 05 34.87994	545210.426	258154.227	166180.470	78685.566	332.541			2007	GPS2300	
NAD83 (1996)	44 37 49.13335	96 05 34.87949	545210.458	258154.185	166180.480	78685.553	332.559	C		2009	HCNBY	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/A31-DE6475-3W-04OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/A31-DE6475-3W-04OCT2006.jpg</a>	W	Oct 4, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/A31-DE6475-2-04OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/A31-DE6475-2-04OCT2006.jpg</a>		Oct 4, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/A31-DE6475-1-04OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/A31-DE6475-1-04OCT2006.jpg</a>		Oct 4, 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\\_36988.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36988.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_36988.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36988.pdf)



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

Mn/DOT Name: ALTA 6 MN081

NGS Name: ALTA 6

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6610](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096124/  
 USGS Quad: PORTER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	44 W	443752.30	961245.12		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	2021	GOOD	Horz=YES Vert=YES	YES		PROJECTS 10 IN.	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	MN-081

**Description:** (2002)                      **Stamping:** ALTA 6 2001

2.3 MILES WEST OF PORTER, 2.45 MILES SOUTHWEST ALONG COUNTY ROAD 16 FROM THE JUNCTION OF COUNTY ROAD 16 AND COUNTY ROAD 109 IN PORTER, 202.0 FEET WEST OF A POWER POLE, 46.5 FEET SOUTH OF COUNTY ROAD 16, 33.0 FEET EAST OF A POWER POLE, 13.0 FEET EAST OF A FIELD ENTRANCE, 4.0 FEET NORTH OF A FENCE LINE, 1.5 FEET NORTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.390 12B = -85.397 09 = -85.295 03 = -85.220

Geodetic Position and Lincoln County Coordinates

<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)	44 37 52.29810	96 12 45.11821	514094.192	258431.400	156696.223	78770.048	375.965		2012	GPS2800
NAD83 (2007)	44 37 52.29794	96 12 45.11937	514094.108	258431.383	156696.198	78770.043	375.985		2007	GPS2300
NAD83 (1996)	44 37 52.29754	96 12 45.11893	514094.140	258431.343	156696.207	78770.031	376.016	C	2011	HTH75

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ALTA_6-DF6610-3S-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ALTA_6-DF6610-3S-03MAY2021.jpg</a>	S	May 3, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ALTA_6-DF6610-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ALTA_6-DF6610-2-03MAY2021.jpg</a>		May 3, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ALTA_6-DF6610-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ALTA_6-DF6610-1-03MAY2021.jpg</a>		May 3, 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\\_41602.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41602.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41602.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41602.pdf)



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

Mn/DOT Name: ANDERSON

NGS Name: ANDERSON

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6611](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096241/  
 USGS Quad: LAKE BENTON NE

<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	111 N	45 W	442731.32	961924.25	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	2021	GOOD	Horz=YES 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	MN-081

**Description:** (2012)                      **Stamping:** ANDERSON 2001

3.5 MILES WEST OF IVANHOE, 3.0 MILES WEST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, AT TRUNK HIGHWAY 19 MILEPOST 7.4, 173.0 FEET SOUTH OF TRUNK HIGHWAY 19, 53.0 FEET SOUTHWEST OF THE WEST POLE OF AN ANDERSON LAKE SIGN, 41.0 FEET EAST OF COUNTY ROAD 104, 6.0 FEET NORTH OF A FENCE CORNER POST, 1.0 FOOT WEST OF A WITNESS POST.

**Station Notes**

THIS MARK WAS CALLED ANDERSON MN081.

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	1761.289	0.016	536.842	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.174    12B = -85.180    09 = -85.069    03 = -84.974

Geodetic Position and Lincoln County Coordinates

<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)	44 27 31.32106	96 19 24.25214	485184.516	195540.057	147884.536	59600.729	510.878			2012	GPS2800	
NAD83 (2007)	44 27 31.32092	96 19 24.25276	485184.471	195540.043	147884.522	59600.724	510.871			2007	GPS2300	
NAD83 (1996)	44 27 31.32043	96 19 24.25226	485184.507	195539.993	147884.533	59600.709	510.941	C		2011	HTH75	

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ANDERSON-DF6611-3E-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ANDERSON-DF6611-3E-03MAY2021.jpg</a>	E	May 3, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ANDERSON-DF6611-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ANDERSON-DF6611-2-03MAY2021.jpg</a>		May 3, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ANDERSON-DF6611-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ANDERSON-DF6611-1-03MAY2021.jpg</a>		May 3, 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\\_41582.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41582.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41582.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41582.pdf)



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

Mn/DOT Name: ARCO MN081

NGS Name: ARCO

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6612](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	110 N	45 W	442127.35	961202.07		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	2019	GOOD	Horz=YES 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)	REFERENCE MARK DISK	MN-081

**Description:** (2002)                      **Stamping:** ARCO 2001

8.0 MILES SOUTH-SOUTHEAST OF IVANHOE, 7.4 MILES WEST ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN IVANHOE, THEN 4.0 MILES EAST ON COUNTY ROAD 123, 133.0 FEET NORTHEAST OF A POWER POLE, 122.0 FEET SOUTHEAST OF A POWER POLE, 96.5 FEET SOUTH OF A POWER POLE, 56.0 FEET SOUTH OF COUNTY ROAD 123, 44.0 FEET EAST OF 230TH AVENUE, 2.0 FEET NORTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.840    12B = -85.886    09 = -85.774    03 = -85.643

Geodetic Position and Lincoln County Coordinates

<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)	44 21 27.35023	96 12 02.06629	517288.363	158680.306	157669.808	48365.854	494.165		2014	GPS3047
NAD83 (2007)	44 21 27.35010	96 12 02.06714	517288.301	158680.293	157669.790	48365.850	494.173		2007	GPS2300
NAD83 (1996)	44 21 27.34959	96 12 02.06661	517288.340	158680.241	157669.801	48365.834	494.213	C	2011	HTH75

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ARCO-DF6612-3S-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ARCO-DF6612-3S-23OCT2019.jpg</a>	S	Oct 23, 2019
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ARCO-DF6612-2-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ARCO-DF6612-2-23OCT2019.jpg</a>		Oct 23, 2019
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ARCO-DF6612-1-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ARCO-DF6612-1-23OCT2019.jpg</a>		Oct 23, 2019

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_41590.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41590.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41590.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41590.pdf)



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

Mn/DOT Name: AREQUIPA

NGS Name: AREQUIPA

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5871](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096124/  
 USGS Quad: PORTER

<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	3	113 N	44 W	443730.34	960837.34	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>
2009	2009	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 30 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2009)                      **Stamping:** AREQUIPA 2009

1.5 MILES SOUTHEAST OF PORTER, 1.4 MILES SOUTHEAST ALONG TRUNK HIGHWAY 68 FROM THE JUNCTION OF TRUNK HIGHWAY 68 AND COUNTY ROAD 12 IN PORTER, AT TRUNK HIGHWAY 68 MILEPOST 17.70, 61.2 FEET NORTHEAST OF TRUNK HIGHWAY 68, 1.2 FEET SOUTHWEST OF A WITNESS POST.

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	1191.359	0.016	363.127	0.005	2/1	2012	00000711

Geoid Separations(ft): GEOID18 = -85.974    12B = -85.981    09 = -85.850    03 = -85.774

Geodetic Position and Lincoln County Coordinates

<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)	44 37 30.33850	96 08 37.33992	532017.284	256226.715	162159.193	78098.059	336.922			2012	GPS2800	
NAD83 (2007)	44 37 30.33843	96 08 37.34093	532017.211	256226.707	162159.170	78098.057	336.963	C		2009	GPS2583	
NAD83 (1996)	44 37 30.33801	96 08 37.34049	532017.243	256226.665	162159.180	78098.044	336.984	C		2009	HCNBY	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/AREQUIPA-DL5871-3NE-05MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/AREQUIPA-DL5871-3NE-05MAY2009.jpg</a>	NE	May 5, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/AREQUIPA-DL5871-2-05MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/AREQUIPA-DL5871-2-05MAY2009.jpg</a>		May 5, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/AREQUIPA-DL5871-1-05MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/AREQUIPA-DL5871-1-05MAY2009.jpg</a>		May 5, 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\\_86043.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_86043.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_86043.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_86043.pdf)



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

Mn/DOT Name: ASH 16 MN081

NGS Name: ASH 16

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6613](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096241/  
 USGS Quad: LAKE BENTON NE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	16	111 N	45 W	442457.12	961654.24	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2001	2011	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MN-081

Description: (2006)                      **Stamping:** ASH 16 2001

3.7 MILES SOUTH OF IVANHOE, 3.4 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, AT TRUNK HIGHWAY 75 MILEPOST 65.55, 185.0 FEET SOUTH OF A POWER POLE, 130.0 FEET NORTH OF 250TH STREET, 93.0 FEET NORTH OF A POWER POLE, 75.0 FEET EAST OF TRUNK HIGHWAY 75, 1.2 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	1766.066 0.016	538.298 0.005	2/1	2011 00000425-40

Geoid Separations(ft): GEOID18 = -85.521 12B = -85.531 09 = -85.430 03 = -85.321

Geodetic Position and Lincoln County Coordinates

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)	44 24 57.11552	96 16 54.23975	496062.829	179917.851	151200.253	54839.071	512.230			2014	GPS3047	
NAD83 (2007)	44 24 57.11537	96 16 54.24056	496062.770	179917.836	151200.235	54839.066	512.232			2007	GPS2300	
NAD83 (1996)	44 24 57.11488	96 16 54.24007	496062.805	179917.786	151200.246	54839.051	512.269	C		2011	HTH75	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ASH_16-DF6613-3E-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ASH_16-DF6613-3E-28APR2009.jpg</a>	E	Apr 28, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ASH_16-DF6613-2-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ASH_16-DF6613-2-28APR2009.jpg</a>		Apr 28, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ASH_16-DF6613-1-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ASH_16-DF6613-1-28APR2009.jpg</a>		Apr 28, 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\\_41584.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41584.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41584.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41584.pdf)



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

Mn/DOT Name: ASTORIA MN081

NGS Name: ASTORIA

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6614](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096133/  
 USGS Quad: HENDRICKS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	46 W	443658.09	962659.27		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	GOOD	Horz=YES 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)	SURVEY DISK	MN-081

**Description:** (2002)                      **Stamping:** ASTORIA 2001

7.6 MILES NORTHWEST OF HENDRICKS, 1.4 MILES WEST ALONG COUNTY ROAD 20 FROM THE JUNCTION OF COUNTY ROAD 1 AND COUNTY ROAD 20 IN HENDRICKS, 50.0 FEET SOUTH OF A TOWNSHIP ROAD, 11.0 FEET WEST OF A FIELD ENTRANCE, 1.2 FEET NORTH OF A FENCE CORNER POST, 1.2 FEET NORTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -83.648    12B = -83.645    09 = -83.550    03 = -83.507

Geodetic Position and Lincoln County Coordinates

<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)	44 36 58.09087	96 26 59.26860	452308.289	252989.975	137863.842	77111.499	508.322		2012	GPS2800		
NAD83 (2007)	44 36 58.09075	96 26 59.26953	452308.222	252989.963	137863.822	77111.495	508.358		2007	GPS2300		
NAD83 (1996)	44 36 58.09040	96 26 59.26905	452308.257	252989.928	137863.832	77111.484	508.400	C	2003	GPS1883		

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_41606.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41606.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41606.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41606.pdf)



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

Mn/DOT Name: B 112

NGS Name: B 112

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0096](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096231/  
 USGS Quad: VERDI

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441242.00	961914.00	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	1965	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:** (2016)                      **Stamping:** B 112 1934

1.6 MILES EAST OF VERDI, 1.2 MILES EAST ON COUNTY ROAD 9 FROM THE JUNCTION OF COUNTY ROAD 9 AND FRONT STREET IN VERDI, 75.0 FEET SOUTH ON A CROSSROAD TOWARD 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	1728.815	0.016	526.944	0.005	2/0	1991	00000025
NGVD29	1727.962	0.007	526.684	0.002	1	1934	L33 MINN

Geoid Separations(ft): GEOID18 = -84.728    12B = -84.780    09 = -84.665    03 = -84.580

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17659.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17659.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17659.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17659.pdf)



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

Mn/DOT Name: B 390

NGS Name: B 390

County: LINCOLN, MN (Sheet 1)

NGS ACRN: <a href="#">AB8787</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096213/	
USGS Quad: TYLER	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	44 W	441609.72	960936.53	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>
1994	2016	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE) (DEPTH 16 FT)	METAL ROD	NGS

**Description:** (2016)                      **Stamping:** B 390 1994

1.25 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND COUNTY ROAD 7 IN TYLER, AT TRUNK HIGHWAY 14 MILEPOINT 14.95, 70.9 FEET WEST OF 250TH AVENUE, 68.9 FEET SOUTH OF TRUNK HIGHWAY 14, 21.7 FEET WEST OF A TEE-JUNCTION POWER POLE, 5.2 FEET EAST OF AN UNDERGROUND CABLE JUNCTION BOX, 1.6 FEET BELOW THE LEVEL OF THE HIGHWAY, 1.3 FEET NORTH OF A WITNESS POST.

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	1754.189	0.016	534.678	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.712    12B = -85.754    09 = -85.659    03 = -85.548

Geodetic Position and Lincoln County Coordinates

<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)	44 16 09.72244	96 09 36.52759	527905.141	126523.795	160905.809	38564.530	508.575		2016	GPS3151
NAD83 (1996)	44 16 09.72144	96 09 36.52781	527905.125	126523.693	160905.804	38564.499	508.628	C	2016	HTYLR

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/B_390-AB8787-3S-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/B_390-AB8787-3S-18JUN2015.jpg</a>	S	Jun 18, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/B_390-AB8787-2-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/B_390-AB8787-2-18JUN2015.jpg</a>		Jun 18, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/B_390-AB8787-1-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/B_390-AB8787-1-18JUN2015.jpg</a>		Jun 18, 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\\_40027.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40027.pdf)  
 Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_40027.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40027.pdf)



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

Mn/DOT Name: BALSAM

NGS Name: BALSAM

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DP5871](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	112 N	45 W	443105.07	961552.58		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>
2010	2010	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:** (2010)                      **Stamping:** BALSAM 2010

4.0 MILES NORTH OF IVANHOE, 4.2 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, TO TRUNK HIGHWAY 75 MILEPOINT 73.15, THEN 0.3 MILE EAST ON 320TH STREET, 30.0 FEET SOUTH OF 320TH STREET, 15.0 FEET NORTHEAST OF A POWER POLE.

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

Geoid Separations(ft): GEOID18 = -85.443    12B = -85.433    09 = -85.331    03 = -85.243

Geodetic Position and Lincoln County Coordinates

<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)	44 31 05.06522	96 15 52.58363	500537.403	217182.434	152564.106	66197.338	482.969		2014	GPS3047
NAD83 (1996)	44 31 05.06469	96 15 52.58411	500537.369	217182.381	152564.095	66197.322	483.031	C	2011	HTH75

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BALSAM-DP5871-3S-27DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BALSAM-DP5871-3S-27DEC2010.jpg</a>	S	Dec 27, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BALSAM-DP5871-2-27DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BALSAM-DP5871-2-27DEC2010.jpg</a>		Dec 27, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BALSAM-DP5871-1-27DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BALSAM-DP5871-1-27DEC2010.jpg</a>		Dec 27, 2010

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_93303.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93303.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93303.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93303.pdf)



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

Mn/DOT Name: BARGE

NGS Name: BARGE

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2395](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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	10	109 N	45 W	441547.71	961536.83	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	2016	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:** (2015)                      **Stamping:** BARGE 2015

1.7 MILES EAST OF LAKE BENTON, 1.3 MILES EAST ALONG TRUNK HIGHWAY 14 FROM THE SOUTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 9.90, 70.7 FEET SOUTH-SOUTHEAST OF TRUNK HIGHWAY 14, 67.1 FEET EAST OF COUNTY ROAD 108, 1.5 FEET NORTH OF A WITNESS POST.

**Station Pair:** DAGEL - LINCOLN, MN

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	1814.094	0.016	552.937	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.098    12B = -85.118    09 = -85.052    03 = -84.960

Geodetic Position and Lincoln County Coordinates

<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)	44 15 47.71373	96 15 36.82995	501686.252	124276.781	152914.275	37879.639	526.987			2016	GPS3151	
NAD83 (1996)	44 15 47.71276	96 15 36.83016	501686.236	124276.683	152914.271	37879.609	527.041	C		2016	HTYLR	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BARGE-DQ2395-3S-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BARGE-DQ2395-3S-08JUL2015.jpg</a>	S	Jul 8, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BARGE-DQ2395-2-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BARGE-DQ2395-2-08JUL2015.jpg</a>		Jul 8, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BARGE-DQ2395-1-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BARGE-DQ2395-1-08JUL2015.jpg</a>		Jul 8, 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\\_104033.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104033.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104033.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104033.pdf)



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

Mn/DOT Name: BENT 1 MN081

NGS Name: BENT 1

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6615](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	1	109 N	45 W	441613.04	961213.88	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2001	2016	GOOD	Horz=NO Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MN-081

**Description:** (2002)                      **Stamping:** BENT 1 2001

3.5 MILES WEST OF TYLER, 3.1 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND COUNTY ROAD 8 IN TYLER, AT TRUNK HIGHWAY 14 MILEPOINT 12.75, 52.0 FEET NORTH OF TRUNK HIGHWAY 14, 31.0 FEET WEST OF A FIELD 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	1780.584 0.016	542.723 0.005	2/1	2017 00000903

Geoid Separations(ft): GEOID18 = -85.466 12B = -85.495 09 = -85.413 03 = -85.308

Geodetic Position and Lincoln County Coordinates

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)	44 16 13.04070	96 12 13.87862	516454.511	1268480000	157415.650	38663.348	516.671		2016	GPS3151
NAD83 (2007)	44 16 13.04055	96 12 13.87951	516454.447	126847.984	157415.630	38663.343	516.680		2007	GPS2300
NAD83 (1996)	44 16 13.04005	96 12 13.87892	516454.490	126847.934	157415.643	38663.328	516.724	C	2016	HTYLR

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT_1-DF6615-3N-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT_1-DF6615-3N-18JUN2015.jpg</a>	N	Jun 18, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT_1-DF6615-2-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT_1-DF6615-2-18JUN2015.jpg</a>		Jun 18, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT_1-DF6615-1-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT_1-DF6615-1-18JUN2015.jpg</a>		Jun 18, 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\\_41585.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41585.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41585.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41585.pdf)



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

Mn/DOT Name: BENT 16 MN081

NGS Name: BENT 16

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6616](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096231/  
 USGS Quad: VERDI

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441428.18	961634.88		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>
2002	2015	GOOD	Horz=YES 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	MN-081

**Description:** (2002)                      **Stamping:** BENT 16 2001

1.5 MILES SOUTHEAST OF LAKE BENTON, 1.5 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, THEN 1.25 MILES EAST, NORTH, AND EAST ON 130TH STREET, 177.0 FEET WEST OF A POWER POLE, 77.0 FEET EAST OF A POWER POLE, 76.0 FEET NORTH OF A TELEPHONE PEDESTAL, 40.0 FEET NORTH OF 130TH STREET, 36.0 FEET WEST OF A FIELD ENTRANCE, 1.0 FOOT SOUTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -84.921    12B = -84.944    09 = -84.882    03 = -84.800

Geodetic Position and Lincoln County Coordinates

<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)	44 14 28.17524	96 16 34.87870	497460.672	116221.682	151626.316	35424.440	569.148		2014	GPS3047
NAD83 (2007)	44 14 28.17511	96 16 34.87955	497460.610	116221.669	151626.297	35424.436	569.142		2007	GPS2300
NAD83 (1996)	44 14 28.17455	96 16 34.87904	497460.647	116221.612	151626.309	35424.418	569.181	C	2011	HTH75

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT_16-DF6616-3N-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT_16-DF6616-3N-22JUN2015.jpg</a>	N	Jun 22, 2015
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT_16-DF6616-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT_16-DF6616-2-22JUN2015.jpg</a>		Jun 22, 2015
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT_16-DF6616-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT_16-DF6616-1-22JUN2015.jpg</a>		Jun 22, 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\\_41586.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41586.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41586.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41586.pdf)



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

Mn/DOT Name: BENT MN

NGS Name: BENT

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0151](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/1025  
 USGS Quad: LAKE BENTON

<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>
SW	9	109 N	45 W	441542.16	961621.68	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>
1976	2015	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)	HORIZONTAL CONTROL DISK	MN

**Description:** (1980)                      **Stamping:** BENT 1976

IN LAKE BENTON, 0.95 MILE EAST ON TRUNK HIGHWAY 14 FROM THE SOUTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON TO TRUNK HIGHWAY 14 MILEPOINT 9.6, THEN 0.1 MILE SOUTH ON A CEMETERY ROAD, AT THE NORTH EDGE OF A CEMETERY, 10.0 FEET NORTH OF A FRONTAGE ROAD, 34.7 FEET NORTH OF A WEST ENTRANCE PILLAR, 39.7 FEET NORTH-NORTHWEST OF AN EAST ENTRANCE PILLAR, 48.19 FEET EAST OF BENT MN RM 2.

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	1877.276	0.016	572.195	0.005	2/1	2017	00000903
NGVD29	1876.482	0.007	571.953	0.002	1/2	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -85.020 12B = -85.039 09 = -84.970 03 = -84.885

Geodetic Position and Lincoln County Coordinates

<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)	44 15 42.15986	96 16 21.68484	498421.796	123714.310	151919.267	37708.197	546.277			2014	GPS3047	
NAD83 (1996)	44 15 42.15909	96 16 21.68524	498421.767	123714.232	151919.259	37708.173	546.326	C		2011	HTH75	
NAD83 (1986)	44 15 42.15823	96 16 21.66601	498423.167	123714.144	151919.685	37708.147			2	1986	17289	
NAD27	44 15 42.27238	96 16 20.52401							2	1977	15815	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT-PR0151-3S-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT-PR0151-3S-18JUN2015.jpg</a>	S	Jun 18, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT-PR0151-2-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT-PR0151-2-18JUN2015.jpg</a>		Jun 18, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT-PR0151-1-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT-PR0151-1-18JUN2015.jpg</a>		Jun 18, 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\\_17660.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17660.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17660.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17660.pdf)



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

Mn/DOT Name: BENT MNDT RM 1

NGS Name: BENT RM 1

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0152](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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>
SW	9	109 N	45 W	441542.16	961620.96	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>
1976	2015	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:** (1976)                      **Stamping:** BENT NO 1 1976

IN LAKE BENTON, 0.95 MILE EAST ON TRUNK HIGHWAY 14 FROM THE SOUTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 AT LAKE BENTON TO TRUNK HIGHWAY 14 MILEPOINT 9.6, THEN 0.1 MILE SOUTH ON A CEMETERY ROAD, 10.0 FEET NORTH OF THE NORTH FRONTAGE ROAD, 71.6 FEET EAST OF STATION BENT MNDT, 60.0 FEET EAST OF CEMETERY DRIVE SOUTH EXTENDED, 63.5 FEET NORTHEAST OF THE NORTHEAST CORNER OF A BRICK GATE 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	1874.353	0.007	571.304	0.002	1/2	1997	00000235
NGVD29	1873.566	0.016	571.064	0.005	2	1976	L24119

Geoid Separations(ft): GEOID18 = -85.020 12B = -85.039 09 = -84.970 03 = -84.885

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17661.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17661.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17661.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17661.pdf)



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

Mn/DOT Name: BENT MNDT RM 2

NGS Name: BENT RM 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0150](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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>
SW	9	109 N	45 W	441542.13	961622.34	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>
1976	2015	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:** (1976)                      **Stamping:** BENT NO 2 1976

IN LAKE BENTON, 0.95 MILE EAST ON TRUNK HIGHWAY 14 FROM THE SOUTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON TO TRUNK HIGHWAY 14 MILEPOINT 9.6, THEN 0.1 MILE EAST ON CEMETERY ROAD, 10.0 FEET NORTH OF A FRONTAGE ROAD, 48.2 FEET WEST OF STATION BENT MNDT, 61.0 FEET WEST OF CEMETERY DRIVE SOUTH EXTENDED, 59.1 FEET NORTHWEST OF THE NORTHWEST CORNER OF A BRICK PILLAR.

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	1877.680	0.016	572.318	0.005	2/1	2017	00000903
NGVD29	1876.919	0.016	572.086	0.005	2	1976	L24119

Geoid Separations(ft): GEOID18 = -85.016    12B = -85.036    09 = -84.967    03 = -84.882

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT_RM_2-PR0150-3S-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT_RM_2-PR0150-3S-18JUN2015.jpg</a>	S	Jun 18, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT_RM_2-PR0150-2-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT_RM_2-PR0150-2-18JUN2015.jpg</a>		Jun 18, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT_RM_2-PR0150-1-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BENT_RM_2-PR0150-1-18JUN2015.jpg</a>		Jun 18, 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\\_17662.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17662.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17662.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17662.pdf)



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

Mn/DOT Name: BERT

NGS Name: BERT

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5932](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096211/  
 USGS Quad: GISLASON 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	10	111 N	44 W	442623.64	960711.90		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>
2009	2015	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:** (2009)                      **Stamping:** BERT 2009

6.7 MILES SOUTHEAST OF IVANHOE, 7.9 MILES EAST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 WEST OF IVANHOE, TO TRUNK HIGHWAY 19 MILEPOINT 18.2, THEN 0.45 MILE SOUTH ALONG COUNTY ROAD 8, 61.0 FEET WEST OF COUNTY ROAD 8, 1.6 FEET EAST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -86.637    12B = -86.640    09 = -86.552    03 = -86.417

Geodetic Position and Lincoln County Coordinates

<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)	44 26 23.64094	96 07 11.89704	538318.364	188714.837	164079.766	57520.397	471.526		2018	GPS3119
NAD83 (2007)	44 26 23.64082	96 07 11.89795	538318.298	188714.825	164079.746	57520.394	471.560	C	2009	GPS2587
NAD83 (1996)	44 26 23.64046	96 07 11.89745	538318.334	188714.788	164079.757	57520.383	471.585	C	2017	HMNCORS

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BERT-DL5932-3W-08JUN2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BERT-DL5932-3W-08JUN2009.jpg</a>	W	Jun 8, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BERT-DL5932-2-08JUN2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BERT-DL5932-2-08JUN2009.jpg</a>		Jun 8, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BERT-DL5932-1-08JUN2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BERT-DL5932-1-08JUN2009.jpg</a>		Jun 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\\_86380.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_86380.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_86380.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_86380.pdf)



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

Mn/DOT Name: BOLTJES MN081

NGS Name: BOLTJES

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6617](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096234/  
 USGS Quad: ELKTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	47 W	441149.55	962652.44		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>
2002	2019	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	MN-081

**Description:** (2002)                      **Stamping:** BOLTJES 2001

9.2 MILES SOUTHWEST OF LAKE BENTON, 6.8 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, THEN 4.0 MILES SOUTH ON COUNTY ROAD 1, THEN 1.0 MILE SOUTH ON COUNTY ROAD 100, THEN 1.15 MILES WEST ON 100TH STREET/241ST STREET, 35.0 FEET NORTH OF 100TH STREET/241ST STREET.

**Station Notes**

THE MARK IS SET IN A 10.0 FEET BY 18.0 INCH CONCRETE MONUMENT WITH REBAR.

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

Geoid Separations(ft): GEOID18 = -84.731    12B = -84.744    09 = -84.662    03 = -84.537

**Geodetic Position and Lincoln County Coordinates**

<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)	44 11 49.54941	96 26 52.44312	452463.624	100209.563	137911.188	30543.936	508.264			2012	GPS2800	
NAD83 (2007)	44 11 49.54933	96 26 52.44411	452463.551	100209.555	137911.166	30543.934	508.296			2007	GPS2300	
NAD83 (1996)	44 11 49.54871	96 26 52.44362	452463.587	100209.492	137911.177	30543.914	508.328	C		2005	GPS2097	

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BOLTJES-DF6617-3N-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BOLTJES-DF6617-3N-23OCT2019.jpg</a>	N	Oct 23, 2019
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BOLTJES-DF6617-2-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BOLTJES-DF6617-2-23OCT2019.jpg</a>		Oct 23, 2019
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BOLTJES-DF6617-1-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BOLTJES-DF6617-1-23OCT2019.jpg</a>		Oct 23, 2019

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_41593.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41593.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41593.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41593.pdf)



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

Mn/DOT Name: BOTZ

NGS Name: BOTZ

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DN8891](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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>
NE	17	109 N	45 W	441501.82	961717.67	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>
2011	2011	GOOD	Horz=YES Vert=YES	YES		PROJECTS 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 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2011)                      **Stamping:** BOTZ 2010

IN LAKE BENTON, 0.85 MILE SOUTH ALONG TRUNK HIGHWAY 75 FROM THE SOUTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, AT TRUNK HIGHWAY 75 MILEPOINT 53.9, 62.0 FEET NORTHWEST OF TRUNK HIGHWAY 75, 92.0 FEET SOUTHWEST OF AN ENTRANCE, 69.0 FEET NORTHEAST OF AN ENTRANCE, 69.0 FEET NORTH OF A RIGHT-OF-WAY POST, 3.1 FEET SOUTHWEST OF A WITNESS POST.

**Station Pair:** EXTRA - LINCOLN, MN

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	1836.807	0.016	559.860	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -84.882    12B = -84.908    09 = -84.839    03 = -84.757

Geodetic Position and Lincoln County Coordinates

<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)	44 15 01.81849	96 17 17.67228	494346.003	119629.462	150676.963	36463.133	533.977			2014	GPS3047	
NAD83 (1996)	44 15 01.81783	96 17 17.67262	494345.978	119629.395	150676.956	36463.113	534.026	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BOTZ-DN8891-3NW-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BOTZ-DN8891-3NW-22JUN2015.jpg</a>	NW	Jun 22, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BOTZ-DN8891-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BOTZ-DN8891-2-22JUN2015.jpg</a>		Jun 22, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BOTZ-DN8891-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BOTZ-DN8891-1-22JUN2015.jpg</a>		Jun 22, 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\\_93213.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93213.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93213.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93213.pdf)



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

Mn/DOT Name: BROWN

NGS Name: BROWN

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2387](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096212/  
 USGS Quad: DEAD COON LAKE

<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	13	109 N	44 W	441500.67	960522.84	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	2016	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:** (2015)                      **Stamping:** BROWN 2015

2.8 MILES SOUTHEAST OF TYLER, 2.75 MILES SOUTHEAST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND COUNTY ROAD 7 IN TYLER, AT TRUNK HIGHWAY 14 MILEPOINT 18.90, 65.7 FEET NORTH-NORTHEAST OF TRUNK HIGHWAY 14, 56.8 FEET EAST-SOUTHEAST OF A FIELD ENTRANCE, 11.7 FEET SOUTH-SOUTHWEST OF A FENCE LINE, 1.5 FEET EAST-SOUTHEAST OF A WITNESS POST.

**Station Pair:** RODGERS - LINCOLN, MN

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	1681.824	0.016	512.621	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -86.056    12B = -86.096    09 = -85.994    03 = -85.879

Geodetic Position and Lincoln County Coordinates

<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)	44 15 00.66827	96 05 22.83502	546381.358	119562.396	166537.371	36442.691	486.424			2016	GPS3151	
NAD83 (1996)	44 15 00.66732	96 05 22.83524	546381.342	119562.300	166537.366	36442.662	486.478	C		2016	HTYLR	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BROWN-DQ2387-3NE-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BROWN-DQ2387-3NE-08JUL2015.jpg</a>	NE	Jul 8, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BROWN-DQ2387-2-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BROWN-DQ2387-2-08JUL2015.jpg</a>		Jul 8, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BROWN-DQ2387-1-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BROWN-DQ2387-1-08JUL2015.jpg</a>		Jul 8, 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\\_104034.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104034.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104034.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104034.pdf)



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

Mn/DOT Name: BUSS MN081

NGS Name: BUSS

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6618](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<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>
NE	21	110 N	44 W	441939.25	960824.11		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		FLUSH	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-081

**Description:** (2002)                      **Stamping:** BUSS 2001

3.0 MILES NORTH OF TYLER, 3.0 MILES NORTH ALONG COUNTY ROAD 113 FROM THE JUNCTION OF COUNTY ROAD 113 AND COUNTY ROAD 7 IN TYLER, 57.0 FEET SOUTH OF A POWER POLE, 121.0 FEET NORTH OF A POWER POLE, 54.0 FEET WEST OF COUNTY ROAD 113, 26.0 FEET NORTH OF A DIRT ROAD, 1.0 FOOT EAST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -86.066    12B = -86.112    09 = -860000    03 = -85.876

Geodetic Position and Lincoln County Coordinates

<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)	44 19 39.25344	96 08 24.10935	533142.140	147751.447	162502.049	45034.731	489.966		2012	GPS2800
NAD83 (2007)	44 19 39.25336	96 08 24.11023	533142.076	147751.439	162502.030	45034.729	489.990		2007	GPS2300
NAD83 (1996)	44 19 39.25284	96 08 24.10960	533142.122	147751.386	162502.044	45034.713	490.036	C	2003	GPS1883

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BUSS-DF6618-3W-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BUSS-DF6618-3W-04MAY2021.jpg</a>	W	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BUSS-DF6618-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BUSS-DF6618-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BUSS-DF6618-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/BUSS-DF6618-1-04MAY2021.jpg</a>		May 4, 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\\_41589.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41589.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41589.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41589.pdf)



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

Mn/DOT Name: C 112  
County: LINCOLN, MN (Sheet 1)

NGS Name: C 112

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441419.80	961805.70	2	

NGS ACRN: [PR0097](#) [Get Map](#)  
NGS Quad / Sta Num : 44096231/  
USGS Quad: VERDI

<u>Year Set</u>	<u>Last Recovery</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	2010	GOOD	Horz=NO Vert=YES	YES			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:** (2006) **Stamping:** C 112 1934

1.7 MILES SOUTHWEST OF LAKE BENTON, 1.7 MILES SOUTHWEST ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14, TO TRUNK HIGHWAY 75 MILEPOINT 53.05, 0.2 MILE NORTHWEST AND SOUTH ALONG AN OLD TRUNK HIGHWAY 75 ROAD BED, AT RAILROAD MILEPOINT 263.65, 72.5 FEET SOUTHEAST OF THE SOUTHEAST RAIL OF A RAILROAD, 17.0 FEET NORTHWEST OF AN OLD ROAD, 100.0 FEET NORTHEAST OF A RAILROAD BRIDGE, IN THE CENTER OF THE NORTHWEST HEADWALL OF AN OLD TRUNK HIGHWAY 75 BOX CULVERT AT A CREEK.

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	1751.119	0.016	533.742	0.005	2/1	2013	00000797
NGVD29	1750.259	0.016	533.480	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.790 12B = -84.826 09 = -84.737 03 = -84.659

\* No Horizontal Positions in the Database \*

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/C_112-PR0097-3NW-11OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/C_112-PR0097-3NW-11OCT2006.jpg</a>	NW	Oct 11, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/C_112-PR0097-2-11OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/C_112-PR0097-2-11OCT2006.jpg</a>		Oct 11, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/C_112-PR0097-1-11OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/C_112-PR0097-1-11OCT2006.jpg</a>		Oct 11, 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\\_17663.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17663.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17663.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17663.pdf)



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

Mn/DOT Name: C 390

NGS Name: C 390

County: LINCOLN, MN (Sheet 1)

NGS ACRN: <a href="#">AB8788</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096213/	
USGS Quad: TYLER	

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	7	109 N	44 W	441611.32	961047.57	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1994	2016	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
STEEL ROD (IN SLEEVE) (DEPTH 20 FT)	METAL ROD	NGS

Description: (2016)                      **Stamping:** C 390 1994

5.7 MILES EAST OF LAKE BENTON, 5.7 MILES EAST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 13.95, 72.5 FEET NORTH OF TRUNK HIGHWAY 14, 38.1 FEET EAST OF 240TH AVENUE, 4.3 FEET EAST OF AN UNDERGROUND CABLE JUNCTION BOX, 1.3 FEET ABOVE THE LEVEL OF THE HIGHWAY, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1773.120	0.016	540.448	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.600 12B = -85.640 09 = -85.548 03 = -85.439

Geodetic Position and Lincoln County Coordinates

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)	44 16 11.32032	96 10 47.57090	522735.177	126679.511	159330.001	38611.992	514.356			2016	GPS3151	
NAD83 (1996)	44 16 11.31934	96 10 47.57112	522735.161	126679.412	159329.996	38611.962	514.411	C		2016	HTYLR	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/C_390-AB8788-3N-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/C_390-AB8788-3N-18JUN2015.jpg</a>	N	Jun 18, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/C_390-AB8788-2-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/C_390-AB8788-2-18JUN2015.jpg</a>		Jun 18, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/C_390-AB8788-1-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/C_390-AB8788-1-18JUN2015.jpg</a>		Jun 18, 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\\_40028.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40028.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_40028.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40028.pdf)



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

Mn/DOT Name: CANBY TV AND RADIO MW MAST

NGS Name: CANBY TV AND RADIO MW MAST

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0737](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/1027  
 USGS Quad: CANBY SE

<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	22	113 N	45 W	443510.93	961623.30		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>
1966	1966	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	MICROWAVE MAST	NGS

**Description:** (1966)

**Stamping:**

8.5 MILES SOUTH OF CANBY, 8.5 MILES SOUTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 68 IN CANBY, 0.2 MILE EAST ON COUNTY ROAD 19. THE POINT OBSERVED IS THE TOP CENTER ON THE TV AND RADIO MICROWAVE MAST.

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

Geoid Separations(ft): GEOID18 = -84.977 12B = -84.987 09 = -84.908 03 = -84.816

Geodetic Position and Lincoln County Coordinates

<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)	44 35 10.93487	96 16 23.30382	498313.334	242083.910	151886.208	73787.323			4	1999	17648	
NAD83 (1986)	44 35 10.93527	96 16 23.28570	498314.645	242083.950	151886.608	73787.336			4	1986	17289	
NAD27	44 35 11.07031	96 16 22.12675							4	1977	15955	

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17664.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17664.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17664.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17664.pdf)



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

Mn/DOT Name: CLIPPER

NGS Name: CLIPPER

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2390](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<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	4	109 N	44 W	441611.09	960843.19	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	2016	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:** (2015)                      **Stamping:** CLIPPER 2015

0.75 MILE WEST OF TYLER, 0.5 MILE WEST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND COUNTY ROAD 7 (SOUTH TYLER STREET) IN TYLER, AT TRUNK HIGHWAY 14 MILEPOINT 15.65, 63.5 FEET NORTH OF TRUNK HIGHWAY 14, 52.7 FEET WEST OF A CABLE BOX, 12.4 FEET SOUTH OF A FENCE LINE, 1.5 FEET SOUTH OF A WITNESS POST.

**Station Pair:** HURD - LINCOLN, MN

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	1740.912	0.016	530.631	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.797    12B = -85.840    09 = -85.741    03 = -85.633

Geodetic Position and Lincoln County Coordinates

<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)	44 16 11.09409	96 08 43.19412	531785.989	126668.111	162088.694	38608.518	504.490			2016	GPS3151	
NAD83 (1996)	44 16 11.09312	96 08 43.19431	531785.975	126668.013	162088.689	38608.488	504.545	C		2016	HTYLR	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/CLIPPER-DQ2390-3N-14JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/CLIPPER-DQ2390-3N-14JUL2015.jpg</a>	N	Jul 14, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/CLIPPER-DQ2390-2-14JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/CLIPPER-DQ2390-2-14JUL2015.jpg</a>		Jul 14, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/CLIPPER-DQ2390-1-14JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/CLIPPER-DQ2390-1-14JUL2015.jpg</a>		Jul 14, 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\\_104035.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104035.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104035.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104035.pdf)



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

Mn/DOT Name: COREY

NGS Name: COREY

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5934](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096211/  
 USGS Quad: GISLASON LAKE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	12	111 N	44 W	442614.67	960446.65	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2009	2009	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 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2016)                      **Stamping:** COREY 2009

14.5 MILES WEST OF MARSHALL, 14.6 MILES SOUTHWEST-WEST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 59 AND 68 IN MARSHALL, TO TRUNK HIGHWAY 19 MILEPOINT 20.25, THEN 0.45 MILE SOUTH ALONG 130TH AVENUE, 40.3 FEET WEST OF 190TH AVENUE, 2.2 FEET EAST OF A NORTH-SOUTH FENCE LINE, 1.2 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	1563.609 0.016	476.589 0.005	2/1	2013 00000797

Geoid Separations(ft): GEOID18 = -86.913 12B = -86.916 09 = -86.814 03 = -86.673

Geodetic Position and Lincoln County Coordinates

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)	44 26 14.66887	96 04 46.65055	548859.294	187827.672	167292.647	57249.989	450.088			2012	GPS2800	
NAD83 (2007)	44 26 14.66858	96 04 46.65141	548859.232	187827.642	167292.628	57249.980	450.123	C		2009	GPS2587	
NAD83 (1996)	44 26 14.66804	96 04 46.65112	548859.253	187827.588	167292.635	57249.963	450.156	C		2009	HIVAN	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/COREY-DL5934-3W-19MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/COREY-DL5934-3W-19MAY2009.jpg</a>	W	May 19, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/COREY-DL5934-2-19MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/COREY-DL5934-2-19MAY2009.jpg</a>		May 19, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/COREY-DL5934-1-19MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/COREY-DL5934-1-19MAY2009.jpg</a>		May 19, 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\\_86371.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_86371.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_86371.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_86371.pdf)



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

Mn/DOT Name: CRIB MNDT

NGS Name: CRIB

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0818](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/1035  
 USGS Quad: LAKE BENTON 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	30	110 N	46 W	441819.72	962639.35		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>
1976	1976	GOOD	Horz=YES Vert=YES	NO			SEE DESCRIPTION

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

**Description:** (1976)                      **Stamping:** CRIB 1976

5.0 MILES NORTH-NORTHEAST OF ELKTON SOUTH DAKOTA, 0.4 MILE EAST ON TRUNK HIGHWAY 14 FROM THE WEST MINNESOTA STATE LINE, THEN 2.55 MILES NORTH ON A GRAVEL ROAD, 40.0 FEET EAST OF A GRAVEL ROAD, 28.6 FEET NORTH-NORTHWEST OF A GATE POST, 13.0 FEET NORTH OF A FIELD ENTRANCE, 4.7 FEET WEST-SOUTHWEST OF A GATE POST, 57.19 FEET SOUTH OF CRIB MNDT RM 1, 61.32 FEET NORTH OF CRIB MNDT RM 2, 5.3 FEET SOUTHWEST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -84.324    12B = -84.334    09 = -84.235    03 = -84.193

Geodetic Position and Lincoln County Coordinates

<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)	44 18 19. 72428	96 26 39. 35016	453503. 335	139721. 959	138228. 093	42587. 338	561. 017	2	1999	17648
NAD83 (1986)	44 18 19. 72400	96 26 39. 33125	453504. 710	139721. 928	138228. 512	42587. 329		2	1986	17289
NAD27	44 18 19. 84695	96 26 38. 17189						2	1977	15815

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17665.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17665.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17665.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17665.pdf)



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

Mn/DOT Name: CRIB MNDT RM 1

NGS Name: CRIB RM 1

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO8385](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/1035  
 USGS Quad: LAKE BENTON 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	30	110 N	46 W	441820.29	962639.31		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1976	1976	GOOD	Horz=YES Vert=YES	NO		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:** **Stamping:** CRIB NO 1 1976

5.0 MILES NORTH-NORTHEAST OF ELKTON SOUTH DAKOTA, 0.4 MILE EAST ON TRUNK HIGHWAY 14 FROM THE WEST MINNESOTA STATE LINE, THEN 2.55 MILES NORTH ON A GRAVEL ROAD, 42.5 FEET EAST OF THE CENTER OF A GRAVEL ROAD, 55.2 FEET NORTH OF THE NORTH GATE POST, 70.0 FEET NORTH OF THE CENTER OF A FIELD ENTRANCE, 1.5 FEET WEST OF A FENCE, 53.4 FEET NORTH OF A STEEL WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -84.324 12B = -84.337 09 = -84.235 03 = -84.193

\* 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\\_67340.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67340.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67340.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67340.pdf)



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

Mn/DOT Name: CRIB MNDT RM 2

NGS Name: CRIB RM 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO8386](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/1035  
 USGS Quad: LAKE BENTON 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	30	110 N	46 W	441819.12	962639.32		

<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>
1976	1976	GOOD	Horz=YES Vert=YES	NO		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:** **Stamping:** CRIB NO 2 1976

5.0 MILES NORTH-NORTHEAST OF ELKTON SOUTH DAKOTA, 0.4 MILE EAST ON TRUNK HIGHWAY 14 FROM THE WEST MINNESOTA STATE LINE, THEN 2.55 MILES NORTH ON A GRAVEL ROAD, 42.5 FEET EAST OF THE CENTER OF A GRAVEL ROAD, 49.0 FEET SOUTH OF THE CENTER OF A FIELD ENTRANCE, 33.0 FEET SOUTH OF THE SOUTH GATE POST, 1.6 FEET WEST OF A FENCE, 65.3 FEET SOUTH OF A STEEL WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -84.324 12B = -84.337 09 = -84.235 03 = -84.193

\* 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\\_67341.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67341.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67341.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67341.pdf)



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

Mn/DOT Name: CURTIS

NGS Name: CURTIS

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5935](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096241/  
 USGS Quad: LAKE BENTON NE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	112 N	45 W	442801.21	961545.11		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>
2009	2010	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)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2016)                      **Stamping:** CURTIS 2009

0.6 MILE NORTHWEST OF IVANHOE, 0.5 MILE NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 WEST OF IVANHOE, AT TRUNK HIGHWAY 75 MILEPOINT 69.5, 88.0 FEET WEST OF TRUNK HIGHWAY 75, 64.7 FEET SOUTH OF COUNTY ROAD 25, 6.5 FEET SOUTH OF AN ENTRANCE, 1.3 FEET EAST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.656    12B = -85.659    09 = -85.544    03 = -85.439

Geodetic Position and Lincoln County Coordinates

<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)	44 28 01.20821	96 15 45.11403	501079.605	198561.834	152729.369	60521.768	482.890					2012	GPS2800	
NAD83 (2007)	44 28 01.20805	96 15 45.11483	501079.547	198561.818	152729.351	60521.763	482.912	C				2009	GPS2587	
NAD83 (1996)	44 28 01.20757	96 15 45.11443	501079.576	198561.769	152729.360	60521.748	482.952	C				2009	HIVAN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/CURTIS-DL5935-3W-08JUN2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/CURTIS-DL5935-3W-08JUN2009.jpg</a>	W	Jun 8, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/CURTIS-DL5935-2-08JUN2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/CURTIS-DL5935-2-08JUN2009.jpg</a>		Jun 8, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/CURTIS-DL5935-1-08JUN2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/CURTIS-DL5935-1-08JUN2009.jpg</a>		Jun 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\\_86367.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_86367.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_86367.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_86367.pdf)



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

Mn/DOT Name: D 112

NGS Name: D 112

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0099](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441545.00	961712.00	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	2010	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:** (1976)                      **Stamping:** D 112 1934

IN LAKE BENTON, 60.0 FEET SOUTH OF THE SOUTH CORNER OF A RAILROAD STATION, 36.0 FEET SOUTHEAST OF A RAILROAD, 2.0 FEET SOUTHEAST OF A POLE.

**Station Notes**

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

**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	1755.085	0.016	534.951	0.005	2/0	1991	00000025
NGVD29	1754.212	0.016	534.685	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.944    12B = -84.964    09 = -84.892    03 = -84.806

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17666.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17666.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17666.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17666.pdf)



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

Mn/DOT Name: D 390

NGS Name: D 390

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AB8789](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

				<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>
NE	12	109 N	45 W	441611.84	961203.61	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>
1994	2015	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE) (DEPTH 18 FT)	METAL ROD	NGS

**Description:** (2016)                      **Stamping:** D 390 1994

4.3 MILES EAST OF LAKE BENTON, 4.5 MILES EAST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 12.95, 143.4 FEET WEST OF COUNTY ROAD 6, 70.9 FEET SOUTH OF TRUNK HIGHWAY 14, 3.6 FEET WEST OF AN UNDERGROUND CABLE JUNCTION BOX, 0.7 FOOT BELOW THE LEVEL OF THE HIGHWAY, 1.0 FOOT NORTH OF A WITNESS POST.

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	1783.123	0.016	543.497	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.479    12B = -85.512    09 = -85.426    03 = -85.321

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/D_390-AB8789-3S-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/D_390-AB8789-3S-18JUN2015.jpg</a>	S	Jun 18, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/D_390-AB8789-2-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/D_390-AB8789-2-18JUN2015.jpg</a>		Jun 18, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/D_390-AB8789-1-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/D_390-AB8789-1-18JUN2015.jpg</a>		Jun 18, 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\\_40029.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40029.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_40029.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40029.pdf)



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

Mn/DOT Name: DAGEL

NGS Name: DAGEL

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2396](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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	9	109 N	45 W	441544.11	961600.24	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>
2015	2016	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:** (2015)                      **Stamping:** DAGEL 2015

1.7 MILES EAST OF LAKE BENTON, 1.0 MILE EAST ALONG TRUNK HIGHWAY 14 FROM THE SOUTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 9.50, 58.3 FEET SOUTH OF TRUNK HIGHWAY 14, 25.4 FEET EAST OF A FIELD ENTRANCE, 1.5 FEET NORTH OF A WITNESS POST.

**Station Pair:** BARGE - LINCOLN, MN

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	1800.987	0.016	548.942	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.056    12B = -85.075    09 = -85.010    03 = -84.921

Geodetic Position and Lincoln County Coordinates

<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)	44 15 44.11260	96 16 00.24115	499982.450	123912.014	152394.955	37768.457	523.043			2016	GPS3151	
NAD83 (1996)	44 15 44.11162	96 16 00.24135	499982.435	123911.914	152394.951	37768.427	523.096	C		2016	HTYLR	

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DAGEL-DQ2396-3S-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DAGEL-DQ2396-3S-08JUL2015.jpg</a>	S	Jul 8, 2015
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DAGEL-DQ2396-2-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DAGEL-DQ2396-2-08JUL2015.jpg</a>		Jul 8, 2015
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DAGEL-DQ2396-1-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DAGEL-DQ2396-1-08JUL2015.jpg</a>		Jul 8, 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\\_104036.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104036.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104036.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104036.pdf)



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

Mn/DOT Name: DAHL

NGS Name: DAHL

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ3884](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096133/  
 USGS Quad: HENDRICKS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	30	113 N	46 W	443344.70	962623.77	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2016	2019	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 22 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2016) **Stamping:** DAHL 2016

3.85 MILES NORTH OF HENDRICKS, 4.2 MILES NORTH ALONG TRUNK HIGHWAY 271 FROM THE JUNCTION OF TRUNK HIGHWAY 271 AND COUNTY ROAD 17 WEST IN HENDRICKS, AT TRUNK HIGHWAY 271 MILEPOINT 7.45, 62.2 FEET WEST OF TRUNK HIGHWAY 271, 80.0 FEET NORTH OF A FIELD ENTRANCE, 12.9 FEET EAST OF A WITNESS POST.

**Station Pair:** EVJEN - LINCOLN, MN

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1784.580	0.016	543.941	0.005	2/1	2020	00000949

Geoid Separations(ft): GEOID18 = -83.625 12B = -83.638 09 = -83.523 03 = -83.520

Geodetic Position and Lincoln County Coordinates

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)	44 33 44.70077	96 26 23.76513	454835.139	233397.929	138634.028	71139.831	518.466	2020	C	2020	GPS3343	
NAD83 (1996)	44 33 44.70003	96 26 23.76546	454835.115	233397.854	138634.020	71139.808	518.534	2020	C	2020	HTH271	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DAHL-DQ3884-3W-29MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DAHL-DQ3884-3W-29MAR2016.jpg</a>	W	Mar 29, 2016
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DAHL-DQ3884-2-29MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DAHL-DQ3884-2-29MAR2016.jpg</a>		Mar 29, 2016
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DAHL-DQ3884-1-29MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DAHL-DQ3884-1-29MAR2016.jpg</a>		Mar 29, 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\\_104935.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104935.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104935.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104935.pdf)



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

Mn/DOT Name: DAKOTA  
County: LINCOLN, MN (Sheet 1)

NGS Name: DAKOTA

NGS ACRN: [DL5936](#) [Get Map](#)  
NGS Quad / Sta Num : 44096241/  
USGS Quad: LAKE BENTON NE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	45 W	442733.21	961835.88		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>
2009	2009	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 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2009)                      **Stamping:** DAKOTA 2009

2.85 MILES WEST OF IVANHOE, 2.35 MILES WEST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, AT TRUNK HIGHWAY 19 MILEPOINT 8.05, 60.2 FEET SOUTH OF TRUNK HIGHWAY 19, 20.4 FEET EAST OF A FIELD ENTRANCE EAST-WEST, 9.5 FEET NORTH OF A FENCE LINE, 1.5 FEET NORTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.289 12B = -85.292 09 = -85.180 03 = -85.082

Geodetic Position and Lincoln County Coordinates

<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)	44 27 33. 21239	96 18 35. 88209	488693. 151	195729. 461	148953. 970	59658. 459	498. 163		2012	GPS2800
NAD83 (2007)	44 27 33. 21225	96 18 35. 88289	488693. 093	195729. 447	148953. 953	59658. 455	498. 172	C	2009	GPS2587
NAD83 (1996)	44 27 33. 21175	96 18 35. 88240	488693. 129	195729. 396	148953. 964	59658. 439	498. 224	C	2009	HIVAN

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DAKOTA-DL5936-3S-20MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DAKOTA-DL5936-3S-20MAY2009.jpg</a>	S	May 20, 2009
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DAKOTA-DL5936-2-20MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DAKOTA-DL5936-2-20MAY2009.jpg</a>		May 20, 2009
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DAKOTA-DL5936-1-20MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DAKOTA-DL5936-1-20MAY2009.jpg</a>		May 20, 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\\_86366.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_86366.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_86366.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_86366.pdf)



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

Mn/DOT Name: DOWNING MN081

NGS Name: DOWNING

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6619](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096123/  
 USGS Quad: PORTER 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>
SW	33	113 N	44 W	443235.96	961016.28		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	2007	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)	SURVEY DISK	MN-081

**Description:** (2002)                      **Stamping:** DOWNING 2001

6.4 MILES SOUTHWEST OF PORTER, 6.1 MILES SOUTH ALONG COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND COUNTY ROAD 20 IN PORTER, THEN 0.2 MILE EAST ON A TOWNSHIP ROAD, 31.0 FEET SOUTH ON A TOWNSHIP ROAD, 3.1 FEET NORTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -86.142    12B = -86.128    09 = -86.033    03 = -85.932

Geodetic Position and Lincoln County Coordinates

<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)	44 32 35.95505	96 10 16.27961	524895.845	226402.138	159988.573	69007.510	430.273			2012	GPS2800	
NAD83 (2007)	44 32 35.95489	96 10 16.28065	524895.769	226402.122	159988.550	69007.505	430.320			2007	GPS2300	
NAD83 (1996)	44 32 35.95446	96 10 16.28040	524895.787	226402.078	159988.556	69007.491	430.348	C		2003	GPS1883	

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_41600.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41600.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41600.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41600.pdf)



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

Mn/DOT Name: DRAM 21 MN081

NGS Name: DRAM 21

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6620](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/  
 USGS Quad: LAKE BENTON 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	21	110 N	46 W	441938.32	962303.32		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		FLUSH	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-081

**Description:** (2002)                      **Stamping:** DRAM 21 2001

6.7 MILES NORTHWEST OF LAKE BENTON, 4.5 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, THEN 5.1 MILES WEST ON COUNTY ROAD 13, 115.0 FEET WEST OF COUNTY ROAD 101, 49.0 FEET SOUTH OF COUNTY ROAD 13, 40.0 FEET EAST OF A POWER POLE, 16.0 FEET EAST OF A FIELD ENTRANCE, 1.8 FEET NORTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -84.586    12B = -84.603    09 = -84.508    03 = -84.445

Geodetic Position and Lincoln County Coordinates

<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)	44 19 38. 32349	96 23 03. 32278	469225. 328	147653. 733	143020. 166	45004. 948	569. 636			2012	GPS2800	
NAD83 (2007)	44 19 38. 32338	96 23 03. 32359	469225. 269	147653. 721	143020. 148	45004. 944	569. 618			2007	GPS2300	
NAD83 (1996)	44 19 38. 32284	96 23 03. 32308	469225. 306	147653. 667	143020. 159	45004. 928	569. 657	C		2003	GPS1883	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DRAM_21-DF6620-3S-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DRAM_21-DF6620-3S-04MAY2021.jpg</a>	S	May 4, 2021
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DRAM_21-DF6620-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DRAM_21-DF6620-2-04MAY2021.jpg</a>		May 4, 2021
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DRAM_21-DF6620-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DRAM_21-DF6620-1-04MAY2021.jpg</a>		May 4, 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\\_41596.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41596.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41596.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41596.pdf)



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

Mn/DOT Name: DRIETZ MN081

NGS Name: DRIETZ

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6621](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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	36	110 N	46 W	441704.97	961923.95		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>
2002	2015	GOOD	Horz=YES 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)	REFERENCE MARK DISK	MN-081

**Description:** (2002)                      **Stamping:** DRIETZ 2001

2.4 MILES NORTHWEST OF LAKE BENTON, 1.8 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, THEN 1.0 MILE NORTH ON 170TH AVENUE, 35.0 FEET WEST OF 170TH AVENUE, 66.0 FEET WEST OF A POWER POLE WITH A GUY WIRE, 20.0 FEET NORTH OF THE JUNCTION OF 170TH AVENUE AND 160TH STREET, 15.0 FEET NORTH OF A FIELD ENTRANCE, 13.0 FEET SOUTH OF A POWER POLE WITH A GUY WIRE, 1.0 FOOT EAST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -84.793    12B = -84.819    09 = -84.744    03 = -84.665

Geodetic Position and Lincoln County Coordinates

<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)	44 17 04. 97417	96 19 23. 95225	485162. 344	132106. 348	147877. 778	40266. 095	572. 507			2014	GPS3047	
NAD83 (2007)	44 17 04. 97402	96 19 23. 95309	485162. 283	132106. 333	147877. 760	40266. 091	572. 502			2007	GPS2300	
NAD83 (1996)	44 17 04. 97349	96 19 23. 95258	485162. 320	132106. 279	147877. 771	40266. 074	572. 541	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DRIETZ-DF6621-3W-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DRIETZ-DF6621-3W-22JUN2015.jpg</a>	W	Jun 22, 2015
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DRIETZ-DF6621-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DRIETZ-DF6621-2-22JUN2015.jpg</a>		Jun 22, 2015
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DRIETZ-DF6621-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/DRIETZ-DF6621-1-22JUN2015.jpg</a>		Jun 22, 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\\_41592.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41592.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41592.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41592.pdf)



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

Mn/DOT Name: E 112

NGS Name: E 112

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0101](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441612.00	961528.00	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>
1934	1994	GOOD	Horz=NO Vert=NO	NO		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:** (1976)                      **Stamping:** E 112 1934

1.6 MILES NORTHEAST OF LAKE BENTON, 1.5 MILES EAST-NORTHEAST ALONG A RAILROAD FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND A RAILROAD IN LAKE BENTON, 44.5 FEET NORTHWEST OF THE NORTHWEST RAIL OF A RAILROAD, AT RAILROAD MILEPOINT 259.95, 225.0 FEET NORTHEAST OF A RAILROAD BRIDGE, 2.0 FEET SOUTH OF A RIGHT-OF-WAY FENCE, 1.0 FOOT 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)**

<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	1758.566	0.007	536.012	0.002	1/2	1997	00000235
NGVD29	1757.752	0.007	535.764	0.002	1/2	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -85.151    12B = -85.170    09 = -85.102    03 = -85.006

\* 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\\_17667.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17667.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17667.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17667.pdf)



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

Mn/DOT Name: E 390

NGS Name: E 390

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AB8791](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<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	3	109 N	45 W	441613.00	961430.00	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>
1994	2015	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	METAL ROD	NGS

**Description:** (2000)                      **Stamping:** E 390 1994

2.4 MILES EAST OF LAKE BENTON, 2.4 MILES EAST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, 144.0 FEET NORTH OF TRUNK HIGHWAY 14, 34.8 FEET WEST OF A GRAVEL ROAD, 3.9 FEET BELOW THE LEVEL OF THE HIGHWAY, 3.0 FEET SOUTH OF A POWER POLE, 1.0 FOOT EAST OF A WITNESS POST.

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	1779.258	0.007	542.319	0.002	1/2	1997	00000235

Geoid Separations(ft): GEOID18 = -85.243    12B = -85.262    09 = -85.193    03 = -85.092

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_40030.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40030.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_40030.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40030.pdf)



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

Mn/DOT Name: ET 1 JA USGS

NGS Name: 1 JA

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0814](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/1024  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441519.31	961501.32		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>
1976	2015	GOOD	Horz=YES 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	USGS

**Description:** (2016)                      **Stamping:** ET 1 JA 1961

1.9 MILES SOUTHEAST OF LAKE BENTON, 1.3 MILES EAST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75, IN LAKE BENTON, TO TRUNK HIGHWAY 14 MILEPOINT 9.8, THEN 0.60 MILE SOUTH ON COUNTY 108, THEN 0.50 MILE EAST ON 140TH STREET, 60.0 FEET SOUTH OF 140TH STREET, 52.0 FEET WEST OF A FIELD ROAD, 22.3 FEET SOUTH OF A FENCE CORNER, 0.6 FOOT EAST OF A FENCE LINE, 0.5 FEET EAST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.131 12B = -85.147 09 = -85.082 03 = -84.993

Geodetic Position and Lincoln County Coordinates

<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)	44 15 19.30434	96 15 01.31886	504271.223	121400.005	153702.176	37002.795	541.670	3	1999	17648
NAD83 (1986)	44 15 19.30428	96 15 01.30075	504272.541	121399.999	153702.578	37002.794		3	1986	17289
NAD27	44 15 19.42559	96 15 00.15051						3	1977	15976

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/1_JA-PR0814-3S-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/1_JA-PR0814-3S-18JUN2015.jpg</a>	S	Jun 18, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/1_JA-PR0814-2-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/1_JA-PR0814-2-18JUN2015.jpg</a>		Jun 18, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/1_JA-PR0814-1-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/1_JA-PR0814-1-18JUN2015.jpg</a>		Jun 18, 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\\_17668.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17668.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17668.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17668.pdf)



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

Mn/DOT Name: ET 2 JA USGS

NGS Name: 2 JA

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0776](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	44 W	441519.88	960808.13		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>
1961	1961	GOOD	Horz=YES 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	USGS

**Description:** (1961)                      **Stamping:** ET 2 JA 1961

1.6 MILES SOUTHWEST OF TYLER, 1.0 MILE SOUTH ALONG COUNTY ROAD 7 (TYLER STREET) FROM THE JUNCTION OF COUNTY ROAD 7 AND TRUNK HIGHWAY 14 IN TYLER, 320.0 FEET WEST OF COUNTY ROAD 7, 180.0 FEET NORTH OF A COUNTY ROAD, ON THE TOP OF A SPOIL BANK ON THE NORTH SIDE OF AN ABANDONED GRAVEL PIT.

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

Geoid Separations(ft): GEOID18 = -85.810 12B = -85.850 09 = -85.751 03 = -85.640

Geodetic Position and Lincoln County Coordinates

<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)	44 15 19.88297	96 08 08.13093	534345.813	121485.691	162868.930	37028.913	508.574	3	1999	17648
NAD83 (1986)	44 15 19.88294	96 08 08.11321	534347.103	121485.690	162869.323	37028.912		3	1986	17289
NAD27	44 15 20.02543	96 08 06.97460						3	1977	15976

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_42735.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_42735.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_42735.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_42735.pdf)



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

Mn/DOT Name: EVJEN

NGS Name: EVJEN

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ3883](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096133/  
 USGS Quad: HENDRICKS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	46 W	443325.40	962623.98	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>
2016	2019	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 23 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2016)                      **Stamping:** EVJEN 2016

3.4 MILES NORTH OF HENDRICKS, 3.7 MILES NORTH ALONG TRUNK HIGHWAY 271 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 271 AND COUNTY ROAD 17 IN HENDRICKS, AT TRUNK HIGHWAY 271 MILEPOINT 7.1, 64.3 FEET WEST OF TRUNK HIGHWAY 271, 49.2 FEET NORTH-NORTHEAST OF A POWER POLE WITH A GUY WIRE, 45.5 FEET NORTH OF A FIELD ENTRANCE, 14.4 FEET EAST OF A WITNESS POST.

**Station Pair:** DAHL - LINCOLN, MN

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	1789.583	0.016	545.466	0.005	2/1	2020	00000949

Geoid Separations(ft): GEOID18 = -83.632    12B = -83.648    09 = -83.530    03 = -83.523

Geodetic Position and Lincoln County Coordinates

<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)	44 33 25.40433	96 26 23.98209	454815.290	231443.641	138627.978	70544.163	519.989	2020	C	2020	GPS3343	
NAD83 (1996)	44 33 25.40359	96 26 23.98242	454815.266	231443.566	138627.970	70544.140	520.056	2020	C	2020	HTH271	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/EVJEN-DQ3883-3W-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/EVJEN-DQ3883-3W-23OCT2019.jpg</a>	W	Oct 23, 2019
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/EVJEN-DQ3883-2-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/EVJEN-DQ3883-2-23OCT2019.jpg</a>		Oct 23, 2019
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/EVJEN-DQ3883-1-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/EVJEN-DQ3883-1-23OCT2019.jpg</a>		Oct 23, 2019

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_104936.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104936.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104936.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104936.pdf)



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

Mn/DOT Name: EXTRA

NGS Name: EXTRA

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DN8892](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096231/  
 USGS Quad: VERDI

<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>
SW	17	109 N	45 W	441438.39	961737.65	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>
2010	2011	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 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2010)                      **Stamping:** EXTRA 2010

1.25 MILES SOUTH OF LAKE BENTON, 1.35 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE SOUTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, AT TRUNK HIGHWAY 75 MILEPOINT 53.4, 67.3 FEET SOUTHEAST OF TRUNK HIGHWAY 75, 9.0 FEET NORTH OF A FIELD ENTRANCE, 67.2 FEET NORTH OF A RIGHT-OF-WAY POST, 2.0 FEET SOUTHWEST OF A WITNESS POST.

**Station Pair:** BOTZ - LINCOLN, MN

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	1790.718	0.016	545.812	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -84.839    12B = -84.865    09 = -84.790    03 = -84.711

Geodetic Position and Lincoln County Coordinates

<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)	44 14 38.39068	96 17 37.65341	492890.730	117257.268	150233.395	35740.087	519.942			2014	GPS3047	
NAD83 (1996)	44 14 38.39000	96 17 37.65372	492890.707	117257.199	150233.388	35740.066	519.992	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/EXTRA-DN8892-3SE-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/EXTRA-DN8892-3SE-22JUN2015.jpg</a>	SE	Jun 22, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/EXTRA-DN8892-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/EXTRA-DN8892-2-22JUN2015.jpg</a>		Jun 22, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/EXTRA-DN8892-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/EXTRA-DN8892-1-22JUN2015.jpg</a>		Jun 22, 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\\_93382.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93382.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93382.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93382.pdf)



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

Mn/DOT Name: F 112

NGS Name: F 112

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0103](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441642.00	961314.00	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	1994	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:** (1976)                      **Stamping:** F 112 1934

3.5 MILES EAST ALONG A RAILROAD FROM THE RAILROAD STATION AT LAKE BENTON, 265.0 FEET EAST OF RAILROAD MILEPOST 258, 40.0 FEET WEST OF A ROAD, 35.0 FEET SOUTH OF A RAILROAD, 12.0 FEET NORTH OF A FENCE CORNER.

**Station Notes**

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

**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	1781.552	0.016	543.018	0.005	2/0	1991	00000025
NGVD29	1780.662	0.016	542.747	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -85.387    12B = -85.420    09 = -85.338    03 = -85.233

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17669.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17669.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17669.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17669.pdf)



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

Mn/DOT Name: F 390

NGS Name: F 390

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AB8793](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441555.82	961715.69	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>
1994	2016	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>
STEEL ROD (IN SLEEVE) (DEPTH 63 FT)	METAL ROD	NGS

**Description:** (2016)                      **Stamping:** F 390 1994

IN LAKE BENTON, AT THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, AT TRUNK HIGHWAY 75 MILEPOINT 55.10, AT THE NORTH END OF A ROAD SIDE PARK, 88.6 FEET SOUTH OF TRUNK HIGHWAY 14 EXTENDED, 54.8 FEET EAST OF NORTHBOUND LANES OF TRUNK HIGHWAY 75, 42.7 FEET NORTH-NORTHWEST OF A PLANTER, 18.7 FEET WEST-NORTHWEST OF THE SOUTHWEST END OF A CULVERT UNDER LAKESHORE ROAD, 20.0 FEET WEST OF LAKE SHORE DRIVE, 1.6 FEET BELOW THE LEVEL OF THE HIGHWAY, 2.0 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	1751.128	0.016	533.745	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -84.947    12B = -84.964    09 = -84.892    03 = -84.810

Geodetic Position and Lincoln County Coordinates

<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)	44 15 55.81535	96 17 15.68711	494491.915	125097.907	150721.437	38129.918	507.845			2016	GPS3151	
NAD83 (1996)	44 15 55.81462	96 17 15.68747	494491.888	125097.833	150721.429	38129.896	507.895	C		2016	HTYLR	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/F_390-AB8793-3E-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/F_390-AB8793-3E-22JUN2015.jpg</a>	E	Jun 22, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/F_390-AB8793-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/F_390-AB8793-2-22JUN2015.jpg</a>		Jun 22, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/F_390-AB8793-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/F_390-AB8793-1-22JUN2015.jpg</a>		Jun 22, 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\\_40031.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40031.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_40031.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40031.pdf)



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

Mn/DOT Name: FREE LUTH CH SPIRE

NGS Name: FREE LUTH CH SPIRE

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0744](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096133/1022  
 USGS Quad: HENDRICKS

<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	17	112 N	46 W	443031.45	962417.72		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>
1935	1935	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	CHURCH SPIRE	NGS

**Description:** (2016)

**Stamping:**

1.0 MILE EAST OF HENDRICKS, 1.0 MILE SOUTHEAST ON COUNTY ROAD 17 (RAILROAD STREET) FROM THE JUNCTION OF COUNTY ROAD 17 (RAILROAD STREET) AND TRUNK HIGHWAY 271 IN HENDRICKS, 0.4 MILE NORTH ON A CROSSROAD TOWARD TOWNSHIP ROAD 22. THE POINT OBSERVED IS THE TIP OF THE CHURCH SPIRE.

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

Geoid Separations(ft): GEOID18 = -84.150 12B = -84.163 09 = -84.048 03 = -83.993

Geodetic Position and Lincoln County Coordinates

<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)	44 30 31.44554	96 24 17.72054	463928.546	213807.966	141405.704	65168.798		4	1999	17648
NAD83 (1986)	44 30 31.44382	96 24 17.70340	463929.788	213807.790	141406.082	65168.745		4	1986	17289
NAD27	44 30 31.57500	96 24 16.53800						4	1938	03790

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17670.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17670.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17670.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17670.pdf)



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

Mn/DOT Name: G 112

NGS Name: G 112

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0106](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	44 W	441655.00	961049.00	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	1994	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:** (1934)                      **Stamping:** G 112 1934

2.2 MILES WEST ALONG A RAILROAD FROM THE TYLER RAILROAD STATION, 41.25 FEET EAST OF RAILROAD MILEPOST 256, 39.0 FEET SOUTH OF THE RAILROAD TRACKS, 30.0 FEET EAST OF A ROAD, 11.0 FEET NORTH OF A RIGHT-OF-WAY-FENCE CORNER.

**Station Notes**

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE. IN 1994 THE NATIONAL GEODETIC SURVEY (NGS) SEARCHED FOR, NO EVIDENCE OF THE MARK.

**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	1782.736	0.016	543.379	0.005	2/0	1991	00000025
NGVD29	1781.857	0.016	543.111	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -85.640 12B = -85.686 09 = -85.587 03 = -85.479

\* 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\\_17671.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17671.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17671.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17671.pdf)



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

Mn/DOT Name: GAGE TABLET USGS

NGS Name: GAGE TABLET

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096132/  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	45 W	443311.00	961633.00		

<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>
1965	2008	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (<10 FT)	SEE DESCRIPTION	USGS

**Description:** (2008)

**Stamping:**

10.8 MILES SOUTH OF CANBY, 10.8 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 68 IN CANBY, 1630.0 FEET SOUTH AND 55.0 FEET WEST OF THE CROSSROADS, 2.3 FEET EAST OF A FENCE.

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

Geoid Separations(ft): GEOID18 = -85.131 12B = -85.118 09 = -85.036 03 = -84.967

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17672.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17672.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17672.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17672.pdf)



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

Mn/DOT Name: GALPIN

NGS Name: GALPIN

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5938](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096244/  
 USGS Quad: LAKE BENTON NW

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	7	111 N	46 W	442636.97	962639.97	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2009	2016	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

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

**Description:** (2016)                      **Stamping:** GALPIN 2009

4.5 MILES SOUTH-SOUTHWEST OF HENDRICKS, 1.95 MILES WEST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 271 (THE JUNCTION IS 3.5 MILES SOUTH OF HENDRICKS), AT TRUNK HIGHWAY 19 MILEPOINT 0.45, 112.8 FEET EAST OF TRUNK HIGHWAY 19, 75.8 FEET NORTHEAST OF A DEAD END ROAD, ABOUT 250.0 FEET SOUTH OF 270TH STREET, 1.6 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	1837. 887 0. 016	560. 189 0. 005	2/1	2020 00000949

Geoid Separations(ft): GEOID18 = -84.157 12B = -84.147 09 = -84.062 03 = -84.016

Geodetic Position and Lincoln County Coordinates

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)	44 26 36. 97388	96 26 39. 97384	453567. 397	190081. 246	138247. 619	57936. 880	534. 537		2012	GPS2800
NAD83 (2007)	44 26 36. 97374	96 26 39. 97488	453567. 321	190081. 233	138247. 596	57936. 876	534. 562	C	2009	GPS2587
NAD83 (1996)	44 26 36. 97325	96 26 39. 97437	453567. 358	190081. 183	138247. 607	57936. 860	534. 604	C	2009	HIVAN

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GALPIN-DL5938-3E-20MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GALPIN-DL5938-3E-20MAY2009.jpg</a>	E	May 20, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GALPIN-DL5938-2-20MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GALPIN-DL5938-2-20MAY2009.jpg</a>		May 20, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GALPIN-DL5938-1-20MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GALPIN-DL5938-1-20MAY2009.jpg</a>		May 20, 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\\_86376.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_86376.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_86376.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_86376.pdf)



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

Mn/DOT Name: GARBERS

NGS Name: GARBERS

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2391](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441611.92	961209.49	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>
2015	2016	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:** (2015)                      **Stamping:** GARBERS 2015

4.6 MILES EAST OF LAKE BENTON, 4.4 MILES EAST ALONG TRUNK HIGHWAY 14 FROM THE SOUTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK 14 MILEPOINT 12.85, 64.4 FEET SOUTH OF TRUNK HIGHWAY 14, 37.4 FEET WEST OF A FIELD ENTRANCE, 1.5 FEET EAST OF A WITNESS POST.

**Station Pair:**    HOLDT - LINCOLN, MN

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	1784.445	0.016	543.900	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.472    12B = -85.502    09 = -85.420    03 = -85.312

Geodetic Position and Lincoln County Coordinates

<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)	44 16 11.92438	96 12 09.48955	516773.986	126735.193	157513.026	38628.964	517.840			2016	GPS3151	
NAD83 (1996)	44 16 11.92342	96 12 09.48977	516773.970	126735.096	157513.021	38628.934	517.893	C		2016	HTYLR	

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GARBERS-DQ2391-3S-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GARBERS-DQ2391-3S-08JUL2015.jpg</a>	S	Jul 8, 2015
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GARBERS-DQ2391-2-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GARBERS-DQ2391-2-08JUL2015.jpg</a>		Jul 8, 2015
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GARBERS-DQ2391-1-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GARBERS-DQ2391-1-08JUL2015.jpg</a>		Jul 8, 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\\_104038.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104038.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104038.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104038.pdf)



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

Mn/DOT Name: GISLASON MNDT

NGS Name: GISLASON

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AB9860](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096211/  
 USGS Quad: GISLASON 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	2	111 N	44 W	442640.06	960706.19	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>
1994	2015	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 4 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	METAL ROD	MNDT

**Description:** (2008)                      **Stamping:** GISLASON 1994

6.5 MILES SOUTHEAST OF IVANHOE, 8.0 MILES EAST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, AT TRUNK HIGHWAY 19 MILEPOINT 18.3, 152.8 FEET SOUTH-SOUTHWEST OF TRUNK HIGHWAY 19, 47.0 FEET NORTH OF A COUNTY ROAD 8 ACCESS ROAD, 32.0 FEET EAST OF AN ENTRANCE, 300.0 FEET EAST OF COUNTY ROAD 8, 161.0 FEET EAST-NORTHEAST OF A POWER POLE, 29.5 FEET NORTHWEST OF THE NORTH LEG OF A TYLER ARROW SIGN POST, 2.8 FEET NORTH OF A WITNESS POST.

**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	1635.577	0.016	498.525	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -86.660 12B = -86.663 09 = -86.571 03 = -86.434

**Geodetic Position and Lincoln County Coordinates**

<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)	44 26 40.06338	96 07 06.19188	538729.307	190378.793	164205.021	58027.572	472.100			2012	GPS2800	
NAD83 (2007)	44 26 40.06333	96 07 06.19282	538729.239	190378.788	164205.001	58027.571	472.137			2007	GPS2300	
NAD83 (1996)	44 26 40.06282	96 07 06.19241	538729.269	190378.736	164205.010	58027.555	472.168	B		2005	GPS2036	

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GISLASON-AB9860-3N-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GISLASON-AB9860-3N-28APR2009.jpg</a>	N	Apr 28, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GISLASON-AB9860-2-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GISLASON-AB9860-2-28APR2009.jpg</a>		Apr 28, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GISLASON-AB9860-1-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GISLASON-AB9860-1-28APR2009.jpg</a>		Apr 28, 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\\_17673.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17673.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17673.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17673.pdf)



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

Mn/DOT Name: GREGG MN081

NGS Name: GREGG

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6622](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096244/  
 USGS Quad: LAKE BENTON 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	21	112 N	46 W	442950.01	962302.36		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>
2002	2021	GOOD	Horz=YES 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	MN-081

**Description:** (2002)                      **Stamping:** GREGG 2001

2.0 MILES EAST OF HENDRICKS, 2.0 MILES EAST ALONG COUNTY ROAD 17 FROM THE JUNCTION OF COUNTY ROAD 17 AND TRUNK HIGHWAY 271 IN HENDRICKS, 0.35 MILE SOUTH ON COUNTY ROAD 101, 14.0 FEET SOUTH OF A FIELD ENTRANCE, 50.0 FEET WEST OF COUNTY ROAD 101, 131.0 FEET NORTH OF A MINNESOTA WILDLIFE SIGN, 1.5 FEET EAST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -84.416    12B = -84.426    09 = -84.314    03 = -84.252

Geodetic Position and Lincoln County Coordinates

<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)	44 29 50.00826	96 23 02.35856	469384.256	209602.758	143068.607	63887.048	514.032		2012	GPS2800
NAD83 (2007)	44 29 50.00822	96 23 02.35949	469384.189	209602.754	143068.587	63887.047	514.056		2007	GPS2300
NAD83 (1996)	44 29 50.00777	96 23 02.35900	469384.224	209602.708	143068.598	63887.033	514.092	C	2009	HIVAN

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GREGG-DF6622-3W-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GREGG-DF6622-3W-03MAY2021.jpg</a>	W	May 3, 2021
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GREGG-DF6622-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GREGG-DF6622-2-03MAY2021.jpg</a>		May 3, 2021
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GREGG-DF6622-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/GREGG-DF6622-1-03MAY2021.jpg</a>		May 3, 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\\_41597.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41597.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41597.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41597.pdf)



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

Mn/DOT Name: H 112

NGS Name: H 112

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0108](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<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>
SW	3	109 N	44 W	441634.00	960809.00	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	1961	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:** (1961) **Stamping:** H 112 1934

IN TYLER, AT THE INTERSECTION OF LINCOLN STREET AND TYLER STREET.

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	1747.119	0.016	532.523	0.005	2/0	1991	00000025
NGVD29	1746.256	0.007	532.260	0.002	1	1934	L33 MINN

Geoid Separations(ft): GEOID18 = -85.876 12B = -85.922 09 = -85.817 03 = -85.705

\* 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\\_17674.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17674.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17674.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17674.pdf)



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

Mn/DOT Name: H 112 RESET

NGS Name: H 112 RESET

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0109](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	43 W	441635.00	960809.00		

<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>
1949	2008	NOT FOUND	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MAT FOUNDATION (NON-PAVEMENT)	BENCH MARK DISK	CNWRR

**Description:** (1949)

**Stamping:** H 112

IN TYLER, 0.1 MILE WEST ALONG A RAILROAD FROM THE COUNTY ROAD 7 CROSSING IN TYLER, 0.05 MILE WEST OF THE RAILWAY DEPOT, 6.0 FEET NORTH OF THE CENTER OF THE RAILROAD TRACK, IN A MASONRY FOUNDATION.

**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 = -85.876 12B = -85.922 09 = -85.820 03 = -85.708

\* 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\\_51601.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_51601.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_51601.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_51601.pdf)



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

Mn/DOT Name: HANS MN081

NGS Name: HANS

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6623](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	46 W	443642.94	962016.93		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		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	MN-081

**Description:** (2002)                      **Stamping:** HANS 2001

8.6 MILES SOUTHWEST OF PORTER, 3.0 MILES WEST ON COUNTY ROAD 20 FROM THE JUNCTION OF COUNTY ROAD 20 AND TRUNK HIGHWAY 75 WEST OF IN PORTER, 0.25 MILE SOUTH ALONG COUNTY ROAD 4 (160TH STREET), 43.0 FEET WEST OF A TOWNSHIP ROAD, 103.0 FEET NORTHWEST OF A POWER POLE, 24.5 FEET SOUTH OF A FIELD ENTRANCE, 215.0 FEET SOUTHWEST OF A POWER POLE, 1.5 FEET EAST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -84.449 12B = -84.458 09 = -84.367 03 = -84.285

Geodetic Position and Lincoln County Coordinates

<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)	44 36 42.94204	96 20 16.92679	481412.479	251410.431	146734.817	76630.053	479.660			2014	GPS3047	
NAD83 (2007)	44 36 42.94192	96 20 16.92785	481412.402	251410.419	146734.794	76630.049	479.690			2007	GPS2300	
NAD83 (1996)	44 36 42.94152	96 20 16.92740	481412.434	251410.378	146734.804	76630.037	479.724	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HANS-DF6623-3W-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HANS-DF6623-3W-03MAY2021.jpg</a>	W	May 3, 2021
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HANS-DF6623-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HANS-DF6623-2-03MAY2021.jpg</a>		May 3, 2021
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HANS-DF6623-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HANS-DF6623-1-03MAY2021.jpg</a>		May 3, 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\\_41608.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41608.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41608.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41608.pdf)



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

Mn/DOT Name: HANSOL

NGS Name: HANSOL

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ3880](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096133/  
 USGS Quad: HENDRICKS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	7	112 N	46 W	443117.12	962528.23	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2016	2019	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 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2016)                      **Stamping:** HANSOL 2016

1.0 MILE NORTH OF HENDRICKS, 1.0 MILE NORTH ALONG TRUNK HIGHWAY 271 FROM THE JUNCTION OF TRUNK HIGHWAY 271 AND COUNTY ROAD 17 WEST IN HENDRICKS, AT TRUNK HIGHWAY 271 MILEPOINT 4.3, 56.2 FEET WEST OF TRUNK HIGHWAY 271, 18.6 FEET EAST OF A POWER POLE.

**Station Pair:** RICKS - LINCOLN, MN

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1770.115	0.016	539.532	0.005	2/1	2020	00000949

Geoid Separations(ft): GEOID18 = -83.904    12B = -83.917    09 = -83.799    03 = -83.766

Geodetic Position and Lincoln County Coordinates

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)	44 31 17.12038	96 25 28.23323	458827.188	218443.069	139850.807	66581.581	513.988	2020	C	2020	GPS3343	
NAD83 (1996)	44 31 17.11965	96 25 28.23357	458827.163	218442.995	139850.799	66581.558	514.054	2020	C	2020	HTH271	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HANSOL-DQ3880-3N-29MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HANSOL-DQ3880-3N-29MAR2016.jpg</a>	N	Mar 29, 2016
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HANSOL-DQ3880-2-29MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HANSOL-DQ3880-2-29MAR2016.jpg</a>		Mar 29, 2016
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HANSOL-DQ3880-1-29MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HANSOL-DQ3880-1-29MAR2016.jpg</a>		Mar 29, 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\\_104937.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104937.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104937.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104937.pdf)



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

Mn/DOT Name: HANSON MN081

NGS Name: HANSON

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6624](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096133/  
 USGS Quad: HENDRICKS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	46 W	443519.44	962243.98		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	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)	SURVEY DISK	MN-081

**Description:** (2002)                      **Stamping:** HANSON 2001

6.0 MILES NORTHEAST OF HENDRICKS, 2.3 MILES NORTH ALONG TRUNK HIGHWAY 271 FROM THE JUNCTION OF TRUNK HIGHWAY 271 AND COUNTY ROAD 17 IN HENDRICKS, THEN 2.0 MILES EAST ON COUNTY ROAD 18, THEN 3.1 MILES NORTH ON COUNTY ROAD 101, 16.0 FEET SOUTH OF A FIELD ENTRANCE, 50.0 FEET WEST OF A TOWNSHIP ROAD, 104.0 FEET SOUTHWEST OF A POWER POLE, 1.0 FOOT EAST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -84.117    12B = -84.114    09 = -84.019    03 = -83.976

Geodetic Position and Lincoln County Coordinates

<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)	44 35 19.43558	96 22 43.98034	470762.208	242964.843	143488.608	74055.832	494.606			2012	GPS2800	
NAD83 (2007)	44 35 19.43545	96 22 43.98134	470762.136	242964.830	143488.586	74055.828	494.637			2007	GPS2300	
NAD83 (1996)	44 35 19.43504	96 22 43.98088	470762.169	242964.788	143488.596	74055.816	494.673	C		2003	GPS1883	

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_41607.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41607.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41607.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41607.pdf)



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

Mn/DOT Name: HANSONVILLE LUTH CH SPIRE

NGS Name: HANSONVILLE LUTH CH SPIRE

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0742](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096133/1023  
 USGS Quad: HENDRICKS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	46 W	443505.39	962359.22		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>
1935	1935	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	CHURCH SPIRE	NGS

**Description:** (1935)

**Stamping:**

5.5 MILES NORTHEAST OF HENDRICKS, 2.5 MILES NORTH ON COUNTY ROAD 1 FROM THE JUNCTION OF COUNTY ROAD 1 AND TRUNK HIGHWAY 271 IN HENDRICKS, 0.9 MILE EAST ON A CROSSROAD, 0.8 NORTH ON A TEE-ROAD, 207.0 FEET WEST ON A TEE-ROAD, EAST OF A CEMETERY. THE POINT OBSERVED WAS THE TIP OF THE CHURCH SPIRE.

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

Geoid Separations(ft): GEOID18 = -83.940 12B = -83.943 09 = -83.848 03 = -83.819

Geodetic Position and Lincoln County Coordinates

<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)	44 35 05.39132	96 23 59.22273	465314.283	241550.611	141828.077	73624.774		4	1999	17648
NAD83 (1986)	44 35 05.38955	96 23 59.20654	465315.455	241550.430	141828.434	73624.718		4	1986	17289
NAD27	44 35 05.52200	96 23 58.03500						4	1938	03790

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17675.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17675.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17675.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17675.pdf)



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

Mn/DOT Name: HARDER

NGS Name: HARDER

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0813](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/1002  
 USGS Quad: LAKE BENTON

<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	6	109 N	45 W	441634.12	961813.07	1	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>
1934	2002	GOOD	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)	TRIANGULATION STATION DISK	NGS

**Description:** (1976)                      **Stamping:** HARDER 1935

1.5 MILES NORTHWEST OF LAKE BENTON, ON A HILL IN A PASTURE, 1.5 MILES WEST ON TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 (NORTH) AND TRUNK HIGHWAY 75 IN LAKE BENTON, TO THE TOP OF A HILL AND A FARM DRIVE, THEN 0.2 MILE NORTH ON A FARM DRIVE, THEN 0.5 MILE EASTERLY ACROSS A FIELD AND A PASTURE, 0.1 MILE SOUTH OF A GROVE, 83.89 FEET NORTH OF HARDER RM 1, 87.10 FEET EAST OF HARDER RM 2, 3.4 FEET WEST OF A WITNESS POST.

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	1983.569	0.007	604.593	0.002	1/2	1997	00000235

Geoid Separations(ft): GEOID18 = -84.878 12B = -84.898 09 = -84.833 03 = -84.750

Geodetic Position and Lincoln County Coordinates

<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)	44 16 34.12395	96 18 13.07090		490317.595	128979.062	149449.102	39312.897	578.664		2012	GPS2800
NAD83 (2007)	44 16 34.12398	96 18 13.07186		490317.526	128979.065	149449.081	39312.898	578.694		2007	GPS2300
NAD83 (1996)	44 16 34.12352	96 18 13.07197		490317.518	128979.018	149449.078	39312.883	578.729	C	1999	17648
NAD83 (1986)	44 16 34.12343	96 18 13.05351		490318.861	128979.008	149449.488	39312.880		2	1996	GPS938
NAD27	44 16 34.23900	96 18 11.90700							2	1938	03790

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17676.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17676.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17676.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17676.pdf)



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

Mn/DOT Name: HARDER AZ MK

NGS Name: HARDER AZ MK

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO8610](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/1002  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441631.00	961812.00		

<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	1966	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)	AZIMUTH MARK DISK	NGS

**Description:**

**Stamping:** HARDER 1935

1.3 MILES NORTHWEST OF LAKE BENTON, 1.3 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, 0.6 MILE WEST ON NORWEGIAN CREEK ROAD, 0.5 MILE SOUTH ON A TEE-ROAD, SOUTH OF STATION HARDER, FROM THE STATION, 0.8 MILE SOUTH TO A GATE, GO THRU THE GATE AND FOLLOW THE ROAD TO TRUNK HIGHWAY 14, 300.0 FEET SOUTH ON A DIRT ROAD TO HARDER AZ MK IN AN EAST ROW FENCE LINE, 20.0 FEET EAST OF THE CENTERLINE OF A NORTH-SOUTH ROAD.

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

Geoid Separations(ft): GEOID18 = -84.878 12B = -84.898 09 = -84.833 03 = -84.750

\* 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\\_67343.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67343.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67343.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67343.pdf)



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

Mn/DOT Name: HARDER AZ MK 2

NGS Name: HARDER AZ MK 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0141](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/1002  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441612.72	961900.58	1	2

<u>Year Set</u>	<u>Last Recovery</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	2015	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)	AZIMUTH MARK DISK	NGS

**Description:** (1998)                      **Stamping:** HARDER 1935 AZ 2 1966

1.5 MILES NORTHWEST OF LAKE BENTON, 1.5 MILES WEST ON TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, ON THE TOP OF A HILL AND FARM DRIVE NORTH, 130.0 FEET NORTHEAST OF TRUNK HIGHWAY 14, 25.0 FEET EAST OF A FARM ENTRANCE.

**Station Notes**

THE DISK WAS TURNED IN TO THE OFFICE.

**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	1962.115	0.007	598.054	0.002	1/2	1997	00000235
NGVD29	1961.387	0.016	597.832	0.005	2	1976	L24119

Geoid Separations(ft): GEOID18 = -84.773    12B = -84.803    09 = -84.731    03 = -84.652

**Geodetic Position and Lincoln County Coordinates**

<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)	44 16 12.72207	96 19 00.58246	486859.267	126813.443	148395.001	38652.815	572.229	2	1999	17648		
NAD83 (1986)	44 16 12.72197	96 19 00.56404	486860.607	126813.432	148395.410	38652.811		2	1986	17289		
NAD27	44 16 12.83779	96 18 59.41667						2	1977	15815		

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17677.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17677.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17677.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17677.pdf)



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

Mn/DOT Name: HARDER RM 1

NGS Name: HARDER RM 1

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AB6848](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441633.31	961812.89	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>
1935	1994	GOOD	Horz=NO Vert=NO	NO		PROJECTS 1 IN.	NO MAG MATERIAL

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

**Description:** (2000)

**Stamping:** HARDER NO 1 1935

1.3 MILES NORTHWEST OF LAKE BENTON, 1.3 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, 0.6 MILE WEST ON NORWEGIAN CREEK ROAD, 0.5 MILE SOUTH ON A TEE-ROAD, 83.7 FEET SOUTH OF TRIANGULATION STATION HARDER.

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	1978.694	0.007	603.107	0.002	1/2	1997	00000235

Geoid Separations(ft): GEOID18 = -84.875 12B = -84.895 09 = -84.829 03 = -84.747

\* 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\\_40032.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40032.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_40032.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40032.pdf)



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

Mn/DOT Name: HARDER RM 2

NGS Name: HARDER RM 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AB6849](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441634.37	961814.22	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>
1935	1994	GOOD	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	NO MAG MATERIAL

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

**Description:** (2000)

**Stamping:** HARDER NO 2 1935

1.3 MILES NORTHWEST OF LAKE BENTON, 1.5 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, THEN 0.30 MILE NORTH ALONG A DRIVEWAY, THEN 0.70 MILE NORTHEAST ACROSS A FIELD TO THE TOP OF A KNOLL, 86.9 FEET WEST OF TRIANGULATION STATION HARDER.

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	1980.672	0.007	603.710	0.002	1/2	1997	00000235

Geoid Separations(ft): GEOID18 = -84.875 12B = -84.895 09 = -84.829 03 = -84.747

\* 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\\_40033.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40033.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_40033.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40033.pdf)



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

Mn/DOT Name: HAWKS MN081

NGS Name: HAWKS

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6625](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096214/  
 USGS Quad: ARCO

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	1	111 N	45 W	442735.42	961204.21	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2001	2011	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MN-081

**Description:** (2012)                      **Stamping:** HAWKS 2001

2.5 MILES EAST OF IVANHOE, 3.0 MILES EAST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, AT TRUNK HIGHWAY 19 MILEPOST 13.45, 11.5 FEET NORTHWEST OF A POWER POLE, 42.0 FEET WEST OF 230TH AVENUE, 70.0 FEET SOUTH OF TRUNK HIGHWAY 19, 1.5 FEET NORTH OF A WITNESS POST. STATION HAWKS MN081 IS TIPPED TO THE NORTHWEST SLIGHTLY.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1653.583	0.016	504.013	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -86.112    12B = -86.112    09 = -86.007    03 = -85.882

Geodetic Position and Lincoln County Coordinates

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)	44 27 35.42202	96 12 04.20539	517103.093	195957.100	157613.338	59727.843	477.764			2012	GPS2800	
NAD83 (2007)	44 27 35.42183	96 12 04.20633	517103.025	195957.081	157613.317	59727.838	477.798			2007	GPS2300	
NAD83 (1996)	44 27 35.42139	96 12 04.20608	517103.043	195957.036	157613.323	59727.824	477.827	C		2011	HTH75	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HAWKS-DF6625-3S-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HAWKS-DF6625-3S-28APR2009.jpg</a>	S	Apr 28, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HAWKS-DF6625-2-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HAWKS-DF6625-2-28APR2009.jpg</a>		Apr 28, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HAWKS-DF6625-1-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HAWKS-DF6625-1-28APR2009.jpg</a>		Apr 28, 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\\_41609.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41609.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41609.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41609.pdf)



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

Mn/DOT Name: HENDRICKS MUNICIPAL TANK

NGS Name: HENDRICKS MUNICIPAL TANK

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0743](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096133/1024  
 USGS Quad: HENDRICKS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	112 N	46 W	443024.84	962528.67		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>
1935	2016	GOOD	Horz=NO Vert=NO	YES			NO MAG MATERIAL

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	ELEVATED TANK	NGS

**Description:** (2016)

**Stamping:**

IN HENDRICKS, AT THE JUNCTION OF TRUNK HIGHWAY 271 AND COUNTY ROAD 17 IN HENDRICKS, AT THE INTERSECTION OF TRUNK HIGHWAY 271 (DIVISION STREET) AND GARFIELD STREET, 100.0 FEET WEST OF TRUNK HIGHWAY 271, 75.0 FEET SOUTH OF COUNTY ROAD 17 (GARFIELD STREET). THE STATION HENDRICKS MUNICIPAL TANK OBSERVED IS THE FINAL AT THE TOP OF THE MUNICIPAL WATER SUPPLY TANK.

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

Geoid Separations(ft): GEOID18 = -83.993 12B = -84.002 09 = -83.888 03 = -83.845

Geodetic Position and Lincoln County Coordinates

<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)	44 30 24. 83938	96 25 28. 67134	458785. 221	213148. 217	139838. 015	64967. 706		4	1999	17648
NAD83 (1986)	44 30 24. 83841	96 25 28. 65237	458786. 596	213148. 116	139838. 434	64967. 676		4	1986	17289
NAD27	44 30 24. 97100	96 25 27. 48700						4	1938	03790

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS_MUNICIPAL_TANK-PR0743-3S-23MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS_MUNICIPAL_TANK-PR0743-3S-23MAR2016.jpg</a>	S	Mar 23, 2016
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\\_17678.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17678.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17678.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17678.pdf)



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

Mn/DOT Name: HOLDT

NGS Name: HOLDT

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2392](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<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>
SW	1	109 N	45 W	441613.07	961237.95	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	2016	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:** (2015)                      **Stamping:** HOLDT 2015

4.55 MILES EAST OF LAKE BENTON, 4.0 MILES EAST ALONG TRUNK HIGHWAY 14 FROM THE SOUTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 12.45, 69.2 FEET NORTH OF TRUNK HIGHWAY 14, 4.5 FEET SOUTH OF A FENCE CORNER, 1.5 FEET SOUTH OF A WITNESS POST.

**Station Pair:** GARBERS - LINCOLN, MN

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	1775.344	0.016	541.126	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.426    12B = -85.456    09 = -85.374    03 = -85.269

Geodetic Position and Lincoln County Coordinates

<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)	44 16 13.07478	96 12 37.95183	514702.738	126850.178	156881.708	38664.012	515.119			2016	GPS3151	
NAD83 (1996)	44 16 13.07381	96 12 37.95204	514702.723	126850.080	156881.704	38663.982	515.171	C		2016	HTYLR	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HOLDT-DQ2392-3N-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HOLDT-DQ2392-3N-08JUL2015.jpg</a>	N	Jul 8, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HOLDT-DQ2392-2-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HOLDT-DQ2392-2-08JUL2015.jpg</a>		Jul 8, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HOLDT-DQ2392-1-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HOLDT-DQ2392-1-08JUL2015.jpg</a>		Jul 8, 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\\_104039.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104039.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104039.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104039.pdf)



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

Mn/DOT Name: HOPE 22 MN081

NGS Name: HOPE 22

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6626](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096224/  
 USGS Quad: RUTHTON 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	22	109 N	44 W	441425.85	960744.69		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	2014	GOOD	Horz=YES 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	MN-081

**Description:** (2002)                      **Stamping:** HOPE 22 2001

2.6 MILES SOUTH OF TYLER, 2.15 MILES SOUTH ALONG COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 TRUNK HIGHWAY 14 IN TYLER, 36.5 FEET EAST OF COUNTY ROAD 7, 29.0 FEET SOUTH OF A FIELD ENTRANCE, 1.5 FEET WEST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.804    12B = -85.843    09 = -85.748    03 = -85.633

Geodetic Position and Lincoln County Coordinates

<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)	44 14 25.85040	96 07 44.69243	536061.026	116016.407	163391.727	35361.872	497.020		2012	GPS2800
NAD83 (2007)	44 14 25.85030	96 07 44.69332	536060.961	116016.396	163391.708	35361.868	497.044		2007	GPS2300
NAD83 (1996)	44 14 25.84987	96 07 44.69267	536061.008	116016.353	163391.722	35361.855	497.092	C	2014	HRUTH

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HOPE_22-DF6626-3E-08APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HOPE_22-DF6626-3E-08APR2014.jpg</a>	E	Apr 8, 2014
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HOPE_22-DF6626-2-08APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HOPE_22-DF6626-2-08APR2014.jpg</a>		Apr 8, 2014
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HOPE_22-DF6626-1-08APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HOPE_22-DF6626-1-08APR2014.jpg</a>		Apr 8, 2014

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_41610.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41610.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41610.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41610.pdf)



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

Mn/DOT Name: HURD

NGS Name: HURD

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2389](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<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	4	109 N	44 W	441611.28	960824.35	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	2016	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:** (2015)                      **Stamping:** HURD 2015

IN TYLER, 0.25 MILE WEST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND COUNTY ROAD 7 IN TYLER, AT TRUNK HIGHWAY 14 MILEPOINT 15.95, 77.9 FEET WEST OF COUNTY ROAD 8, 73.8 FEET NORTH OF TRUNK HIGHWAY 14, 30.3 FEET WEST OF A CABLE BOX, 1.5 FEET SOUTH OF A WITNESS POST.

**Station Pair:** CLIPPER - LINCOLN, MN

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	1746.191	0.016	532.240	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.827    12B = -85.873    09 = -85.771    03 = -85.663

Geodetic Position and Lincoln County Coordinates

<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)	44 16 11.28335	96 08 24.35094	533157.160	126689.356	162506.627	38614.993	506.092			2016	GPS3151	
NAD83 (1996)	44 16 11.28237	96 08 24.35113	533157.146	126689.256	162506.623	38614.963	506.146	C		2016	HTYLR	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HURD-DQ2389-3N-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HURD-DQ2389-3N-08JUL2015.jpg</a>	N	Jul 8, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HURD-DQ2389-2-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HURD-DQ2389-2-08JUL2015.jpg</a>		Jul 8, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HURD-DQ2389-1-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HURD-DQ2389-1-08JUL2015.jpg</a>		Jul 8, 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\\_104040.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104040.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104040.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104040.pdf)



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

Mn/DOT Name: IVAN MNDT

NGS Name: IVAN

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AB9861](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096244/  
 USGS Quad: LAKE BENTON NW

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	6	111 N	46 W	442652.01	962639.82	2	B

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1994	2019	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
STEEL ROD (NO SLEEVE) (DEPTH 21 FT)	METAL ROD	MNDT

**Description:** (2016)                      **Stamping:** IVAN 1994

4.2 MILES SOUTH-SOUTHWEST OF HENDRICKS, 1.7 MILES WEST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 271 (THE JUNCTION IS 3.5 MILES SOUTH OF HENDRICKS), AT TRUNK HIGHWAY 19 MILEPOINT 0.70, 62.0 FEET EAST OF TRUNK HIGHWAY 19, 62.5 FEET SOUTH OF A FIELD ENTRANCE, 4.6 FEET WEST OF A WITNESS POST, 1.8 FEET EAST OF A CARSONITE 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	1839. 872 0. 016	560. 794 0. 005	2/1	2020 00000949

Geoid Separations(ft): GEOID18 = -84.144 12B = -84.134 09 = -84.048 03 = -84.002

Geodetic Position and Lincoln County Coordinates

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)	44 26 52. 01479	96 26 39. 82271	453581. 671	191604. 515	138251. 970	58401. 173	535. 146			2018	GPS3119	
NAD83 (2007)	44 26 52. 01464	96 26 39. 82384	453581. 589	191604. 500	138251. 945	58401. 169	535. 178			2007	GPS2300	
NAD83 (1996)	44 26 52. 01416	96 26 39. 82334	453581. 625	191604. 452	138251. 956	58401. 154	535. 213	B		2005	GPS2036	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/IVAN-AB9861-3E-25MAR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/IVAN-AB9861-3E-25MAR2015.jpg</a>	E	Mar 25, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/IVAN-AB9861-2-25MAR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/IVAN-AB9861-2-25MAR2015.jpg</a>		Mar 25, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/IVAN-AB9861-1-25MAR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/IVAN-AB9861-1-25MAR2015.jpg</a>		Mar 25, 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\\_17679.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17679.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17679.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17679.pdf)



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

Mn/DOT Name: IVANHOE MUNICIPAL TANK 1935

NGS Name: IVANHOE MUNICIPAL TANK

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0786](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096214/1008  
 USGS Quad: ARCO

<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	34	112 N	45 W	442746.19	961457.62		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>
1935	1960	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	ELEVATED TANK	NGS

**Description:** (1935)

**Stamping:**

IN THE WEST PART OF IVANHOE, 200.0 FEET NORTH FROM THE JUNCTION OF ROTHERWOOD STREET AND SHERWOOD STREET. THE POINT OBSERVED WAS THE FINIAL OF THE MUNICIPAL WATER SUPPLY TANK.

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

Geoid Separations(ft): GEOID18 = -85.761 12B = -85.764 09 = -85.653 03 = -85.544

Geodetic Position and Lincoln County Coordinates

<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)	44 27 46.19098	96 14 57.61733	504524.625	197041.382	153779.413	60058.334		4	1999	17648
NAD83 (1986)	44 27 46.19022	96 14 57.59929	504525.934	197041.306	153779.812	60058.310		4	1986	17289
NAD27	44 27 46.32000	96 14 56.45600						4	1938	03790

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17680.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17680.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17680.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17680.pdf)



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

Mn/DOT Name: IVANHOE MUNICIPAL TANK 1966

NGS Name: IVANHOE MUNICIPAL TANK

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0787](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096214/1008  
 USGS Quad: ARCO

<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	34	112 N	45 W	442748.99	961457.53		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>
1966	1966	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	ELEVATED TANK	NGS

**Description:** (1966)

**Stamping:**

IN THE CENTER OF IVANHOE, 1.0 BLOCK WEST OF THE MAIN STREET. THE POINT OBSERVED WAS THE FINIAL OF THE MUNICIPAL WATER SUPPLY TANK.

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

Geoid Separations(ft): GEOID18 = -85.761 12B = -85.764 09 = -85.653 03 = -85.541

Geodetic Position and Lincoln County Coordinates

<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)	44 27 48.99075	96 14 57.53229	504530.733	197324.937	153781.275	60144.761		4	1999	17648
NAD83 (1986)	44 27 48.99052	96 14 57.51441	504532.030	197324.914	153781.670	60144.754		4	1986	17289
NAD27	44 27 49.11987	96 14 56.36561						4	1977	15955

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17681.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17681.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17681.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17681.pdf)



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

Mn/DOT Name: IVANHOE ST PETER AND PAUL CH

NGS Name: IVANHOE ST PETER AND PAUL CH

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0784](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096214/1009  
 USGS Quad: ARCO

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	112 N	45 W	442739.90	961457.55		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>
1935	1935	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	CHURCH SPIRE	NGS

**Description:** (1935)

**Stamping:**

IN IVANHOE, 220.0 FEET EAST FROM THE JUNCTION OF ROWENA STREET AND HUBERT STREET . THE POINT OBSERVED WAS THE TIP OF THE CHURCH SPIRE.

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

Geoid Separations(ft): GEOID18 = -85.764 12B = -85.768 09 = -85.656 03 = -85.544

Geodetic Position and Lincoln County Coordinates

<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)	44 27 39.90093	96 14 57.54842	504529.758	196404.345	153780.978	59864.164		4	1999	17648
NAD83 (1986)	44 27 39.90081	96 14 57.53072	504531.042	196404.333	153781.369	59864.161		4	1986	17289
NAD27	44 27 40.02900	96 14 56.38300						4	1938	03790

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17682.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17682.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17682.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17682.pdf)



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

Mn/DOT Name: J 112

NGS Name: J 112

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0110](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	44 W	441654.00	960801.00	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	2015	GOOD	Horz=NO Vert=YES	YES		FLUSH	NO MAG MATERIAL

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
WALL	BENCH MARK DISK	NGS

**Description:** (1973)                      **Stamping:** J 112 1934

AT THE TYLER HIGH SCHOOL, 0.8 MILE NORTH ALONG COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND TRUNK HIGHWAY 14 IN TAYLOR, 121.5 FEET NORTH OF COUNTY ROAD 8 (STRONG STREET), 93.0 FEET EAST OF COUNTY ROAD 7 (TYLER STREET) EXTENDED, 1.3 FEET NORTH OF THE SOUTHWEST CORNER OF A SOUTH ENTRANCE, IN THE BRICK WALL OF A BUILDING, 3.0 FEET ABOVE THE GROUND SURFACE.

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	1733.399	0.016	528.341	0.005	2/1	2017	00000903
NGVD29	1732.631	0.007	528.107	0.002	1/2	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -85.912 12B = -85.958 09 = -85.850 03 = -85.738

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/J_112-PR0110-3NE-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/J_112-PR0110-3NE-18JUN2015.jpg</a>	NE	Jun 18, 2015
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/J_112-PR0110-2-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/J_112-PR0110-2-18JUN2015.jpg</a>		Jun 18, 2015
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/J_112-PR0110-1-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/J_112-PR0110-1-18JUN2015.jpg</a>		Jun 18, 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\\_17683.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17683.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17683.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17683.pdf)



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

Mn/DOT Name: JACK

NGS Name: JACK

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DP5872](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	110 N	45 W	442019.99	961655.90		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>
2010	2010	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:** (2012)                      **Stamping:** JACK 2010

5.25 MILES NORTH OF LAKE BENTON, 5.15 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, AT TRUNK HIGHWAY 75 MILEPOINT 60.20, 53.6 FEET WEST OF TRUNK HIGHWAY 75, 14.0 FEET NORTH OF A FIELD ENTRANCE, 14.0 FEET WEST-SOUTHWEST OF A CABLE MARKER, 4.0 FEET SOUTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.282    12B = -85.315    09 = -85.220    03 = -85.111

Geodetic Position and Lincoln County Coordinates

<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)	44 20 19.99197	96 16 55.89726	495937.187	151851.981	151161.957	46284.577	517.042			2014	GPS3047	
NAD83 (1996)	44 20 19.99137	96 16 55.89762	495937.160	151851.921	151161.949	46284.558	517.079	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/JACK-DP5872-3W-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/JACK-DP5872-3W-28DEC2010.jpg</a>	W	Dec 28, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/JACK-DP5872-2-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/JACK-DP5872-2-28DEC2010.jpg</a>		Dec 28, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/JACK-DP5872-1-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/JACK-DP5872-1-28DEC2010.jpg</a>		Dec 28, 2010

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_93339.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93339.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93339.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93339.pdf)



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

Mn/DOT Name: JERZAK MN081

NGS Name: JERZAK

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6627](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096123/  
 USGS Quad: PORTER 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>
SE	16	112 N	44 W	443011.76	960826.58		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		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	MN-081

**Description:** (2002)                      **Stamping:** JERZAK 2001

6.0 MILES NORTHEAST OF IVANHOE, 3.0 MILES NORTH ON COUNTY ROAD 14 FROM THE JUNCTION OF COUNTY ROAD 14 AND TRUNK HIGHWAY 19 IN IVANHOE, 55.0 FEET SOUTH OF A POWER POLE, 50.0 FEET NORTH OF COUNTY ROAD 17, 46.0 FEET WEST OF A TOWNSHIP ROAD, 14.0 FEET SOUTH OF A FIELD ENTRANCE, 2.0 FEET SOUTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -86.552    12B = -86.545    09 = -86.440    03 = -86.306

Geodetic Position and Lincoln County Coordinates

<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)	44 30 11.76359	96 08 26.58382	532863.642	211809.436	162417.163	64559.645	438.552			2014	GPS3047	
NAD83 (2007)	44 30 11.76351	96 08 26.58477	532863.573	211809.428	162417.142	64559.643	438.589			2007	GPS2300	
NAD83 (1996)	44 30 11.76306	96 08 26.58452	532863.591	211809.382	162417.147	64559.629	438.617	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/JERZAK-DF6627-3S-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/JERZAK-DF6627-3S-03MAY2021.jpg</a>	S	May 3, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/JERZAK-DF6627-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/JERZAK-DF6627-2-03MAY2021.jpg</a>		May 3, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/JERZAK-DF6627-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/JERZAK-DF6627-1-03MAY2021.jpg</a>		May 3, 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\\_41599.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41599.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41599.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41599.pdf)



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

Mn/DOT Name: JOHNSON MN081

NGS Name: JOHNSON

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6628](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096231/  
 USGS Quad: VERDI

<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	31	109 N	45 W	441203.91	961827.78	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>
2002	2011	GOOD	Horz=YES Vert=YES	YES		PROJECTS 1 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	MN-081

**Description:** (2004)                      **Stamping:** JOHNSON 2001

2.5 MILES SOUTHEAST OF VERDI, 1.8 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND COUNTY ROAD 9 IN VERDI, AT TRUNK HIGHWAY 75 MILEPOINT 50.25, 77.0 FEET EAST OF TRUNK HIGHWAY 75, 5.0 FEET SOUTH OF A FENCE CORNER POST, 205.0 FEET NORTH OF A FIELD ENTRANCE, 1.0 FOOT WEST OF A WITNESS POST.

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	1778.120	0.016	541.972	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -84.787    12B = -84.836    09 = -84.721    03 = -84.636

Geodetic Position and Lincoln County Coordinates

<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)	44 12 03.90784	96 18 27.78415	489233.311	101613.743	149118.611	30971.931	516.142			2014	GPS3047	
NAD83 (2007)	44 12 03.90776	96 18 27.78506	489233.244	101613.735	149118.591	30971.928	516.172			2007	GPS2300	
NAD83 (1996)	44 12 03.90729	96 18 27.78444	489233.290	101613.687	149118.605	30971.914	516.229	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/JOHNSON-DF6628-3E-11OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/JOHNSON-DF6628-3E-11OCT2006.jpg</a>	E	Oct 11, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/JOHNSON-DF6628-2-11OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/JOHNSON-DF6628-2-11OCT2006.jpg</a>		Oct 11, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/JOHNSON-DF6628-1-11OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/JOHNSON-DF6628-1-11OCT2006.jpg</a>		Oct 11, 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\\_41587.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41587.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41587.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41587.pdf)



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

Mn/DOT Name: K 112

NGS Name: K 112

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0113](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096212/  
 USGS Quad: DEAD COON 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	2	109 N	44 W	441626.00	960600.00	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	1973	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:** K 112 1934

2.4 MILES EAST OF THE TYLER RAILROAD STATION, 650.0 FEET WEST OF A ROAD CROSSING, 3.0 FEET NORTH OF RAILROAD MILEPOST 252, 36.0 FEET NORTH OF THE 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 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	1710.709	0.016	521.425	0.005	2/0	1991	00000025
NGVD29	1709.869	0.016	521.169	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -86.076    12B = -86.119    09 = -86.017    03 = -85.902

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17684.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17684.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17684.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17684.pdf)



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

Mn/DOT Name: K 315

NGS Name: K 315

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0008](#) [Get Map](#)  
NGS Quad / Sta Num : 44096122/  
USGS Quad: TAUNTON

<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>
NE	11	113 N	44 W	443653.20	960708.90	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>
1938	2009	GOOD	Horz=YES Vert=YES	YES	6218	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
WALL - LIGHT RETAINING	BENCH MARK DISK	NGS

**Description:** (1999) **Stamping:** K 315 1938

2.7 MILES SOUTHEAST OF PORTER, 2.8 MILES SOUTHEAST ALONG TRUNK HIGHWAY 68 FROM THE JUNCTION OF COUNTY ROAD 12 IN PORTER, AT TRUNK HIGHWAY 68 MILEPOINT 19.15, IN THE NORTHWEST END OF THE SOUTHWEST COPING WALL OF A TRUNK HIGHWAY 68 DOUBLE CULVERT, 21.0 FEET SOUTHWEST OF TRUNK HIGHWAY 68.

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	1180.880	0.016	359.933	0.005	2/1	2012	00000711
NGVD29	1180.217	0.016	359.731	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -86.227 12B = -86.243 09 = -86.092 03 = -86.007

Geodetic Position and Lincoln County Coordinates

<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)	44 36 53.20295	96 07 08.90347	538420.604	252476.190	164110.928	76954.897	333.659			2012	GPS2800	
NAD83 (2007)	44 36 53.20287	96 07 08.90446	538420.533	252476.182	164110.907	76954.894	333.699			2007	GPS2300	
NAD83 (1996)	44 36 53.20245	96 07 08.90398	538420.568	252476.139	164110.917	76954.881	333.714	C		2003	GPS1883	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/K_315-PR0008-3SW-14APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/K_315-PR0008-3SW-14APR2009.jpg</a>	SW	Apr 14, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/K_315-PR0008-2-14APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/K_315-PR0008-2-14APR2009.jpg</a>		Apr 14, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/K_315-PR0008-1-14APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/K_315-PR0008-1-14APR2009.jpg</a>		Apr 14, 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\\_17685.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17685.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17685.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17685.pdf)



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

Mn/DOT Name: KINECT

NGS Name: KINECT

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DP5873](#) [Get Map](#)  
 NGS Quad / Sta Num : 4409624/  
 USGS Quad: LAKE BENTON NE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	45 W	442331.62	961656.72		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>
2010	2010	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 16 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2010)                      **Stamping:** KINECT 2010

4.8 MILES SOUTH-SOUTHWEST OF IVANHOE, 5.4 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, AT TRUNK HIGHWAY 75 MILEPOINT 63.9, 55.0 FEET WEST OF TRUNK HIGHWAY 75, 15.0 FEET SOUTH OF A FIELD ENTRANCE, 18.7 FEET EAST-SOUTHEAST OF A POWER POLE.

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

Geoid Separations(ft): GEOID18 = -85.469    12B = -85.485    09 = -85.387    03 = -85.279

Geodetic Position and Lincoln County Coordinates

<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)	44 23 31.62325	96 16 56.72376	495880.851	171259.557	151144.786	52200.017	515.211		2014	GPS3047
NAD83 (1996)	44 23 31.62271	96 16 56.72396	495880.837	171259.502	151144.781	52200.001	515.259	C	2011	HTH75

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/KINECT-DP5873-3W-27DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/KINECT-DP5873-3W-27DEC2010.jpg</a>	W	Dec 27, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/KINECT-DP5873-2-27DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/KINECT-DP5873-2-27DEC2010.jpg</a>		Dec 27, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/KINECT-DP5873-1-27DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/KINECT-DP5873-1-27DEC2010.jpg</a>		Dec 27, 2010

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_93341.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93341.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93341.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93341.pdf)



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

Mn/DOT Name: KNOFF MN081

NGS Name: KNOFF

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6629](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096244/  
 USGS Quad: LAKE BENTON 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	15	111 N	46 W	442456.68	962302.84		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>
2002	2021	GOOD	Horz=YES 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	MN-081

**Description:** (2002)                      **Stamping:** KNOFF 2001

6.7 MILES SOUTHEAST OF HENDRICKS, 3.0 MILES SOUTH ON COUNTY ROAD 101 FROM THE JUNCTION OF COUNTY ROAD 101 AND TRUNK HIGHWAY 19 IN HENDRICKS, 162.0 FEET NORTH OF A POWER POLE, 109.0 FEET NORTH OF COUNTY ROAD 16, 47.0 FEET EAST OF EAST COUNTY ROAD 101, 17.0 FEET NORTH OF A FIELD ENTRANCE, 1.5 FEET WEST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -84.734    12B = -84.734    09 = -84.639    03 = -84.563

Geodetic Position and Lincoln County Coordinates

<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)	44 24 56.68038	96 23 02.84274	469306.511	179895.451	143044.911	54832.243	525.593					2012	GPS2800
NAD83 (2007)	44 24 56.68015	96 23 02.84327	469306.473	179895.428	143044.899	54832.236	525.569					2007	GPS2300
NAD83 (1996)	44 24 56.67963	96 23 02.84277	469306.509	179895.375	143044.910	54832.220	525.658	C				2009	HIVAN

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/KNOFF-DF6629-3E-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/KNOFF-DF6629-3E-04MAY2021.jpg</a>	E	May 4, 2021
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/KNOFF-DF6629-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/KNOFF-DF6629-2-04MAY2021.jpg</a>		May 4, 2021
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/KNOFF-DF6629-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/KNOFF-DF6629-1-04MAY2021.jpg</a>		May 4, 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\\_41583.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41583.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41583.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41583.pdf)



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

Mn/DOT Name: L 111

NGS Name: L 111

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0007](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096122/  
 USGS Quad: TAUNTON

<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	12	113 N	44 W	443627.00	960605.00	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	2008	DESTROYED	Horz=NO Vert=NO	NO	2859	FLUSH	NO MAG MATERIAL

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	NGS

**Description:** (2008)                      **Stamping:** L 111 1934

2.0 MILES NORTHWEST OF TAUNTON, 1.9 MILES NORTHWEST ALONG A RAILROAD FROM THE TAUNTON RAILROAD STATION, 1.0 POLE EAST OF RAILROAD MILEPOST 263, 75.0 FEET NORTH OF A RAILROAD BRIDGE, IN THE SOUTHEAST WING WALL OF TRUNK HIGHWAY 68 BRIDGE NUMBER 2859.

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	1170.208	0.016	356.680	0.005	2/0	1991	00000025
NGVD29	1169.545	0.007	356.478	0.002	1	1938	L70 MINN

Geoid Separations(ft): GEOID18 = -86.430 12B = -86.440 09 = -86.286 03 = -86.194

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17686.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17686.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17686.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17686.pdf)



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

Mn/DOT Name: L 380

NGS Name: L 380

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR1175](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096221/  
 USGS Quad: RUTHTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	44 W	441239.97	960448.18	1	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>
1990	2002	GOOD	Horz=NO Vert=NO	NO		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE) (DEPTH 19 FT)	METAL ROD	NGS

**Description:** (2016)                      **Stamping:** L 380 1990

2.3 MILES SOUTHWEST OF FLORENCE, 2.6 MILES SOUTHEAST ON TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 14 IN FLORENCE, 166.7 FEET NORTHWEST OF TRUNK HIGHWAY 23 AT TRUNK HIGHWAY 23 MILEPOINT 49.95, 49.5 FEET NORTHWEST OF THE NORTHWEST RAIL OF THE RAILROAD TRACKS, 49.2 FEET SOUTH OF A GRAVEL ROAD WEST, 9.5 FEET SOUTH-SOUTHWEST OF A POWER POLE WITH A GUY WIRE, 1.0 FOOT 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 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	1718.359	0.007	523.757	0.002	1/2	1991	00000025

Geoid Separations(ft): GEOID18 = -86.010 12B = -86.040 09 = -85.948 03 = -85.830

**Geodetic Position and Lincoln County Coordinates**

<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)	44 12 39.97037	96 04 48.17575	548936.817	105319.031	167316.277	32101.305	497.532					2012	GPS2800
NAD83 (2007)	44 12 39.97029	96 04 48.17665	548936.752	105319.023	167316.257	32101.302	497.561					2007	GPS2300
NAD83 (1996)	44 12 39.96995	96 04 48.17607	548936.794	105318.989	167316.270	32101.292	497.612	C				2003	GPS1883

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17687.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17687.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17687.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17687.pdf)



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

Mn/DOT Name: LAKE BENTON EAST R PWR CO MAST

NGS Name: LAKE BENTON EAST R PWR CO MAST

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0816](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/1037  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441701.36	961855.99		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>
1976	2015	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	RADIO/TV TOWER	MNDT

**Description:** (1976)

**Stamping:**

2.1 MILES NORTHWEST OF LAKE BENTON, 1.8 MILE WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75, THEN 1.0 MILE NORTH ON 170TH AVENUE, THEN 0.4 MILE EAST ON 160TH STREET, THEN 0.05 MILE SOUTH ON DRIVEWAY NUMBER 1737 TO A TOWER.

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

Geoid Separations(ft): GEOID18 = -84.836 12B = -84.859 09 = -84.783 03 = -84.708

Geodetic Position and Lincoln County Coordinates

<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)	44 17 01.36458	96 18 55.98789	487196.551	131739.477	148497.806	40154.273		4	1999	17648
NAD83 (1986)	44 17 01.36458	96 18 55.96891	487197.931	131739.476	148498.227	40154.273		4	1986	17289
NAD27	44 17 01.47983	96 18 54.82098						4	1977	15815

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LAKE_BENTON_EAST_R_PWR_CO_MAST-PR0816-3S-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LAKE_BENTON_EAST_R_PWR_CO_MAST-PR0816-3S-22JUN2015.jpg</a>	S	Jun 22, 2015
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\\_17688.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17688.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17688.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17688.pdf)



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

Mn/DOT Name: LAKE BENTON KSFY TV MAST

NGS Name: LAKE BENTON KSFY TV MAST

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096231/  
 USGS Quad: VERDI

<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>
SW	16	109 N	45 W	441431.88	961635.86		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1976	2015	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SURVEY DISK	MNDT

**Description:** (1976)

**Stamping:**

1.0 MILE SOUTH-SOUTHEAST OF LAKE BENTON, 0.9 MILE EAST OF TRUNK HIGHWAY 75, 1.6 MILES SOUTH OF TRUNK HIGHWAY 14.

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

Geoid Separations(ft): GEOID18 = -84.924 12B = -84.944 09 = -84.882 03 = -84.803

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17689.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17689.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17689.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17689.pdf)



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

Mn/DOT Name: LAKE BENTON TV RADIO MW MAST

NGS Name: LAKE BENTON TV RADIO MW MAST

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0800](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096231/1038  
 USGS Quad: VERDI

<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>
SW	16	109 N	45 W	441431.89	961635.87		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>
1966	2015	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	RADIO/TV MAST	NGS

**Description:** (2016)

**Stamping:**

1.5 MILES SOUTHEAST OF LAKE BENTON, 1.5 MILES SOUTH ON COUNTY ROAD 108 FROM THE JUNCTION OF COUNTY ROAD 108 AND TRUNK HIGHWAY 14 IN LAKE BENTON, 0.8 MILE WEST ON A CROSSROAD. THE POINT OBSERVED WAS THE TOP CENTER OF THE LAKE BENTON TV AND RADIO MICROWAVE MAST, ABOUT 100.0 FEET TALL.

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

Geoid Separations(ft): GEOID18 = -84.924 12B = -84.944 09 = -84.882 03 = -84.803

Geodetic Position and Lincoln County Coordinates

<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)	44 14 31.88600	96 16 35.86582	497388.851	116597.494	151604.425	35538.987		4	1999	17648
NAD83 (1986)	44 14 31.88577	96 16 35.84736	497390.195	116597.471	151604.835	35538.980		4	1986	17289
NAD27	44 14 32.00251	96 16 34.70857						4	1977	15955

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17690.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17690.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17690.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17690.pdf)



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

Mn/DOT Name: LAKE BENTON TV STA KOTA MAST

NGS Name: LAKE BENTON TV STA KOTA MAST

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0801](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096231/1036  
 USGS Quad: VERDI

<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	16	109 N	45 W	441428.63	961553.65		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>
1976	2015	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	RADIO/TV MAST	MNDT

**Description:** (1976)

**Stamping:**

1.7 MILES SOUTH-SOUTHWEST OF LAKE BENTON, 1.5 MILES SOUTH ALONG COUNTY ROAD 108 FROM THE JUNCTION OF COUNTY ROAD 108 AND TRUNK HIGHWAY 14 IN LAKE BENTON, THEN 0.2 MILE WEST ON 130TH STREET, 100.0 FEET NORTH OF 130TH STREET.

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

Geoid Separations(ft): GEOID18 = -84.990 12B = -85.010 09 = -84.947 03 = -84.865

Geodetic Position and Lincoln County Coordinates

<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)	44 14 28. 62895	96 15 53. 64851	500462. 416	116267. 486	152541. 250	35438. 401		4	1999	17648
NAD83 (1986)	44 14 28. 62875	96 15 53. 62917	500463. 825	116267. 466	152541. 679	35438. 394		4	1986	17289
NAD27	44 14 28. 74155	96 15 52. 48851						4	1977	15815

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LAKE_BENTON_TV_STA_KOTA_MAST-PR0801-3N-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LAKE_BENTON_TV_STA_KOTA_MAST-PR0801-3N-22JUN2015.jpg</a>	N	Jun 22, 2015
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\\_17691.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17691.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17691.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17691.pdf)



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

Mn/DOT Name: LINCOLN

NGS Name: LINCOLN

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0811](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096241/1005  
 USGS Quad: LAKE BENTON NE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	45 W	442610.75	961651.69	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>
1935	2010	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)	TRIANGULATION STATION DISK	NGS

**Description:** (2016)                      **Stamping:** LINCOLN 1935

2.5 MILES SOUTHWEST OF IVANHOE, 2.0 MILES SOUTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, TO TRUNK HIGHWAY 75 MILEPOINT 66.85, THEN EAST ON A FIELD ENTRANCE, THEN NORTH 0.1 MILE ALONG THE WEST EDGE OF A FIELD TO THE TOP OF A HILL, AT THE NORTH END OF A ROW OF TREES, 150.0 FEET EAST OF TRUNK HIGHWAY 75, AT TRUNK HIGHWAY 75 MILEPOINT 66.95, 149.0 FEET SOUTH-SOUTHEAST OF A POWER POLE, 76.0 FEET NORTHEAST OF A POWER POLE, 29.0 FEET NORTHEAST OF A POWER POLE, 4.5 FEET NORTH OF A WITNESS POST, 90.48 FEET EAST-SOUTHEAST OF LINCOLN RM 2, 95.42 FEET WEST OF LINCOLN RM A.

**Station Notes**

DUE TO TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC HORIZONTAL SURVEYS.

**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	1766.073	0.016	538.300	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.541 12B = -85.548 09 = -85.443 03 = -85.334

**Geodetic Position and Lincoln County Coordinates**

<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)	44 26 10.75132	96 16 51.69278	496249.018	187375.396	151257.003	57112.135	512.569	1	1999	17648
NAD83 (1986)	44 26 10.75113	96 16 51.67548	496250.273	187375.377	151257.386	57112.129		1	1986	17289
NAD27	44 26 10.88100	96 16 50.52400						1	1938	03790

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LINCOLN-PR0811-3E-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LINCOLN-PR0811-3E-28APR2009.jpg</a>	E	Apr 28, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LINCOLN-PR0811-2-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LINCOLN-PR0811-2-28APR2009.jpg</a>		Apr 28, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LINCOLN-PR0811-1-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LINCOLN-PR0811-1-28APR2009.jpg</a>		Apr 28, 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\\_17692.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17692.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17692.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17692.pdf)



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

Mn/DOT Name: LINCOLN AZ MK

NGS Name: LINCOLN AZ MK

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO9185](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096241/1005  
 USGS Quad: LAKE BENTON NE

<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>
SW	9	111 N	45 W	442613.00	961651.00		

<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	2010	NOT FOUND	Horz=NO Vert=YES	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	NGS

**Description:** (2007)                      **Stamping:** LINCOLN 1935

2.5 MILES SOUTHWEST OF IVANHOE, 2.0 MILES SOUTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, 71.0 FEET WEST OF THE CENTER OF A GRAVEL ROAD, 17.5 FEET WEST OF THE SOUTHEAST FENCE CORNER OF A GRAVEYARD, 0.8 FOOT SOUTH OF A METAL WITNESS POST WITH A SIGN ATTACHED.

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

Geoid Separations(ft): GEOID18 = -85.544    12B = -85.551    09 = -85.443    03 = -85.334

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67346.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67346.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67346.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67346.pdf)



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

Mn/DOT Name: LINCOLN RM 1

NGS Name: LINCOLN RM 1

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO9186](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096241/1005  
 USGS Quad: LAKE BENTON NE

<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>
SW	9	111 N	45 W	442608.17	961651.65		

<u>Year Set</u>	<u>Last Recovery</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	2010	NOT FOUND	Horz=NO Vert=YES	NO		FLUSH	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

**Description:** (2007)                      **Stamping:** LINCOLN NO 1 1935

2.5 MILES SOUTHWEST OF IVANHOE, 2.2 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, TO TRUNK HIGHWAY 75 MILEPOST 66.85, THEN 0.1 MILE EAST AND NORTH ALONG WEST EDGE OF A FIELD TO THE TOP OF A HILL, 143.0 FEET NORTHEAST OF TRUNK HIGHWAY 75, 110.0 FEET NORTH-NORTHEAST OF A POWER POLE, 90.0 FEET EAST OF A POWER POLE, 9.0 FEET SOUTHWEST OF A 6.0 INCH DIAMETER TREE.

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

Geoid Separations(ft): GEOID18 = -85.541    12B = -85.551    09 = -85.443    03 = -85.334

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67348.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67348.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67348.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67348.pdf)



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

Mn/DOT Name: LINCOLN RM 2

NGS Name: LINCOLN RM 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO9187](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096241/1005  
 USGS Quad: LAKE BENTON NE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	45 W	442611.03	961652.88	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	2010	GOOD	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)	REFERENCE MARK DISK	NGS

**Description:** (2009)                      **Stamping:** LINCOLN NO 2 1935

2.5 MILES SOUTHWEST OF IVANHOE, 2.0 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, TO TRUNK HIGHWAY 75 MILEPOST 66.85, THEN 0.1 MILE EAST AND NORTH ALONG THE WEST EDGE OF A FIELD TO THE TOP OF A HILL, 143.0 FEET NORTHEAST OF TRUNK HIGHWAY 75, 77.0 FEET NORTH-NORTHWEST OF A POWER POLE, 90.48 FEET WEST-NORTHWEST OF STATION LINCOLN, 0.9 FOOT EAST OF A WITNESS POST.

**Station Notes**

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

**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	1755.846	0.016	535.183	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.538    12B = -85.544    09 = -85.439    03 = -85.331

**Geodetic Position and Lincoln County Coordinates**

<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)	44 26 11.03122	96 16 52.87611	496163.157	187403.759	151230.833	57120.780	509.112	2012	C	2009	GPS2800	
NAD83 (2007)	44 26 11.03108	96 16 52.87688	496163.101	187403.744	151230.816	57120.776	509.120	2009	C	2009	GPS2587	
NAD83 (1996)	44 26 11.03059	96 16 52.87641	496163.135	187403.695	151230.826	57120.760	509.169	2009	C	2009	HIVAN	

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LINCOLN_RM_2-CO9187-3E-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LINCOLN_RM_2-CO9187-3E-28APR2009.jpg</a>	E	Apr 28, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LINCOLN_RM_2-CO9187-2-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LINCOLN_RM_2-CO9187-2-28APR2009.jpg</a>		Apr 28, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LINCOLN_RM_2-CO9187-1-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LINCOLN_RM_2-CO9187-1-28APR2009.jpg</a>		Apr 28, 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\\_63668.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63668.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63668.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63668.pdf)



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

Mn/DOT Name: LINCOLN RM A

NGS Name: LINCOLN RM A

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0812](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096241/1005  
 USGS Quad: LAKE BENTON NE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	45 W	442610.65	961650.39	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>
1966	2010	GOOD	Horz=YES Vert=YES	YES		RECESSED 12 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:** (2006)                      **Stamping:** LINCOLN RM A 1966

2.5 MILES SOUTHWEST OF IVANHOE, 2.0 MILES SOUTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, TO TRUNK HIGHWAY 19 MILEPOST 66.85, THEN EAST ON A FIELD ENTRANCE, THEN 0.1 MILE NORTH ALONG THE WEST EDGE OF A FIELD TO THE TOP OF A HILL, AT THE NORTH END OF A ROW OF TREES, 225.0 FEET EAST OF TRUNK HIGHWAY 75, 204.0 FEET SOUTHEAST OF A POWER POLE, 117.5 FEET EAST-NORTHEAST OF A POWER POLE, 92.0 FEET EAST OF A NORTH-SOUTH ROW OF TREES, 95.42 FEET EAST OF STATION LINCOLN.

**Station Notes**

THE MARK IS BURIED IN A FIELD.

**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	1766.059	0.016	538.296	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.544 12B = -85.551 09 = -85.443 03 = -85.338

**Geodetic Position and Lincoln County Coordinates**

<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)	44 26 10.65020	96 16 50.38536	496343.886	187365.138	151285.919	57109.008	512.568	1	1999	17648		
NAD83 (1986)	44 26 10.64998	96 16 50.36774	496345.165	187365.116	151286.309	57109.002		1	1986	17289		
NAD27	44 26 10.77983	96 16 49.21661						1	1977	15955		

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LINCOLN_RM_A-PR0812-3E-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LINCOLN_RM_A-PR0812-3E-28APR2009.jpg</a>	E	Apr 28, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LINCOLN_RM_A-PR0812-2-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LINCOLN_RM_A-PR0812-2-28APR2009.jpg</a>		Apr 28, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LINCOLN_RM_A-PR0812-1-28APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/LINCOLN_RM_A-PR0812-1-28APR2009.jpg</a>		Apr 28, 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\\_17693.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17693.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17693.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17693.pdf)



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

Mn/DOT Name: M 111

NGS Name: M 111

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0009](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096123/  
 USGS Quad: PORTER SW

	<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>
SE	3	113 N	44 W	443716.00	960803.00	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>
1934	2009	GOOD	Horz=NO Vert=YES	YES	6219	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
WALL - LIGHT RETAINING	BENCH MARK DISK	NGS

**Description:** (2006)                      **Stamping:** M 111 1934

1.9 MILES SOUTHEAST OF PORTER, 1.9 MILES SOUTHEAST ON TRUNK HIGHWAY 68 FROM RAILROAD STATION IN PORTER, AT TRUNK HIGHWAY 68 MILEPOINT 18.2, 49.5 FEET EAST OF RAILROAD MILEPOST 265, 75.0 FEET NORTH OF A RAILROAD BRIDGE, 2.0 FEET NORTHWEST OF THE SOUTHEAST CORNER OF THE HEADWALL OF A BOX CULVERT, AT THE EAST END OF THE SOUTH HEADWALL OF A TRUNK HIGHWAY 68 DOUBLE BOX CULVERT.

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	1188.354	0.016	362.211	0.005	2/1	2012	00000711
NGVD29	1187.717	0.016	362.017	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -86.066    12B = -86.073    09 = -85.935    03 = -85.856

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/M_111-PR0009-3SW-14APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/M_111-PR0009-3SW-14APR2009.jpg</a>	SW	Apr 14, 2009
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/M_111-PR0009-2-14APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/M_111-PR0009-2-14APR2009.jpg</a>		Apr 14, 2009
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/M_111-PR0009-1-14APR2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/M_111-PR0009-1-14APR2009.jpg</a>		Apr 14, 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\\_17694.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17694.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17694.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17694.pdf)



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

Mn/DOT Name: MANCORA

NGS Name: MANCORA

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5875](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096123/  
 USGS Quad: PORTER 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	3	113 N	44 W	443716.81	960808.00	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>
2009	2009	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 34 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2009)                      **Stamping:** MANCORA 2009

2.0 MILES SOUTHEAST OF PORTER, 1.9 MILES SOUTHEAST ALONG TRUNK HIGHWAY 68 FROM THE JUNCTION OF TRUNK HIGHWAY 68 AND COUNTY ROAD 12 IN PORTER, AT TRUNK HIGHWAY 68 MILEPOINT 18.2, 71.8 FEET SOUTHWEST OF TRUNK HIGHWAY 68, 22.9 FEET NORTHWEST OF DRIVEWAY NUMBER 2589, 1.1 FEET NORTHEAST OF A WITNESS POST.

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	1185.568	0.016	361.362	0.005	2/1	2012	00000711

Geoid Separations(ft): GEOID18 = -86.056    12B = -86.066    09 = -85.928    03 = -85.850

Geodetic Position and Lincoln County Coordinates

<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)	44 37 16.80821	96 08 07.99925	534141.668	254859.657	162806.706	77681.379	335.135	2012	C	2009	GPS2800	
NAD83 (2007)	44 37 16.80814	96 08 08.00025	534141.595	254859.650	162806.684	77681.377	335.176	2009	C	2009	GPS2583	
NAD83 (1996)	44 37 16.80772	96 08 07.99982	534141.627	254859.607	162806.694	77681.364	335.197	2009	C	2009	HCNBY	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MANCORA-DL5875-3SW-06MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MANCORA-DL5875-3SW-06MAY2009.jpg</a>	SW	May 6, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MANCORA-DL5875-2-06MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MANCORA-DL5875-2-06MAY2009.jpg</a>		May 6, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MANCORA-DL5875-1-06MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MANCORA-DL5875-1-06MAY2009.jpg</a>		May 6, 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\\_86056.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_86056.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_86056.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_86056.pdf)



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

Mn/DOT Name: MARBLE LUTH CH SPIRE

NGS Name: MARBLE LUTH CH SPIRE

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0734](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/1025  
 USGS Quad: CANBY SE

<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	20	113 N	45 W	443446.33	961749.41		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>
1935	2004	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	CHURCH SPIRE	NGS

**Description:** (2016)

**Stamping:**

9.0 MILES SOUTH OF CANBY, 8.5 MILES SOUTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 68 IN CANBY, 1.0 MILE WEST ON COUNTY ROAD 19, 0.5 MILE SOUTH ON COUNTY ROAD 105. THE POINT OBSERVED WAS THE TIP OF THE CHURCH SPIRE.

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

Geoid Separations(ft): GEOID18 = -84.810 12B = -84.810 09 = -84.731 03 = -84.655

Geodetic Position and Lincoln County Coordinates

<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)	44 34 46.32505	96 17 49.41472	492079.939	239592.842	149986.265	73028.044		4	1999	17648
NAD83 (1986)	44 34 46.32390	96 17 49.39795	492081.153	239592.725	149986.635	73028.009		4	1986	17289
NAD27	44 34 46.45200	96 17 48.23700						4	1938	03790

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17695.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17695.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17695.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17695.pdf)



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

Mn/DOT Name: MARBLE MN081

NGS Name: MARBLE

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6630](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/  
 USGS Quad: CANBY SE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	15	113 N	45 W	443513.02	961611.34	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2001	2011	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MN-081

**Description:** (2006) **Stamping:** MARBLE 2001

8.5 MILES SOUTH OF CANBY, 8.55 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 68 IN CANBY, TO TRUNK HIGHWAY 75 MILEPOST 77.85, THEN 0.3 MILE EAST ON COUNTY ROAD 19, 107.0 FEET EAST OF A POWER POLE, 115.0 FEET WEST OF A POWER POLE, 62.0 FEET NORTH OF COUNTY ROAD 19, 27.0 FEET WEST OF A FIELD 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	1593.166 0.016	485.598 0.005	2/1	2011 00000425-40

Geoid Separations(ft): GEOID18 = -850000 12B = -85.013 09 = -84.931 03 = -84.839

Geodetic Position and Lincoln County Coordinates

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)	44 35 13.01779	96 16 11.33766		499179.420	242294.816	152150.191	73851.608	459.673		2014	GPS3047
NAD83 (2007)	44 35 13.01768	96 16 11.33872		499179.343	242294.805	152150.168	73851.604	459.700		2007	GPS2300
NAD83 (1996)	44 35 13.01726	96 16 11.33830		499179.373	242294.762	152150.177	73851.591	459.732	C	2011	HTH75

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MARBLE-DF6630-3E-04OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MARBLE-DF6630-3E-04OCT2006.jpg</a>	E	Oct 4, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MARBLE-DF6630-2-04OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MARBLE-DF6630-2-04OCT2006.jpg</a>		Oct 4, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MARBLE-DF6630-1-04OCT2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MARBLE-DF6630-1-04OCT2006.jpg</a>		Oct 4, 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\\_41603.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41603.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41603.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41603.pdf)



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

Mn/DOT Name: MEDARY MNDT

NGS Name: MEDARY

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0128](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/1032  
 USGS Quad: LAKE BENTON 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	109 N	46 W	441610.11	962612.15	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>
1976	2015	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>
CONCRETE MONUMENT (CAST-IN-PLACE)	HORIZONTAL CONTROL DISK	MNDT

**Description:** (1994) **Stamping:** MEDARY 1976

7.45 MILES WEST OF LAKE BENTON, 0.8 MILE EAST ON TRUNK HIGHWAY 14 FROM THE WEST STATE LINE, 7.45 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 0.8, 47.6 FEET SOUTH OF TRUNK HIGHWAY 14, 12.2 FEET EAST OF DRIVEWAY NUMBER 1137, 8.4 FEET NORTH-NORTHWEST OF A WITNESS POST, 123.28 FEET SOUTH OF MEDARY RM 1, 112.5 FEET EAST-NORTHEAST OF MEDARY RM 2.

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	1840.899	0.016	561.107	0.005	2/1	2017	00000903
NGVD29	1840.157	0.007	560.881	0.002	1/2	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.436 12B = -84.458 09 = -84.357 03 = -84.288

Geodetic Position and Lincoln County Coordinates

<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)	44 16 10.11063	96 26 12.15437	455453.861	126591.233	138822.615	38585.085	535.381	2	1999	17648		
NAD83 (1986)	44 16 10.11061	96 26 12.13630	455455.176	126591.229	138823.015	38585.084		2	1986	17289		
NAD27	44 16 10.23245	96 26 10.97850						2	1977	15815		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDARY-PR0128-3S-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDARY-PR0128-3S-23JUN2015.jpg</a>	S	Jun 23, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDARY-PR0128-2-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDARY-PR0128-2-23JUN2015.jpg</a>		Jun 23, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDARY-PR0128-1-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDARY-PR0128-1-23JUN2015.jpg</a>		Jun 23, 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\\_17696.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17696.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17696.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17696.pdf)



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

Mn/DOT Name: MEDARY RM 1

NGS Name: MEDARY RM 1

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0129](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/  
 USGS Quad: LAKE BENTON 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>
SW	6	109 N	46 W	441611.33	962612.05	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>
1976	2015	GOOD	Horz=YES Vert=YES	YES		PROJECTS 1 IN.	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:** (1976)                      **Stamping:** MEDARY NO 1 1976

7.45 MILES WEST OF LAKE BENTON, 0.8 MILE EAST ON TRUNK HIGHWAY 14 FROM THE WEST STATE LINE, 7.45 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, 76.0 FEET NORTH OF TRUNK HIGHWAY 14, AT TRUNK HIGHWAY 14 MILEPOINT 0.8, 178.6 FEET NORTHEAST OF MEDARY RM 2, 123.28 FEET NORTH OF STATION MEDARY MNDT, 25.0 FEET EAST-SOUTHEAST OF A CABLE MARKER, 1.0 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	1841.620	0.016	561.327	0.005	2/1	2017	00000903
NGVD29	1840.771	0.016	561.068	0.005	2/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.436    12B = -84.458    09 = -84.357    03 = -84.288

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDARY_RM_1-PR0129-3N-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDARY_RM_1-PR0129-3N-23JUN2015.jpg</a>	N	Jun 23, 2015
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDARY_RM_1-PR0129-2-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDARY_RM_1-PR0129-2-23JUN2015.jpg</a>		Jun 23, 2015
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDARY_RM_1-PR0129-1-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDARY_RM_1-PR0129-1-23JUN2015.jpg</a>		Jun 23, 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\\_17697.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17697.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17697.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17697.pdf)



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

Mn/DOT Name: MEDARY RM 2

NGS Name: MEDARY RM 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0127](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/  
 USGS Quad: LAKE BENTON 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	7	109 N	46 W	441610.02	962613.69	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>
1976	2015	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:** (1976)                      **Stamping:** MEDARY NO 2 1976

7.45 MILES WEST OF LAKE BENTON, 0.8 MILE EAST ON TRUNK HIGHWAY 14 FROM THE WEST STATE LINE, 7.45 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 0.8, 58.1 FEET SOUTH OF TRUNK HIGHWAY 14, 112.5 FEET WEST-SOUTHWEST OF STATION MEDARY MNDT, 99.0 FEET WEST OF DRIVE NUMBER 1137, 178.6 FEET SOUTHWEST OF MEDARY RM 1, 2.1 FEET NORTH OF A FENCE, 1.0 FEET NORTH 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	1837.795	0.016	560.161	0.005	2/1	2017	00000903
NGVD29	1836.981	0.016	559.913	0.005	2/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.436 12B = -84.458 09 = -84.357 03 = -84.288

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDARY_RM_2-PR0127-3S-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDARY_RM_2-PR0127-3S-23JUN2015.jpg</a>	S	Jun 23, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDARY_RM_2-PR0127-2-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDARY_RM_2-PR0127-2-23JUN2015.jpg</a>		Jun 23, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDARY_RM_2-PR0127-1-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDARY_RM_2-PR0127-1-23JUN2015.jpg</a>		Jun 23, 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\\_17698.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17698.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17698.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17698.pdf)



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

Mn/DOT Name: MEDI

NGS Name: MEDI

County: LINCOLN, MN (Sheet 1)

NGS ACRN: <a href="#">DP5874</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096123/	
USGS Quad: PORTER 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	112 N	44 W	443157.76	961203.33		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>
2010	2019	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 27 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2011)                      **Stamping:** MEDI 2010

5.8 MILES NORTHEAST OF IVANHOE, 4.0 MILES NORTH ALONG COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 5 AND TRUNK HIGHWAY 19 IN IVANHOE, TO TRUNK HIGHWAY 19 MILEPOINT 11.4, THEN 1.0 MILE EAST ON 320TH STREET, THEN 1.0 MILE NORTH ON 220TH AVENUE, THEN 1.0 MILE EAST ON 330TH STREET, 35.0 FEET SOUTH OF 330TH STREET, 17.0 FEET EAST OF A FIELD ENTRANCE, 70.0 FEET SOUTH OF CABLE BOX NUMBER 9C4, 2.0 FEET WEST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.928    12B = -85.918    09 = -85.823    03 = -85.725

Geodetic Position and Lincoln County Coordinates

<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)	44 31 57.75905	96 12 03.33037	517145.213	222526.062	157626.176	67826.079	462.302			2014	GPS3047	
NAD83 (1996)	44 31 57.75849	96 12 03.33087	517145.177	222526.005	157626.165	67826.062	462.363	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDI-DP5874-3S-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDI-DP5874-3S-23OCT2019.jpg</a>	S	Oct 23, 2019
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDI-DP5874-2-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDI-DP5874-2-23OCT2019.jpg</a>		Oct 23, 2019
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDI-DP5874-1-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/MEDI-DP5874-1-23OCT2019.jpg</a>		Oct 23, 2019

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_93370.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93370.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93370.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93370.pdf)





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

Mn/DOT Name: MNCORS HNDK HENDRICKS ARP

NGS Name: HENDRICKS CORS ARP

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL9800](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096244/  
 USGS Quad: LAKE BENTON NW

<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	17	112 N	46 W	442731.99	962607.76	2	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>
2007	2016	GOOD	Horz=YES Vert=YES	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	SEE DESCRIPTION	MNDT

**Description:** (2008)

**Stamping:**

3.4 MILES SOUTH OF HENDRICKS, 0.5 MILE WEST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 271 IN HENDRICKS, AT TRUNK HIGHWAY 19 MILEPOINT 1.80, 65.0 FEET NORTH OF TRUNK HIGHWAY 19, 63.0 FEET WEST OF A ROAD WEATHER INFORMATION SYSTEM (RWIS), 17.0 FEET SOUTH OF A POWER POLE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet) Height Accuracy</u>	<u>Orthometric (Meters) Height Accuracy</u>	<u>Survey Order/(Class)</u>	<u>Project Info Year Reference</u>
NAVD88	1809.744 0.016	551.611 0.005	2/1	2020 00000949

Geoid Separations(ft): GEOID18 = -84.183 12B = -84.166 09 = -84.084 03 = -84.032

Geodetic Position and Lincoln County Coordinates

<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)	44 27 31.98586	96 26 07.76315	455915.901	195647.731	138963.445	59633.548	525.971			2025	GPS3848	
NAD83 (2007)	44 27 31.98568	96 26 07.76432	455915.816	195647.713	138963.419	59633.542	525.957	A		2010	CORS283	
NAD83 (1996)	44 27 31.98485	96 26 07.76437	455915.812	195647.629	138963.418	59633.517	526.010	C		2020	HTH271	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS_CORS_ARP-DL9800-3N-19NOV2007.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS_CORS_ARP-DL9800-3N-19NOV2007.jpg</a>	N	Nov 19, 2007
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS_CORS_ARP-DL9800-2-02JAN2008.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS_CORS_ARP-DL9800-2-02JAN2008.jpg</a>		Jan 2, 2008
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS_CORS_ARP-DL9800-1-19NOV2007.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS_CORS_ARP-DL9800-1-19NOV2007.jpg</a>		Nov 19, 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\\_76758.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_76758.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_76758.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_76758.pdf)



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

Mn/DOT Name: MNCORS HNDK HENDRICKS L1PC1

NGS Name: HENDRICKS CORS L1 PHASE CENTER

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL9801](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096244/  
 USGS Quad: LAKE BENTON 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	112 N	46 W	442731.99	962607.76		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>
2007	2011	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)	SEE DESCRIPTION	MNDT

**Description:** (2012)

**Stamping:**

3.4 MILES SOUTH OF HENDRICKS, 0.5 MILE WEST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 271 IN HENDRICKS, AT TRUNK HIGHWAY 19 MILEPOINT 1.80, 65.0 FEET NORTH OF TRUNK HIGHWAY 19, 63.0 FEET WEST OF A ROAD WEATHER INFORMATION SYSTEM (RWIS), 17.0 FEET SOUTH OF A POWER POLE. THE STATION IS IN ZEPHYR GEODETIC ANTENNA SERIAL NUMBER 12534104.

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

Geoid Separations(ft): GEOID18 = -84.183 12B = -84.166 09 = -84.084 03 = -84.032

Geodetic Position and Lincoln County Coordinates

<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)	44 27 31.98589	96 26 07.76343	455915.881	195647.734	138963.438	59633.549	526.018	A	2011	CORS342
NAD83 (2007)	44 27 31.98572	96 26 07.76433	455915.816	195647.717	138963.419	59633.544	526.023	A	2010	CORS283

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS_CORS_L1_PHASE_CENTER-DL9801-3S-19NOV2007.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS_CORS_L1_PHASE_CENTER-DL9801-3S-19NOV2007.jpg</a>	S	Nov 19, 2007
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS_CORS_L1_PHASE_CENTER-DL9801-2-02JAN2008.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS_CORS_L1_PHASE_CENTER-DL9801-2-02JAN2008.jpg</a>		Jan 2, 2008
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS_CORS_L1_PHASE_CENTER-DL9801-1-19NOV2007.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS_CORS_L1_PHASE_CENTER-DL9801-1-19NOV2007.jpg</a>		Nov 19, 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\\_91149.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_91149.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_91149.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_91149.pdf)



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

Mn/DOT Name: MNCORS HNDK HENDRICKS L1PC2

NGS Name: HENDRICKS CORS L1 PHASE CENTER

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DM8532](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096244/  
 USGS Quad: LAKE BENTON NW

<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	17	112 N	46 W	442731.99	962607.76		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>
2011	2011	GOOD	Horz=YES Vert=YES	YES			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	SEE DESCRIPTION	MNDT

**Description:** (2012)

**Stamping:**

3.4 MILES SOUTH OF HENDRICKS, 0.5 MILE WEST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 271 IN HENDRICKS, AT TRUNK HIGHWAY 19 MILEPOINT 1.80, 65.0 FEET NORTH OF TRUNK HIGHWAY 19, 63.0 FEET WEST OF A ROAD WEATHER INFORMATION SYSTEM (RWIS), 17.0 FEET SOUTH OF A POWER POLE. STATION MNCORS HNDK HENDRICKS L1PC2 IS IN ZEPHYR GEODETIC ANTENNA LF MODEL 2 SERIAL NUMBER 1441107296.

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

Geoid Separations(ft): GEOID18 = -84.183 12B = -84.166 09 = -84.084 03 = -84.032

Geodetic Position and Lincoln County Coordinates

<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)	44 27 31.98589	96 26 07.76343	455915.881	195647.734	138963.438	59633.549	526.018	A	2011	CORS342
NAD83 (2007)	44 27 31.98572	96 26 07.76433	455915.816	195647.717	138963.419	59633.544	526.023	A	2010	CORS283

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS CORS L1 PHASE CENTER-DM8532-3W-24MAY2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS CORS L1 PHASE CENTER-DM8532-3W-24MAY2011.jpg</a>	W	May 24, 2011
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS CORS L1 PHASE CENTER-DM8532-2-24MAY2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS CORS L1 PHASE CENTER-DM8532-2-24MAY2011.jpg</a>		May 24, 2011
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS CORS L1 PHASE CENTER-DM8532-1-24MAY2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/HENDRICKS CORS L1 PHASE CENTER-DM8532-1-24MAY2011.jpg</a>		May 24, 2011

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_95728.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95728.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_95728.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95728.pdf)



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

Mn/DOT Name: PANKA

NGS Name: PANKA

County: LINCOLN, MN (Sheet 1)

NGS ACRN: <a href="#">DP5876</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096132/	
USGS Quad: CANBY SE	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	45 W	443351.02	961633.73		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>
2010	2010	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:** (2010)                      **Stamping:** PANKA 2010

7.3 MILES NORTH OF IVANHOE, 7.45 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, AT TRUNK HIGHWAY 75 MILEPOINT 76.35, 65.7 FEET WEST OF TRUNK HIGHWAY 75, 14.5 FEET SOUTH OF A POWER POLE WITH 2 GUY WIRES, 63.0 FEET NORTH OF CABLE BOX NUMBER 9Y4, 2.0 FEET EAST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.065    12B = -85.056    09 = -84.974    03 = -84.905

Geodetic Position and Lincoln County Coordinates

<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)	44 33 51.01514	96 16 33.73455	497557.459	233989.759	151655.817	71320.221	464.550			2014	GPS3047	
NAD83 (1996)	44 33 51.01456	96 16 33.73504	497557.424	233989.701	151655.806	71320.203	464.609	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PANKA-DP5876-3W-23DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PANKA-DP5876-3W-23DEC2010.jpg</a>	W	Dec 23, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PANKA-DP5876-2-23DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PANKA-DP5876-2-23DEC2010.jpg</a>		Dec 23, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PANKA-DP5876-1-23DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PANKA-DP5876-1-23DEC2010.jpg</a>		Dec 23, 2010

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_93293.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93293.pdf)  
 Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93293.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93293.pdf)



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

Mn/DOT Name: PARLE

NGS Name: PARLE

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0735](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/1021  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	45 W	443302.37	961747.14		2

<u>Year Set</u>	<u>Last Recovery</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	1954	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:** (1954)                      **Stamping:** PARLE 1935

6.5 MILES NORTHWEST OF IVANHOE, 5.9 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, 1.1 MILES WEST ON TOWNSHIP ROAD 59, 0.5 MILE NORTH ON COUNTY ROAD 105.

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

Geoid Separations(ft): GEOID18 = -84.960    12B = -84.944    09 = -84.865    03 = -84.806

Geodetic Position and Lincoln County Coordinates

<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)	44 33 02. 37435	96 17 47. 13805	492240. 908	229064. 738	150035. 329	69819. 072	492. 131	2	1999	17648
NAD83 (1986)	44 33 02. 37405	96 17 47. 12164	492242. 096	229064. 708	150035. 691	69819. 063		2	1986	17289
NAD27	44 33 02. 50300	96 17 45. 96300						2	1938	03790

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17699.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17699.pdf)  
 Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17699.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17699.pdf)



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

Mn/DOT Name: PARLE 2

NGS Name: PARLE 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0736](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/1021  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	45 W	443302.37	961747.34		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>
1954	2019	GOOD	Horz=YES Vert=YES	YES		PROJECTS 6 IN.	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

**Description:** (2010)                      **Stamping:** PARLE 2 1954

6.5 MILES NORTH-NORTHWEST OF IVANHOE, 6.0 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, THEN 1.1 MILES WEST ON COUNTY ROAD 18, THEN 0.5 MILE SOUTH ON COUNTY ROAD 105, 50.0 FEET WEST OF COUNTY ROAD 105, 2.0 FEET EAST OF THE EAST EDGE OF A FIELD, 48.33 FEET SOUTH OF PARLE 2 RM 3, 98.16 FEET WEST OF STATION PARLE 3, 1.5 FEET EAST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -84.960    12B = -84.944    09 = -84.865    03 = -84.806

Geodetic Position and Lincoln County Coordinates

<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)	44 33 02.37166	96 17 47.33462	492226.672	229064.471	150030.990	69818.990	492.699		2014	GPS3047
NAD83 (1996)	44 33 02.37107	96 17 47.33503	492226.642	229064.411	150030.981	69818.972	492.759	C	2011	HTH75
NAD83 (1986)	44 33 02.37025	96 17 47.31803	492227.873	229064.328	150031.356	69818.947		2	1986	17289
NAD27	44 33 02.49900	96 17 46.16000						2	1986	10744

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PARLE_2-PR0736-3W-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PARLE_2-PR0736-3W-23OCT2019.jpg</a>	W	Oct 23, 2019
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PARLE_2-PR0736-2-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PARLE_2-PR0736-2-23OCT2019.jpg</a>		Oct 23, 2019
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PARLE_2-PR0736-1-23OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PARLE_2-PR0736-1-23OCT2019.jpg</a>		Oct 23, 2019

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17700.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17700.pdf)  
 Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17700.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17700.pdf)



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

Mn/DOT Name: PARLE 2 RM 3

NGS Name: PARLE 2 RM 3

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO9386](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/1021  
 USGS Quad: CANBY SE

	<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>
SE	32	113 N	45 W	443302.85	961747.35		

<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>
1954	2010	NOT FOUND	Horz=NO Vert=YES	NO		PROJECTS 2 IN.	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	REFERENCE MARK DISK	NGS

**Description:** (2007)                      **Stamping:** PARLE 2 NO 3 1954

6.5 MILES NORTH-NORTHWEST OF IVANHOE, 6.0 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, THEN 1.1 MILES WEST ON COUNTY ROAD 18, THEN 0.5 MILE SOUTH ON COUNTY ROAD 105, 50.0 FEET WEST OF THE APPROXIMATE CENTER OF THE COUNTY ROAD.

**Station Notes**

IN 1996 THE DEPARTMENT OF NATURAL RESOURCES (DNR) FOUND STATION PARLE 2, PARLE 2 RM 3, AND PARLE 2 RM 4 IN GOOD CONDITION.

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

Geoid Separations(ft): GEOID18 = -84.964    12B = -84.944    09 = -84.869    03 = -84.806

\* No Horizontal Positions in the Database \*

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

- Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67357.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67357.pdf)
- Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67357.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67357.pdf)



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

Mn/DOT Name: PARLE 2 RM 4

NGS Name: PARLE 2 RM 4

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO9387](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/1021  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	45 W	443301.79	961747.35		

<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>
1954	2010	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 2 IN.	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	REFERENCE MARK DISK	NGS

**Description:** (2016)                      **Stamping:** PARLE 2 NO 4 1954

6.5 MILES NORTH-NORTHWEST OF IVANHOE, 6.0 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, THEN 1.1 MILES WEST ON COUNTY ROAD 18, 0.5 MILE SOUTH ON COUNTY ROAD 105, 50.0 FEET WEST OF THE APPROXIMATE CENTER OF THE COUNTY ROAD.

**Station Notes**

IN 1996 THE DEPARTMENT OF NATURAL RESOURCES (DNR) FOUND STATION PARLE 2, PARLE 2 RM 3, AND PARLE 2 RM 4 IN GOOD CONDITION.  
 THE DISK WAS TURNED IN TO THE OFFICE.

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

Geoid Separations(ft): GEOID18 = -84.964    12B = -84.944    09 = -84.869    03 = -84.806

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67360.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67360.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67360.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67360.pdf)



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

Mn/DOT Name: PARLE 3

NGS Name: PARLE 3

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0738](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/1021  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	45 W	443302.38	961745.98		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>
1966	2010	NOT FOUND	Horz=NO Vert=YES	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:** PARLE 3 1966

6.5 MILES NORTH-NORTHWEST OF IVANHOE, 6.0 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 19 IN IVANHOE, 1.1 MILES WEST ON COUNTY ROAD 18, 0.5 MILE SOUTH ON COUNTY ROAD 105, 48.5 FEET EAST OF COUNTY ROAD 105, 2.5 FEET SOUTH OF A WITNESS POST, 0.5 FOOT WEST OF A NORTH-SOUTH FENCE LINE, 110.01 FEET SOUTHEAST OF PARLE 3 RM 3, 115.61 FEET NORTHEAST OF PARLE 3 RM 4, 137.68 FEET NORTH OF PARLE 3 RM 5, 98.16 FEET EAST OF STATION PARLE 2.

**Station Notes**

IN 1996 THE DEPARTMENT OF NATURAL RESOURCES (DNR) FOUND STATION PARLE 3, PARLE 3 RM 3, PARLE 3 RM 4, AND PARLE 3 RM 5 IN GOOD CONDITION.

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

Geoid Separations(ft): GEOID18 = -84.964    12B = -84.947    09 = -84.869    03 = -84.810

Geodetic Position and Lincoln County Coordinates

<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)	44 33 02.38022	96 17 45.97947	492324.814	229065.302	150060.903	69819.244	491.630	1	1999	17648		
NAD83 (1986)	44 33 02.37994	96 17 45.96251	492326.042	229065.274	150061.278	69819.235		1	1986	17289		
NAD27	44 33 02.50879	96 17 44.80472						1	1977	15955		

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17701.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17701.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17701.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17701.pdf)



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

Mn/DOT Name: PARLE 3 AZ MK

NGS Name: PARLE 3 AZ MK

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO9388](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/1021  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	32	113 N	45 W	443305.00	961745.00		

<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	2010	NOT FOUND	Horz=NO Vert=YES	NO		FLUSH	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	NGS

**Description:** (2007)

**Stamping:** PARLE 1935

6.5 MILES NORTHWEST OF IVANHOE, 6.0 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, 1.1 MILES WEST ON TOWNSHIP ROAD 59, 0.5 MILE NORTH ON COUNTY ROAD 105, 116.0 FEET EAST OF A POWER LINE POLE, 47.0 FEET NORTH OF THE CENTER OF A GRAVEL ROAD, 4.0 FEET SOUTH OF A METAL WITNESS POST IN A FENCE LINE.

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

Geoid Separations(ft): GEOID18 = -84.964 12B = -84.944 09 = -84.869 03 = -84.806

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67361.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67361.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67361.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67361.pdf)



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

Mn/DOT Name: PARLE 3 RM 5

NGS Name: PARLE 3 RM 5

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO9389](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/1021  
 USGS Quad: CANBY SE

<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	32	113 N	45 W	443301.02	961746.00		

<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	2010	NOT FOUND	Horz=NO Vert=YES	YES		FLUSH	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

**Description:** (2007)                      **Stamping:** PARLE 3 NO 5 1966

6.5 MILES NORTH-NORTHWEST OF IVANHOE, 6.0 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 19 IN IVANHOE, 1.1 MILES WEST ON COUNTY ROAD 18, 0.5 MILE SOUTH ON COUNTY ROAD 105, 48.0 FEET EAST OF THE CENTER OF A GRAVEL ROAD, 137.68 FEET SOUTH OF STATION PARLE 3, 1.0 FOOT WEST OF A FENCE.

**Station Notes**

IN 1996 THE DEPARTMENT OF NATURAL RESOURCES (DNR) FOUND STATION PARLE 3, PARLE 3 RM 3, PARLE 3 RM 4, AND PARLE 3 RM 5 IN GOOD CONDITION.

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

Geoid Separations(ft): GEOID18 = -84.974    12B = -84.957    09 = -84.878    03 = -84.816

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67362.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67362.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67362.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67362.pdf)



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

Mn/DOT Name: PARLE AZ MK

NGS Name: PARLE AZ MK

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO9383](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/1021  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	32	113 N	45 W	443305.00	961746.00		

<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	2010	NOT FOUND	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)	AZIMUTH MARK DISK	NGS

**Description:** (2016)                      **Stamping:** PARLE 1935

6.5 MILES NORTH-NORTHWEST OF IVANHOE, 6.0 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 19 IN IVANHOE, 1.1 MILES WEST ON COUNTY ROAD 18, 0.5 MILE NORTH ON COUNTY ROAD 105, IN THE SOUTHEAST CORNER OF THE SCHOOLYARD, 47.0 FEET NORTH OF THE APPROXIMATE CENTER OF A GRAVEL ROAD, 42.0 FEET EAST OF THE SOUTHEAST CORNER OF THE SCHOOLHOUSE.

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

Geoid Separations(ft): GEOID18 = -84.960    12B = -84.944    09 = -84.865    03 = -84.803

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67353.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67353.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67353.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67353.pdf)



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

Mn/DOT Name: PARLE RM 1

NGS Name: PARLE RM 1

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO9384](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/1021  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	45 W	443302.00	961746.00		

<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	1954	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)	REFERENCE MARK DISK	NGS

**Description:** (2016)

**Stamping:** PARLE NO 1 1935

6.5 MILES NORTH-NORTHWEST OF IVANHOE, 6.0 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 19 IN IVANHOE, 1.1 MILES WEST ON COUNTY ROAD 18, 0.5 MILE NORTH ON COUNTY ROAD 105, NORTH OF STATION PARLE, 35.0 FEET WEST OF THE CENTERLINE OF A ROAD, 3.0 FEET EAST OF A FENCE LINE.

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

Geoid Separations(ft): GEOID18 = -84.964 12B = -84.947 09 = -84.869 03 = -84.810

\* 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\\_67350.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67350.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67350.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67350.pdf)



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

Mn/DOT Name: PARLE RM 2

NGS Name: PARLE RM 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO9385](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/1021  
 USGS Quad: CANBY SE

<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	32	113 N	45 W	443302.00	961746.00		

<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	1954	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)	REFERENCE MARK DISK	NGS

**Description:** (2016)                      **Stamping:** PARLE NO 2 1935

6.5 MILES NORTH-NORTHWEST OF IVANHOE, 6.0 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, 1.1 MILES WEST ON COUNTY ROAD 18, 0.5 MILE NORTH ON COUNTY ROAD 105, SOUTH OF STATION PARLE, 36.0 FEET WEST OF THE CENTERLINE OF A ROAD, 2.0 FEET EAST OF A FENCE LINE.

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

Geoid Separations(ft): GEOID18 = -84.964    12B = -84.947    09 = -84.869    03 = -84.810

\* 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\\_67351.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67351.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67351.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67351.pdf)



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

Mn/DOT Name: PENSKE

NGS Name: PENSKE

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5941](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096214/  
 USGS Quad: ARCO

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	36	112 N	45 W	442755.76	961316.25	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2009	2009	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

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

**Description:** (2016)                      **Stamping:** PENSKE 2009

1.4 MILES EAST OF IVANHOE, 1.5 MILES EAST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 WEST OF IVANHOE, TO TRUNK HIGHWAY 19 MILEPOINT 12.5, THEN 0.35 MILE NORTH ON COUNTY ROAD 110, 29.6 FEET EAST OF COUNTY ROAD 110, 27.3 FEET SOUTH OF A FIELD ENTRANCE, 5.5 FEET SOUTH OF A POWER POLE, 1.4 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	1661.270 0.016	506.356 0.005	2/1	2013 00000797

Geoid Separations(ft): GEOID18 = -85.964 12B = -85.964 09 = -85.859 03 = -85.738

Geodetic Position and Lincoln County Coordinates

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)	44 27 55.76046	96 13 16.24958	511876.306	198013.375	156020.210	60354.597	480.154	C	2012	GPS2800		
NAD83 (2007)	44 27 55.76028	96 13 16.25039	511876.247	198013.357	156020.192	60354.592	480.178	C	2009	GPS2587		
NAD83 (1996)	44 27 55.75981	96 13 16.25001	511876.274	198013.309	156020.201	60354.577	480.216	C	2009	HIVAN		

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PENSKE-DL5941-3E-20MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PENSKE-DL5941-3E-20MAY2009.jpg</a>	E	May 20, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PENSKE-DL5941-2-20MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PENSKE-DL5941-2-20MAY2009.jpg</a>		May 20, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PENSKE-DL5941-1-20MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PENSKE-DL5941-1-20MAY2009.jpg</a>		May 20, 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\\_86379.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_86379.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_86379.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_86379.pdf)



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

Mn/DOT Name: PERCH MN081

NGS Name: PERCH

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6631](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/  
 USGS Quad: CANBY SE

<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>
SW	15	112 N	45 W	443016.41	961540.58	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>
2002	2021	GOOD	Horz=YES 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	MN-081

**Description:** (2006)                      **Stamping:** PERCH 2001

3.1 MILES NORTH OF IVANHOE, 3.1 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, AT TRUNK HIGHWAY 75 MILES 72.05, 343.0 FEET NORTH OF COUNTY ROAD 17, 75.0 FEET EAST OF TRUNK HIGHWAY 75, 1.5 FEET NORTH OF A WITNESS POST.

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	1652.667	0.016	503.734	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.541 12B = -85.538 09 = -85.423 03 = -85.328

Geodetic Position and Lincoln County Coordinates

<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)	44 30 16.40681	96 15 40.58320	501407.301	212254.443	152829.251	64695.284	477.673			2014	GPS3047	
NAD83 (2007)	44 30 16.40663	96 15 40.58395	501407.247	212254.425	152829.234	64695.278	477.706			2007	GPS2300	
NAD83 (1996)	44 30 16.40618	96 15 40.58347	501407.281	212254.379	152829.245	64695.264	477.743	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PERCH-DF6631-3E-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PERCH-DF6631-3E-03MAY2021.jpg</a>	E	May 3, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PERCH-DF6631-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PERCH-DF6631-2-03MAY2021.jpg</a>		May 3, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PERCH-DF6631-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PERCH-DF6631-1-03MAY2021.jpg</a>		May 3, 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\\_41598.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41598.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41598.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41598.pdf)



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

Mn/DOT Name: PETERSON

NGS Name: PETERSON

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5942](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096244/  
 USGS Quad: LAKE BENTON 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	3	111 N	46 W	442718.27	962303.15		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>
2009	2009	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 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2009)                      **Stamping:** PETERSON 2009

6.5 MILES WEST OF IVANHOE, 6.0 MILES WEST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, TO TRUNK HIGHWAY 19 MILEPOINT 4.35, THEN 0.25 MILE SOUTH ON COUNTY ROAD 101, 42.2 FEET EAST OF COUNTY ROAD 101, 6.6 FEET SOUTH OF CABLE BOX NUMBER ONU4C3LP2, 1.1 FEET WEST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -84.652    12B = -84.645    09 = -84.557    03 = -84.481

Geodetic Position and Lincoln County Coordinates

<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)	44 27 18.27450	96 23 03.15098	469304.738	194235.652	143044.370	59203.145	514.964		2012	GPS2800
NAD83 (2007)	44 27 18.27436	96 23 03.15190	469304.672	194235.638	143044.350	59203.141	514.985	C	2009	GPS2587
NAD83 (1996)	44 27 18.27387	96 23 03.15140	469304.708	194235.588	143044.361	59203.126	515.029	C	2009	HIVAN

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PETERSON-DL5942-3E-19MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PETERSON-DL5942-3E-19MAY2009.jpg</a>	E	May 19, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PETERSON-DL5942-2-19MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PETERSON-DL5942-2-19MAY2009.jpg</a>		May 19, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PETERSON-DL5942-1-19MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PETERSON-DL5942-1-19MAY2009.jpg</a>		May 19, 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\\_86370.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_86370.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_86370.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_86370.pdf)



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

Mn/DOT Name: PICARD MNDT

NGS Name: PICARD

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AB9865](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096231/  
 USGS Quad: VERDI

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	46 W	441245.13	962147.47	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>
1994	2011	GOOD	Horz=NO Vert=NO	YES		RECESSED 5 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (NO SLEEVE) (DEPTH 28 FT)	METAL ROD	MNDT

**Description:** (2010)                      **Stamping:** PICARD 1994

0.6 MILE WEST-NORTHWEST OF VERDI, 3.3 MILES WEST OF THE JUNCTION OF TRUNK HIGHWAY 75 AND COUNTY ROAD 9, 0.6 MILE WEST ALONG COUNTY ROAD 9 FROM THE EAST JUNCTION OF COUNTY ROAD 9 AND COUNTY ROAD 2 IN VERDI TO THE WEST JUNCTION OF COUNTY ROAD 2 AND COUNTY ROAD 9, THEN 0.05 MILE NORTH ON COUNTY ROAD 2, 98.0 FEET EAST OF COUNTY ROAD 2, 58.5 FEET EAST-SOUTHEAST OF A POWER POLE, 27.8 FEET NORTH OF THE NORTH RAIL, 3.3 FEET 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 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	1765.548	0.016	538.140	0.005	2/1	2009	00000425-36

Geoid Separations(ft): GEOID18 = -84.645    12B = -84.685    09 = -84.580    03 = -84.485

**Geodetic Position and Lincoln County Coordinates**

<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)	44 12 45.13005	96 21 47.47390	474690.012	105800.689	144685.805	32248.115	512.326			2014	GPS3047	
NAD83 (2007)	44 12 45.12997	96 21 47.47487	474689.942	105800.681	144685.784	32248.112	512.358			2007	GPS2300	
NAD83 (1996)	44 12 45.12940	96 21 47.47430	474689.983	105800.624	144685.796	32248.095	512.391	B		2005	GPS2036	

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PICARD-AB9865-3E-07OCT2008.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PICARD-AB9865-3E-07OCT2008.jpg</a>	E	Oct 7, 2008
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PICARD-AB9865-2-07OCT2008.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PICARD-AB9865-2-07OCT2008.jpg</a>		Oct 7, 2008
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PICARD-AB9865-1-07OCT2008.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PICARD-AB9865-1-07OCT2008.jpg</a>		Oct 7, 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\\_17702.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17702.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17702.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17702.pdf)



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

Mn/DOT Name: PLUEGER MN081

NGS Name: PLUEGER

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6632](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096234/  
 USGS Quad: ELKTON

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	15	109 N	46 W	441432.16	962259.70	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2001	2015	GOOD	Horz=YES Vert=YES	YES		PROJECTS 1 IN.	STEEL ROD IMBED IN MON

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MN-081

**Description:** (2015)                      **Stamping:** PLUEGER 2001

5.0 MILES SOUTHWEST OF LAKE BENTON, 4.8 MILES WEST ON TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, TO TRUNK HIGHWAY 14 MILEPOINT 3.4, THEN 1.9 MILES SOUTH ON 140TH AVENUE, 677.0 FEET NORTH OF COUNTY ROAD 10, 42.0 FEET EAST OF 140TH AVENUE, 137.0 FEET SOUTHEAST OF A POWER POLE, 13.0 FEET SOUTH OF A FIELD ENTRANCE, 1.0 FOOT 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	1840.170 0.016	560.885 0.005	2/1	2009 00000425-36

Geoid Separations(ft): GEOID18 = -84.544 12B = -84.580 09 = -84.478 03 = -84.393

Geodetic Position and Lincoln County Coordinates

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)	44 14 32.15657	96 22 59.69841	469444.629	116646.506	143087.009	35553.926	535.090			2018	GPS3119	
NAD83 (2007)	44 14 32.15649	96 22 59.69940	469444.557	116646.498	143086.987	35553.924	535.126			2007	GPS2300	
NAD83 (1996)	44 14 32.15620	96 22 59.69885	469444.597	116646.469	143086.999	35553.915	535.157	C		2017	HMNCORS	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PLUEGER-DF6632-3E-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PLUEGER-DF6632-3E-22JUN2015.jpg</a>	E	Jun 22, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PLUEGER-DF6632-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PLUEGER-DF6632-2-22JUN2015.jpg</a>		Jun 22, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PLUEGER-DF6632-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PLUEGER-DF6632-1-22JUN2015.jpg</a>		Jun 22, 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\\_41594.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41594.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41594.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41594.pdf)



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

Mn/DOT Name: PORTER MN081

NGS Name: PORTER

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6633](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096123/  
 USGS Quad: PORTER 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	113 N	44 W	443513.87	960917.31		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		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	MN-081

**Description:** (2009)                      **Stamping:** PORTER 2001

3.0 MILES SOUTH OF PORTER, 0.6 MILE SOUTH AND EAST ALONG COUNTY ROAD 7 FROM THE JUNCTION OF TRUNK HIGHWAY 68 IN PORTER, THEN 3.0 MILES SOUTH ALONG COUNTY ROAD 7, THEN 1.0 MILE EAST ALONG COUNTY ROAD 19, 132.0 FEET SOUTHWEST OF A POWER POLE, 15.0 FEET WEST OF A FIELD ENTRANCE, 97.0 FEET WEST OF A TOWNSHIP ROAD, 46.0 FEET NORTH OF COUNTY ROAD 19, 1.5 FEET SOUTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -86.030    12B = -86.037    09 = -85.915    03 = -85.820

Geodetic Position and Lincoln County Coordinates

<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)	44 35 13. 87367	96 09 17. 30690	529145. 399	242401. 407	161283. 840	73884. 097	376. 220			2012	GPS2800	
NAD83 (2007)	44 35 13. 87349	96 09 17. 30807	529145. 315	242401. 389	161283. 815	73884. 091	376. 261			2007	GPS2300	
NAD83 (1996)	44 35 13. 87305	96 09 17. 30769	529145. 342	242401. 344	161283. 823	73884. 078	376. 289	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PORTER-DF6633-3N-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PORTER-DF6633-3N-03MAY2021.jpg</a>	N	May 3, 2021
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PORTER-DF6633-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PORTER-DF6633-2-03MAY2021.jpg</a>		May 3, 2021
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PORTER-DF6633-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/PORTER-DF6633-1-03MAY2021.jpg</a>		May 3, 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\\_41601.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41601.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41601.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41601.pdf)



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

Mn/DOT Name: RICKS

NGS Name: RICKS

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ3879](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096133/  
 USGS Quad: HENDRICKS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	18	112 N	46 W	443054.96	962528.33	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2016	2019	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 26 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2016)                      **Stamping:** RICKS 2016

IN HENDRICKS, 0.55 MILE NORTH ALONG TRUNK HIGHWAY 271 FROM THE JUNCTION OF TRUNK HIGHWAY 271 AND COUNTY ROAD 17 WEST IN HENDRICKS, AT TRUNK HIGHWAY 271 MILEPOINT 3.9, 67.5 FEET WEST OF TRUNK HIGHWAY 271, 1.5 FEET NORTH OF A WITNESS POST.

**Station Pair:** HANSOL - LINCOLN, MN

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1775.531	0.016	541.183	0.005	2/1	2020	00000949

Geoid Separations(ft): GEOID18 = -83.940    12B = -83.953    09 = -83.835    03 = -83.796

Geodetic Position and Lincoln County Coordinates

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)	44 30 54.95789	96 25 28.33194		458815.705	216198.509	139847.307	65897.437	515.611		2020	GPS3343
NAD83 (1996)	44 30 54.95716	96 25 28.33228		458815.680	216198.435	139847.299	65897.415	515.677	C	2020	HTH271

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/RICKS-DQ3879-3N-29MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/RICKS-DQ3879-3N-29MAR2016.jpg</a>	N	Mar 29, 2016
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/RICKS-DQ3879-2-29MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/RICKS-DQ3879-2-29MAR2016.jpg</a>		Mar 29, 2016
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/RICKS-DQ3879-1-29MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/RICKS-DQ3879-1-29MAR2016.jpg</a>		Mar 29, 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\\_104938.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104938.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104938.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104938.pdf)



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

Mn/DOT Name: RODGERS

NGS Name: RODGERS

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2386](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096221/  
 USGS Quad: RUTHTON

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	13	109 N	44 W	441446.58	960451.15	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2016	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 29 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2015)                      **Stamping:** RODGERS 2015

3.0 MILES SOUTHEAST OF TYLER, 3.25 MILES SOUTHEAST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND COUNTY ROAD 7 IN TYLER, AT TRUNK HIGHWAY 14 MILEPOINT 19.45, 43.6 FEET NORTHEAST OF TRUNK HIGHWAY 14, 36.7 FEET WEST-SOUTHWEST OF A CABLE BOX, 1.5 FEET SOUTHWEST OF A WITNESS POST.

**Station Pair:** BROWN - LINCOLN, MN

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1684.432	0.016	513.416	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -86.096    12B = -86.135    09 = -86.030    03 = -85.918

Geodetic Position and Lincoln County Coordinates

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)	44 14 46.57847	96 04 51.14561	548691.371	118140.584	167241.465	36009.322	487.175	2016	GPS3151			
NAD83 (1996)	44 14 46.57752	96 04 51.14581	548691.357	118140.488	167241.460	36009.293	487.231	C	2016	HTYLR		

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/RODGERS-DQ2386-3NE-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/RODGERS-DQ2386-3NE-08JUL2015.jpg</a>	NE	Jul 8, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/RODGERS-DQ2386-2-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/RODGERS-DQ2386-2-08JUL2015.jpg</a>		Jul 8, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/RODGERS-DQ2386-1-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/RODGERS-DQ2386-1-08JUL2015.jpg</a>		Jul 8, 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\\_104041.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104041.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104041.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104041.pdf)



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

Mn/DOT Name: ROST

NGS Name: ROST

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5943](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096214/  
 USGS Quad: ARCO

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	44 W	442725.51	960827.23		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>
2009	2009	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 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2009)                      **Stamping:** ROST 2009

5.5 MILES EAST OF IVANHOE, 6.0 MILES EAST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, TO TRUNK HIGHWAY 19 MILEPOINT 16.4, THEN 0.15 MILE SOUTH ON 260TH AVENUE, 25.7 FEET WEST OF 260TH AVENUE, ON THE CENTERLINE EXTEND A FIELD ENTRANCE, 1.1 FEET EAST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -86.532    12B = -86.532    09 = -86.440    03 = -86.306

Geodetic Position and Lincoln County Coordinates

<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)	44 27 25.50763	96 08 27.23127	532842.598	194971.396	162410.749	59427.400	467.793		2012	GPS2800
NAD83 (2007)	44 27 25.50750	96 08 27.23219	532842.531	194971.383	162410.728	59427.396	467.826	C	2009	GPS2587
NAD83 (1996)	44 27 25.50702	96 08 27.23183	532842.557	194971.334	162410.736	59427.382	467.858	C	2009	HIVAN

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ROST-DL5943-3W-19MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ROST-DL5943-3W-19MAY2009.jpg</a>	W	May 19, 2009
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ROST-DL5943-2-19MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ROST-DL5943-2-19MAY2009.jpg</a>		May 19, 2009
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ROST-DL5943-1-19MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/ROST-DL5943-1-19MAY2009.jpg</a>		May 19, 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\\_86369.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_86369.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_86369.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_86369.pdf)



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

Mn/DOT Name: ROUTE 14 STA 336+30.0 CL 70.0

NGS Name: ROUTE 14 STA 336+30.0 CL 70.0

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO7912](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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>
SW	1	109 N	46 W	441612.27	961959.91		

<u>Year Set</u>	<u>Last Recovery</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	GOOD	Horz=YES Vert=YES	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	UNK

**Description:**

**Stamping:**

2.4 MILES WEST OF LAKE BENTON, 2.3 MILES WEST ON TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON.

**Station Notes**

SEE MICROFICHE BY CONTROL SECTION.

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

Geoid Separations(ft): GEOID18 = -84.691 12B = -84.724 09 = -84.642 03 = -84.563

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67364.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67364.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67364.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67364.pdf)



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

Mn/DOT Name: ROUTE 14 STA 381+95.0 ROW POST

NGS Name: ROUTE 14 STA 381+95.0 ROW POST

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO8806](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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	7	109 N	45 W	441612.72	961856.64		

<u>Year Set</u>	<u>Last Recovery</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	GOOD	Horz=YES Vert=YES	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	UNK

**Description:**

**Stamping:**

1.4 MILES WEST OF LAKE BENTON, 1.4 MILES WEST ON TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON.

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

Geoid Separations(ft): GEOID18 = -84.780 12B = -84.806 09 = -84.737 03 = -84.659

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67367.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67367.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67367.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67367.pdf)



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

Mn/DOT Name: RUTH

NGS Name: RUTH

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DP4274](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096221/  
 USGS Quad: RUTHTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	44 W	441209.54	960507.20	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>
2014	2014	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 34 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2014)                      **Stamping:** RUTH 2014

2.5 MILES NORTHEAST OF RUTHTON, 2.6 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 19 IN RUTHTON, AT TRUNK HIGHWAY 23 MILEPOINT 49.30, 88.5 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 0.15 MILE NORTH OF 100TH STREET (PIPESTONE/LINCOLN COUNTY LINE), 5.0 FEET NORTHWEST OF A RIGHT-OF-WAY POST, 10.8 FEET NORTHWEST OF A WITNESS POST.

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	1729.491	0.016	527.150	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.961 12B = -85.991 09 = -85.902 03 = -85.784

Geodetic Position and Lincoln County Coordinates

<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)	44 12 09.53710	96 05 07.19999	547557.893	102233.838	166895.980	31160.936	500.946			2014	GPS3026	
NAD83 (1996)	44 12 09.53664	96 05 07.20030	547557.870	102233.792	166895.973	31160.922	501.025	C		2014	HRUTH	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/RUTH-DP4274-3SE-01MAY2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/RUTH-DP4274-3SE-01MAY2014.jpg</a>	SE	May 1, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/RUTH-DP4274-2-01MAY2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/RUTH-DP4274-2-01MAY2014.jpg</a>		May 1, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/RUTH-DP4274-1-01MAY2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/RUTH-DP4274-1-01MAY2014.jpg</a>		May 1, 2014

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_101315.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101315.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_101315.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101315.pdf)



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

Mn/DOT Name: RV 15

NGS Name: RV 15

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0089](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096234/  
 USGS Quad: ELKTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	47 W	441353.00	962702.00	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	1976	GOOD	Horz=NO Vert=NO	NO	RR	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	RIVET	NGS

**Description:** (1976)

**Stamping:**

1.7 MILES EAST OF LAMBERTON, 1.7 MILES EAST-SOUTHEAST ALONG A RAILROAD FROM ELKTON SOUTH DAKOTA, 2.0 MILES EAST-SOUTHEAST OF A RAILROAD CROSSING IN ELKTON, 0.1 MILE EAST-SOUTHEAST OF THE WEST MINNESOTA STATE LINE, 9.25 FEET SOUTH OF THE SOUTH RAIL OF RAILROAD TRACKS, 0.3 MILE WEST-NORTHWEST OF A TOWNSHIP ROAD CROSSING, AT THE SOUTH END OF THE EAST STONE ABUTMENT OF RAILROAD BRIDGE NUMBER 1399.

**Station Notes**

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

**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	1758.336	0.016	535.942	0.005	2/1	1991	00000025
NGVD29	1757.480	0.016	535.681	0.005	2/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.580 12B = -84.593 09 = -84.501 03 = -84.399

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17703.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17703.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17703.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17703.pdf)



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

Mn/DOT Name: RV 16

NGS Name: RV 16

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0095](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096231/  
 USGS Quad: VERDI

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	46 W	441221.00	961934.00		

<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	2008	DESTROYED	Horz=NO Vert=NO	NO	RR		SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	RIVET	NGS

**Description:** (2008)

**Stamping:**

1.3 MILES EAST OF VERDI, 1.4 MILES EAST ON A RAILROAD FROM THE VERDI RAILROAD STATION, IN THE WEST END OF THE SOUTH HEADWALL OF A RAILROAD BRIDGE.

**Station Notes**

THE CONCRETE IS MISSING WHERE THE MARK SHOULD BE. 10-11-2006.

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>
NGVD29	1741.135	0.007	530.699	0.002	1/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.728 12B = -84.780 09 = -84.659 03 = -84.573

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17704.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17704.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17704.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17704.pdf)



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

Mn/DOT Name: RV 17

NGS Name: RV 17

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0098](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096231/  
 USGS Quad: VERDI

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441457.00	961741.00	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	1976	GOOD	Horz=NO Vert=NO	NO	1382	FLUSH	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	NGS

**Description:** (1976)

**Stamping:**

1.0 MILE SOUTH OF LAKE BENTON, 1.4 MILES SOUTH-SOUTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 14 AND A RAILROAD IN LAKE BENTON, IN THE SOUTHEAST CORNER OF A RAILROAD BRIDGE NUMBER 1382 ABUTMENT, 8.4 FEET EAST OF THE EAST RAIL OF A RAILROAD, AT RAILROAD MILEPOINT 362.85, 200.0 FEET EAST OF A WASTE TREATMENT POND.

**Station Notes**

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

**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	1762.287	0.016	537.146	0.005	2/1	1991	00000025
NGVD29	1761.433	0.016	536.886	0.005	2/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.842 12B = -84.869 09 = -84.796 03 = -84.714

\* 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\\_17705.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17705.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17705.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17705.pdf)



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

Mn/DOT Name: RV 18

NGS Name: RV 18

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0100](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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>
NE	8	109 N	45 W	441547.00	961705.00		

<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	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STRUCTURE (MASSIVE)	RIVET	UNK

**Description:**

**Stamping:**

IN LAKE BENTON, ON THE CHICAGO AND NORTHWESTERN RAILWAY, AT THE WATER TANK, IN THE SOUTHWEST CORNER OF THE SOUTHWEST PEDESTAL STONE, 1.0 FOOT HIGHER THAN THE RAIL.

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>
NGVD29	1754.642	0.007	534.816	0.002	1/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.954 12B = -84.974 09 = -84.901 03 = -84.819

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67368.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67368.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67368.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67368.pdf)



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

Mn/DOT Name: RV 19

NGS Name: RV 19

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0102](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441634.00	961402.00	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	1976	GOOD	Horz=NO Vert=NO	NO	1371	FLUSH	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	RIVET	NGS

**Description:** (1976)

**Stamping:**

2.9 MILES NORTHEAST OF LAKE BENTON, IN THE SOUTH END OF THE EAST STONE ABUTMENT OF A RAILROAD BRIDGE NUMBER 1371, 2.8 MILES EAST-NORTHEAST ON A RAILROAD FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND A RAILROAD IN LAKE BENTON, 0.35 MILE EAST-NORTHEAST OF A TOWNSHIP ROAD CROSSING, AT RAILROAD MILEPOINT 258.65, 9.8 FEET SOUTH OF THE SOUTH RAIL 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)**

<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	1778.431	0.016	542.067	0.005	2/1	1991	00000025
NGVD29	1777.546	0.016	541.797	0.005	2/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -85.315 12B = -85.344 09 = -85.266 03 = -85.161

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17706.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17706.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17706.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17706.pdf)



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

Mn/DOT Name: RV 20

NGS Name: RV 20

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0104](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	44 W	441650.00	961229.00		

<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	GOOD	Horz=NO Vert=NO	NO	1368	FLUSH	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	RIVET	NGS

**Description:** (1934)

**Stamping:**

3.6 MILES WEST ON A RAILROAD FROM THE TYLER RAILROAD STATION, IN THE EAST END OF THE SOUTH STONE ABUTMENT OF RAILROAD BRIDGE NUMBER 1368.

**Station Notes**

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

**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>
NGVD29	1769.980	0.007	539.491	0.002	1/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -85.476 12B = -85.515 09 = -85.426 03 = -85.318

\* 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\\_17707.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17707.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17707.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17707.pdf)



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

Mn/DOT Name: RV 21

NGS Name: RV 21

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0105](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	44 W	441659.00	961119.00		

<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	1960	GOOD	Horz=NO Vert=NO	NO	1366	FLUSH	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	RIVET	NGS

**Description:** (1934)

**Stamping:**

2.7 MILES WEST OF TYLER, 2.7 MILES WEST ON A RAILROAD FROM THE TYLER RAILROAD STATION, IN THE WEST END OF THE NORTH ABUTMENT OF RAILROAD BRIDGE NUMBER 1366.

**Station Notes**

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

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>
NGVD29	1767.631	0.007	538.775	0.002	1/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -85.597 12B = -85.643 09 = -85.544 03 = -85.436

\* 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\\_17708.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17708.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17708.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17708.pdf)



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

Mn/DOT Name: RV 23

NGS Name: RV 23

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0107](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<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>
NE	4	109 N	44 W	441638.00	960829.00		

<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	GOOD	Horz=NO Vert=NO	NO	1363	FLUSH	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE HEADWALL	RIVET	NGS

**Description:** (1934)

**Stamping:**

IN TYLER, 0.4 MILE WEST ON A RAILROAD FROM THE TYLER RAILROAD STATION, IN THE EAST END OF THE SOUTH STONE HEADWALL OF A RAILROAD BRIDGE NUMBER 1363.

**Station Notes**

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

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>
NGVD29	1742.569	0.007	531.136	0.002	1/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -85.850 12B = -85.895 09 = -85.791 03 = -85.682

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17709.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17709.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17709.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17709.pdf)



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

Mn/DOT Name: RV 24

NGS Name: RV 24

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0111](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096212/  
 USGS Quad: DEAD COON 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	3	109 N	44 W	441631.00	960730.00		

<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	1994	NOT FOUND	Horz=NO Vert=NO	NO	1361		SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	RIVET	NGS

**Description:** (1934)

**Stamping:**

IN TYLER, 0.5 MILE EAST OF TYLER ON A RAILROAD, IN THE WEST END OF THE SOUTH ABUTMENT OF RAILROAD BRIDGE NUMBER 1361.

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	1723.163	0.007	525.221	0.002	1/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -85.938 12B = -85.984 09 = -85.879 03 = -85.768

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17710.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17710.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17710.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17710.pdf)



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

Mn/DOT Name: RV 25

NGS Name: RV 25

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0112](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096212/  
 USGS Quad: DEAD COON LAKE

<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>
SW	2	109 N	44 W	441628.00	960648.00		

<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	1973	GOOD	Horz=NO Vert=NO	NO	1358	FLUSH	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	RIVET	NGS

**Description:** (1934)

**Stamping:**

1.1 MILES EAST OF TYLER, IN THE EAST END OF THE SOUTH ABUTMENT OF A RAILROAD BRIDGE NUMBER 1358, 0.7 MILE EAST ON HUGHES STREET FROM THE JUNCTION OF HUGHES STREET AND TRYLER STREET.

**Station Notes**

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

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>
NGVD29	1699.163	0.007	517.906	0.002	1/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -86.004 12B = -86.046 09 = -85.941 03 = -85.830

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17711.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17711.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17711.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17711.pdf)



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

Mn/DOT Name: RV 26

NGS Name: RV 26

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0114](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096212/  
 USGS Quad: DEAD COON LAKE

<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	1	109 N	44 W	441629.00	960516.00		

<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	1973	GOOD	Horz=NO Vert=NO	NO	1356	FLUSH	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	RIVET	NGS

**Description:** (1934)

**Stamping:**

2.4 MILES SOUTHEAST OF TYLER, IN THE EAST END OF THE SOUTH ABUTMENT OF RAILROAD BRIDGE NUMBER 1356, 1.8 MILES EAST ALONG COUNTY ROAD 20 FROM THE JUNCTION OF COUNTY ROAD 20 AND ASH STREET.

**Station Notes**

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

**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>
NGVD29	1701.657	0.007	518.666	0.002	1/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -86.151 12B = -86.187 09 = -86.089 03 = -85.974

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17712.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17712.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17712.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17712.pdf)



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

Mn/DOT Name: RV 4

NGS Name: RV 4

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0010](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096123/  
 USGS Quad: PORTER 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>
SE	3	113 N	44 W	443721.00	960817.00	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>
1938	2006	DESTROYED	Horz=NO Vert=NO	NO	678		SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STRUCTURE (MASSIVE)	RIVET	NGS

**Description:** (1938)

**Stamping:**

1.7 MILES SOUTHEAST OF THE PORTER RAILROAD STATION, 24.75 FEET WEST OF RAILROAD MILEPOST 265, IN THE WEST END OF THE SOUTH ABUTMENT OF RAILROAD BRIDGE NUMBER 678.

**Station Notes**

THE BRIDGE WAS REMOVED.

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	1187.626	0.016	361.989	0.005	2/0	1991	00000025
NGVD29	1186.956	0.007	361.785	0.002	1	1938	L70 MINN

Geoid Separations(ft): GEOID18 = -86.030 12B = -86.040 09 = -85.905 03 = -85.827

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17713.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17713.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17713.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17713.pdf)



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

Mn/DOT Name: SCHARDIN MNDT

NGS Name: SCHARDIN

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0139](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/1027  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	46 W	441612.24	962000.21	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>
1976	2015	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)	HORIZONTAL CONTROL DISK	MNDT

**Description:** (1976)                      **Stamping:** SCHARDIN 1976

2.3 MILES WEST OF LAKE BENTON, 2.3 MILES WEST ON TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, 68.0 FEET NORTH OF TRUNK HIGHWAY 14, 24.2 FEET WEST OF A RIGHT-OF-WAY POST AND A FENCE CORNER, 21.66 FEET WEST-SOUTHWEST OF SCHARDIN RM 1, 125.74 FEET NORTH OF SCHARDIN RM 2, 4.0 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	1951.574	0.016	594.841	0.005	2/1	1991	00000025
NGVD29	1950.715	0.016	594.579	0.005	2	1976	L24119

Geoid Separations(ft): GEOID18 = -84.691 12B = -84.724 09 = -84.642 03 = -84.563

Geodetic Position and Lincoln County Coordinates

<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)	44 16 12.23871	96 20 00.20792	482520.366	126767.590	147072.502	38638.839	569.043	2	1999	17648		
NAD83 (1986)	44 16 12.23856	96 20 00.18936	482521.717	126767.574	147072.913	38638.834		2	1986	17289		
NAD27	44 16 12.35546	96 19 59.04232						2	1977	15815		

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17714.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17714.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17714.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17714.pdf)



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

Mn/DOT Name: SCHARDIN RM 1

NGS Name: SCHARDIN RM 1

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096242/1027  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	46 W	441612.24	962000.21		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1976	1976	GOOD	Horz=NO Vert=?	YES			SEE DESCRIPTION

  

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

**Description:**

**Stamping:** SCHARDIN NO 1 1976

2.3 MILES WEST OF LAKE BENTON, 2.3 MILES WEST ON TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, 68.0 FEET NORTH OF TRUNK HIGHWAY 14, 24.2 FEET WEST OF A RIGHT-OF-WAY POST AND A FENCE CORNER, 21.66 FEET EAST-NORTHEAST OF SCHARDIN MNDT.

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

Geoid Separations(ft): GEOID18 = -84.691 12B = -84.724 09 = -84.642 03 = -84.563

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_109504.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_109504.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_109504.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_109504.pdf)



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

Mn/DOT Name: SCHARDIN RM 2

NGS Name: SCHARDIN RM 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0140](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	46 W	441611.03	961959.84	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>
1976	2016	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)	REFERENCE MARK DISK	MNDT

**Description:** (1976)                      **Stamping:** SCHARDIN NO 2 1976

2.3 MILES WEST OF LAKE BENTON, 2.3 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 5.9, 55.8 FEET SOUTH OF TRUNK HIGHWAY 14, 14.0 FEET EAST OF 165TH AVENUE EXTENDED, 3.5 FEET NORTH OF A RIGHT-OF-WAY POST, 4.3 FEET EAST-NORTHEAST OF A PIPE FENCE CORNER, 1.0 FEET NORTH OF A WITNESS POST.

**Station Pair:** 4101 L - LINCOLN, 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	1950.892	0.016	594.633	0.005	2/1	2017	0000903
NGVD29	1950.091	0.007	594.389	0.002	1/2	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.691 12B = -84.724 09 = -84.642 03 = -84.563

Geodetic Position and Lincoln County Coordinates

<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)	44 16 11.02749	96 19 59.83957	482547.071	126644.903	147080.641	38601.444	568.800			2016	GPS3151	
NAD83 (1996)	44 16 11.02652	96 19 59.83978	482547.055	126644.805	147080.637	38601.414	568.855	C		2016	HTYLR	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SCHARDIN_RM_2-PR0140-3S-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SCHARDIN_RM_2-PR0140-3S-22JUN2015.jpg</a>	S	Jun 22, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SCHARDIN_RM_2-PR0140-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SCHARDIN_RM_2-PR0140-2-22JUN2015.jpg</a>		Jun 22, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SCHARDIN_RM_2-PR0140-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SCHARDIN_RM_2-PR0140-1-22JUN2015.jpg</a>		Jun 22, 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\\_17715.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17715.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17715.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17715.pdf)



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

Mn/DOT Name: SHAOK

NGS Name: SHAOK

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2404](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/  
 USGS Quad: LAKE BENTON 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>
SW	4	109 N	46 W	441610.90	962401.21	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	2016	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:** (2015)                      **Stamping:** SHAOK 2015

4.9 MILES WEST OF LAKE BENTON, 5.6 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 2.60, 57.3 FEET NORTH OF TRUNK HIGHWAY 14, 2.3 FEET SOUTH OF A RIGHT-OF-WAY POST, 2.3 FEET SOUTH OF A WITNESS POST.

**Station Pair:** STOLZ - LINCOLN, MN

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	1878.323	0.016	572.514	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -84.481    12B = -84.518    09 = -84.413    03 = -84.340

Geodetic Position and Lincoln County Coordinates

<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)	44 16 10.90026	96 24 01.21445	464982.409	126653.517	141726.922	38604.069	546.774			2016	GPS3151	
NAD83 (1996)	44 16 10.89924	96 24 01.21466	464982.393	126653.414	141726.917	38604.038	546.836	C		2016	HTYLR	

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SHAOK-DQ2404-3N-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SHAOK-DQ2404-3N-08JUL2015.jpg</a>	N	Jul 8, 2015
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SHAOK-DQ2404-2-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SHAOK-DQ2404-2-08JUL2015.jpg</a>		Jul 8, 2015
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SHAOK-DQ2404-1-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SHAOK-DQ2404-1-08JUL2015.jpg</a>		Jul 8, 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\\_104042.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104042.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104042.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104042.pdf)



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

Mn/DOT Name: SHAOKA

NGS Name: SHAOKA

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5944](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096241/  
 USGS Quad: LAKE BENTON NE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	46 W	442712.75	962038.27		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>
2009	2009	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 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2009)                      **Stamping:** SHAOKA 2009

4.5 MILES WEST OF IVANHOE, 4.0 MILES WEST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 WEST OF IVANHOE, TO TRUNK HIGHWAY 19 MILEPOINT 6.35, THEN 0.35 MILE SOUTH ON 160TH AVENUE, 29.9 FEET WEST OF 160TH AVENUE, 18.7 FEET SOUTH OF A FIELD ENTRANCE, 2.0 FEET NORTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.010    12B = -85.013    09 = -84.911    03 = -84.819

Geodetic Position and Lincoln County Coordinates

<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)	44 27 12. 75296	96 20 38. 27238	479813. 662	193663. 934	146247. 497	59028. 885	521. 408		2012	GPS2800
NAD83 (2007)	44 27 12. 75280	96 20 38. 27324	479813. 599	193663. 917	146247. 478	59028. 880	521. 421	C	2009	GPS2587
NAD83 (1996)	44 27 12. 75231	96 20 38. 27275	479813. 635	193663. 868	146247. 488	59028. 865	521. 471	C	2009	HIVAN

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SHAOKA-DL5944-3W-20MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SHAOKA-DL5944-3W-20MAY2009.jpg</a>	W	May 20, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SHAOKA-DL5944-2-20MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SHAOKA-DL5944-2-20MAY2009.jpg</a>		May 20, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SHAOKA-DL5944-1-20MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SHAOKA-DL5944-1-20MAY2009.jpg</a>		May 20, 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\\_86378.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_86378.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_86378.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_86378.pdf)



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

Mn/DOT Name: SHAOKATAN

NGS Name: SHAOKATAN

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0817](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/1004  
 USGS Quad: LAKE BENTON 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	18	110 N	47 W	442023.03	962639.45		2

<u>Year Set</u>	<u>Last Recovery</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	1976	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)	TRIANGULATION STATION DISK	NGS

**Description:** (1976)                      **Stamping:** SHAOKATAN 1935

9.5 MILES NORTHWEST OF LAKE BENTON, 0.4 MILE EAST ON TRUNK HIGHWAY 14 FROM THE WEST STATE LINE, 5.0 MILES NORTH ON A GRAVEL ROAD, 42.5 FEET EAST OF A GRAVEL ROAD, 62.0 FEET SOUTH OF AN EAST-WEST TREE LINE, 115.5 FEET NORTHWEST OF A POWER POLE, 111.52 FEET SOUTH OF SHAOKATAN RM 1, 87.95 FEET NORTHEAST OF SHAOKATAN RM 2, 3.0 FEET WEST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -84.258    12B = -84.262    09 = -84.163    03 = -84.134

Geodetic Position and Lincoln County Coordinates

<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)	44 20 23. 03449	96 26 39. 45122	453523. 097	152210. 178	138234. 117	46393. 755	582. 535	2	1999	17648		
NAD83 (1986)	44 20 23. 03400	96 26 39. 43226	453524. 475	152210. 126	138234. 537	46393. 739		2	1986	17289		
NAD27	44 20 23. 16000	96 26 38. 27400						2	1986	10484		

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17716.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17716.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17716.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17716.pdf)



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

Mn/DOT Name: SHAOKATAN AZ MK

NGS Name: SHAOKATAN AZ MK

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO8746](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/1004  
 USGS Quad: LAKE BENTON 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	18	110 N	47 W	442032.00	962608.00		

<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	1976	GOOD	Horz=NO Vert=YES	NO		FLUSH	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	NGS

**Description:** (2007)

**Stamping:** SHAOKATAN 1935

9.5 MILES NORTHWEST OF LAKE BENTON, 0.4 MILE EAST ON TRUNK HIGHWAY 14 FROM THE WEST STATE LINE, 5.0 MILES NORTH ON A GRAVEL ROAD (COUNTY ROAD 137), 33.0 FEET SOUTH OF THE CENTER OF A GRAVEL ROAD, IN A FENCE LINE, 2.3 FEET EAST OF A STEEL WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -84.304 12B = -84.311 09 = -84.209 03 = -84.176

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67369.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67369.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67369.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67369.pdf)



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

Mn/DOT Name: SHAOKATAN RM 1

NGS Name: SHAOKATAN RM 1

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO8747](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/1004  
 USGS Quad: LAKE BENTON 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	18	110 N	47 W	442024.13	962639.58		

<u>Year Set</u>	<u>Last Recovery</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	1976	GOOD	Horz=YES 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:** SHAOKATAN NO 1 1935

9.5 MILES NORTHWEST OF LAKE BENTON, 0.4 MILE EAST ON TRUNK HIGHWAY 14 FROM THE WEST STATE LINE, THEN 5.0 MILES NORTH ON A GRAVEL ROAD, 32.5 FEET EAST OF THE CENTER OF A GRAVEL ROAD, 49.0 FEET NORTH OF AN EAST-WEST TREE LINE, 82.0 FEET SOUTH OF THE CENTER OF A FIELD ENTRANCE, 111.5 FEET NORTH OF A STEEL WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -84.258 12B = -84.265 09 = -84.163 03 = -84.137

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67370.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67370.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67370.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67370.pdf)



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

Mn/DOT Name: SHAOKATAN RM 2

NGS Name: SHAOKATAN RM 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO8748](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/1004  
 USGS Quad: LAKE BENTON 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	18	110 N	47 W	442022.59	962640.49		

<u>Year Set</u>	<u>Last Recovery</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	1976	GOOD	Horz=YES Vert=YES	NO		FLUSH	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:** SHAOKATAN NO 2 1935

9.5 MILES NORTHWEST OF LAKE BENTON, 0.4 MILE EAST ON TRUNK HIGHWAY 14 FROM THE WEST STATE LINE, 5.0 MILES NORTH ON A GRAVEL ROAD (COUNTY ROAD 137), 33.0 FEET WEST OF THE CENTER OF A GRAVEL ROAD, 39.0 FEET NORTHEAST OF A 14.0 INCH DIAMETER BOX ELDER TREE, 43.4 FEET NORTH OF A POWER POLE, 89.0 FEET SOUTHWEST OF A STEEL WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -84.258 12B = -84.265 09 = -84.163 03 = -84.137

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67371.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67371.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67371.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67371.pdf)



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

Mn/DOT Name: SOCCER MN081

NGS Name: SOCCER

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6634](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096224/  
 USGS Quad: RUTHTON NW

<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	36	109 N	45 W	441150.36	961207.59		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>
2001	2014	GOOD	Horz=YES Vert=YES	YES		PROJECTS 1 IN.	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	MN-081

**Description:** (2016)                      **Stamping:** SOCCER 2001

6.5 MILES SOUTHWEST OF TYLER, 3.0 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND COUNTY ROAD 8 IN TYLER, TO TRUNK HIGHWAY 14 MILEPOINT 12.95, 5.0 MILES SOUTH ON COUNTY ROAD 6, THEN 0.20 MILE WEST ON 100TH STREET, 0.2 MILE WEST ON A TOWNSHIP ROAD, 23.0 FEET NORTH OF A TOWNSHIP ROAD, 900.0 FEET WEST OF A TOWNSHIP ROAD AND A COUNTY ROAD 6 JUNCTION, 612.0 FEET EAST OF THE TOWNSHIP ROAD JUNCTION, 1.2 FEET SOUTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.292 12B = -85.312 09 = -85.236 03 = -85.147

Geodetic Position and Lincoln County Coordinates

<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)	44 11 50.35923	96 12 07.58568	516933.431	100245.608	157561.625	30554.923	571.073			2014	GPS3026	
NAD83 (2007)	44 11 50.35917	96 12 07.58658	516933.365	100245.602	157561.605	30554.921	571.100			2007	GPS2300	
NAD83 (1996)	44 11 50.35877	96 12 07.58591	516933.414	100245.562	157561.620	30554.908	571.152	C		2014	HRUTH	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SOCCKER-DF6634-3N-08APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SOCCKER-DF6634-3N-08APR2014.jpg</a>	N	Apr 8, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SOCCKER-DF6634-2-08APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SOCCKER-DF6634-2-08APR2014.jpg</a>		Apr 8, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SOCCKER-DF6634-1-08APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SOCCKER-DF6634-1-08APR2014.jpg</a>		Apr 8, 2014

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_41588.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41588.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41588.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41588.pdf)



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

Mn/DOT Name: STA 1

NGS Name: STA 1

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0740](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	45 W	443337.27	961743.98		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>
1960	2010	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	USGS

**Description:** (2007)

**Stamping:**

7.1 MILES NORTH OF IVANHOE, 6.0 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, 1.1 MILES WEST ON COUNTY ROAD 18 (TOWNSHIP ROAD 59), 1.2 MILES NORTH ON COUNTY ROAD 105.

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

Geoid Separations(ft): GEOID18 = -84.911 12B = -84.898 09 = -84.823 03 = -84.760

Geodetic Position and Lincoln County Coordinates

<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)	44 33 37.26809	96 17 43.98003	492470.863	232598.659	150105.419	70896.213	490.344	3	1999	17648
NAD83 (1986)	44 33 37.26785	96 17 43.96328	492472.076	232598.634	150105.789	70896.206		3	1986	17289
NAD27	44 33 37.39667	96 17 42.80424						3	1977	15976

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_64802.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64802.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_64802.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64802.pdf)



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

Mn/DOT Name: STA 166+27

NGS Name: STA 166+27

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096241/  
 USGS Quad: LAKE BENTON NE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	45 W	442457.00	961655.00		

<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	2010	NOT FOUND	Horz=NO Vert=YES	NO			SEE DESCRIPTION

  

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

**Description:** (1948)

**Stamping:**

3.7 MILES SOUTHWEST OF IVANHOE, 3.4 MILES SOUTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, NEAR THE JUNCTION OF TRUNK HIGHWAY 75 AND COUNTY ROAD 16, 75.0 FEET RIGHT OF TRUNK HIGHWAY 75, AT TRUNK HIGHWAY 75 STATION 166+27.

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

Geoid Separations(ft): GEOID18 = -85.521 12B = -85.531 09 = -85.430 03 = -85.321

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17717.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17717.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17717.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17717.pdf)



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

Mn/DOT Name: STA 2

NGS Name: STA 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0741](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	45 W	443531.44	961748.47		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>
1960	2010	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	USGS

**Description:** (2007)

**Stamping:**

9.2 MILES NORTH OF IVANHOE, 9.0 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, 1.0 MILE WEST ON COUNTY ROAD 19, 0.4 MILE NORTH ON COUNTY ROAD 105.

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

Geoid Separations(ft): GEOID18 = -84.773 12B = -84.783 09 = -84.698 03 = -84.609

Geodetic Position and Lincoln County Coordinates

<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)	44 35 31.44207	96 17 48.47064	492149.960	244162.252	150007.608	74420.803	468.793	3	1999	17648
NAD83 (1986)	44 35 31.44198	96 17 48.45400	492151.164	244162.242	150007.975	74420.800		3	1986	17289
NAD27	44 35 31.57116	96 17 47.29118						3	1977	15976

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_64804.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64804.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_64804.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64804.pdf)



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

Mn/DOT Name: STA 235+18

NGS Name: STA 235+18

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096241/  
 USGS Quad: LAKE BENTON NE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	45 W	442348.00	961653.00		

<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	2010	NOT FOUND	Horz=NO Vert=YES	NO			SEE DESCRIPTION

  

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

**Description:** (1948)

**Stamping:**

4.7 MILES SOUTHWEST OF IVANHOE, 4.7 MILES SOUTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, AT TRUNK HIGHWAY 75 STATION 235+18, 75.0 FEET LEFT OF TRUNK HIGHWAY 75.

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

Geoid Separations(ft): GEOID18 = -85.489 12B = -85.502 09 = -85.403 03 = -85.295

\* 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\\_17718.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17718.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17718.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17718.pdf)



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

Mn/DOT Name: STA 3

NGS Name: STA 3

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0739](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	45 W	443641.80	961639.12		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>
1960	2010	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	USGS

**Description:** (2007)

**Stamping:**

10.7 MILES NORTH OF IVANHOE, 10.7 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE.

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

Geoid Separations(ft): GEOID18 = -84.895 12B = -84.911 09 = -84.819 03 = -84.728

Geodetic Position and Lincoln County Coordinates

<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)	44 36 41.80059	96 16 39.12425	497169.517	251286.906	151537.572	76592.402	447.657	3	1999	17648		
NAD83 (1986)	44 36 41.80063	96 16 39.10757	497170.724	251286.909	151537.940	76592.403		3	1986	17289		
NAD27	44 36 41.92922	96 16 37.94507						3	1977	15976		

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_64805.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64805.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_64805.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64805.pdf)



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

Mn/DOT Name: STA 31+15

NGS Name: STA 31+15

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096241/  
 USGS Quad: LAKE BENTON NE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	45 W	442611.00	961651.00		

<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	2010	NOT FOUND	Horz=NO Vert=YES	NO			SEE DESCRIPTION

  

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

**Description:** (1948)

**Stamping:**

2.5 MILES SOUTHWEST OF IVANHOE, 2.0 MILES SOUTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, AT TRUNK HIGHWAY 75 STATION 31+15, NEAR THE SOUTH COUNTY LINE, 72.0 FEET LEFT OF TRUNK HIGHWAY 75.

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

Geoid Separations(ft): GEOID18 = -85.544 12B = -85.551 09 = -85.443 03 = -85.334

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17719.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17719.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17719.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17719.pdf)



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

Mn/DOT Name: STA 38

NGS Name: STA 38

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0715](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096122/  
 USGS Quad: TAUNTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	112 N	44 W	443013.79	960600.20		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>
1960	1960	GOOD	Horz=YES Vert=YES	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	USGS

**Description:** (2016)

**Stamping:**

7.8 MILES NORTHEAST OF IVANHOE, 3.0 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, 8.0 MILES EAST ON COUNTY ROAD 17, 315.0 FEET NORTH ON A CROSSROAD TOWARD COUNTY ROAD 17.

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

Geoid Separations(ft): GEOID18 = -86.873 12B = -86.876 09 = -86.752 03 = -86.617

Geodetic Position and Lincoln County Coordinates

<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)	44 30 13.78588	96 06 00.19699	543473.342	212033.219	165651.006	64627.854	419.485	3	1999	17648
NAD83 (1986)	44 30 13.78429	96 06 00.18171	543474.449	212033.060	165651.343	64627.806		3	1986	17289
NAD27	44 30 13.92572	96 05 59.06152						3	1977	15976

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_64768.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64768.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_64768.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64768.pdf)



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

Mn/DOT Name: STA 383+26

NGS Name: STA 383+26

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	110 N	45 W	442123.00	961654.00		

<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	2010	NOT FOUND	Horz=NO Vert=YES	NO			SEE DESCRIPTION

  

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

**Description:** (1948)

**Stamping:**

6.3 MILES NORTH OF LAKE BENTON, 6.3 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, AT TRUNK HIGHWAY 75 STATION 383+26, NEAR THE JUNCTION OF TRUNK HIGHWAY 75 AND COUNTY ROAD 122, 75.0 FEET RIGHT OF TRUNK HIGHWAY 75.

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

Geoid Separations(ft): GEOID18 = -85.354 12B = -85.384 09 = -85.285 03 = -85.177

\* 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\\_17720.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17720.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17720.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17720.pdf)



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

Mn/DOT Name: STA 4

NGS Name: STA 4

County: LINCOLN, MN (Sheet 1)

NGS ACRN: <a href="#">PR0722</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096123/	
USGS Quad: PORTER 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>
SE	2	113 N	45 W	443658.90	961431.23		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>
1960	1960	GOOD	Horz=YES Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	USGS

**Description:**

**Stamping:**

11.0 MILES NORTH OF IVANHOE, 11.0 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, 1.7 MILES EAST ON COUNTY ROAD 20.

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

Geoid Separations(ft): GEOID18 = -85.161 12B = -85.177 09 = -85.082 03 = -84.980

Geodetic Position and Lincoln County Coordinates

<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)	44 36 58.90276	96 14 31.23185	506421.498	253019.798	154357.581	77120.589	413.676	3	1999	17648		
NAD83 (1986)	44 36 58.90287	96 14 31.21499	506422.718	253019.809	154357.953	77120.592		3	1986	17289		
NAD27	44 36 59.03025	96 14 30.05605						3	1977	15976		

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_64806.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64806.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_64806.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64806.pdf)



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

Mn/DOT Name: STA 40

NGS Name: STA 40

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0717](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096123/  
 USGS Quad: PORTER 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	112 N	44 W	443011.95	960946.73		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>
1960	1960	GOOD	Horz=YES Vert=YES	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	USGS

**Description:**

**Stamping:**

5.0 MILES NORTHEAST OF IVANHOE, 3.0 MILES NORTH ON COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND TRUNK HIGHWAY 19 IN IVANHOE, 0.9 MILE EAST ON COUNTY ROAD 17.

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

Geoid Separations(ft): GEOID18 = -86.368 12B = -86.365 09 = -86.260 03 = -86.132

Geodetic Position and Lincoln County Coordinates

<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)	44 30 11.95459	96 09 46.73326	527054.383	211820.628	160646.497	64563.056	452.630	3	1999	17648
NAD83 (1986)	44 30 11.95364	96 09 46.71703	527055.559	211820.533	160646.856	64563.028		3	1986	17289
NAD27	44 30 12.09275	96 09 45.58923						3	1977	15976

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_64773.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64773.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_64773.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64773.pdf)



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

Mn/DOT Name: STA 41

NGS Name: STA 41

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0719](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096123/  
 USGS Quad: PORTER SW

	<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>
NW	24	112 N	45 W	443012.54
				<u>Longitude</u>
				961208.45
				<u>Order</u>
				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>
1960	1960	GOOD	Horz=YES Vert=YES	NO			SEE DESCRIPTION
<u>Monument Type</u>				<u>Disk Type</u>		<u>Mon. Agency</u>	
UNKNOWN				UNMONUMENTED		USGS	

**Description:**

**Stamping:**

3.5 MILES NORTHEAST OF IVANHOE, 3.0 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, 2.9 MILES EAST ON COUNTY ROAD 17.

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

Geoid Separations(ft): GEOID18 = -86.037 12B = -86.037 09 = -85.928 03 = -85.813

Geodetic Position and Lincoln County Coordinates

<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)	44 30 12. 54458	96 12 08. 44538	516783. 041	211869. 835	157515. 786	64578. 055	481. 424	3	1999	17648
NAD83 (1986)	44 30 12. 54390	96 12 08. 42870	516784. 250	211869. 767	157516. 154	64578. 034		3	1986	17289
NAD27	44 30 12. 68096	96 12 07. 29629						3	1977	15976

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_64774.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64774.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_64774.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64774.pdf)



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

Mn/DOT Name: STA 45

NGS Name: STA 45

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0780](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	110 N	44 W	442220.55	961147.58		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>
1960	1960	GOOD	Horz=YES Vert=YES	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	USGS

**Description:** (2016)

**Stamping:**

IN ARCO, 0.6 MILE SOUTH ON COUNTY ROAD 111 FROM THE JUNCTION OF COUNTY ROAD 111 AND HOLLY STREET, 0.8 MILE WEST ON A CROSSROAD.

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

Geoid Separations(ft): GEOID18 = -85.925 12B = -85.961 09 = -85.856 03 = -85.731

Geodetic Position and Lincoln County Coordinates

<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)	44 22 20.55248	96 11 47.58391	518336.041	164069.267	157989.141	50008.413	496.849	3	1999	17648		
NAD83 (1986)	44 22 20.55051	96 11 47.57029	518337.031	164069.068	157989.443	50008.352		3	1986	17289		
NAD27	44 22 20.68038	96 11 46.43016						3	1977	15976		

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_65391.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65391.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_65391.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65391.pdf)



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

Mn/DOT Name: STA 46

NGS Name: STA 46

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0775](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	110 N	40 W	442218.16	960802.32		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>
1960	1960	GOOD	Horz=YES Vert=YES	NO			SEE DESCRIPTION
<u>Monument Type</u>				<u>Disk Type</u>	<u>Mon. Agency</u>		
UNKNOWN				UNMONUMENTED	USGS		

**Description:** (2007)

**Stamping:**

2.6 MILES SOUTHEAST OF ARCO, 1.3 MILES EAST ALONG COUNTY ROAD 113 FROM THE JUNCTION OF COUNTY ROAD 113 AND COUNTY ROAD 7 IN ARCO.

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

Geoid Separations(ft): GEOID18 = -86.302 12B = -86.322 09 = -86.237 03 = -86.109

Geodetic Position and Lincoln County Coordinates

<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)	44 22 18.15627	96 08 02.31692	534700.296	163846.870	162976.976	49940.626	486.236	3	1999	17648
NAD83 (1986)	44 22 18.15310	96 08 02.30396	534701.238	163846.551	162977.263	49940.529		3	1986	17289
NAD27	44 22 18.28344	96 08 01.17276						3	1977	15976

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_64800.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64800.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_64800.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64800.pdf)



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

Mn/DOT Name: STA 523+24

NGS Name: STA 523+24

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	110 N	45 W	441904.00	961651.00		

<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	2010	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)	SURVEY DISK	MNDT

**Description:** (1948)

**Stamping:**

3.7 MILES NORTH OF LAKE BENTON, 3.7 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, AT TRUNK HIGHWAY 75 STATION 523+24, 70.0 FEET LEFT OF TRUNK HIGHWAY 75.

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

Geoid Separations(ft): GEOID18 = -85.207 12B = -85.233 09 = -85.144 03 = -85.039

\* 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\\_17721.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17721.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17721.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17721.pdf)



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

Mn/DOT Name: STAT 2

NGS Name: STAT 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0781](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441520.60	961312.27		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>
1961	2015	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	USGS

**Description:** (2016)

**Stamping:**

3.4 MILES SOUTHEAST OF LAKE BENTON, 3.4 MILES EAST ON TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, 1.0 MILE SOUTH ON A CROSSROAD.

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

Geoid Separations(ft): GEOID18 = -85.318 12B = -85.344 09 = -85.266 03 = -85.170

Geodetic Position and Lincoln County Coordinates

<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)	44 15 20.60363	96 13 12.27412	512208.184	121534.639	156121.367	37043.832	523.416	3	1999	17648		
NAD83 (1986)	44 15 20.60355	96 13 12.25610	512209.495	121534.632	156121.766	37043.830		3	1986	17289		
NAD27	44 15 20.72980	96 13 11.10906						3	1977	15976		

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_64650.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64650.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_64650.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64650.pdf)



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

Mn/DOT Name: STAT 3

NGS Name: STAT 3

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0779](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	44 W	441519.09	961129.12		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>
1961	2015	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	USGS

**Description:** (2016)

**Stamping:**

4.8 MILES SOUTHEAST OF LAKE BENTON, 4.4 MILES EAST ON TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, 1.0 MILE SOUTH ON COUNTY ROAD 6, 0.4 MILE EAST ON A CROSSROAD.

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

Geoid Separations(ft): GEOID18 = -85.489 12B = -85.521 09 = -85.436 03 = -85.331

Geodetic Position and Lincoln County Coordinates

<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)	44 15 19.08584	96 11 29.12071	519716.502	121386.517	158409.907	36998.684	514.967	3	1999	17648
NAD83 (1986)	44 15 19.08577	96 11 29.10278	519717.807	121386.511	158410.304	36998.683		3	1986	17289
NAD27	44 15 19.21715	96 11 27.95851						3	1977	15976

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_64651.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64651.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_64651.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64651.pdf)



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

Mn/DOT Name: STAT 4

NGS Name: STAT 4

County: LINCOLN, MN (Sheet 1)

NGS ACRN: <a href="#">PR0777</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096213/	
USGS Quad: TYLER	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	44 W	441518.14	960858.34		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>	
1961	2015	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION	
<u>Monument Type</u>				<u>Disk Type</u>				<u>Mon. Agency</u>
UNKNOWN				UNMONUMENTED				USGS

**Description:**

**Stamping:**

1.8 MILES SOUTHWEST OF TYLER, 1.0 MILE SOUTH ON TYLER STREET FROM THE JUNCTION OF TYLER STREET AND TRUNK HIGHWAY 14 IN TYLER, THEN 0.7 MILE WEST ON A TEE-ROAD.

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

Geoid Separations(ft): GEOID18 = -85.725 12B = -85.768 09 = -85.672 03 = -85.564

Geodetic Position and Lincoln County Coordinates

<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)	44 15 18.14176	96 08 58.34466	530691.175	121303.808	161754.994	36973.475	510.698	3	1999	17648		
NAD83 (1986)	44 15 18.14171	96 08 58.32679	530692.475	121303.805	161755.390	36973.474		3	1986	17289		
NAD27	44 15 18.28125	96 08 57.18678						3	1977	15976		

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_64652.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64652.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_64652.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64652.pdf)



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

Mn/DOT Name: STAY  
County: LINCOLN, MN (Sheet 1)

NGS Name: STAY

NGS ACRN: [DP5877](#) [Get Map](#)  
NGS Quad / Sta Num : 44096214/  
USGS Quad: ARCO

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	111 N	44 W	442405.10	961053.47		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>
2010	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 30 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2010)                      **Stamping:** STAY 2010

1.2 MILES NORTH OF ARCO, 1.15 MILES NORTH-NORTHEAST ALONG COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND COUNTY ROAD 15 AT THE NORTH SIDE OF ARCO, 62.0 FEET WEST OF COUNTY ROAD 7, 31.5 FEET NORTH OF EXTENDED 240TH STREET, 38.0 FEET NORTH OF A FIELD ENTRANCE, 21.5 FEET SOUTH OF A POWER POLE WITH 2 GUY WIRES, 2.0 FEET NORTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -86.132    12B = -86.138    09 = -86.050    03 = -85.932

Geodetic Position and Lincoln County Coordinates

<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)	44 24 05.09955	96 10 53.46739	522256.160	174661.088	159183.996	53236.806	477.619		2014	GPS3047
NAD83 (1996)	44 24 05.09904	96 10 53.46783	522256.128	174661.037	159183.986	53236.790	477.675	C	2011	HTH75

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STAY-DP5877-3W-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STAY-DP5877-3W-04MAY2021.jpg</a>	W	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STAY-DP5877-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STAY-DP5877-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STAY-DP5877-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STAY-DP5877-1-04MAY2021.jpg</a>		May 4, 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\\_93372.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93372.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93372.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93372.pdf)



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

Mn/DOT Name: STD DISK

NGS Name: STD DISK

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096231/  
 USGS Quad: VERDI

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441436.00	961742.00		

<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	1976	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	MNDT

**Description:** (1976)

**Stamping:**

1.3 MILES SOUTH OF LAKE BENTON, 1.4 MILES SOUTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, AT TRUNK HIGHWAY 75 STATION 187+60, NEAR THE JUNCTION OF TRUNK HIGHWAY 59 AND COUNTY ROAD 9, 75.0 FEET LEFT OF TRUNK HIGHWAY 75.

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

Geoid Separations(ft): GEOID18 = -84.829 12B = -84.859 09 = -84.783 03 = -84.701

\* 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\\_17723.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17723.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17723.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17723.pdf)



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

Mn/DOT Name: STEEP MN081

NGS Name: STEEP

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6635](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	46 W	443249.35	962016.27		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=NO Vert=NO	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	MN-081

**Description:** (2002)                      **Stamping:** STEEP 2001

5.0 MILES NORTHEAST OF HENDRICKS, 4.5 MILES EAST ON COUNTY ROAD 18 FROM THE JUNCTION OF COUNTY ROAD 18 AND TRUNK HIGHWAY 271 IN HENDRICKS, 0.3 MILE NORTHEAST ON COUNTY ROAD 18 (COUNTY ROAD 4), 42.0 FEET EAST OF COUNTY ROAD 4, 20.0 FEET NORTH OF A FIELD ENTRANCE, 1.5 FEET WEST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -84.596    12B = -84.577    09 = -84.501    03 = -84.458

Geodetic Position and Lincoln County Coordinates

<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)	44 32 49.35187	96 20 16.26858	481439.513	227752.500	146743.057	69419.101	503.368		2014	GPS3047
NAD83 (2007)	44 32 49.35173	96 20 16.26959	481439.440	227752.485	146743.035	69419.096	503.401		2007	GPS2300
NAD83 (1996)	44 32 49.35131	96 20 16.26911	481439.475	227752.443	146743.046	69419.083	503.437	C	2011	HTH75

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STEEP-DF6635-3E-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STEEP-DF6635-3E-03MAY2021.jpg</a>	E	May 3, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STEEP-DF6635-2-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STEEP-DF6635-2-03MAY2021.jpg</a>		May 3, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STEEP-DF6635-1-03MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STEEP-DF6635-1-03MAY2021.jpg</a>		May 3, 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\\_41604.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41604.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41604.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41604.pdf)



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

Mn/DOT Name: STERZINGER

NGS Name: STERZINGER

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5945](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096214/  
 USGS Quad: ARCO

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	5	111 N	44 W	442708.37	961051.75	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2009	2009	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

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

**Description:** (2016)                      **Stamping:** STERZINGER 2009

3.5 MILES EAST OF IVANHOE, 4.0 MILES EAST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 75 IN IVANHOE, TO TRUNK HIGHWAY 19 MILEPOINT 14.4, THEN 0.55 MILE SOUTH ON COUNTY ROAD 7, 56.5 FEET EAST OF COUNTY ROAD 7, 35.7 FEET NORTH OF AN ENTRANCE, 3.0 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	1639.045 0.016	499.582 0.005	2/1	2013 00000797

Geoid Separations(ft): GEOID18 = -86.247 12B = -86.247 09 = -86.151 03 = -86.023

Geodetic Position and Lincoln County Coordinates

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)	44 27 08.37218	96 10 51.74782	522361.586	193222.427	159216.130	58894.314	473.286		2012	GPS2800
NAD83 (2007)	44 27 08.37204	96 10 51.74873	522361.520	193222.413	159216.110	58894.309	473.318	C	2009	GPS2587
NAD83 (1996)	44 27 08.37156	96 10 51.74838	522361.545	193222.364	159216.118	58894.294	473.350	C	2009	HIVAN

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STERZINGER-DL5945-3E-20MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STERZINGER-DL5945-3E-20MAY2009.jpg</a>	E	May 20, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STERZINGER-DL5945-2-20MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STERZINGER-DL5945-2-20MAY2009.jpg</a>		May 20, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STERZINGER-DL5945-1-20MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STERZINGER-DL5945-1-20MAY2009.jpg</a>		May 20, 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\\_86375.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_86375.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_86375.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_86375.pdf)



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

Mn/DOT Name: STOLZ

NGS Name: STOLZ

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DQ2405](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/  
 USGS Quad: LAKE BENTON SW

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	8	109 N	46 W	441609.84	962426.13	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2016	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 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2015)                      **Stamping:** STOLZ 2015

6.0 MILES WEST OF LAKE BENTON, 6.0 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 2.30, 50.1 FEET SOUTH OF TRUNK HIGHWAY 14, 18.1 FEET EAST OF A FIELD ENTRANCE, 1.5 FEET SOUTHWEST OF A WITNESS POST.

**Station Pair:** SHAOK - LINCOLN, MN

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1836.643	0.016	559.810	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -84.472    12B = -84.504    09 = -84.399    03 = -84.331

Geodetic Position and Lincoln County Coordinates

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)	44 16 09.83837	96 24 26.13478	463168.793	126549.015	141174.131	38572.217	534.075	2016	GPS3151			
NAD83 (1996)	44 16 09.83734	96 24 26.13498	463168.778	126548.911	141174.126	38572.185	534.139	C	2016	HTYLR		

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STOLZ-DQ2405-3S-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STOLZ-DQ2405-3S-08JUL2015.jpg</a>	S	Jul 8, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STOLZ-DQ2405-2-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STOLZ-DQ2405-2-08JUL2015.jpg</a>		Jul 8, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STOLZ-DQ2405-1-08JUL2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/STOLZ-DQ2405-1-08JUL2015.jpg</a>		Jul 8, 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\\_104043.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104043.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_104043.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104043.pdf)



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

Mn/DOT Name: SWINKER

NGS Name: SWINKER

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DL5946](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096244/  
 USGS Quad: LAKE BENTON NW

<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>
NE	31	112 N	46 W	442757.67	962530.38	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>
2009	2019	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 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2016)                      **Stamping:** SWINKER 2009

2.8 MILES SOUTH OF HENDRICKS, 2.65 MILES SOUTH ALONG TRUNK HIGHWAY 271 FROM THE JUNCTION OF TRUNK HIGHWAY 271 AND COUNTY ROAD 17 EAST IN HENDRICKS, AT TRUNK HIGHWAY 271 MILEPOINT 0.5, 72.6 FEET WEST OF TRUNK HIGHWAY 271, 18.8 FEET SOUTH OF A FIELD ENTRANCE NORTH-SOUTH, 3.2 FEET EAST OF A FENCE LINE, 2.5 FEET EAST OF A WITNESS POST.

**Station Pair:** 4103 G - LINCOLN, MN

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	1780.892	0.016	542.817	0.005	2/1	2020	00000949

Geoid Separations(ft): GEOID18 = -84.242 12B = -84.226 09 = -84.137 03 = -84.081

Geodetic Position and Lincoln County Coordinates

<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)	44 27 57.66686	96 25 30.37926	458632.575	198243.202	139791.488	60424.649	517.142	2012	GPS2800			
NAD83 (2007)	44 27 57.66674	96 25 30.38025	458632.503	198243.190	139791.466	60424.645	517.164	2009	GPS2587			
NAD83 (1996)	44 27 57.66625	96 25 30.37975	458632.539	198243.141	139791.477	60424.630	517.208	2020	HTH271			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SWINKER-DL5946-3W-20MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SWINKER-DL5946-3W-20MAY2009.jpg</a>	W	May 20, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SWINKER-DL5946-2-20MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SWINKER-DL5946-2-20MAY2009.jpg</a>		May 20, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SWINKER-DL5946-1-20MAY2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/SWINKER-DL5946-1-20MAY2009.jpg</a>		May 20, 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\\_86377.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_86377.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_86377.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_86377.pdf)



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

Mn/DOT Name: TBM 01 1 L24119

NGS Name: TBM 01 1

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AK9538](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/  
 USGS Quad: LAKE BENTON 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	7	109 N	46 W	441609.00	962636.00		

<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>
1976	1976	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	MNDT

**Description:**

**Stamping:**

3.0 MILES NORTHEAST OF ELKTON SOUTH DAKOTA, 0.4 MILE EAST ON TRUNK HIGHWAY 14 FROM THE STATE LINE.

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

Geoid Separations(ft): GEOID18 = -84.432 12B = -84.452 09 = -84.350 03 = -84.281

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_57526.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57526.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_57526.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57526.pdf)



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

Mn/DOT Name: TBM 01 2 L24119

NGS Name: TBM 01 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AK9539](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/  
 USGS Quad: LAKE BENTON 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>
NE	7	109 N	46 W	441610.00	962534.00		

<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>
1976	1976	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	MNDT

**Description:**

**Stamping:**

3.7 MILES NORTHEAST OF ELKTON SOUTH DAKOTA, 1.3 MILES EAST ON TRUNK HIGHWAY 14 FROM THE STATE LINE.

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

Geoid Separations(ft): GEOID18 = -84.449 12B = -84.475 09 = -84.370 03 = -84.304

\* 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\\_57546.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57546.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_57546.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57546.pdf)



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

Mn/DOT Name: TBM 01 3 L24119

NGS Name: TBM 01 3

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AK9540](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/  
 USGS Quad: LAKE BENTON 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>
NE	8	109 N	46 W	441610.00	962426.00		

<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>
1976	1976	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	MNDT

**Description:**

**Stamping:**

4.7 MILES NORTHEAST OF ELKTON SOUTH DAKOTA, 2.2 MILES EAST ON TRUNK HIGHWAY 14 FROM THE STATE LINE.

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

Geoid Separations(ft): GEOID18 = -84.472 12B = -84.504 09 = -84.399 03 = -84.331

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_57553.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57553.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_57553.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57553.pdf)



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

Mn/DOT Name: TBM 01 4 L24119

NGS Name: TBM 01 4

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AK9541](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/  
 USGS Quad: LAKE BENTON 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>
NE	9	109 N	46 W	441606.00	962321.00		

<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>
1976	1976	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	MNDT

**Description:**

**Stamping:**

5.1 MILES NORTHEAST OF ELKTON SOUTH DAKOTA, 3.1 MILES EAST ON TRUNK HIGHWAY 14 FROM THE STATE LINE.

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

Geoid Separations(ft): GEOID18 = -84.504 12B = -84.544 09 = -84.436 03 = -84.360

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_57560.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57560.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_57560.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57560.pdf)



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

Mn/DOT Name: TBM 01 5 L24119

NGS Name: TBM 01 5

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AK9542](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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	10	109 N	46 W	441602.00	962227.00		

<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>
1976	1976	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	MNDT

**Description:**

**Stamping:**

5.8 MILES NORTHEAST OF ELKTON SOUTH DAKOTA, 3.9 MILES EAST ON TRUNK HIGHWAY 14 FROM THE STATE LINE.

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

Geoid Separations(ft): GEOID18 = -84.537 12B = -84.583 09 = -84.475 03 = -84.396

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_57567.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57567.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_57567.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57567.pdf)



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

Mn/DOT Name: TBM 01 6 L24119

NGS Name: TBM 01 6

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AK9543](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	46 W	441604.00	962113.00		

<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>
1976	1976	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	MNDT

**Description:**

**Stamping:**

6.7 MILES NORTHEAST OF ELKTON SOUTH DAKOTA, 4.9 MILES EAST ON TRUNK HIGHWAY 14 FROM THE STATE LINE.

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

Geoid Separations(ft): GEOID18 = -84.603 12B = -84.645 09 = -84.544 03 = -84.465

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_57574.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57574.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_57574.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57574.pdf)



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

Mn/DOT Name: TBM 01 7 L24119

NGS Name: TBM 01 7

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AK9544](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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>
NE	12	109 N	46 W	441611.00	961933.00		

<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>
1976	1976	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	MNDT

**Description:**

**Stamping:**

2.0 MILES WEST OF LAKE BENTON, 2.0 MILES WEST ON TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON.

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

Geoid Separations(ft): GEOID18 = -84.724 12B = -84.754 09 = -84.682 03 = -84.603

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_57580.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57580.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_57580.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57580.pdf)



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

Mn/DOT Name: TBM 01 8 L24119

NGS Name: TBM 01 8

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AK9545](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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>
NE	7	109 N	45 W	441601.00	961825.00		

<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>
1976	1976	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	MNDT

**Description:**

**Stamping:**

1.0 MILE WEST OF LAKE BENTON, 1.0 MILE WEST ON TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON.

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

Geoid Separations(ft): GEOID18 = -84.826 12B = -84.852 09 = -84.783 03 = -84.698

\* 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\\_57586.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57586.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_57586.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57586.pdf)



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

Mn/DOT Name: TBM 01 9 L24119

NGS Name: TBM 01 9

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AK9546](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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	8	109 N	45 W	441559.00	961743.00		

<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>
1976	1976	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	MNDT

**Description:**

**Stamping:**

IN LAKE BENTON, 0.4 MILE WEST ON TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75.

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

Geoid Separations(ft): GEOID18 = -84.901 12B = -84.921 09 = -84.852 03 = -84.767

\* 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\\_57030.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57030.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_57030.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57030.pdf)



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

Mn/DOT Name: TBM 02 1 L24119

NGS Name: TBM 02 1

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AK9548](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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	9	109 N	45 W	441545.00	961648.00		

<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>
1976	1976	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	MNDT

**Description:**

**Stamping:**

IN LAKE BENTON, 463.0 FEET EAST FROM THE JUNCTION OF JESSE STREET AND LAKEVIEW STREET.

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

Geoid Separations(ft): GEOID18 = -84.980 12B = -850000 09 = -84.928 03 = -84.842

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_57040.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57040.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_57040.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57040.pdf)



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

Mn/DOT Name: TBM 02 2 L24119

NGS Name: TBM 02 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AK9549](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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>
NE	9	109 N	45 W	441559.00	961538.00		

<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>
1976	1976	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	MNDT

**Description:**

**Stamping:**

1.4 MILES EAST OF LAKE BENTON, 1.3 MILES EAST ON TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, 0.2 MILE NORTH ON COUNTY ROAD 108.

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

Geoid Separations(ft): GEOID18 = -85.111 12B = -85.131 09 = -85.062 03 = -84.970

\* 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\\_57060.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57060.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_57060.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57060.pdf)



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

Mn/DOT Name: TBM 07 1 L24119

NGS Name: TBM 07 1

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AK9547](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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	8	109 N	45 W	441532.00	961710.00		

<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>
1976	1976	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	MNDT

**Description:**

**Stamping:**

IN LAKE BENTON, 0.2 MILE SOUTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14.

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

Geoid Separations(ft): GEOID18 = -84.928 12B = -84.951 09 = -84.878 03 = -84.796

\* 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\\_57152.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57152.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_57152.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57152.pdf)



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

Mn/DOT Name: TBM 1 L3058

NGS Name: TBM 1

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [BK8340](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<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	3	109 N	44 W	441633.00	960746.00		

<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>
UNKNOWN	UNMONUMENTED	NGS

**Description:** (2016)

**Stamping:**

IN TYLER, 0.3 MILE EAST ON BRADLEY STREET FROM THE JUNCTION OF BRADLEY STREET AND TYLER STREET.

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

Geoid Separations(ft): GEOID18 = -85.912 12B = -85.958 09 = -85.853 03 = -85.741

\* 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\\_59580.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59580.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_59580.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_59580.pdf)





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

Mn/DOT Name: TBM 33 A L24119

NGS Name: TBM 33 A

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AK9550](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<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	3	109 N	45 W	441625.00	961436.00		

<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>
1976	1976	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	MNDT

**Description:**

**Stamping:**

2.3 MILES NORTHEAST OF LAKE BENTON, 2.4 MILES EAST ON TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, 0.2 MILE NORTH ON A TEE-ROAD TOWARD A RAILROAD.

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

Geoid Separations(ft): GEOID18 = -85.246 12B = -85.269 09 = -85.197 03 = -85.095

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_62279.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62279.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_62279.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62279.pdf)



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

Mn/DOT Name: TBM 42 L773

NGS Name: TBM 42

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [BR4852](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096221/  
 USGS Quad: RUTHTON

<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	36	109 N	44 W	441214.00	960505.00		

<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>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	UNMONUMENTED	NGS

**Description:**

**Stamping:**

2.8 MILES SOUTHWEST OF FLORENCE, 3.2 MILES SOUTHWEST ON TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 14 IN FLORENCE.

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

Geoid Separations(ft): GEOID18 = -85.968 12B = -85.997 09 = -85.909 03 = -85.787

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_61378.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61378.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_61378.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61378.pdf)



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

Mn/DOT Name: TRAUT MNDT

NGS Name: TRAUT

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0142](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/1026  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441611.36	961856.84	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>
1976	2015	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)	HORIZONTAL CONTROL DISK	MNDT

**Description:** (1981)                      **Stamping:** TRAUT 1976

1.5 MILES WEST OF LAKE BENTON, 1.5 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, 59.7 FEET NORTH-NORTHEAST OF TRUNK HIGHWAY 14, 18.5 FEET WEST OF A RIGHT-OF-WAY POST, 137.80 FEET SOUTH OF TRAUT RM 1, 50.99 FEET WEST-NORTHWEST OF TRAUT RM 2, 2.9 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	1962.093	0.016	598.047	0.005	2/1	1991	00000025
NGVD29	1961.233	0.016	597.785	0.005	2	1976	L24119

Geoid Separations(ft): GEOID18 = -84.780 12B = -84.806 09 = -84.737 03 = -84.659

Geodetic Position and Lincoln County Coordinates

<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)	44 16 11.36498	96 18 56.83728	487131.716	126675.839	148478.044	38610.873	572.219	2	1999	17648		
NAD83 (1986)	44 16 11.36487	96 18 56.81884	487133.058	126675.827	148478.453	38610.869		2	1986	17289		
NAD27	44 16 11.48071	96 18 55.67179						2	1977	15815		

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17724.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17724.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17724.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17724.pdf)



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

Mn/DOT Name: TRAUT RM 1

NGS Name: TRAUT RM 1

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096242/1026  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441611.36	961856.84		

<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>
1976	2015	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	MNDT

**Description:** **Stamping:** TRAUT NO 1 1976

1.5 MILES WEST OF LAKE BENTON, 1.5 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, 59.7 FEET NORTH-NORTHEAST OF TRUNK HIGHWAY 14, 18.5 FEET WEST OF A RIGHT-OF-WAY POST, 137.80 FEET NORTH OF STATION TRAUT MNDT.

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

Geoid Separations(ft): GEOID18 = -84.780 12B = -84.806 09 = -84.737 03 = -84.659

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_109505.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_109505.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_109505.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_109505.pdf)



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

Mn/DOT Name: TRAUT RM 2

NGS Name: TRAUT RM 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0143](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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	7	109 N	45 W	441611.18	961856.18	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>
1976	2015	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:** (1981)                      **Stamping:** TRAUT NO 2 1976

1.5 MILES WEST OF LAKE BENTON, 1.5 MILES WEST ON TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, 56.6 FEET NORTH-NORTHEAST OF TRUNK HIGHWAY 14, AT TRUNK HIGHWAY 14 MILEPOINT 6.85, 51.0 FEET EAST OF STATION TRAUT MNDT, 32.5 FEET EAST OF A RIGHT-OF-WAY POST, 53.9 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	1962.089	0.016	598.046	0.005	2/1	1991	00000025
NGVD29	1961.233	0.016	597.785	0.005	2	1976	L24119

Geoid Separations(ft): GEOID18 = -84.783    12B = -84.813    09 = -84.744    03 = -84.662

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17725.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17725.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17725.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17725.pdf)



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

Mn/DOT Name: TRIGG MN081

NGS Name: TRIGG

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6636](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/  
 USGS Quad: LAKE BENTON 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>
SW	6	109 N	46 W	441611.97	962639.46	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	2016	GOOD	Horz=YES 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)	METAL ROD (WITH REMOVABLE ID DISK)	MN-081

**Description:** (2001)                      **Stamping:** TRIGG 2001

7.5 MILES WEST OF LAKE BENTON, 8.0 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 0.40, 105.0 FEET SOUTHEAST OF A POWER POLE, 102.0 FEET NORTH OF TRUNK HIGHWAY 14, 36.0 FEET EAST OF 110TH AVENUE, 1.0 FOOT WEST OF A WITNESS POST.

**Station Pair:** 4101 J - LINCOLN, MN

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	1794.960	0.016	547.105	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -84.429    12B = -84.449    09 = -84.347    03 = -84.278

Geodetic Position and Lincoln County Coordinates

<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)	44 16 11.96942	96 26 39.46022	453467.241	126783.702	138217.092	38643.750	521.368			2016	GPS3151	
NAD83 (2007)	44 16 11.96933	96 26 39.46123	453467.168	126783.693	138217.069	38643.747	521.401			2007	GPS2300	
NAD83 (1996)	44 16 11.96810	96 26 39.46034	453467.232	126783.569	138217.089	38643.709	521.426	C		2016	HTYLR	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TRIGG-DF6636-3E-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TRIGG-DF6636-3E-23JUN2015.jpg</a>	E	Jun 23, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TRIGG-DF6636-2-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TRIGG-DF6636-2-23JUN2015.jpg</a>		Jun 23, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TRIGG-DF6636-1-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TRIGG-DF6636-1-23JUN2015.jpg</a>		Jun 23, 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\\_41595.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41595.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41595.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41595.pdf)



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

Mn/DOT Name: TWIN LK MN081

NGS Name: TWIN LK

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6637](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096133/  
 USGS Quad: HENDRICKS

<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>
SW	31	113 N	46 W	443239.55	962705.97	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>
2002	2019	GOOD	Horz=YES 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	MN-081

**Description:** (2016)                      **Stamping:** TWIN LK 2001

2.9 MILES NORTHWEST OF HENDRICKS, 2.75 MILES NORTH ALONG TRUNK HIGHWAY 271 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 271 AND COUNTY ROAD 17 IN HENDRICKS TO TRUNK HIGHWAY 271 MILEPOINT 6.05, THEN 0.95 MILE WEST ALONG 340TH STREET, 41.3 FEET EAST OF 488TH AVENUE EXTENDED, 29.0 FEET EAST OF A FIELD ENTRANCE, 26.0 FEET NORTH OF A FIELD ENTRANCE, 110.0 FEET NORTHEAST OF A GAS LINE MARKER, 1.0 FOOT SOUTH OF A WITNESS POST, INCORRECT STAMPING YEAR.

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	1792.027	0.016	546.211	0.005	2/1	2020	00000949

Geoid Separations(ft): GEOID18 = -83.583    12B = -83.602    09 = -83.474    03 = -83.471

Geodetic Position and Lincoln County Coordinates

<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)	44 32 39.55125	96 27 05.96690	451764.529	226806.361	137698.104	69130.717	520.727			2012	GPS2800	
NAD83 (2007)	44 32 39.55091	96 27 05.96799	451764.450	226806.327	137698.080	69130.707	520.784			2007	GPS2300	
NAD83 (1996)	44 32 39.55053	96 27 05.96751	451764.484	226806.288	137698.090	69130.695	520.824	C		2020	HTH271	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TWIN_LK-DF6637-3N-23MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TWIN_LK-DF6637-3N-23MAR2016.jpg</a>	N	Mar 23, 2016
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TWIN_LK-DF6637-2-23MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TWIN_LK-DF6637-2-23MAR2016.jpg</a>		Mar 23, 2016
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TWIN_LK-DF6637-1-23MAR2016.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TWIN_LK-DF6637-1-23MAR2016.jpg</a>		Mar 23, 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\\_41605.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41605.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41605.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41605.pdf)



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

Mn/DOT Name: TYLER

NGS Name: TYLER

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0773](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/1040  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	110 N	44 W	441847.79	961112.55		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	1991	GOOD	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

**Description:** (2016)                      **Stamping:** TYLER 1966

3.5 MILES NORTHWEST OF TYLER, 3.5 MILES NORTH AND WEST ON COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND TRUNK HIGHWAY 14 IN TYLER, 1.3 MILES WEST ON COUNTY ROAD 13, 32.5 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF A SHED, 14.5 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF AN OLD SCHOOLHOUSE, 10.0 FEET NORTH OF A TEE-FENCE CORNER, 74.62 FEET WEST-SOUTHWEST OF TYLER RM 1, 109.55 FEET EAST OF TYLER RM 2.

**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 = -85.728    12B = -85.781    09 = -85.669    03 = -85.548

**Geodetic Position and Lincoln County Coordinates**

<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)	44 18 47.79221	96 11 12.55038	520901.979	142524.267	158771.241	43441.483	512.292			2012	GPS2800	
NAD83 (2007)	44 18 47.79224	96 11 12.55134	520901.909	142524.270	158771.219	43441.484	512.323			2007	GPS2300	
NAD83 (1996)	44 18 47.79175	96 11 12.55143	520901.902	142524.220	158771.217	43441.469	512.359	1		1999	17648	
NAD83 (1986)	44 18 47.79167	96 11 12.53358	520903.200	142524.213	158771.613	43441.467		1		1986	17289	
NAD27	44 18 47.91049	96 11 11.39696						1		1977	15955	

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17726.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17726.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17726.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17726.pdf)



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

Mn/DOT Name: TYLER AZ MK

NGS Name: TYLER AZ MK

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO8888](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/1040  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	110 N	44 W	441845.00	961111.00		

<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	1966	GOOD	Horz=YES 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)	AZIMUTH MARK DISK	NGS

**Description:** (1966)                      **Stamping:** TYLER 1966

3.5 MILES NORTHWEST OF TYLER, 3.5 MILES NORTH AND WEST ON COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND TRUNK HIGHWAY 14 IN TYLER, 1.2 MILES WEST ON COUNTY ROAD 111, 0.9 MILE NORTH ON COUNTY ROAD 11, 32.0 FEET WEST OF THE CENTER OF A GRAVEL ROAD, 2.0 FEET NORTHWEST OF A POWER POLE, 2.0 FEET WEST-NORTHWEST OF A METAL WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.728    12B = -85.781    09 = -85.669    03 = -85.548

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TYLER_AZ_MK-CO8888-3E-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TYLER_AZ_MK-CO8888-3E-04MAY2021.jpg</a>	E	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TYLER_AZ_MK-CO8888-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TYLER_AZ_MK-CO8888-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TYLER_AZ_MK-CO8888-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TYLER_AZ_MK-CO8888-1-04MAY2021.jpg</a>		May 4, 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\\_67372.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67372.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67372.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67372.pdf)



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

Mn/DOT Name: TYLER AZ MK 2

NGS Name: TYLER AZ MK 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AA9934](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/1040  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	110 N	44 W	441822.86	961106.74		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>
1991	2021	POOR	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 13 FT)	AZIMUTH MARK DISK	MNDT

**Description:** (2016)                      **Stamping:** TYLER AZIMUTH MARK 2 1966 1991

3.5 MILES NORTHWEST OF TYLER, 2.9 MILES NORTH ON COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND TRUNK HIGHWAY 14, THEN 1.25 MILES WEST ON COUNTY ROAD 111 IN TYLER, 0.5 MILE SOUTH ON COUNTY ROAD 111, 37.5 FEET EAST OF COUNTY ROAD 111, 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 = -85.708    12B = -85.761    09 = -85.653    03 = -85.531

**Geodetic Position and Lincoln County Coordinates**

<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)	44 18 22.85561	96 11 06.74027	521326.977	139999.237	158900.780	42671.853	510.948			2012	GPS2800	
NAD83 (2007)	44 18 22.85565	96 11 06.74122	521326.908	139999.241	158900.759	42671.854	510.979			2007	GPS2300	
NAD83 (1996)	44 18 22.85515	96 11 06.74131	521326.901	139999.190	158900.757	42671.839	511.015		C	1999	17648	
NAD83 (1986)	44 18 22.85506	96 11 06.72347	521328.199	139999.182	158901.153	42671.836			2	1996	GPS938	

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17727.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17727.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17727.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17727.pdf)



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

Mn/DOT Name: TYLER DANISH LUTH BIBLE SCH

NGS Name: TYLER DANISH LUTH BIBLE SCH

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0771](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/1012  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	44 W	441605.37	960757.36		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>
1935	2015	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SPIRE	NGS

**Description:** (1964)

**Stamping:**

IN TYLER, 1.0 BLOCK SOUTH OF TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND COUNTY ROAD 7/STRONG STREET, AT THE SOUTHEAST CORNER OF DANEBOD COURT, 0.6 MILE SOUTH OF A RAILROAD CROSSING, 0.1 MILE EAST OF A RAILROAD CROSSING. THE POINT OBSERVED WAS TOP OF THE SPIRE OF A BIBLE SCHOOL. THE SPIRE IS MISSING FROM THE SCHOOL.

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

Geoid Separations(ft): GEOID18 = -85.866 12B = -85.909 09 = -85.807 03 = -85.699

Geodetic Position and Lincoln County Coordinates

<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)	44 16 05.36610	96 07 57.36047	535122.212	126093.220	163105.576	38433.290		4	1999	17648
NAD83 (1986)	44 16 05.36594	96 07 57.34127	535123.609	126093.206	163106.002	38433.286		4	1986	17289
NAD27	44 16 05.48500	96 07 56.21300						4	1938	03790

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17728.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17728.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17728.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17728.pdf)



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

Mn/DOT Name: TYLER DANISH LUTH CH SPIRE

NGS Name: TYLER DANISH LUTH CH SPIRE

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0770](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/1013  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	44 W	441605.17	960804.10		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>
1935	1964	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	CHURCH SPIRE	NGS

**Description:** (1964)

**Stamping:**

IN TYLER, AT THE CORNER OF TYLER STREET AND DANEBOD COURT . THE POINT OBSERVED WAS THE TIP OF THE SPIRE OF THE CHURCH.

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

Geoid Separations(ft): GEOID18 = -85.853 12B = -85.899 09 = -85.797 03 = -85.689

Geodetic Position and Lincoln County Coordinates

<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)	44 16 05.17251	96 08 04.09646	534632.058	126072.817	162956.177	38427.071		4	1999	17648
NAD83 (1986)	44 16 05.17240	96 08 04.07753	534633.436	126072.808	162956.597	38427.069		4	1986	17289
NAD27	44 16 05.28400	96 08 02.95000						4	1938	03790

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17729.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17729.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17729.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17729.pdf)



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

Mn/DOT Name: TYLER LYON LINCOLN ELEC MAST

NGS Name: TYLER LYON LINCOLN ELEC MAST

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0774](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/1041  
 USGS Quad: TYLER

<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	3	109 N	44 W	441644.20	960803.05		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>
1966	2015	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	RADIO/TV MAST	NGS

**Description:** (1966)

**Stamping:**

IN TYLER, 225.0 FEET EAST OF THE POST OFFICE. THE POINT OBSERVED WAS THE TOP CENTER OF THE REA MAST.

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

Geoid Separations(ft): GEOID18 = -85.895 12B = -85.941 09 = -85.836 03 = -85.725

Geodetic Position and Lincoln County Coordinates

<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)	44 16 44.20007	96 08 03.05255	534701.624	130025.422	162977.381	39631.828			4	1999	17648	
NAD83 (1986)	44 16 44.20017	96 08 03.03398	534702.976	130025.435	162977.793	39631.832			4	1986	17289	
NAD27	44 16 44.31409	96 08 01.90258							4	1977	15955	

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17730.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17730.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17730.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17730.pdf)



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

Mn/DOT Name: TYLER MUNICIPAL TANK

NGS Name: TYLER MUNICIPAL TANK

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0772](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/1023  
 USGS Quad: TYLER

<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>
SW	3	109 N	44 W	441636.37	960802.16		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>
1966	2015	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	ELEVATED TANK	NGS

**Description:** (1976)

**Stamping:**

IN TYLER, 0.55 MILE NORTH ALONG COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND TRUNK HIGHWAY 14 IN TYLER, THEN 0.05 MILE WEST ON WEST BRADLEY STREET. STATION TYLER MUNICIPAL TANK IS THE FINIAL ATOP THE MUNICIPAL WATER TANK.

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

Geoid Separations(ft): GEOID18 = -85.889 12B = -85.935 09 = -85.830 03 = -85.718

Geodetic Position and Lincoln County Coordinates

<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)	44 16 36.36703	96 08 02.15664	534768.096	129232.243	162997.642	39390.067		4	1999	17648
NAD83 (1986)	44 16 36.36684	96 08 02.13846	534769.419	129232.226	162998.045	39390.061		4	1986	17289
NAD27	44 16 36.47720	96 08 01.00819						4	1968	14152

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TYLER_MUNICIPAL_TANK-PR0772-3S-18JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/TYLER_MUNICIPAL_TANK-PR0772-3S-18JUN2015.jpg</a>	S	Jun 18, 2015
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\\_17731.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17731.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17731.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17731.pdf)



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

Mn/DOT Name: TYLER RM 1

NGS Name: TYLER RM 1

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO8889](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/1040  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	110 N	44 W	441847.97	961111.56		

<u>Year Set</u>	<u>Last Recovery</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	1991	GOOD	Horz=YES Vert=YES	NO		FLUSH	SEE DESCRIPTION

  

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

**Description:**

**Stamping:** TYLER NO 1 1966

3.5 MILES NORTHWEST OF TYLER, 3.5 MILES NORTH AND WEST ON COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND TRUNK HIGHWAY 14 IN TYLER, 1.3 MILES WEST ON COUNTY ROAD 13, 29.0 FEET NORTH OF A CORNER FENCE POST, 2.5 FEET WEST-SOUTHWEST OF THE SOUTHEAST CORNER OF THE IMPLEMENT SHED.

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

Geoid Separations(ft): GEOID18 = -85.728 12B = -85.781 09 = -85.669 03 = -85.548

\* 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\\_67373.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67373.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67373.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67373.pdf)



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

Mn/DOT Name: TYLER RM 2

NGS Name: TYLER RM 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [CO8890](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/1040  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	110 N	44 W	441847.70	961114.05		

<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>
1966	1966	GOOD	Horz=YES Vert=YES	NO		FLUSH	SEE DESCRIPTION

  

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

**Description:** (1966)                      **Stamping:** TYLER NO 2 1966

3.5 MILES NORTHWEST OF TYLER, 3.5 MILES NORTH AND WEST ON COUNTY ROAD 7 FROM THE JUNCTION OF COUNTY ROAD 7 AND TRUNK HIGHWAY 14 IN TYLER, THEN 1.4 MILES WEST ON COUNTY ROAD 13, 52.0 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF THE OLD SCHOOLHOUSE, 1.0 FOOT NORTH OF A FENCE.

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

Geoid Separations(ft): GEOID18 = -85.722    12B = -85.774    09 = -85.663    03 = -85.541

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67374.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67374.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67374.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67374.pdf)



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

Mn/DOT Name: U 389

NGS Name: U 389

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AB8794](#) [Get Map](#)  
NGS Quad / Sta Num : 44096243/  
USGS Quad: LAKE BENTON 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>
SW	4	109 N	46 W	441610.94	962413.75	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>
1994	2015	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE) (DEPTH 31 FT)	METAL ROD	NGS

**Description:** (2000)                      **Stamping:** U 389 1994

5.8 MILES WEST OF LAKE BENTON, 5.8 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 2.7, 54.5 FEET NORTH OF TRUNK HIGHWAY 14, 36.1 FEET EAST OF A 130TH AVENUE, 4.6 FEET BELOW THE LEVEL OF THE HIGHWAY, 3.6 FEET EAST OF UNDERGROUND CABLE JUNCTION BOX NUMBER G 19, 1.3 FEET WEST OF A WITNESS POST.

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	1858.349	0.016	566.426	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -84.475    12B = -84.511    09 = -84.406    03 = -84.337

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/U_389-AB8794-3N-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/U_389-AB8794-3N-23JUN2015.jpg</a>	N	Jun 23, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/U_389-AB8794-2-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/U_389-AB8794-2-23JUN2015.jpg</a>		Jun 23, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/U_389-AB8794-1-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/U_389-AB8794-1-23JUN2015.jpg</a>		Jun 23, 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\\_40034.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40034.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_40034.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40034.pdf)



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

Mn/DOT Name: V 389

NGS Name: V 389

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AB8790](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096213/  
 USGS Quad: TYLER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	45 W	441610.00	961317.00	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>
1994	2015	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	METAL ROD	NGS

**Description:** (2000)                      **Stamping:** V 389 1994

3.3 MILES EAST OF LAKE BENTON, 3.4 MILES EAST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, 70.2 FEET SOUTH OF TRUNK HIGHWAY 14, 38.1 FEET WEST OF A GRAVEL ROAD, 4.3 FEET WEST OF AN UNDERGROUND CABLE JUNCTION BOX, 3.3 FEET BELOW THE LEVEL OF THE HIGHWAY, 1.3 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	1777.076	0.007	541.654	0.002	1/2	1997	00000235

Geoid Separations(ft): GEOID18 = -85.357    12B = -85.387    09 = -85.305    03 = -85.203

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_40035.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40035.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_40035.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40035.pdf)



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

Mn/DOT Name: VELZ MNDT

NGS Name: VELZ

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0135](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/1029  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	46 W	441604.11	962149.84	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>
1976	2016	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>
CONCRETE MONUMENT (CAST-IN-PLACE)	HORIZONTAL CONTROL DISK	MNDT

**Description:** (2006)                      **Stamping:** VELZ 1976

3.8 MILES WEST OF LAKE BENTON, 3.8 MILES WEST ON TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON TO TRUNK HIGHWAY 14 MILEPOINT 4.40, THEN 750.0 FEET SOUTH ON COUNTY ROAD 2, 46.0 FEET WEST OF COUNTY ROAD 2, 147.02 FEET NORTHWEST OF VELZ MNDT RM 1, 113.73 FEET NORTH OF VELZ MNDT RM 2, 3.0 FOOT WEST 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	1902.234	0.016	579.802	0.005	2/1	2017	00000903
NGVD29	1901.417	0.007	579.553	0.002	1/2	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.567    12B = -84.609    09 = -84.508    03 = -84.426

Geodetic Position and Lincoln County Coordinates

<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)	44 16 04.11428	96 21 49.84152	474541.490	125952.786	144640.536	38390.486	553.999			2016	GPS3151	
NAD83 (2007)	44 16 04.11419	96 21 49.84253	474541.417	125952.777	144640.513	38390.483	554.040			2007	GPS2300	
NAD83 (1996)	44 16 04.11351	96 21 49.84203	474541.453	125952.708	144640.524	38390.462	554.078	C		2016	HTYLR	
NAD83 (1986)	44 16 04.11327	96 21 49.82315	474542.827	125952.682	144640.943	38390.454			2	1986	17289	
NAD27	44 16 04.23221	96 21 48.67350							2	1977	15815	

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ-PR0135-3W-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ-PR0135-3W-22JUN2015.jpg</a>	W	Jun 22, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ-PR0135-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ-PR0135-2-22JUN2015.jpg</a>		Jun 22, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ-PR0135-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ-PR0135-1-22JUN2015.jpg</a>		Jun 22, 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\\_17732.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17732.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17732.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17732.pdf)



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

Mn/DOT Name: VELZ MNDT AZ MK

NGS Name: VELZ AZ MK

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0799](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096231/1030  
 USGS Quad: VERDI

				<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>
SW	14	109 N	46 W	441452.86	962147.59	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>
1976	2015	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>
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	MNDT

**Description:** (1976)                      **Stamping:** VELZ 1976

3.9 MILES WEST-SOUTHWEST OF LAKE BENTON, 3.8 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON TO TRUNK HIGHWAY 14 MILEPOINT 4.4, THEN 1.5 MILES SOUTH ON COUNTY ROAD 2, 50.5 FEET EAST OF COUNTY ROAD 2, 1.6 FEET WEST OF A WITNESS POST.

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	1880.849	0.016	573.284	0.005	2/1	2009	00000425-36

Geoid Separations(ft): GEOID18 = -84.563    12B = -84.606    09 = -84.504    03 = -84.416

Geodetic Position and Lincoln County Coordinates

<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)	44 14 52.86158	96 21 47.59465	474696.483	118736.545	144687.777	36190.971	547.342	3	1999	17648		
NAD83 (1986)	44 14 52.86146	96 21 47.57575	474697.859	118736.532	144688.197	36190.967		3	1986	17289		
NAD27	44 14 52.97989	96 21 46.42814						3	1977	15815		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ_AZ_MK-PR0799-3E-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ_AZ_MK-PR0799-3E-22JUN2015.jpg</a>	E	Jun 22, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ_AZ_MK-PR0799-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ_AZ_MK-PR0799-2-22JUN2015.jpg</a>		Jun 22, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ_AZ_MK-PR0799-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ_AZ_MK-PR0799-1-22JUN2015.jpg</a>		Jun 22, 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\\_17733.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17733.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17733.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17733.pdf)



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

Mn/DOT Name: VELZ MNDT RM 1

NGS Name: VELZ RM 1

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0137](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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	11	109 N	46 W	441603.01	962148.53	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>
1976	2015	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>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

**Description:** (2006)                      **Stamping:** VELZ NO 1 1976

3.8 MILES WEST OF LAKE BENTON, 3.8 MILES WEST ON TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON TO TRUNK HIGHWAY 14 MILEPOINT 4.40, THEN 750.0 FEET SOUTH ON COUNTY ROAD 2, 48.0 FEET EAST OF COUNTY ROAD 2, 147.02 FEET SOUTHEAST OF STATION VELZ MNDT, 93.8 FEET EAST OF VELZ MNDT RM 2, 1.4 FEET WEST 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	1901.400	0.016	579.548	0.005	2/1	2017	00000903
NGVD29	1900.541	0.016	579.286	0.005	2/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.567    12B = -84.609    09 = -84.508    03 = -84.426

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ_RM_1-PR0137-3E-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ_RM_1-PR0137-3E-22JUN2015.jpg</a>	E	Jun 22, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ_RM_1-PR0137-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ_RM_1-PR0137-2-22JUN2015.jpg</a>		Jun 22, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ_RM_1-PR0137-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ_RM_1-PR0137-1-22JUN2015.jpg</a>		Jun 22, 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\\_17734.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17734.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17734.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17734.pdf)



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

Mn/DOT Name: VELZ MNDT RM 2

NGS Name: VELZ RM 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0136](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<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>
NE	10	109 N	46 W	441602.99	962149.82	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>
1976	2015	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	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:** (2016)                      **Stamping:** VELZ NO 2 1976

3.8 MILES WEST OF LAKE BENTON, 3.8 MILES WEST ON TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, TO TRUNK HIGHWAY 14 MILEPOINT 4.40, THEN 750.0 FEET SOUTH ON COUNTY ROAD 2, 46.0 FEET WEST OF COUNTY ROAD 2, 113.73 FEET SOUTH OF STATION VELZ MNDT, 93.8 FEET WEST OF VELZ MNDT RM 1, 3.0 FEET WEST 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	1901.830	0.016	579.679	0.005	2/1	2017	00000903
NGVD29	1901.000	0.016	579.426	0.005	2/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.567 12B = -84.609 09 = -84.508 03 = -84.426

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ_RM_2-PR0136-3W-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ_RM_2-PR0136-3W-22JUN2015.jpg</a>	W	Jun 22, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ_RM_2-PR0136-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ_RM_2-PR0136-2-22JUN2015.jpg</a>		Jun 22, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ_RM_2-PR0136-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VELZ_RM_2-PR0136-1-22JUN2015.jpg</a>		Jun 22, 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\\_17735.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17735.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17735.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17735.pdf)



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

Mn/DOT Name: VERDI

NGS Name: VERDI

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0132](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/1007  
 USGS Quad: LAKE BENTON 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>
SW	4	109 N	46 W	441610.89	962357.47	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>
1949	2015	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)	TRIANGULATION STATION DISK	NGS

**Description:** (1976)                      **Stamping:** VERDI 1949

5.6 MILES WEST OF LAKE BENTON, 5.6 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 2.7, 59.0 FEET NORTH OF TRUNK HIGHWAY 14, 18.0 FEET WEST OF A FENCE CORNER, 37.43 FEET SOUTHWEST OF VERDI RM 1, 5.0 FEET SOUTH-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	1880.672	0.016	573.230	0.005	2/1	2017	00000903
NGVD29	1879.845	0.007	572.978	0.002	1/2	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.481    12B = -84.521    09 = -84.413    03 = -84.344

Geodetic Position and Lincoln County Coordinates

<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)	44 16 10.88725	96 23 57.46676	465255.123	126651.756	141810.045	38603.532	547.501	2	1999	17648		
NAD83 (1986)	44 16 10.88710	96 23 57.44821	465256.473	126651.738	141810.457	38603.527		2	1986	17289		
NAD27	44 16 11.00800	96 23 56.29400						2	1986	10484		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VERDI-PR0132-3N-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VERDI-PR0132-3N-22JUN2015.jpg</a>	N	Jun 22, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VERDI-PR0132-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VERDI-PR0132-2-22JUN2015.jpg</a>		Jun 22, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VERDI-PR0132-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VERDI-PR0132-1-22JUN2015.jpg</a>		Jun 22, 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\\_17736.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17736.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17736.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17736.pdf)



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

Mn/DOT Name: VERDIAZ MK

NGS Name: VERDIAZ MK

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0130](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/1007  
 USGS Quad: LAKE BENTON SW

		<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	8	441609.50	962516.42	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>
1949	2016	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)	AZIMUTH MARK DISK	NGS

**Description:** (2016)                      **Stamping:** VERDI 1949

6.65 MILES WEST OF LAKE BENTON, 6.65 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, AT TRUNK HIGHWAY 14 MILEPOINT 1.55, 76.0 FEET SOUTH OF TRUNK HIGHWAY 14, 2.5 FEET WEST 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	1828.205	0.016	557.238	0.005	2/1	2017	00000903
NGVD29	1827.382	0.007	556.987	0.002	1/2	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.455    12B = -84.481    09 = -84.380    03 = -84.311

Geodetic Position and Lincoln County Coordinates

<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)	44 16 09.50231	96 25 16.41659	459509.748	126521.581	140058.851	38563.855	531.477			2016	GPS3151	
NAD83 (1996)	44 16 09.50128	96 25 16.41678	459509.734	126521.476	140058.847	38563.823	531.540	C		2016	HTYLR	
NAD83 (1986)	44 16 09.50024	96 25 16.39797	459511.102	126521.368	140059.264	38563.790			3	1986	17289	
NAD27	44 16 09.62088	96 25 15.24127							3	1977	15815	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VERDI_AZ_MK-PR0130-3S-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VERDI_AZ_MK-PR0130-3S-23JUN2015.jpg</a>	S	Jun 23, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VERDI_AZ_MK-PR0130-2-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VERDI_AZ_MK-PR0130-2-23JUN2015.jpg</a>		Jun 23, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VERDI_AZ_MK-PR0130-1-23JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VERDI_AZ_MK-PR0130-1-23JUN2015.jpg</a>		Jun 23, 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\\_17737.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17737.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17737.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17737.pdf)



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

Mn/DOT Name: VERDI RM 1

NGS Name: VERDI RM 1

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0133](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/  
 USGS Quad: LAKE BENTON SW

	<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	9	109 N	46 W	441611.22	962357.23	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1949	2015	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>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

**Description:** (1976)                      **Stamping:** VERDI NO 1 1949

5.6 MILES WEST OF LAKE BENTON, 5.6 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 75 IN LAKE BENTON, 96.0 FEET NORTH OF TRUNK HIGHWAY 14, AT TRUNK HIGHWAY 14 MILEPOINT 2.7, 37.43 FEET NORTH-NORTHEAST OF STATION VERDI, 34.0 FEET NORTH-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	1881.105	0.016	573.362	0.005	2/1	2017	00000903
NGVD29	1880.259	0.016	573.104	0.005	2/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -84.485    12B = -84.521    09 = -84.416    03 = -84.344

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VERDI_RM_1-PR0133-3N-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VERDI_RM_1-PR0133-3N-22JUN2015.jpg</a>	N	Jun 22, 2015
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VERDI_RM_1-PR0133-2-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VERDI_RM_1-PR0133-2-22JUN2015.jpg</a>		Jun 22, 2015
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VERDI_RM_1-PR0133-1-22JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/VERDI_RM_1-PR0133-1-22JUN2015.jpg</a>		Jun 22, 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\\_17738.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17738.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17738.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17738.pdf)



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

Mn/DOT Name: VERDI RM 2

NGS Name: VERDI RM 2

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0131](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096243/  
 USGS Quad: LAKE BENTON 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>
SW	4	109 N	46 W	441610.90	962357.96	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>
1976	2015	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	MNDT

**Description:** (1976)                      **Stamping:** VERDI NO 2 1949

4.5 MILES NORTHEAST OF ELKTON SOUTH DAKOTA, 2.7 MILES EAST ON TRUNK HIGHWAY 14 FROM THE WEST STATE LINE, 57.0 FEET NORTH OF TRUNK HIGHWAY 14, AT TRUNK HIGHWAY 14 MILEPOINT 2.7, 35.9 FEET WEST OF STATION VERDI, 61.6 FEET SOUTHWEST OF VERDI RM 1, 40.9 FEET WEST 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	1881.023	0.016	573.337	0.005	2/1	1991	00000025
NGVD29	1880.157	0.016	573.073	0.005	2	1976	L24119

Geoid Separations(ft): GEOID18 = -84.485    12B = -84.521    09 = -84.416    03 = -84.344

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17739.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17739.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17739.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17739.pdf)



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

Mn/DOT Name: W 7

NGS Name: W 7

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0079](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096221/  
 USGS Quad: RUTHTON

<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	25	109 N	44 W	441245.00	960443.00	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>
1934	2014	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	BENCH MARK DISK	NGS

**Description:** (1934)

**Stamping:** W 7 1933

2.8 MILES NORTH OF RUTHTON, 2.8 MILES NORTHEAST ALONG A RAILROAD FROM THE RUTHTON RAILROAD STATION, 0.6 MILE NORTHEAST OF RAILROAD MILEPOST 86, 36.0 FEET SOUTHWEST OF A ROAD, 57.0 FEET WEST OF THE WEST RAIL OF A RAILROAD.

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	1720.649	0.007	524.455	0.002	1	1993	POSTED
NGVD29	1719.833	0.007	524.206	0.002	1	1940	Q440962

---

Geoid Separations(ft): GEOID18 = -86.020 12B = -86.053 09 = -85.958 03 = -85.840

---

\* 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\\_17740.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17740.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17740.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17740.pdf)



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

Mn/DOT Name: WEBER MN081

NGS Name: WEBER

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DF6638](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	110 N	45 W	441942.15	961527.83		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		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	MN-081

**Description:** (2002)                      **Stamping:** WEBER 2001

5.0 MILES NORTHEAST OF LAKE BENTON, 4.5 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, 1.2 MILES EAST ON COUNTY ROAD 13, 62.0 FEET SOUTH OF COUNTY ROAD 13, 252.0 EAST OF A POWER POLE, 53.0 FEET WEST OF A POWER POLE, 24.0 FEET WEST OF A FIELD ENTRANCE, 1.2 FEET NORTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.384    12B = -85.423    09 = -85.328    03 = -85.213

Geodetic Position and Lincoln County Coordinates

<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)	44 19 42. 14769	96 15 27. 83091	502338. 584	148019. 041	153113. 107	45116. 294	518. 875		2014	GPS3047
NAD83 (2007)	44 19 42. 14756	96 15 27. 83176	502338. 522	148019. 028	153113. 088	45116. 290	518. 877		2007	GPS2300
NAD83 (1996)	44 19 42. 14703	96 15 27. 83125	502338. 559	148018. 974	153113. 099	45116. 274	518. 916	C	2011	HTH75

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
<b>Location:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/WEBER-DF6638-3S-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/WEBER-DF6638-3S-04MAY2021.jpg</a>	S	May 4, 2021
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/WEBER-DF6638-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/WEBER-DF6638-2-04MAY2021.jpg</a>		May 4, 2021
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/WEBER-DF6638-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/WEBER-DF6638-1-04MAY2021.jpg</a>		May 4, 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\\_41591.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41591.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41591.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41591.pdf)



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

Mn/DOT Name: WENLO ST J CANTIUS CH N SPIRE

NGS Name: WENLO ST J CANTIUS CH N SPIRE

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0785](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096214/1014  
 USGS Quad: ARCO

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	112 N	45 W	442957.58	961355.35		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>
1935	1935	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	CHURCH SPIRE	NGS

**Description:** (1935)

**Stamping:**

2.6 MILES NORTHEAST OF IVANHOE, 3.0 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, 1.5 MILES EAST ON COUNTY ROAD 17, 0.2 MILE SOUTH ON 481ST AVENUE, 0.1 MILE SOUTH ON KOWNO STREET. THE POINT OBSERVED WAS THE NORTH SPIRE OF THE TWIN SPIRES OF THE CHURCH.

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

Geoid Separations(ft): GEOID18 = -85.807 12B = -85.807 09 = -85.695 03 = -85.584

Geodetic Position and Lincoln County Coordinates

<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)	44 29 57.58201	96 13 55.35031	509035.231	210349.772	155154.249	64114.739		4	1999	17648
NAD83 (1986)	44 29 57.58204	96 13 55.33255	509036.518	210349.776	155154.641	64114.740		4	1986	17289
NAD27	44 29 57.70500	96 13 54.17900						4	1938	03790

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17741.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17741.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17741.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17741.pdf)



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

Mn/DOT Name: WENLO ST J CANTIUS CH S SPIRE

NGS Name: WENLO ST J CANTIUS CH S SPIRE

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0783](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096214/1015  
 USGS Quad: ARCO

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	112 N	45 W	442957.12	961355.37		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>
1935	1965	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	CHURCH SPIRE	NGS

**Description:** (1935)

**Stamping:**

2.6 MILES NORTHEAST OF IVANHOE, 3.0 MILES NORTH ON TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, 1.5 MILES EAST ON COUNTY ROAD 17, 0.2 MILE SOUTH ON 481ST AVENUE, 0.1 MILE SOUTH ON KOWNO STREET. THE POINT OBSERVED WAS THE SOUTH SPIRE OF THE TWIN SPIRES OF THE CHURCH.

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

Geoid Separations(ft): GEOID18 = -85.807 12B = -85.807 09 = -85.695 03 = -85.587

Geodetic Position and Lincoln County Coordinates

<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)	44 29 57.12479	96 13 55.37044	509033.791	210303.465	155153.810	64100.624		4	1999	17648
NAD83 (1986)	44 29 57.12487	96 13 55.35294	509035.060	210303.474	155154.197	64100.627		4	1986	17289
NAD27	44 29 57.24800	96 13 54.20600						4	1938	03790

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17742.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17742.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17742.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17742.pdf)



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

Mn/DOT Name: WILNO

NGS Name: WILNO

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DP5878](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096132/  
 USGS Quad: CANBY SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	113 N	45 W	443714.17	961635.51		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>
2010	2010	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 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2010)                      **Stamping:** WILNO 2010

11.0 MILES NORTH OF IVANHOE, 11.35 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 19 IN IVANHOE, AT TRUNK HIGHWAY 75 MILEPOINT 80.25, 60.2 FEET WEST OF TRUNK HIGHWAY 75, 6.6 FEET SOUTHEAST OF A POWER POLE WITH 2 GUY WIRES.

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

Geoid Separations(ft): GEOID18 = -84.905    12B = -84.918    09 = -84.823    03 = -84.741

Geodetic Position and Lincoln County Coordinates

<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)	44 37 14.16702	96 16 35.50898	497431.463	254564.955	151617.413	77591.554	436.876		2014	GPS3047
NAD83 (1996)	44 37 14.16640	96 16 35.50955	497431.421	254564.892	151617.401	77591.534	436.938	C	2011	HTH75

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/WILNO-DP5878-3W-23DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/WILNO-DP5878-3W-23DEC2010.jpg</a>	W	Dec 23, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/WILNO-DP5878-2-23DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/WILNO-DP5878-2-23DEC2010.jpg</a>		Dec 23, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/WILNO-DP5878-1-23DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/WILNO-DP5878-1-23DEC2010.jpg</a>		Dec 23, 2010

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_93398.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93398.pdf)  
 Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93398.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93398.pdf)



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

Mn/DOT Name: WIND

NGS Name: WIND

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DP5879](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096242/  
 USGS Quad: LAKE BENTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	110 N	45 W	441756.44	961652.16		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>
2010	2010	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:** (2012)                      **Stamping:** WIND 2010

2.5 MILES NORTH OF LAKE BENTON, 2.4 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 14 IN LAKE BENTON, AT TRUNK HIGHWAY 75 MILEPOINT 57.5, 161.0 FEET EAST OF TRUNK HIGHWAY 75, 160.0 FEET SOUTH OF COUNTY ROAD 12, 84.3 FEET EAST OF A POWER POLE, 4.3 FEET NORTH-NORTHWEST OF A RIGHT-OF-WAY POST, 4.3 FEET NORTH-NORTHWEST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.125    12B = -85.144    09 = -85.059    03 = -84.970

Geodetic Position and Lincoln County Coordinates

<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)	44 17 56.43554	96 16 52.16247	496206.070	137313.272	151243.913	41853.169	515.620			2014	GPS3047	
NAD83 (1996)	44 17 56.43490	96 16 52.16285	496206.042	137313.207	151243.904	41853.149	515.663	C		2011	HTH75	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/WIND-DP5879-3S-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/WIND-DP5879-3S-28DEC2010.jpg</a>	S	Dec 28, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/WIND-DP5879-2-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/WIND-DP5879-2-28DEC2010.jpg</a>		Dec 28, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/WIND-DP5879-1-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/WIND-DP5879-1-28DEC2010.jpg</a>		Dec 28, 2010

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_93399.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93399.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93399.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93399.pdf)



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

Mn/DOT Name: X 389

NGS Name: X 389

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AB8783](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096221/  
 USGS Quad: RUTHTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	44 W	441451.55	960505.06	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>
1994	2015	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE) (DEPTH 20 FT)	METAL ROD	NGS

**Description:** (2016)                      **Stamping:** X 389 1994

1.8 MILES NORTHWEST OF FLORENCE, 2.0 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 23 IN FLORENCE, AT TRUNK HIGHWAY 14 MILEPOINT 19.2, 52.8 FEET SOUTHWEST OF TRUNK HIGHWAY 14, 13.8 FEET SOUTHEAST OF THE NORTH LEG OF DOUBLE POWER POLE NUMBER 223, 12.1 FEET NORTHEAST OF THE SOUTH LEG, 3.3 FEET BELOW THE LEVEL OF THE HIGHWAY, 1.6 FEET EAST OF A WITNESS POST.

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	1682.572	0.016	512.849	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -86.076    12B = -86.115    09 = -86.014    03 = -85.899

\* No Horizontal Positions in the Database \*

**Station Photos**

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/X_389-AB8783-3SW-17JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/X_389-AB8783-3SW-17JUN2015.jpg</a>	SW	Jun 17, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/X_389-AB8783-2-17JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/X_389-AB8783-2-17JUN2015.jpg</a>		Jun 17, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/X_389-AB8783-1-17JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/X_389-AB8783-1-17JUN2015.jpg</a>		Jun 17, 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\\_40039.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40039.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_40039.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40039.pdf)



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

Mn/DOT Name: Y 111

NGS Name: Y 111

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0091](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096234/  
 USGS Quad: ELKTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	46 W	441317.00	962414.00	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	1965	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:** (1996)                      **Stamping:** Y 111 1934

2.8 MILES WEST ALONG A RAILROAD FROM THE VERDI RAILROAD STATION, 264.0 FEET WEST OF RAILROAD MILEPOST 270, 45.0 FEET SOUTH OF THE RAILROAD TRACKS, 36.0 FEET EAST OF A ROAD, 7.0 FEET SOUTH OF A POLE, 2.0 FEET WEST OF A RIGHT-OF-WAY FENCE CORNER.

**Station Notes**

IN 1965 THE STATION WAS FOUND IN PLACE BUT WITH THE MONUMENT BROKEN OFF BELOW THE GROUND LEVEL.

**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	1783.753	0.016	543.689	0.005	2/0	1991	00000025
NGVD29	1782.893	0.007	543.427	0.002	1	1940	Q440962

Geoid Separations(ft): GEOID18 = -84.603    12B = -84.626    09 = -84.544    03 = -84.449

\* 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\\_17743.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17743.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17743.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17743.pdf)



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

Mn/DOT Name: Y 389

NGS Name: Y 389

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AB8784](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096212/  
 USGS Quad: DEAD COON 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	109 N	44 W	441524.21	960559.14	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>
1994	2016	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE) (DEPTH 21 FT)	METAL ROD	NGS

**Description:** (2000)                      **Stamping:** Y 389 1994

2.75 MILES NORTHWEST OF FLORENCE, 3.0 MILES WEST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND TRUNK HIGHWAY 23 IN FLORENCE AT TRUNK HIGHWAY 14 MILEPOINT 18.20, 106.6 FEET EAST OF COUNTY ROAD 120(280TH AVENUE), 73.8 FEET NORTHEAST OF TRUNK HIGHWAY 14, 3.6 FEET SOUTHEAST OF AN UNDERGROUND CABLE JUNCTION BOX, 3.0 FEET BELOW THE LEVEL OF THE HIGHWAY, 1.3 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>
NAVD88	1703.402	0.016	519.198	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -86.020    12B = -86.063    09 = -85.958    03 = -85.843

Geodetic Position and Lincoln County Coordinates

<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)	44 15 24.21095	96 05 59.13985	543733.748	121941.100	165730.378	37167.722	492.980				2016	GPS3151
NAD83 (1996)	44 15 24.21002	96 05 59.14008	543733.732	121941.005	165730.373	37167.693	493.035	C			2016	HTYLR

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/Y_389-AB8784-3NE-17JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/Y_389-AB8784-3NE-17JUN2015.jpg</a>	NE	Jun 17, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/Y_389-AB8784-2-17JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/Y_389-AB8784-2-17JUN2015.jpg</a>		Jun 17, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/Y_389-AB8784-1-17JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/Y_389-AB8784-1-17JUN2015.jpg</a>		Jun 17, 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\\_40037.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40037.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_40037.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40037.pdf)



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

Mn/DOT Name: YLER

NGS Name: YLER

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [DP4277](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096221/  
 USGS Quad: RUTHTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	44 W	441231.49	960451.15	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>
2014	2014	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 22 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2014)                      **Stamping:** YLER 2014

3.0 MILES NORTHEAST OF RUTHTON, 3.1 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 19 IN RUTHTON, AT TRUNK HIGHWAY 23 MILEPOINT 49.80, 0.1 MILE SOUTHWEST OF THE COUNTY LINE BETWEEN LINCOLN AND LYON, 53.8 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 17.8 FEET SOUTHWEST OF A FIELD ENTRANCE, 5.0 FEET NORTHEAST OF A WITNESS POST.

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	1721.414	0.016	524.688	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -860000 12B = -86.030 09 = -85.938 03 = -85.820

Geodetic Position and Lincoln County Coordinates

<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)	44 12 31.48838	96 04 51.15061	548722.074	104459.539	167250.823	31839.331	498.474			2014	GPS3026	
NAD83 (1996)	44 12 31.48790	96 04 51.15095	548722.050	104459.490	167250.815	31839.316	498.553	C		2014	HRUTH	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/YLER-DP4277-3SE-30APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/YLER-DP4277-3SE-30APR2014.jpg</a>	SE	Apr 30, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/YLER-DP4277-2-30APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/YLER-DP4277-2-30APR2014.jpg</a>		Apr 30, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/YLER-DP4277-1-30APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/YLER-DP4277-1-30APR2014.jpg</a>		Apr 30, 2014

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

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_101317.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101317.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_101317.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101317.pdf)



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

Mn/DOT Name: Z 111

NGS Name: Z 111

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [PR0092](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096231/  
 USGS Quad: VERDI

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	109 N	46 W	441244.00	962147.00	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	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)	BENCH MARK DISK	NGS

**Description:** (2008)                      **Stamping:** Z 111 1934

IN VERDI, 0.6 MILE WEST ALONG A RAILROAD FROM THE VERDI RAILROAD STATION, 231.0 FEET WEST OF RAILROAD MILEPOST 268, 36.0 FEET SOUTH OF A RAILROAD, 25.0 FEET EAST OF A ROAD, 12.0 FEET NORTH OF A FENCE CORNER, 7.0 FEET NORTH 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	1764.416	0.016	537.795	0.005	2/0	1991	00000025
NGVD29	1763.559	0.007	537.534	0.002	1	1940	Q440962

Geoid Separations(ft): GEOID18 = -84.645    12B = -84.685    09 = -84.580    03 = -84.485

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_17744.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_17744.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_17744.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_17744.pdf)



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

Mn/DOT Name: Z 389

NGS Name: Z 389

County: LINCOLN, MN (Sheet 1)

NGS ACRN: [AB8785](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096212/  
 USGS Quad: DEAD COON 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	109 N	44 W	441556.65	960653.91	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>
1994	2016	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE) (DEPTH 16 FT)	METAL ROD	NGS

**Description:** (2009) **Stamping:** Z 389 1994

0.75 MILE SOUTHEAST OF TYLER, 1.0 MILE EAST ALONG TRUNK HIGHWAY 14 FROM THE JUNCTION OF TRUNK HIGHWAY 14 AND COUNTY ROAD 7 IN TYLER, AT TRUNK HIGHWAY 14 MILEPOINT 17.25, 203.7 FEET SOUTHEAST OF A FIELD ENTRANCE, 74.8 FEET NORTHEAST OF TRUNK HIGHWAY 14, 11.2 FEET BELOW THE LEVEL OF THE HIGHWAY, 2.6 FEET NORTHWEST OF AN UNDERGROUND CABLE JUNCTION BOX, 1.3 FEET SOUTHEAST OF A WITNESS POST.

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	1710.600	0.016	521.392	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.961 12B = -86.004 09 = -85.899 03 = -85.787

Geodetic Position and Lincoln County Coordinates

<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)	44 15 56.65212	96 06 53.90595	539741.498	125218.784	164513.538	38166.762	495.202			2016	GPS3151	
NAD83 (1996)	44 15 56.65112	96 06 53.90616	539741.483	125218.683	164513.533	38166.731	495.249	C		2016	HTYLR	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/Z_389-AB8785-3NE-17JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/Z_389-AB8785-3NE-17JUN2015.jpg</a>	NE	Jun 17, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/Z_389-AB8785-2-17JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/Z_389-AB8785-2-17JUN2015.jpg</a>		Jun 17, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/Z_389-AB8785-1-17JUN2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/lincoln/Z_389-AB8785-1-17JUN2015.jpg</a>		Jun 17, 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\\_40038.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40038.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_40038.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40038.pdf)