



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

Mn/DOT Name: 10 SEM

NGS Name: 10 SEM

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR1161](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096233/  
 USGS Quad: ELKTON 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	8	106 N	46 W	440031.96	962319.46	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1966	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)	SURVEY DISK	USGS

**Description:** (1966)                      **Stamping:** 1631 10 SEM 1966

3.5 MILES WEST OF PIPESTONE, 2.9 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND COUNTY ROAD 15 IN PIPESTONE, THEN 1.0 MILE NORTH ALONG 40TH AVENUE, 215.0 FEET WEST OF 40TH AVENUE, 51.0 FEET SOUTH OF COUNTY ROAD 5(111TH STREET), 2.0 FEET NORTH AND 5.0 FEET EAST OF A CUT OFF POWER POLE, 3.0 FEET NORTH OF A FENCE, 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	1631.529	0.016	497.291	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.574 12B = -85.567 09 = -85.466 03 = -85.312

\* 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/pipestone/10_SEM-PR1161-3S-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/10_SEM-PR1161-3S-13JUN2012.jpg</a>	S	Jun 13, 2012
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/10_SEM-PR1161-2-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/10_SEM-PR1161-2-13JUN2012.jpg</a>		Jun 13, 2012
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/10_SEM-PR1161-1-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/10_SEM-PR1161-1-13JUN2012.jpg</a>		Jun 13, 2012

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

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

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

Mn/DOT Name: 11 SEM

NGS Name: 11 SEM

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [AI1729](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<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	27	105 N	45 W	435239.00	961338.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1966	1996	GOOD	Horz=YES Vert=YES	NO			MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

**Description:** (1996)                      **Stamping:** 11 SEM 1966 1693

4.4 MILES WEST OF EDGERTON, 4.6 MILES WEST ALONG TRUNK HIGHWAY 268 FROM THE JUNCTION OF TRUNK HIGHWAY 268 AND 4TH AVENUE IN EDGERTON, AT TRUNK HIGHWAY 268 MILEPOINT 1.85, AT THE CREST OF A HILL, 48.9 FEET SOUTH OF TRUNK HIGHWAY 268, 33.0 FEET WEST OF A FIELD ENTRANCE, 710.0 FEET WEST OF THE JUNCTION OF TRUNK HIGHWAY 268 AND COUNTY ROAD 60, 1.3 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	1693.337	0.016	516.130	0.005	2/1	2000	00000361
NGVD29	1692.500	0.016	515.875	0.005	2/1	1996	VEDGE

Geoid Separations(ft): GEOID18 = -86.096    12B = -86.069    09 = -85.958    03 = -85.794

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: 12 SEM

NGS Name: 12 SEM

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<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	105 N	44 W	435240.00	961001.00		

<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	1987	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:** (1987)                      **Stamping:** 12 SEM 1966 1641

2.0 MILES WEST OF EDGERTON, 1.9 MILES WEST FROM THE JUNCTION OF TRUNK HIGHWAY 268 AND COUNTY ROAD 1 IN EDGERTON, THEN 1.9 MILES WEST ALONG TRUNK HIGHWAY 268.

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

Geoid Separations(ft): GEOID18 = -86.135    12B = -86.115    09 = -85.997    03 = -85.846

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: 13 SEM

NGS Name: 13 SEM

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096112/  
 USGS Quad: KENNETH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	25	105 N	44 W	435215.00	960408.00		

<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=? Vert=YES	NO			SEE DESCRIPTION

  

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

**Description:** (1966)

**Stamping:** 13 SEM 1966 1656

3.1 MILES EAST OF EDGERTON, 0.95 MILE EAST ALONG TRUNK HIGHWAY 268 FROM THE JUNCTION OF TRUNK HIGHWAY 268 AND 4TH AVENUE IN EDGERTON, THEN 0.4 MILE SOUTH ON COUNTY ROAD 2 (175TH AVENUE), THEN 2.2 MILES EAST ON COUNTY ROAD 1, 51.0 FEET NORTH OF COUNTY ROAD 1, 4.0 FEET NORTH AND 3.0 FEET WEST OF A FENCE CORNER, 4.0 FEET NORTH AND 1.0 FOOT EAST OF A TELEPHONE POLE.

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

Geoid Separations(ft): GEOID18 = -86.194 12B = -86.181 09 = -86.053 03 = -85.945

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: 23 DWB

NGS Name: 23 DWB

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096222/  
 USGS Quad: WOODSTOCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	108 N	44 W	440728.00	960358.00		

<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)	SURVEY DISK	USGS

**Description:** (1965)                      **Stamping:** 23 DWB 1965

3.8 MILES SOUTHEAST OF RUTHTON, 1.5 MILES SOUTH ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 15, THEN 1.2 MILES SOUTH ON COUNTY ROAD 18, THEN 1.9 MILES EAST ON 191ST STREET, 725.0 FEET WEST AND 40.0 FEET NORTH OF THE CROSSROADS, NEAR THE CREST IN A ROAD, 2.0 FEET SOUTH OF A FENCE LINE.

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

Geoid Separations(ft): GEOID18 = -85.935    12B = -85.935    09 = -85.856    03 = -85.735

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: 24 DWB

NGS Name: 24 DWB

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<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	108 N	44 W	440636.11	960916.10		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1965	2001	GOOD	Horz=NO Vert=NO	NO		FLUSH	STEEL SPIKE ADJ TO MON

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

**Description:** (2001)                      **Stamping:** 24 DWB 1965

2.0 MILES NORTHEAST OF HOLLAND, 1.2 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 8, 70.0 FEET WEST OF TRUNK HIGHWAY 23, 42.0 FEET EAST OF A RAILROAD, 67.0 FEET NORTH OF AN EAST-WEST GRAVEL ROAD (COUNTY ROAD 81), 6.0 FEET NORTHWEST OF A TELEPHONE POLE NUMBER 30.

**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 = -85.558    12B = -85.561    09 = -85.469    03 = -85.341

\* No Horizontal Positions in the Database \*

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

Mn/DOT Name: 25 DWB

NGS Name: 25 DWB

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DH3129](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<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	36	108 N	45 W	440636.32	961208.27		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>
1965	2014	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 4 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	SURVEY DISK	USGS

**Description:** (2004)                      **Stamping:** 25 DWB 1965

2.0 MILES NORTHWEST OF HOLLAND, 1.45 MILES NORTH ALONG COUNTY ROAD 16 (140TH AVENUE) FROM THE JUNCTION OF COUNTY ROAD 16 AND TRUNK HIGHWAY 23 IN HOLLAND, THEN 0.85 MILE WEST ALONG COUNTY ROAD 81 (181ST STREET), NORTHWEST OF A FARM BUILDING, 31.8 FEET NORTH OF COUNTY ROAD 81 (181ST STREET), 600.0 FEET EAST OF 130TH AVENUE, 2.2 FEET SOUTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.400 12B = -85.407 09 = -85.312 03 = -85.193

Geodetic Position and Pipestone 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 06 36.31808	96 12 08.27379	512530.179	195127.671	156219.511	59475.033	517.939		2012	GPS2800
NAD83 (2007)	44 06 36.31802	96 12 08.27473	512530.110	195127.665	156219.490	59475.031	517.968		2007	GPS2300
NAD83 (1996)	44 06 36.31778	96 12 08.27399	512530.165	195127.641	156219.507	59475.024	518.013	C	2005	GPS2097

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/pipestone/25_DWB-DH3129-3N-23JUN2004.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/25_DWB-DH3129-3N-23JUN2004.jpg</a>	N	Jun 23, 2004
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/25_DWB-DH3129-2-23JUN2004.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/25_DWB-DH3129-2-23JUN2004.jpg</a>		Jun 23, 2004
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/25_DWB-DH3129-1-23JUN2004.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/25_DWB-DH3129-1-23JUN2004.jpg</a>		Jun 23, 2004

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

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

Mn/DOT Name: 26 DWB

NGS Name: 26 DWB

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: NGS Quad / Sta Num : 44096232/ USGS Quad: PIPESTONE NORTH	<a href="#">Get Map</a>
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<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	107 N	45 W	440637.00	961603.00		

<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)	SURVEY DISK	USGS

**Description:** (1965)                      **Stamping:** 26 DWB 1965

4.2 MILES WEST-NORTHWEST OF HOLLAND, 1.45 MILES NORTH ALONG COUNTY ROAD 16 FROM THE JUNCTION OF COUNTY ROAD 16 (140TH AVENUE) AND TRUNK HIGHWAY 23 IN HOLLAND, THEN 4.1 MILES WEST ON COUNTY ROAD 81 (181ST STREET), 730.0 FEET WEST AND 35.0 FEET SOUTH OF THE CROSSROADS, 48.0 FEET WEST OF A POWER POLE, 2.0 FEET NORTH OF AN EAST-WEST FENCE LINE.

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

Geoid Separations(ft): GEOID18 = -85.236    12B = -85.239    09 = -85.151    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:

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

Mn/DOT Name: 27 DWB

NGS Name: 27 DWB

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DH3130](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	36	108 N	46 W	440637.68	961934.56	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1965	2019	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (2005)                      **Stamping:** 27 DWB 1965

8.0 MILES NORTH OF PIPESTONE, 7.5 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, TO TRUNK HIGHWAY 75 MILEPOINT 44.0, THEN 0.95 MILE WEST ALONG COUNTY ROAD 8 (181ST STREET), 410.0 FEET EAST OF 70TH AVENUE, 51.0 FEET NORTH OF COUNTY ROAD 8 (181ST STREET), 0.9 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	1728. 418 0. 016	526. 823 0. 005	2/1	2013 00000797

Geoid Separations(ft): GEOID18 = -85.157    12B = -85.164    09 = -85.085    03 = -84.960

Geodetic Position and Pipestone 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 06 37. 67895	96 19 34. 55892	479966. 656	195271. 129	146294. 129	59518. 759	500. 872			2012	GPS2800	
NAD83 (2007)	44 06 37. 67889	96 19 34. 55988	479966. 586	195271. 123	146294. 108	59518. 757	500. 903			2007	GPS2300	
NAD83 (1996)	44 06 37. 67845	96 19 34. 55916	479966. 638	195271. 079	146294. 124	59518. 744	500. 937	C		2011	HTH75	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/27_DWB-DH3130-3N-22OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/27_DWB-DH3130-3N-22OCT2019.jpg</a>	N	Oct 22, 2019
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/27_DWB-DH3130-2-22OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/27_DWB-DH3130-2-22OCT2019.jpg</a>		Oct 22, 2019
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/27_DWB-DH3130-1-22OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/27_DWB-DH3130-1-22OCT2019.jpg</a>		Oct 22, 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\\_23570.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23570.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23570.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23570.pdf)



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

Mn/DOT Name: 28 DWB

NGS Name: 28 DWB

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096233/  
 USGS Quad: ELKTON 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	108 N	46 W	440639.00	962301.00		

<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	1987	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

  

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

**Description:** (1987)                      **Stamping:** 28 DWB 1965

8.2 MILES NORTH OF PIPESTONE, 9.8 MILES NORTH AND WEST ALONG COUNTY ROAD 15 FROM THE JUNCTION OF COUNTY ROAD 15 (8TH AVENUE) AND TRUNK HIGHWAY 30 IN PIPESTONE, THEN 0.8 MILE WEST ON COUNTY ROAD 8 (181ST STREET), AT THE CREST OF A HILL, 400.0 FEET WEST OF A FARM TEE-DRIVE SOUTH, 48.0 FEET NORTH OF COUNTY ROAD 8, 15.0 FEET WEST OF A FIELD ENTRANCE NORTH, 3.0 FEET SOUTH OF A FENCE POST, AT THE TOP OF A DITCH.

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

Geoid Separations(ft): GEOID18 = -85.144    12B = -85.154    09 = -85.075    03 = -84.937

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23571.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23571.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23571.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23571.pdf)



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

Mn/DOT Name: 29 DWB

NGS Name: 29 DWB

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DH3131](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096233/  
 USGS Quad: ELKTON 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	1	107 N	47 W	440639.60	962648.56		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	2019	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

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

**Description:** (2004)                      **Stamping:** 29 DWB 1965

10.0 MILES NORTHWEST OF PIPESTONE, 0.25 MILE EAST OF THE STATE LINE, 7.4 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE TO TRUNK HIGHWAY 75 MILEPOINT 44.0, THEN 6.9 MILES WEST ON COUNTY ROAD 8, 384.0 FEET EAST OF 10TH AVENUE, 36.0 FEET SOUTH OF COUNTY ROAD 8 (181ST STREET), 135.3 FEET WEST OF THE NORTH POLE (NUMBER 159) OF THREE, 1.0 FOOT NORTH OF A FENCE LINE, 1.0 FOOT NORTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.138    12B = -85.157    09 = -85.065    03 = -84.915

Geodetic Position and Pipestone 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 06 39.60059	96 26 48.56351	448299.776	195518.177	136642.045	59594.059	492.429		2012	GPS2800
NAD83 (2007)	44 06 39.60052	96 26 48.56449	448299.705	195518.170	136642.023	59594.057	492.461		2007	GPS2300
NAD83 (1996)	44 06 39.59997	96 26 48.56390	448299.747	195518.114	136642.036	59594.040	492.491	C	2005	GPS2097

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/pipestone/29_DWB-DH3131-3S-22OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/29_DWB-DH3131-3S-22OCT2019.jpg</a>	S	Oct 22, 2019
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/29_DWB-DH3131-2-22OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/29_DWB-DH3131-2-22OCT2019.jpg</a>		Oct 22, 2019
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/29_DWB-DH3131-1-22OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/29_DWB-DH3131-1-22OCT2019.jpg</a>		Oct 22, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23572.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23572.pdf)



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

Mn/DOT Name: 32 DWB

NGS Name: 32 DWB

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<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	106 N	45 W	435939.00	961313.00		

<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	1999	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

**Description:** (1965)                      **Stamping:** 32 DWB 1965 1746

4.5 MILES EAST OF PIPESTONE, 3.9 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, 72.0 FEET NORTH OF TRUNK HIGHWAY 30, 1125.0 FEET EAST OF THE CROSSROADS, 26.0 FEET WEST OF A FIELD ENTRANCE NORTH, 37.0 FEET EAST OF A POWER POLE NUMBER 106B, 2.0 FEET SOUTH OF A FENCE LINE.

**Station Notes**

THE DISTRICT REPORTED THE MARK WAS DESTROYED DUE TO CONSTRUCTION.

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

Geoid Separations(ft): GEOID18 = -85.669    12B = -85.646    09 = -85.558    03 = -85.397

\* No Horizontal Positions in the Database \*

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23573.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23573.pdf)



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

Mn/DOT Name: 33 DWB

NGS Name: 33 DWB

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<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	106 N	44 W	435938.00	960948.00		

<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	1999	DESTROYED	Horz=NO Vert=NO	NO	6491	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE WING WALL	SEE DESCRIPTION	USGS

**Description:** (1987)                      **Stamping:** 33 DWB 1965 1663

3.1 MILES WEST-SOUTHWEST OF WOODSTOCK, 1.0 MILE SOUTH ALONG COUNTY ROAD 18 FROM THE JUNCTION OF COUNTY ROAD 18 AND COUNTY ROAD 67, THEN 2.9 MILES WEST ON TRUNK HIGHWAY 30/101, IN THE NORTHWEST WING WALL OF TRUNK HIGHWAY 30 BRIDGE NUMBER 6491 OVER THE EAST BRANCH OF THE ROCK RIVER, 16.8 FEET NORTH OF THE CENTER OF THE BRIDGE.

**Station Notes**

THE DISTRICT REPORTED THE MARK WAS DESTROYED DUE TO CONSTRUCTION.

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

Geoid Separations(ft): GEOID18 = -85.731    12B = -85.708    09 = -85.604    03 = -85.459

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: 34 DWB

NGS Name: 34 DWB

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096111/  
 USGS Quad: EDGERTON 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	11	106 N	44 W	435938.00	960613.00		

<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	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)	SURVEY DISK	USGS

**Description:** (1965)                      **Stamping:** 34 DWB 1965

1.0 MILE SOUTH OF WOODSTOCK, 1.0 MILE SOUTH ALONG COUNTY ROAD 18 FROM THE JUNCTION OF COUNTY ROAD 18 AND COUNTY ROAD 67, THEN 148.0 FEET EAST ON TRUNK HIGHWAY 101/30, AT THE JUNCTION OF TRUNK HIGHWAY 30 AND COUNTY ROAD 18, OPPOSITE A MASONRY GATE TO A CEMETERY, 124.0 FEET NORTH OF TRUNK HIGHWAY 30, 78.0 FEET EAST OF COUNTY ROAD 18, 35.0 FEET SOUTHEAST OF A POWER POLE, 2.0 FEET SOUTHWEST OF A FENCE.

**Station Notes**

SEE 34 DWB RESET.

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

Geoid Separations(ft): GEOID18 = -85.748    12B = -85.728    09 = -85.623    03 = -85.502

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: 34 DWB RESET

NGS Name: 34 DWB RESET

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DH3132](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096111/  
 USGS Quad: EDGERTON NE

1/4	Sec	Twp	Rng	Reference	Reference	Vert	Horz
SW	11	106 N	44 W	Latitude	Longitude	Order	Order
				435938.50	960613.99	2	C

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

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

**Description:** (2004)                      **Stamping:** 34 DWB RESET 1965 1976

1.0 MILE SOUTH OF WOODSTOCK, 1.0 MILE SOUTH ALONG 180TH AVENUE (COUNTY ROAD 18) FROM THE JUNCTION OF COUNTY ROAD 18 AND COUNTY ROAD 67 (1ST STREET) IN WOODSTOCK, 138.7 FEET NORTH OF TRUNK HIGHWAY 30, 81.7 FEET EAST OF 180TH AVENUE, 19.1 FEET SOUTHEAST OF A FENCE CORNER, 8.3 FEET NORTH-NORTHWEST OF THE LINCOLN PIPESTONE RURAL WATER SYSTEM, 2.0 FEET SOUTHWEST OF A FENCE LINE, 1.0 FEET 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	1787.815	0.016	544.927	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.748    12B = -85.728    09 = -85.623    03 = -85.502

Geodetic Position and Pipestone 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)	43 59 38.50191	96 06 13.98944		538455.861	152845.677	164121.675	46587.455	518.780			2012	GPS2800
NAD83 (2007)	43 59 38.50189	96 06 13.99038		538455.793	152845.674	164121.654	46587.455	518.811			2007	GPS2300
NAD83 (1996)	43 59 38.50170	96 06 13.98962		538455.848	152845.655	164121.671	46587.449	518.848	C		2005	GPS2097

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/34_DWB_RESET-DH3132-3N-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/34_DWB_RESET-DH3132-3N-28APR2015.jpg</a>	N	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/34_DWB_RESET-DH3132-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/34_DWB_RESET-DH3132-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/34_DWB_RESET-DH3132-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/34_DWB_RESET-DH3132-1-28APR2015.jpg</a>		Apr 28, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23575.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23575.pdf)



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

Mn/DOT Name: 5901 A

NGS Name: 5901 A

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DG7448](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096143/  
 USGS Quad: JASPER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	105 N	46 W	435150.73	962336.03	2	

<u>Year Set</u>	<u>Last Recovery</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	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:** (2001)                      **Stamping:** 5901 A 1992

0.52 MILE NORTHEAST OF JASPER, 1.0 MILE NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 1 IN JASPER, IN THE SOUTHEAST CORNER OF THE EAST HEADWALL OF A TRUNK HIGHWAY 23 BOX CULVERT, 154.0 FEET NORTHEAST OF A FIELD ENTRANCE, 40.0 FEET EAST OF TRUNK HIGHWAY 23, AT TRUNK HIGHWAY 23 MILEPOINT 19.7, 4.5 FEET NORTH-NORTHEAST OF A WITNESS POST. STATION 5901 A WAS SET IN 1965 BUT STAMPED IN 1992 WHEN USED.

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	1560.961	0.016	475.782	0.005	2/1	2014	00000810
NGVD29	1560.128	0.016	475.528	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -86.060 12B = -86.050 09 = -85.945 03 = -85.787

\* 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/pipestone/5901_A-DG7448-3E-21DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_A-DG7448-3E-21DEC2010.jpg</a>	E	Dec 21, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_A-DG7448-2-21DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_A-DG7448-2-21DEC2010.jpg</a>		Dec 21, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_A-DG7448-1-21DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_A-DG7448-1-21DEC2010.jpg</a>		Dec 21, 2010

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23576.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23576.pdf)





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

Mn/DOT Name: 5901 B

NGS Name: 5901 B

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DE7112](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096143/  
 USGS Quad: JASPER

<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	105 N	46 W	435209.66	962326.04	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2011	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

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

**Description:** (2004)                      **Stamping:** 5901 B 1992

0.91 MILE NORTHEAST OF JASPER, 1.4 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 1 IN JASPER, AT TRUNK HIGHWAY 23 MILEPOINT 20.1, 580.0 FEET SOUTH OF A FIELD ENTRANCE, ON LINE WITH A POWER POLES ON THE EAST SIDE OF TRUNK HIGHWAY 23, 100.0 FEET EAST OF TRUNK HIGHWAY 23, 20.5 FEET SOUTH-SOUTHEAST OF A POWER POLE, 0.5 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	1581.926	0.016	482.172	0.005	2/1	2014	00000810
NGVD29	1581.093	0.016	481.918	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -86.046    12B = -86.037    09 = -85.932    03 = -85.771

Geodetic Position and Pipestone 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)	43 52 09.66406	96 23 26.04294	462926.454	107390.101	141100.265	32732.568	455.961			2014	GPS3047	
NAD83 (2007)	43 52 09.66398	96 23 26.04385	462926.387	107390.093	141100.245	32732.566	455.990			2007	GPS2300	
NAD83 (1996)	43 52 09.66334	96 23 26.04336	462926.423	107390.028	141100.256	32732.546	456.027	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/pipestone/5901_B-DE7112-3E-21DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_B-DE7112-3E-21DEC2010.jpg</a>	E	Dec 21, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_B-DE7112-2-15NOV2005.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_B-DE7112-2-15NOV2005.jpg</a>		Nov 15, 2005
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_B-DE7112-1-21DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_B-DE7112-1-21DEC2010.jpg</a>		Dec 21, 2010

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23577.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23577.pdf)



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

Mn/DOT Name: 5901 C

NGS Name: 5901 C

County: PIPESTONE, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	29	105 N	46 W	435234.80	962325.62	2	

NGS ACRN: <a href="#">DG7447</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 43096144/	
USGS Quad: JASPER NW	

<u>Year Set</u>	<u>Last Recovery</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	GOOD	Horz=NO Vert=YES	YES	2154	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:** (2001)                      **Stamping:** 5901 C 1992

1.39 MILES NORTHEAST OF JASPER, 1.9 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 1 IN JASPER, AT TRUNK HIGHWAY 23 MILEPOINT 20.6, 647.0 FEET SOUTH OF 21ST STREET, IN THE SOUTHEAST CORNER OF THE EAST HEADWALL OF TRUNK HIGHWAY 23 BOX CULVERT 2154, 30.0 FEET EAST OF TRUNK HIGHWAY 23.

**Station Notes**

THE MARK WAS SET IN 1965 BUT STAMPED IN 1992 WHEN USED.

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	1578.324	0.016	481.074	0.005	2/1	2014	00000810
NGVD29	1577.490	0.016	480.820	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -86.027    12B = -86.014    09 = -85.912    03 = -85.751

\* 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/pipestone/5901_C-DG7447-3W-21DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_C-DG7447-3W-21DEC2010.jpg</a>	W	Dec 21, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_C-DG7447-2-21DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_C-DG7447-2-21DEC2010.jpg</a>		Dec 21, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_C-DG7447-1-21DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_C-DG7447-1-21DEC2010.jpg</a>		Dec 21, 2010

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23578.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23578.pdf)



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

Mn/DOT Name: 5901 D

NGS Name: 5901 D

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096144/  
 USGS Quad: JASPER NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	21	105 N	46 W	435312.00	962312.00		

<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	1992	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

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

**Description:** (1992)                      **Stamping:** 5901 D

2.16 MILES NORTHEAST OF JASPER, 2.6 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 1 IN JASPER, AT TRUNK HIGHWAY 23 MILEPOINT 21.3, 110.0 FEET NORTHEAST OF A TOWNSHIP ROAD, 2.0 FEET WEST OF A FENCE, 74.0 FEET EAST OF TRUNK HIGHWAY 23, 0.5 FOOT WEST OF A WITNESS POST, THE MONUMENT WAS FOUND WITH THE DISK MISSING IN 1992.

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

Geoid Separations(ft): GEOID18 = -85.997    12B = -85.984    09 = -85.886    03 = -85.718

\* No Horizontal Positions in the Database \*

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23579.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23579.pdf)



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

Mn/DOT Name: 5901 E

NGS Name: 5901 E

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DG7445](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096144/  
 USGS Quad: JASPER NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	21	105 N	46 W	435319.80	962307.67	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1965	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:** (2001)                      **Stamping:** 5901 E 1992

2.32 MILES NORTHEAST OF JASPER, 2.8 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 1 IN JASPER, AT TRUNK HIGHWAY 23 MILEPOINT 21.5, 925.0 FEET NORTHEAST OF A TOWNSHIP ROAD, IN THE SOUTHEAST CORNER OF THE EAST HEADWALL OF TRUNK HIGHWAY 23 BOX CULVERT, 30.0 FEET EAST-SOUTHEAST OF A TRUNK HIGHWAY 23. STATION 5901 E WAS SET IN 1965 BUT STAMPED IN 1992 WHEN USED.

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	1611.421	0.016	491.162	0.005	2/1	2014	00000810
NGVD29	1610.587	0.016	490.908	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.991 12B = -85.978 09 = -85.879 03 = -85.712

\* 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/pipestone/5901_E-DG7445-3E-22DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_E-DG7445-3E-22DEC2010.jpg</a>	E	Dec 22, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_E-DG7445-2-22DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_E-DG7445-2-22DEC2010.jpg</a>		Dec 22, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_E-DG7445-1-22DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_E-DG7445-1-22DEC2010.jpg</a>		Dec 22, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23580.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23580.pdf)



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

Mn/DOT Name: 5901 F

NGS Name: 5901 F

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DE7113](#) [Get Map](#)  
NGS Quad / Sta Num : 43096144/  
USGS Quad: JASPER 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	16	105 N	46 W	435350.99	962241.33	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	2019	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	STEEL SPIKE ADJ TO MON

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

**Description:** (2001) **Stamping:** 5901 F 1992

0.81 MILE SOUTHWEST OF IHLEN, 0.8 MILE SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 2 IN IHLEN, AT TRUNK HIGHWAY 23 MILEPOINT 22.2, 75.0 FEET EAST-SOUTHEAST OF TRUNK HIGHWAY 23, 7.0 FEET SOUTH-SOUTHEAST OF A POWER POLE, 1.7 FEET WEST-SOUTHWEST OF A FENCE LINE, 0.5 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	1633.294	0.016	497.829	0.005	2/1	2014	00000810
NGVD29	1632.461	0.016	497.575	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.968 12B = -85.951 09 = -85.853 03 = -85.689

Geodetic Position and Pipestone 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)	43 53 50.98994	96 22 41.33069	466218.092	117645.791	142103.559	35858.509	471.634			2014	GPS3047	
NAD83 (2007)	43 53 50.98988	96 22 41.33162	466218.024	117645.785	142103.538	35858.507	471.663			2007	GPS2300	
NAD83 (1996)	43 53 50.98905	96 22 41.33091	466218.075	117645.701	142103.554	35858.481	471.703	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/pipestone/5901_F-DE7113-3E-22JUN2004.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_F-DE7113-3E-22JUN2004.jpg</a>	E	Jun 22, 2004
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_F-DE7113-2-22OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_F-DE7113-2-22OCT2019.jpg</a>		Oct 22, 2019
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_F-DE7113-1-22OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_F-DE7113-1-22OCT2019.jpg</a>		Oct 22, 2019

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23581.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23581.pdf)



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

Mn/DOT Name: 5901 G

NGS Name: 5901 G

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: <a href="#">DE7114</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 43096141/	
USGS Quad: PIPESTONE SOUTH	

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	9	105 N	46 W	435428.23	962213.68	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1965	2010	GOOD	Horz=NO Vert=YES	YES		PROJECTS 5 IN.	STEEL SPIKE ADJ TO MON

Monument Type	Disk Type	Mon. Agency
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

**Description:** (2001)                      **Stamping:** 5901 G 1992

IN IHLEN, 283.0 FEET NORTHEAST ON TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 2 (THE JUNCTION IS WEST OF THE GLASS HOUSE STEAK HOUSE), AT TRUNK HIGHWAY 23 MILEPOINT 23.05, 60.0 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 0.5 FOOT WEST OF A WITNESS POST.

**Station Notes**

THE MARK WAS SET IN 1965 BUT STAMPED IN 1992 WHEN USED.

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

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1648.658	0.016	502.512	0.005	2/1	2014	00000810
NGVD29	1647.828	0.016	502.259	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.941    12B = -85.922    09 = -85.823    03 = -85.656

**Geodetic Position and Pipestone 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)	43 54 28.23481	96 22 13.68316	468248.149	121414.448	142722.321	37007.198	476.324		2012	GPS2800		
NAD83 (2007)	43 54 28.23475	96 22 13.68408	468248.082	121414.442	142722.301	37007.196	476.354		2007	GPS2300		
NAD83 (1996)	43 54 28.23403	96 22 13.68335	468248.135	121414.369	142722.317	37007.174	476.394	C	2002	GPS1720		

**Station Photos**

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_G-DE7114-3N-22DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_G-DE7114-3N-22DEC2010.jpg</a>	N	Dec 22, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_G-DE7114-2-22DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_G-DE7114-2-22DEC2010.jpg</a>		Dec 22, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_G-DE7114-1-22DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_G-DE7114-1-22DEC2010.jpg</a>		Dec 22, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23582.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23582.pdf)



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

Mn/DOT Name: 5901 H

NGS Name: 5901 H

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DG7444](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	105 N	46 W	435517.62	962143.46	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1965	2010	GOOD	Horz=NO Vert=YES	YES	5566	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:** (2001)                      **Stamping:** 5901 H 1992

1.1 MILES NORTHEAST OF IHLEN, 1.1 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 2 IN IHLEN, AT TRUNK HIGHWAY 23 MILEPOINT 24.1, 240.0 FEET NORTHEAST OF TOWNSHIP ROAD/51ST STREET, IN THE SOUTHEAST CORNER OF THE EAST HEADWALL OF THE SOUTH 1 OF 2 TRUNK HIGHWAY 23 BOX CULVERTS, 30.0 FEET EAST-SOUTHEAST OF TRUNK HIGHWAY 23.

**Station Notes**

THE MARK WAS SET IN 1965 BUT STAMPED IN 1992 WHEN USED.

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	1646.919	0.016	501.982	0.005	2/1	2014	00000810
NGVD29	1646.093	0.016	501.730	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.899 12B = -85.879 09 = -85.777 03 = -85.607

\* 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/pipestone/5901_H-DG7444-3SE-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_H-DG7444-3SE-15DEC2010.jpg</a>	SE	Dec 15, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_H-DG7444-2-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_H-DG7444-2-15DEC2010.jpg</a>		Dec 15, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_H-DG7444-1-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_H-DG7444-1-15DEC2010.jpg</a>		Dec 15, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23583.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23583.pdf)



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

Mn/DOT Name: 5901 I

NGS Name: 5901 I

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DG7443](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	105 N	46 W	435547.98	962124.09	2	

<u>Year Set</u>	<u>Last Recovery</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	GOOD	Horz=NO Vert=YES	YES	5567	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:** (2001)                      **Stamping:** 5901 I 1992

1.67 MILES NORTHEAST OF IHLEN, 1.7 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 2 IN IHLEN, AT TRUNK HIGHWAY 23 MILEPOINT 24.7, 1496.0 FEET SOUTHWEST OF COUNTY ROAD 55, IN THE SOUTHEAST CORNER OF THE EAST HEADWALL OF TRUNK HIGHWAY 23 DOUBLE BOX CULVERT NUMBER 5567, EAST OF A RAILROAD BRIDGE, 30.0 FEET EAST-SOUTHEAST OF TRUNK HIGHWAY 23.

**Station Notes**

THE MARK WAS SET IN 1965 BUT STAMPED IN 1992 WHEN USED.

**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	1653.068	0.016	503.856	0.005	2/1	2014	00000810
NGVD29	1652.241	0.016	503.604	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.873    12B = -85.853    09 = -85.751    03 = -85.581

\* 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/pipestone/5901_I-DG7443-3SE-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_I-DG7443-3SE-15DEC2010.jpg</a>	SE	Dec 15, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_I-DG7443-2-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_I-DG7443-2-15DEC2010.jpg</a>		Dec 15, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_I-DG7443-1-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_I-DG7443-1-15DEC2010.jpg</a>		Dec 15, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23584.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23584.pdf)





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

Mn/DOT Name: 5901 J

NGS Name: 5901 J

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: <a href="#">DE7115</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 43096141/	
USGS Quad: PIPESTONE SOUTH	

1/4	Sec	Twp	Rng	Reference	Reference	Vert	Horz
				Latitude	Longitude	Order	Order
SE	34	106 N	46 W	435614.57	962108.56	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1965	2021	GOOD	Horz=YES Vert=YES	YES		PROJECTS 2 IN.	STEEL ROD IMBED IN MON

Monument Type	Disk Type	Mon. Agency
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2001)                      **Stamping:** 5901 J 1992

2.23 MILES NORTHEAST OF IHLEN, 2.25 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 2 IN IHLEN, AT TRUNK HIGHWAY 23 MILEPOINT 25.25, 73.0 FEET WEST-NORTHWEST OF TRUNK HIGHWAY 23, 48.0 FEET EAST-SOUTHEAST OF THE EAST RAIL OF THE RAILROAD TRACKS, 1.5 FEET SOUTHWEST OF A WITNESS POST. STATION 5901 J WAS SET IN 1965, STAMPED 1992 WHEN USED.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1674.114	0.016	510.271	0.005	2/1	2014	00000810
NGVD29	1673.287	0.016	510.019	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.846    12B = -85.827    09 = -85.725    03 = -85.554

Geodetic Position and Pipestone 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)	43 56 14.56634	96 21 08.56112	473029.387	132176.007	144179.646	40287.328	484.109			2012	GPS2800	
NAD83 (2007)	43 56 14.56629	96 21 08.56206	473029.318	132176.002	144179.625	40287.326	484.138			2007	GPS2300	
NAD83 (1996)	43 56 14.56592	96 21 08.56135	473029.370	132175.964	144179.640	40287.315	484.168	C		2005	GPS2097	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_J-DE7115-3W-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_J-DE7115-3W-04MAY2021.jpg</a>	W	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_J-DE7115-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_J-DE7115-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_J-DE7115-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_J-DE7115-1-04MAY2021.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:

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

Mn/DOT Name: 5901 K

NGS Name: 5901 K

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DE7116](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	106 N	46 W	435702.54	962035.59	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>
1965	2010	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 POST (PREFABRICATED)	BENCH MARK DISK	MNDT

**Description:** (2001)                      **Stamping:** 5901 K 1992

3.3 MILES NORTHEAST OF IHLEN, 3.3 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 2 IN IHLEN, AT TRUNK HIGHWAY 23 MILEPOINT 26.3, 8.5 FEET NORTH-NORTHEAST OF A FIELD ENTRANCE EAST, 73.0 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 2.8 FEET NORTHEAST OF A CABLE MARKER POST, 0.5 FOOT WEST OF A WITNESS POST.

**Station Notes**

THE MARK WAS SET IN 1965 BUT STAMPED IN 1992 WHEN USED.

**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	1670.597	0.016	509.199	0.005	2/1	2014	00000810
NGVD29	1669.757	0.016	508.943	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.800    12B = -85.781    09 = -85.676    03 = -85.508

**Geodetic Position and Pipestone 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)	43 57 02.53758	96 20 35.58664	475447.889	137031.122	144916.806	41767.170	483.044			2012	GPS2800	
NAD83 (2007)	43 57 02.53753	96 20 35.58756	475447.821	137031.117	144916.786	41767.168	483.074			2007	GPS2300	
NAD83 (1996)	43 57 02.53708	96 20 35.58673	475447.882	137031.071	144916.804	41767.154	483.109	C		2002	GPS1720	

**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/pipestone/5901_K-DE7116-3SE-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_K-DE7116-3SE-15DEC2010.jpg</a>	SE	Dec 15, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_K-DE7116-2-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_K-DE7116-2-15DEC2010.jpg</a>		Dec 15, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_K-DE7116-1-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_K-DE7116-1-15DEC2010.jpg</a>		Dec 15, 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:

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

Mn/DOT Name: 5901 L

NGS Name: 5901 L

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: <a href="#">DE7117</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 43096141/	
USGS Quad: PIPESTONE SOUTH	

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	26	106 N	46 W	435753.92	962002.61	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1965	2011	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON

Monument Type	Disk Type	Mon. Agency
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2001)                      **Stamping:** 5901 L 1992

2.32 MILES SOUTHWEST OF PIPESTONE, 2.45 MILES SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 30 IN PIPESTONE, AT TRUNK HIGHWAY 23 MILEPOINT 27.3, 94.0 FEET SOUTH OF COUNTY ROAD 4, 74.0 FEET EAST-SOUTHEAST OF TRUNK HIGHWAY 23, 1.5 FEET WEST OF A FENCE LINE, 0.75 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1699.242	0.016	517.930	0.005	2/1	2014	00000810
NGVD29	1698.425	0.016	517.681	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.745 12B = -85.731 09 = -85.630 03 = -85.456

Geodetic Position and Pipestone 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)	43 57 53.92494	96 20 02.60856	477865.927	142232.463	145653.826	43352.541	491.805			2014	GPS3047	
NAD83 (2007)	43 57 53.92489	96 20 02.60948	477865.860	142232.458	145653.806	43352.540	491.834			2007	GPS2300	
NAD83 (1996)	43 57 53.92446	96 20 02.60866	477865.920	142232.414	145653.824	43352.527	491.871	C		2011	HTH75	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_L-DE7117-3SE-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_L-DE7117-3SE-15DEC2010.jpg</a>	SE	Dec 15, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_L-DE7117-2-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_L-DE7117-2-15DEC2010.jpg</a>		Dec 15, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_L-DE7117-1-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_L-DE7117-1-15DEC2010.jpg</a>		Dec 15, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23587.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23587.pdf)



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

Mn/DOT Name: 5901 M

NGS Name: 5901 M

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DE7118](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	13	106 N	46 W	435848.24	961928.13	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1965	2015	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	STEEL ROD IMBED IN MON

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

**Description:** (2001)                      **Stamping:** 5901 M 1992

1.17 MILES SOUTHWEST OF PIPESTONE, 1.2 MILES SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 30 IN PIPESTONE, AT TRUNK HIGHWAY 23 MILEPOINT 28.5, 192.0 FEET NORTHEAST OF 91ST STREET, 74.0 FEET EAST-SOUTHEAST OF TRUNK HIGHWAY 23, 0.5 FOOT WEST OF A WITNESS POST.

**Station Notes**

THE DATE WAS NOT STAMPED ON THE DISK TILL IT WAS RECOVERED IN 1992.

**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	1725.138	0.016	525.823	0.005	2/1	2017	0000903
NGVD29	1724.327	0.016	525.576	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.689    12B = -85.676    09 = -85.577    03 = -85.403

**Geodetic Position and Pipestone 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)	43 58 48.23706	96 19 28.12940	480392.847	147730.173	146424.033	45028.247	499.710			2012	GPS2800	
NAD83 (2007)	43 58 48.23701	96 19 28.13032	480392.780	147730.168	146424.012	45028.245	499.740			2007	GPS2300	
NAD83 (1996)	43 58 48.23659	96 19 28.12949	480392.840	147730.126	146424.031	45028.232	499.779	C		2002	GPS1720	

**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/pipestone/5901_M-DE7118-3E-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_M-DE7118-3E-28APR2015.jpg</a>	E	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_M-DE7118-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_M-DE7118-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_M-DE7118-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_M-DE7118-1-28APR2015.jpg</a>		Apr 28, 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\\_23588.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23588.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23588.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23588.pdf)



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

Mn/DOT Name: 5901 N

NGS Name: 5901 N

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DE7119](#) [Get Map](#)  
NGS Quad / Sta Num : 43096141/  
USGS Quad: PIPESTONE SOUTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	13	106 N	46 W	435925.82	961903.94	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1965	2015	GOOD	Horz=NO Vert=YES	YES		PROJECTS 2 IN.	STEEL ROD IMBED IN MON

Monument Type	Disk Type	Mon. Agency
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2012)                      **Stamping:** 5901 N 1992

0.37 MILE SOUTHWEST OF PIPESTONE, 0.4 MILE SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 30 IN PIPESTONE, AT TRUNK HIGHWAY 23 MILEPOINT 29.35, 40.0 FEET WEST OF DRIVEWAY NUMBER 970, 74.0 FEET EAST-SOUTHEAST OF TRUNK HIGHWAY 23, 3.0 FEET WEST OF A POWER POLE WITH A GUY WIRE, 0.5 FOOT WEST OF A WITNESS POST. THE DISK WAS DAMAGED BY A MOWER.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1733.061	0.016	528.238	0.005	2/1	2017	00000903
NGVD29	1732.257	0.016	527.993	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.649 12B = -85.640 09 = -85.538 03 = -85.371

Geodetic Position and Pipestone 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)	43 59 25.81713	96 19 03.94129	482164.747	151534.352	146964.109	46187.763	502.157		2014	GPS3047		
NAD83 (2007)	43 59 25.81699	96 19 03.94221	482164.679	151534.338	146964.088	46187.759	502.180		2007	GPS2300		
NAD83 (1996)	43 59 25.81704	96 19 03.94086	482164.778	151534.344	146964.118	46187.760	502.207	C	2011	HTH75		

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_N-DE7119-3E-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_N-DE7119-3E-28APR2015.jpg</a>	E	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_N-DE7119-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_N-DE7119-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_N-DE7119-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_N-DE7119-1-28APR2015.jpg</a>		Apr 28, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23589.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23589.pdf)



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

Mn/DOT Name: 5901 O

NGS Name: 5901 O

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: <a href="#">DE7120</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 43096141/	
USGS Quad: PIPESTONE SOUTH	

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	13	106 N	46 W	435938.09	961843.81	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1965	2015	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON

Monument Type	Disk Type	Mon. Agency
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2001)                      Stamping: 5901 O 1992

IN PIPESTONE, NORTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 30 IN PIPESTONE, AT TRUNK HIGHWAY 23 MILEPOINT 29.7, 78.0 FEET WEST OF TRUNK HIGHWAY 30 TO SOUTH, 25.7 FEET NORTH OF EASTBOUND TRUNK HIGHWAY 30, 20.0 FEET WEST OF THE EAST END OF A MEDIAN ISLAND, 8.0 FEET EAST OF A LIGHT POLE, 9.7 FEET WEST-SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1738.320	0.016	529.841	0.005	2/1	2017	00000903
NGVD29	1737.536	0.016	529.602	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.636    12B = -85.626    09 = -85.525    03 = -85.357

Geodetic Position and Pipestone 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)	43 59 38.08621	96 18 43.81060	483637.496	152775.675	147413.004	46566.119	503.737			2014	GPS3047	
NAD83 (2007)	43 59 38.08616	96 18 43.81152	483637.429	152775.670	147412.983	46566.117	503.766			2007	GPS2300	
NAD83 (1996)	43 59 38.08573	96 18 43.81066	483637.492	152775.626	147413.002	46566.104	503.808	C		2011	HTH75	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_O-DE7120-3S-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_O-DE7120-3S-28APR2015.jpg</a>	S	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_O-DE7120-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_O-DE7120-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_O-DE7120-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_O-DE7120-1-28APR2015.jpg</a>		Apr 28, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23590.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23590.pdf)



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

Mn/DOT Name: 5901 P

NGS Name: 5901 P

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DE7121](#) [Get Map](#)  
NGS Quad / Sta Num : 43096141/  
USGS Quad: PIPESTONE SOUTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	23	106 N	46 W	435828.86	961940.17	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1992	2015	GOOD	Horz=NO Vert=YES	YES		RECESSED 5 IN.	MARKER W/BAR MAGNET

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

Description: (2001)                      Stamping: 5901 P 1992

1.5 MILES SOUTHWEST OF PIPESTONE, 1.6 MILES SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 30 IN PIPESTONE, AT TRUNK HIGHWAY 23 MILEPOINT 28.15, 79.0 FEET EAST-SOUTHEAST OF TRUNK HIGHWAY 23, 59.5 FEET WEST OF COUNTY ROAD 15, 1.5 FEET SOUTHWEST OF A TELEPHONE PEDESTAL, 1.5 FEET NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1714.413	0.016	522.554	0.005	2/1	2017	00000903
NGVD29	1713.589	0.016	522.303	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.708 12B = -85.695 09 = -85.597 03 = -85.423

Geodetic Position and Pipestone 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)	43 58 28.86050	96 19 40.16768	479510.687	145768.740	146155.150	44430.401	496.443			2012	GPS2800	
NAD83 (2007)	43 58 28.86045	96 19 40.16860	479510.620	145768.735	146155.129	44430.399	496.473			2007	GPS2300	
NAD83 (1996)	43 58 28.86003	96 19 40.16777	479510.681	145768.692	146155.148	44430.386	496.513	C		2002	GPS1720	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_P-DE7121-3E-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_P-DE7121-3E-28APR2015.jpg</a>	E	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_P-DE7121-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_P-DE7121-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_P-DE7121-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_P-DE7121-1-28APR2015.jpg</a>		Apr 28, 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\\_23591.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23591.pdf)

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

Mn/DOT Name: 5901 Q

NGS Name: 5901 Q

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: <a href="#">DE7122</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 43096141/	
USGS Quad: PIPESTONE SOUTH	

<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	26	106 N	46 W	435728.58	962018.88	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>
1992	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) (<10 FT) (DEPTH 6 FT)	VERTICAL CONTROL DISK	MNDT

**Description:** (2001)                      **Stamping:** 5901 Q 1992

2.5 MILES SOUTHWEST OF PIPESTONE, 2.9 MILES SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 30 IN PIPESTONE, AT TRUNK HIGHWAY 23 MILEPOINT 26.8, 73.0 FEET EAST-SOUTHEAST OF TRUNK HIGHWAY 23, 20.0 FEET SOUTHWEST OF A FIELD ENTRANCE, 1.5 FEET WEST-NORTHWEST OF A FENCE LINE, 1.4 FEET WEST-NORTHWEST 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	1698.809	0.016	517.798	0.005	2/1	2014	00000810
NGVD29	1697.976	0.016	517.544	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.771 12B = -85.754 09 = -85.653 03 = -85.482

Geodetic Position and Pipestone 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)	43 57 28.58099	96 20 18.87801	476673.155	139667.157	145290.268	42570.635	491.661			2012	GPS2800	
NAD83 (2007)	43 57 28.58094	96 20 18.87893	476673.087	139667.152	145290.248	42570.633	491.690			2007	GPS2300	
NAD83 (1996)	43 57 28.58050	96 20 18.87811	476673.147	139667.107	145290.266	42570.620	491.727	C		2002	GPS1720	

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/pipestone/5901_Q-DE7122-3E-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_Q-DE7122-3E-04MAY2021.jpg</a>	E	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_Q-DE7122-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_Q-DE7122-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_Q-DE7122-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_Q-DE7122-1-04MAY2021.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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23592.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23592.pdf)





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

Mn/DOT Name: 5901 R

NGS Name: 5901 R

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DE7123](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	106 N	46 W	435636.51	962052.32	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2010	DESTROYED	Horz=NO Vert=NO	NO		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 18 FT)	VERTICAL CONTROL DISK	MNDT

**Description:** (2001)                      **Stamping:** 5901 R 1992

3.75 MILES SOUTHWEST OF PIPESTONE, 2.75 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 2 IN IHLEN, AT TRUNK HIGHWAY 23 MILEPOINT 25.75, 70.5 FEET EAST-SOUTHEAST OF TRUNK HIGHWAY 23, 52.0 FEET WEST OF COUNTY ROAD 55, 1.8 FEET NORTH OF A FENCE CORNER, 6.6 FEET WEST OF A RIGHT-OF-WAY POST, 2.4 FEET NORTHEAST OF A WITNESS POST.

**Station Notes**

THE CAP CAME OFF. THE MARK WAS RESET ON 12-15-2010.

**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	1669.150	0.016	508.758	0.005	2/1	2004	00000464
NGVD29	1668.327	0.016	508.507	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.827 12B = -85.804 09 = -85.705 03 = -85.535

**Geodetic Position and Pipestone 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)	43 56 36.50903	96 20 52.32279	474220.315	134396.667	144542.641	40964.186	482.607					2012	GPS2800	
NAD83 (2007)	43 56 36.50898	96 20 52.32371	474220.247	134396.662	144542.621	40964.184	482.637					2007	GPS2300	
NAD83 (1996)	43 56 36.50855	96 20 52.32291	474220.306	134396.618	144542.638	40964.171	482.672	C				2002	GPS1720	

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

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

Mn/DOT Name: 5901 R RESET

NGS Name: 5901 R RESET

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DO8143](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	106 N	46 W	435636.51	962052.32	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2010	2010	GOOD	Horz=NO Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2010)                      **Stamping:** 5901 R RESET 2010

3.75 MILES SOUTHWEST OF PIPESTONE, 2.75 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 2 IN IHLEN, AT TRUNK HIGHWAY 23 MILEPOINT 25.75, 70.5 FEET EAST-SOUTHEAST OF TRUNK HIGHWAY 23, 52.0 FEET WEST OF COUNTY ROAD 55, 1.8 FEET NORTH OF A FENCE CORNER, 6.6 FEET WEST OF A RIGHT-OF-WAY POST, 2.4 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	1669.091	0.016	508.740	0.005	2/1	2014	00000810

Geoid Separations(ft): GEOID18 = -85.827    12B = -85.804    09 = -85.705    03 = -85.535

\* 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/pipestone/5901_R_RESET-DO8143-3SE-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_R_RESET-DO8143-3SE-15DEC2010.jpg</a>	SE	Dec 15, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_R_RESET-DO8143-2-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_R_RESET-DO8143-2-15DEC2010.jpg</a>		Dec 15, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_R_RESET-DO8143-1-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_R_RESET-DO8143-1-15DEC2010.jpg</a>		Dec 15, 2010

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

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

Mn/DOT Name: 5901 S

NGS Name: 5901 S

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DE7124](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	10	105 N	46 W	435444.90	962202.01	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2010	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 30 FT)	VERTICAL CONTROL DISK	MNDT

**Description:** (2001)                      **Stamping:** 5901 S 1992

0.4 MILE NORTH OF IHLEN, 0.4 MILE NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 2 IN IHLEN, AT TRUNK HIGHWAY 23 MILEPOINT 23.4, 123.0 FEET EAST-SOUTHEAST OF TRUNK HIGHWAY 23, 43.0 FEET EAST-NORTHEAST OF COUNTY ROAD 54, 1.8 FEET WEST OF A FENCE CORNER AND A FENCE LINE, 1.0 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	1644.662	0.016	501.294	0.005	2/1	2014	00000810
NGVD29	1643.799	0.016	501.031	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.928    12B = -85.909    09 = -85.807    03 = -85.640

Geodetic Position and Pipestone 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)	43 54 44.89985	96 22 02.01090	469105.125	123100.851	142983.528	37521.214	475.107			2012	GPS2800	
NAD83 (2007)	43 54 44.89979	96 22 02.01185	469105.056	123100.845	142983.507	37521.213	475.136			2007	GPS2300	
NAD83 (1996)	43 54 44.89919	96 22 02.01119	469105.104	123100.784	142983.522	37521.194	475.164	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/pipestone/5901_S-DE7124-3E-22DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_S-DE7124-3E-22DEC2010.jpg</a>	E	Dec 22, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_S-DE7124-2-22DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_S-DE7124-2-22DEC2010.jpg</a>		Dec 22, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_S-DE7124-1-22DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_S-DE7124-1-22DEC2010.jpg</a>		Dec 22, 2010

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23594.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23594.pdf)



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

Mn/DOT Name: 5901 T

NGS Name: 5901 T

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DG7446](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	16	105 N	46 W	435415.28	962223.12	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2010	GOOD	Horz=NO Vert=YES	YES	5679	FLUSH	NO MAG MATERIAL

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

**Description:** (2001)                      **Stamping:** 5901 T 1992

0.5 MILE SOUTH OF IHLEN, 0.25 MILE SOUTH ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 2 IN IHLEN, IN THE SOUTHEAST ABUTMENT IN TRUNK HIGHWAY 23 BRIDGE NUMBER 5679 OVER SPLIT ROCK CREEK, 24.0 FEET EAST OF TRUNK HIGHWAY 23.

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	1639.373	0.016	499.682	0.005	2/1	2014	00000810
NGVD29	1638.543	0.016	499.429	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.951    12B = -85.932    09 = -85.833    03 = -85.666

\* 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/pipestone/5901_T-DG7446-3N-22DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_T-DG7446-3N-22DEC2010.jpg</a>	N	Dec 22, 2010
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_T-DG7446-2-22DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_T-DG7446-2-22DEC2010.jpg</a>		Dec 22, 2010
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_T-DG7446-1-22DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_T-DG7446-1-22DEC2010.jpg</a>		Dec 22, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23595.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23595.pdf)



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

Mn/DOT Name: 5901 U

NGS Name: 5901 U

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DG7449](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096143/  
 USGS Quad: JASPER

<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	105 N	46 W	435124.67	962349.95	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2010	GOOD	Horz=NO Vert=YES	YES	5678	FLUSH	NO MAG MATERIAL

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

**Description:** (2001)                      **Stamping:** 5901 U 1992

0.5 MILE NORTH OF JASPER, 0.55 MILE NORTH FROM THE JUNCTION OF TRUNK HIGHWAY 269 AND TRUNK HIGHWAY 23, AT TRUNK HIGHWAY 23 MILEPOINT 19.2, 25.0 FEET EAST OF TRUNK HIGHWAY 23, IN THE SOUTHEAST CORNER OF THE ABUTMENT OF TRUNK HIGHWAY 23 BRIDGE NUMBER 5678 OVER 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	1553.071	0.016	473.377	0.005	2/1	2014	00000810
NGVD29	1552.238	0.016	473.123	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -86.076    12B = -86.066    09 = -85.964    03 = -85.807

\* 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/pipestone/5901_U-DG7449-3N-20DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_U-DG7449-3N-20DEC2010.jpg</a>	N	Dec 20, 2010
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_U-DG7449-2-20DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_U-DG7449-2-20DEC2010.jpg</a>		Dec 20, 2010
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_U-DG7449-1-20DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5901_U-DG7449-1-20DEC2010.jpg</a>		Dec 20, 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:

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

Mn/DOT Name: 5902 A

NGS Name: 5902 A

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8916](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	106 N	45 W	440011.70	961823.90	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1969	2015	GOOD	Horz=NO Vert=YES	YES	59002	FLUSH	NO MAG MATERIAL

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

**Description:** (2010)                      **Stamping:** 5902 A 1969

IN PIPESTONE, IN THE SOUTHEAST CORNER OF A BRIDGE ABUTMENT OF TRUNK HIGHWAY 23 BRIDGE NUMBER 59002 OVER PIPESTONE CREEK, AT THE NORTH JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 75 IN PIPESTONE, AT TRUNK HIGHWAY 23 MILEPOINT 29.6, 25.0 FEET SOUTHEAST OF TRUNK HIGHWAY 23.

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	1724.852	0.016	525.736	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.600 12B = -85.594 09 = -85.495 03 = -85.328

\* 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/pipestone/5902_A-DN8916-3SW-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_A-DN8916-3SW-15DEC2010.jpg</a>	SW	Dec 15, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_A-DN8916-2-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_A-DN8916-2-15DEC2010.jpg</a>		Dec 15, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_A-DN8916-1-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_A-DN8916-1-15DEC2010.jpg</a>		Dec 15, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93342.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93342.pdf)



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

Mn/DOT Name: 5902 B

NGS Name: 5902 B

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: <a href="#">DP4264</a>	<a href="#">Get Map</a>
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>
NW	2	108 N	44 W	441125.02	960540.65	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>
2014	2014	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:** (2014)                      **Stamping:** 5902 B 2014

1.5 MILES NORTHEAST OF RUTHTON, 1.6 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 19 IN RUTHTON, AT TRUNK HIGHWAY 23 MILEPOINT 48.30, 100.5 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 3.2 FEET NORTHWEST OF A FENCE CORNER POST AT THE SOUTHWEST CORNER OF THE SEWAGE PONDS, 1.5 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	1717.907	0.016	523.619	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.889    12B = -85.915    09 = -85.827    03 = -85.705

Geodetic Position and Pipestone 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 25.02191	96 05 40.64765	540758.602	224400.198	164823.552	68397.317	497.436			2014	GPS3026	
NAD83 (1996)	44 11 25.02154	96 05 40.64803	540758.574	224400.161	164823.543	68397.306	497.513	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/pipestone/5902_B-DP4264-3SE-01MAY2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_B-DP4264-3SE-01MAY2014.jpg</a>	SE	May 1, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_B-DP4264-2-01MAY2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_B-DP4264-2-01MAY2014.jpg</a>		May 1, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_B-DP4264-1-01MAY2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_B-DP4264-1-01MAY2014.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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_101302.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101302.pdf)



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

Mn/DOT Name: 5902 C

NGS Name: 5902 C

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP4265](#) [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>
SW	11	108 N	44 W	441030.17	960552.39	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>
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 29 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2014)                      **Stamping:** 5902 C 2014

IN RUTHTON, AT THE JUNCTION OF TRUNK HIGHWAY 23 AND 226TH STREET (GILBERTSON AVENUE), AT TRUNK HIGHWAY 23 MILEPOINT 47.20, 103.5 FEET WEST-NORTHWEST OF TRUNK HIGHWAY 23, 29.8 FEET SOUTH OF GILBERTSON AVENUE, 11.6 FEET EAST OF AN ENTRANCE, 5.7 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	1717.877	0.016	523.610	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.850 12B = -85.873 09 = -85.781 03 = -85.659

Geodetic Position and Pipestone 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 10 30.16912	96 05 52.38909	539913.282	218843.495	164565.897	66703.631	497.442			2014	GPS3026	
NAD83 (1996)	44 10 30.16874	96 05 52.38951	539913.251	218843.457	164565.888	66703.619	497.522	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/pipestone/5902_C-DP4265-3NW-29APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_C-DP4265-3NW-29APR2014.jpg</a>	NW	Apr 29, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_C-DP4265-2-29APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_C-DP4265-2-29APR2014.jpg</a>		Apr 29, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_C-DP4265-1-30APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_C-DP4265-1-30APR2014.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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_101303.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101303.pdf)





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

Mn/DOT Name: 5902 D

NGS Name: 5902 D

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP5883](#) [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	22	108 N	44 W	440820.90	960641.70	2	

<u>Year Set</u>	<u>Last Recovery</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 4 IN.	BAR MAG IN DRILL HOLE

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

**Description:** (2014)                      **Stamping:** 5902 D 2014

2.0 MILES SOUTH OF RUTHTON, 1.95 MILES SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 18 WEST IN RUTHTON, AT TRUNK HIGHWAY 23 MILEPOINT 44.50, 83.3 FEET SOUTH-SOUTHEAST OF TRUNK HIGHWAY 23, 65.9 FEET EAST-NORTHEAST OF 201ST STREET, 1.5 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	1808.536	0.016	551.243	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.731    12B = -85.741    09 = -85.659    03 = -85.538

\* 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/pipestone/5902_D-DP5883-3SE-29APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_D-DP5883-3SE-29APR2014.jpg</a>	SE	Apr 29, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_D-DP5883-2-29APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_D-DP5883-2-29APR2014.jpg</a>		Apr 29, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_D-DP5883-1-29APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_D-DP5883-1-29APR2014.jpg</a>		Apr 29, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_101304.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101304.pdf)



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

Mn/DOT Name: 5902 E

NGS Name: 5902 E

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP5882](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<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	107 N	45 W	440519.10	961106.00	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>
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 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2014)                      **Stamping:** 5902 E 2014

IN HOLLAND, AT THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 16 IN HOLLAND, AT TRUNK HIGHWAY 23 MILEPOINT 39.20, 48.3 FEET SOUTH-SOUTHEAST OF TRUNK HIGHWAY 23, 101.8 FEET WEST OF COUNTY ROAD 16 (140TH AVENUE), 1.5 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	1773.264	0.016	540.492	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.495    12B = -85.495    09 = -85.400    03 = -85.272

\* 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/pipestone/5902_E-DP5882-3SE-28APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_E-DP5882-3SE-28APR2014.jpg</a>	SE	Apr 28, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_E-DP5882-2-28APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_E-DP5882-2-28APR2014.jpg</a>		Apr 28, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_E-DP5882-1-28APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_E-DP5882-1-28APR2014.jpg</a>		Apr 28, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_101305.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101305.pdf)



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

Mn/DOT Name: 5902 F

NGS Name: 5902 F

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP4266](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<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	12	107 N	45 W	440457.12	961201.90	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>
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 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2014)                      **Stamping:** 5902 F 2014

IN HOLLAND, 0.9 MILE SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 16 IN HOLLAND, AT TRUNK HIGHWAY 23 MILEPOINT 38.30, 75.2 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 1.5 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	1763.327	0.016	537.463	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.466    12B = -85.462    09 = -85.371    03 = -85.243

Geodetic Position and Pipestone 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 04 57.11842	96 12 01.90430	513000.963	185081.866	156363.006	56413.066	511.413			2014	GPS3026	
NAD83 (1996)	44 04 57.11824	96 12 01.90437	513000.958	185081.847	156363.005	56413.060	511.489	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/pipestone/5902_F-DP4266-3SE-28APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_F-DP4266-3SE-28APR2014.jpg</a>	SE	Apr 28, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_F-DP4266-2-28APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_F-DP4266-2-28APR2014.jpg</a>		Apr 28, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_F-DP4266-1-28APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_F-DP4266-1-28APR2014.jpg</a>		Apr 28, 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:

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

Mn/DOT Name: 5902 G

NGS Name: 5902 G

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP5881](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	107 N	45 W	440431.90	961231.60	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
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 29 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2014)                      **Stamping:** 5902 G 2014

1.5 MILES SOUTHWEST OF HOLLAND, 1.55 MILES SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 16 IN HOLLAND, AT TRUNK HIGHWAY 23 MILEPOINT 37.70, 72.3 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 3.1 FEET NORTHWEST OF A RIGHT-OF-WAY POST, 3.1 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	1755.449	0.016	535.062	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.462    12B = -85.456    09 = -85.367    03 = -85.236

\* 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/pipestone/5902_G-DP5881-3SE-28APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_G-DP5881-3SE-28APR2014.jpg</a>	SE	Apr 28, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_G-DP5881-2-28APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_G-DP5881-2-28APR2014.jpg</a>		Apr 28, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_G-DP5881-1-28APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_G-DP5881-1-28APR2014.jpg</a>		Apr 28, 2014

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_101307.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101307.pdf)



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

Mn/DOT Name: 5902 H

NGS Name: 5902 H

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP4267](#) [Get Map](#)  
NGS Quad / Sta Num : 44096232/  
USGS Quad: PIPESTONE NORTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	5	106 N	45 W	440100.43	961638.25	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2014	2014	GOOD	Horz=YES Vert=YES	YES		FLUSH	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: (2014)                      **Stamping:** 5902 H 2014

2.0 MILES NORTHEAST OF PIPESTONE, 1.8 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 75, AT TRUNK HIGHWAY 23 MILEPOINT 32.35, 70.1 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 12.0 FEET SOUTHWEST OF A FIELD ENTRANCE, 4.4 FEET NORTHWEST OF A FENCE LINE, 1.5 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	1746.509	0.016	532.337	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.558    12B = -85.544    09 = -85.456    03 = -85.295

Geodetic Position and Pipestone 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 01 00.43375	96 16 38.24959	492819.859	161109.998	150211.794	49106.426	506.259	2014	GPS3026			
NAD83 (1996)	44 01 00.43333	96 16 38.24965	492819.855	161109.955	150211.792	49106.413	506.334	C	2014	HRUTH		

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_H-DP4267-3SE-28APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_H-DP4267-3SE-28APR2014.jpg</a>	SE	Apr 28, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_H-DP4267-2-28APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_H-DP4267-2-28APR2014.jpg</a>		Apr 28, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_H-DP4267-1-28APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_H-DP4267-1-28APR2014.jpg</a>		Apr 28, 2014

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

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

Mn/DOT Name: 5902 J

NGS Name: 5902 J

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP5880](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	5	106 N	45 W	440043.30	961705.60	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
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 29 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2014)                      **Stamping:** 5902 J 2014

1.5 MILES NORTHEAST OF PIPESTONE, 1.3 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 75 IN PIPESTONE, AT TRUNK HIGHWAY 23 MILEPOINT 31.85, 71.1 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 114.4 FEET EAST OF 90TH AVENUE, 12.4 FEET EAST OF A FIELD ENTRANCE, 1.5 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	1740.439	0.016	530.487	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.571    12B = -85.564    09 = -85.469    03 = -85.308

\* 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/pipestone/5902_J-DP5880-3SE-28APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_J-DP5880-3SE-28APR2014.jpg</a>	SE	Apr 28, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_J-DP5880-2-28APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_J-DP5880-2-28APR2014.jpg</a>		Apr 28, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_J-DP5880-1-28APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5902_J-DP5880-1-28APR2014.jpg</a>		Apr 28, 2014

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_101309.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101309.pdf)



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

Mn/DOT Name: 5903 AA

NGS Name: 5903 AA

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096144/  
 USGS Quad: JASPER 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	18	106 N	46 W	435940.25	962435.88		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2015	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

  

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

**Description:** **Stamping:** 5903 AA 1992

4.3 MILES WEST OF PIPESTONE, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 30 BRIDGE NUMBER 59005 OVER PIPESTONE CREEK, 4.9 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 SOUTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 2.85, 21.3 FEET SOUTH OF TRUNK HIGHWAY 30.

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

Geoid Separations(ft): GEOID18 = -85.604 12B = -85.597 09 = -85.495 03 = -85.344

\* 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/pipestone/5903_AA-3S-29APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_AA-3S-29APR2015.jpg</a>	S	Apr 29, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_AA-2-29APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_AA-2-29APR2015.jpg</a>		Apr 29, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_AA-1-29APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_AA-1-29APR2015.jpg</a>		Apr 29, 2015

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_103480.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103480.pdf)



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

Mn/DOT Name: 5903 B

NGS Name: 5903 B

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DO8147](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096143/  
 USGS Quad: JASPER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	31	105 N	46 W	435058.13	962502.87	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		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 22 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2011)                      **Stamping:** 5903 B 2011

0.8 MILE WEST OF JASPER, 0.9 MILE WEST ALONG TRUNK HIGHWAY 269 FROM THE JUNCTION OF TRUNK HIGHWAY 269 AND TRUNK HIGHWAY 23 IN JASPER, AT TRUNK HIGHWAY 269 MILEPOINT 1.8, 36.6 FEET NORTH OF TRUNK HIGHWAY 269, 11.0 FEET WEST OF A FIELD ENTRANCE, 2.0 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	1578.996	0.016	481.279	0.005	2/1	2014	00000810

Geoid Separations(ft): GEOID18 = -86.066    12B = -86.060    09 = -85.955    03 = -85.823

Geodetic Position and Pipestone 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)	43 50 58.13152	96 25 02.87370	455817.768	100159.453	138933.534	30528.662	455.050		2014	GPS3047						
NAD83 (1996)	43 50 58.13097	96 25 02.87384	455817.758	100159.397	138933.531	30528.645	455.113	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/pipestone/5903_B-DO8147-3N-04JAN2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_B-DO8147-3N-04JAN2011.jpg</a>	N	Jan 4, 2011
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_B-DO8147-2-04JAN2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_B-DO8147-2-04JAN2011.jpg</a>		Jan 4, 2011
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_B-DO8147-1-04JAN2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_B-DO8147-1-04JAN2011.jpg</a>		Jan 4, 2011

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

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

Mn/DOT Name: 5903 D

NGS Name: 5903 D

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP9031](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096143/  
 USGS Quad: JASPER

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	13	106 N	47 W	435940.27	962548.78	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2015	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:** 5903 D 2015

6.0 MILES WEST OF PIPESTONE, 6.0 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 SOUTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 1.85, 72.0 FEET SOUTH OF TRUNK HIGHWAY 30, 15.0 FEET WEST OF A FIELD ENTRANCE, 3.0 FEET NORTH OF A FENCE LINE, 1.5 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	1605.676	0.016	489.411	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.581 12B = -85.571 09 = -85.472 03 = -85.328

Geodetic Position and Pipestone 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)	43 59 40.26716	96 25 48.78203	452568.900	153042.203	137943.277	46647.357	463.319	2015	GPS3109			
NAD83 (1996)	43 59 40.26692	96 25 48.78269	452568.852	153042.179	137943.262	46647.350	463.386	2015	HWLSN			

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_D-DP9031-3S-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_D-DP9031-3S-12MAY2015.jpg</a>	S	May 12, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_D-DP9031-2-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_D-DP9031-2-12MAY2015.jpg</a>		May 12, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_D-DP9031-1-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_D-DP9031-1-12MAY2015.jpg</a>		May 12, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_103454.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103454.pdf)



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

Mn/DOT Name: 5903 E

NGS Name: 5903 E

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP9032](#) [Get Map](#)  
NGS Quad / Sta Num : 43096144/  
USGS Quad: JASPER 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	18	106 N	46 W	435939.88	962441.30	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
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 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2015) **Stamping:** 5903 E 2015

5.05 MILES WEST OF PIPESTONE, 5.05 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 SOUTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 2.75, 69.5 FEET SOUTH OF TRUNK HIGHWAY 30, 12.3 FEET EAST OF A FIELD ENTRANCE, 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	1600.387	0.016	487.799	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.604 12B = -85.594 09 = -85.492 03 = -85.341

Geodetic Position and Pipestone 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)	43 59 39.88472	96 24 41.30332	457502.045	152993.252	139446.902	46632.437	461.695	C	2015	GPS3109				
NAD83 (1996)	43 59 39.88448	96 24 41.30396	457501.998	152993.228	139446.888	46632.429	461.763	C	2015	HWLSN				

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/pipestone/5903_E-DP9032-3S-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_E-DP9032-3S-12MAY2015.jpg</a>	S	May 12, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_E-DP9032-2-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_E-DP9032-2-12MAY2015.jpg</a>		May 12, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_E-DP9032-1-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_E-DP9032-1-12MAY2015.jpg</a>		May 12, 2015

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_103455.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103455.pdf)



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

Mn/DOT Name: 5903 F

NGS Name: 5903 F

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP9033](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	15	106 N	46 W	435939.46	962204.08	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2015	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015)                      Stamping: 5903 F 2015

2.8 MILES WEST OF PIPESTONE, 2.8 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 SOUTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 4.95, 72.1 FEET SOUTH OF TRUNK HIGHWAY 30, 38.1 FEET EAST OF 50TH AVENUE, 6.5 FEET NORTHEAST OF A FENCE CORNER, 1.5 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	1645.249	0.016	501.473	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.636    12B = -85.623    09 = -85.531    03 = -85.367

Geodetic Position and Pipestone 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)	43 59 39.45519	96 22 04.07590	468996.565	152930.288	142950.439	46613.245	475.374	2015	GPS3109			
NAD83 (1996)	43 59 39.45495	96 22 04.07657	468996.515	152930.264	142950.424	46613.238	475.440	2015	HWLSN			

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_F-DP9033-3S-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_F-DP9033-3S-12MAY2015.jpg</a>	S	May 12, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_F-DP9033-2-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_F-DP9033-2-12MAY2015.jpg</a>		May 12, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_F-DP9033-1-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_F-DP9033-1-12MAY2015.jpg</a>		May 12, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_103456.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103456.pdf)



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

Mn/DOT Name: 5903 G

NGS Name: 5903 G

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DQ1132](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	106 N	46 W	435940.20	961930.20	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
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 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2015)                      **Stamping:** 5903 G 2015

IN PIPESTONE, 0.65 MILE WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 SOUTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 7.1, 65.0 FEET NORTH OF THE TRUNK HIGHWAY 30 EDGE OF PAVEMENT, 27.0 FEET EAST OF 6TH AVENUE SOUTHWEST, 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	1704.586	0.016	519.559	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.633    12B = -85.626    09 = -85.528    03 = -85.357

\* 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/pipestone/5903_G-DQ1132-3N-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_G-DQ1132-3N-12MAY2015.jpg</a>	N	May 12, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_G-DQ1132-2-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_G-DQ1132-2-12MAY2015.jpg</a>		May 12, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_G-DQ1132-1-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5903_G-DQ1132-1-12MAY2015.jpg</a>		May 12, 2015

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

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

Mn/DOT Name: 5904 A

NGS Name: 5904 A

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	106 N	45 W	435939.00	961442.00		

<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>
1946	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)	SURVEY DISK	MNDT

**Description:** (1946)

**Stamping:**

3.0 MILES EAST OF PIPESTONE, 2.7 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, 74.0 FEET NORTH OF TRUNK HIGHWAY 30, AT TRUNK HIGHWAY 30 STATION 165+83.

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

Geoid Separations(ft): GEOID18 = -85.649 12B = -85.630 09 = -85.541 03 = -85.377

\* No Horizontal Positions in the Database \*

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23597.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23597.pdf)



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

Mn/DOT Name: 5904 B

NGS Name: 5904 B

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	14	106 N	45 W	435937.00	961328.00		

<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>
1946	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)	SURVEY DISK	MNDT

**Description:** (1946)

**Stamping:**

4.6 MILES EAST OF PIPESTONE, 3.7 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, THEN SOUTH 72.0 FEET OF TRUNK HIGHWAY 30, AT TRUNK HIGHWAY 30 STATION 217+00.

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

Geoid Separations(ft): GEOID18 = -85.669 12B = -85.646 09 = -85.554 03 = -85.394

\* No Horizontal Positions in the Database \*

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23598.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23598.pdf)



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

Mn/DOT Name: 5904 C

NGS Name: 5904 C

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	11	106 N	45 W	435939.00	961217.00		

<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>
1946	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)	SURVEY DISK	MNDT

**Description:** (1946)

**Stamping:**

5.0 MILES EAST OF PIPESTONE, 4.7 MILES EAST ALONG TRUNK HIGHWAY 30.0 FEET EAST FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, 72.0 FEET NORTH OF TRUNK HIGHWAY 30, AT TRUNK HIGHWAY 30 STATION 271+60.

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

Geoid Separations(ft): GEOID18 = -85.686 12B = -85.659 09 = -85.567 03 = -85.413

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: 5904 D

NGS Name: 5904 D

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	106 N	45 W	435937.00	961105.00		

<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>
1946	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)	SURVEY DISK	MNDT

**Description:** (1946)

**Stamping:**

6.0 MILES EAST OF PIPESTONE, 5.7 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, THEN 72.0 FEET SOUTH OF TRUNK HIGHWAY 30, AT TRUNK HIGHWAY 30 STATION 322+75.

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

Geoid Separations(ft): GEOID18 = -85.708 12B = -85.686 09 = -85.587 03 = -85.439

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: 5904 E

NGS Name: 5904 E

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	7	106 N	44 W	435938.00	960956.00		

<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>
1946	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)	SURVEY DISK	MNDT

**Description:** (1946)

**Stamping:**

7.0 MILES EAST OF PIPESTONE, 6.7 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, 73.0 FEET NORTH OF TRUNK HIGHWAY 30, AT TRUNK HIGHWAY 30 STATION 428+67.

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

Geoid Separations(ft): GEOID18 = -85.731 12B = -85.705 09 = -85.604 03 = -85.456

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23601.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23601.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23601.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23601.pdf)



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

Mn/DOT Name: 5904 F

NGS Name: 5904 F

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<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	106 N	44 W	435938.00	960845.00		

<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>
1946	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)	SURVEY DISK	MNDT

**Description:** (1946)

**Stamping:**

8.0 MILES EAST OF PIPESTONE, 7.7 MILES EAST ALONG TRUNK HIGHWAY 30 EAST FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, 73.0 FEET NORTH OF TRUNK HIGHWAY 30, AT TRUNK HIGHWAY 30 STATION 482+50.

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

Geoid Separations(ft): GEOID18 = -85.738 12B = -85.718 09 = -85.613 03 = -85.469

\* No Horizontal Positions in the Database \*

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23602.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23602.pdf)



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

Mn/DOT Name: 5904 G

NGS Name: 5904 G

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096111/  
 USGS Quad: EDGERTON 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	10	106 N	44 W	435938.00	960614.00		

<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>
1946	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)	SURVEY DISK	MNDT

**Description:** (1946)

**Stamping:**

10.0 MILES EAST OF PIPESTONE, 9.8 MILES EAST ALONG TRUNK HIGHWAY 30 EAST FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, 48.0 FEET NORTH OF TRUNK HIGHWAY 30, AT TRUNK HIGHWAY 30 STATION 534+42.

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

Geoid Separations(ft): GEOID18 = -85.748 12B = -85.728 09 = -85.623 03 = -85.502

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23603.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23603.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23603.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23603.pdf)



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

Mn/DOT Name: 5904 H

NGS Name: 5904 H

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096111/  
 USGS Quad: EDGERTON 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	11	106 N	44 W	435938.00	960502.00		

<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>
1985	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)	SURVEY DISK	MNDT

**Description:** (1985)

**Stamping:**

11.0 MILES EAST OF PIPESTONE, 10.7 MILES EAST ALONG TRUNK HIGHWAY 30 EAST FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, 73.0 FEET NORTH OF TRUNK HIGHWAY 30, AT TRUNK HIGHWAY 30 STATION 589+06.

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

Geoid Separations(ft): GEOID18 = -85.758 12B = -85.741 09 = -85.636 03 = -85.518

\* No Horizontal Positions in the Database \*

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23604.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23604.pdf)



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

Mn/DOT Name: 5904 J

NGS Name: 5904 J

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DL7792](#) [Get Map](#)  
NGS Quad / Sta Num : 43096111/  
USGS Quad: EDGERTON 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>
NE	14	106 N	44 W	435936.39	960505.15	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>
2006	2015	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

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

**Description:** (2006) **Stamping:** 5904 J 2006

6.7 MILES WEST OF LAKE WILSON, 6.9 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND SOUTH TRUNK HIGHWAY 91 IN LAKE WILSON, AT TRUNK HIGHWAY 30 MILEPOINT 19.02, 136.4 FEET WEST OF 190TH AVENUE, 63.8 FEET SOUTH OF TRUNK HIGHWAY 30, 3.2 FEET NORTH OF AN EAST/WEST FENCE, 1.7 FEET NORTH OF A WITNESS POST.

**Station Pair:** WOELFEL - PIPESTONE, 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	1793.425	0.016	546.637	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.758 12B = -85.741 09 = -85.636 03 = -85.518

Geodetic Position and Pipestone 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)	43 59 36.38767	96 05 05.15381	543488.756	152641.070	165655.704	46525.091	520.499			2015	GPS3109	
NAD83 (1996)	43 59 36.38741	96 05 05.15442	543488.712	152641.044	165655.691	46525.083	520.563	C		2015	HWLSN	

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/pipestone/5904_J-DL7792-3S-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_J-DL7792-3S-28APR2015.jpg</a>	S	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_J-DL7792-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_J-DL7792-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_J-DL7792-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_J-DL7792-1-28APR2015.jpg</a>		Apr 28, 2015

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63945.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63945.pdf)



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

Mn/DOT Name: 5904 K

NGS Name: 5904 K

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DL7793](#) [Get Map](#)  
NGS Quad / Sta Num : 43096111/  
USGS Quad: EDGERTON 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	10	106 N	44 W	435938.34	960727.55	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	2015	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

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

**Description:** (2006) **Stamping:** 5904 K 2006

1.4 MILES SOUTHWEST OF WOODSTOCK, 1.0 MILE WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND COUNTY ROAD 18, (THE JUNCTION IS 1.0 MILE SOUTH OF WOODSTOCK), AT TRUNK HIGHWAY 30 MILEPOINT 17.1, 81.9 FEET NORTH OF TRUNK HIGHWAY 30, 34.2 FEET EAST OF 170TH AVENUE, 5.8 FEET WEST-NORTHWEST OF AN UNDERGROUND MARKER BOX, 1.6 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	1720.075	0.016	524.280	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.741 12B = -85.722 09 = -85.617 03 = -85.485

Geodetic Position and Pipestone 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)	43 59 38.33720	96 07 27.55083	533077.926	152820.133	162482.477	46579.670	498.146			2015	GPS3109	
NAD83 (1996)	43 59 38.33696	96 07 27.55145	533077.880	152820.108	162482.463	46579.662	498.211	C		2015	HWLSN	

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/pipestone/5904_K-DL7793-3N-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_K-DL7793-3N-28APR2015.jpg</a>	N	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_K-DL7793-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_K-DL7793-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_K-DL7793-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_K-DL7793-1-28APR2015.jpg</a>		Apr 28, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63946.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63946.pdf)



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

Mn/DOT Name: 5904 L

NGS Name: 5904 L

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DL7794](#) [Get Map](#)  
NGS Quad / Sta Num : 43096114/  
USGS Quad: EDGERTON NORTH

<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	16	106 N	44 W	435936.60	960839.43	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2006	2015	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 45 FT)	SURVEY DISK	MNDT

**Description:** (2006) **Stamping:** 5904 L 2006

2.2 MILES EAST-SOUTHEAST OF WOODSTOCK, 2.0 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND COUNTY ROAD 18, (THE JUNCTION IS 1.0 MILE SOUTH OF WOODSTOCK), AT TRUNK HIGHWAY 30 MILEPOINT 16.1, 62.2 FEET SOUTH OF TRUNK HIGHWAY 30, 55.1 FEET EAST OF COUNTY ROAD 17 (160TH AVENUE), 1.3 FEET NORTH OF A WITNESS POST.

**Station Pair:** LINGL - PIPESTONE, 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	1689.961	0.016	515.101	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.741 12B = -85.718 09 = -85.613 03 = -85.472

Geodetic Position and Pipestone 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)	43 59 36.60275	96 08 39.43211	527823.014	152637.113	160880.777	46523.885	488.973	2015	GPS3109			
NAD83 (1996)	43 59 36.60250	96 08 39.43270	527822.971	152637.087	160880.763	46523.877	489.035	C	2015	HWLSN		

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/pipestone/5904_L-DL7794-3S-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_L-DL7794-3S-28APR2015.jpg</a>	S	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_L-DL7794-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_L-DL7794-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_L-DL7794-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_L-DL7794-1-28APR2015.jpg</a>		Apr 28, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63947.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63947.pdf)



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

Mn/DOT Name: 5904 M

NGS Name: 5904 M

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DL7795](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

				<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	17	106 N	44 W	435937.33	960947.88	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2015	GOOD	Horz=NO Vert=NO	YES	59006	FLUSH	NO MAG MATERIAL

  

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

**Description:** (2006)                      **Stamping:** 5904 M 2006

3.0 MILES SOUTHWEST OF WOODSTOCK, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 30 BRIDGE NUMBER 59006 OVER THE EAST BRANCH OF THE ROCK RIVER, 7.15 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75/ TRUNK HIGHWAY 23 NORTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 15.15, 23.3 FEET SOUTH OF TRUNK HIGHWAY 30, 3.4 FEET WEST OF THE EAST END OF A BRIDGE RAILING. THE DISK WAS SET IN THE BRIDGE WHEN BUILT IN 1999 THEN STAMPED WHEN USED IN 2006.

**Station Notes**

IF THE COORDINATES AND/OR ELEVATIONS ARE ESTABLISHED OR PUBLISHED ON THIS GEODETIC CONTROL DISK, THEY SHOULD BE USED WITH CAUTION. THE GEODETIC CONTROL DISK IS LOCATED ON AN INTEGRAL ABUTMENT AND/OR A JOINTLESS BRIDGE AND IS SUBJECT TO MOVEMENT BEYOND GEODETIC TOLERANCES.

**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	1667.028	0.016	508.111	0.005	2/1	2011	00000425-40

Geoid Separations(ft): GEOID18 = -85.731 12B = -85.708 09 = -85.604 03 = -85.459

\* 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/pipestone/5904_M-DL7795-3S-09NOV2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_M-DL7795-3S-09NOV2006.jpg</a>	S	Nov 9, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_M-DL7795-2-09NOV2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_M-DL7795-2-09NOV2006.jpg</a>		Nov 9, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_M-DL7795-1-09NOV2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_M-DL7795-1-09NOV2006.jpg</a>		Nov 9, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63948.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63948.pdf)





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

Mn/DOT Name: 5904 N

NGS Name: 5904 N

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DL7796](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	12	106 N	45 W	435938.89	961105.36	2	C	2006	2015	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

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

**Description:** (2006) **Stamping:** 5904 N 2006

6.2 MILES EAST OF PIPESTONE, 6.1 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23/TRUNK HIGHWAY 75 NORTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 14.05, 80.6 FEET NORTH OF TRUNK HIGHWAY 30, 27.8 FEET WEST OF 140TH AVENUE, 4.5 FEET EAST OF A NORTH-SOUTH FENCE, 1.6 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u> <u>Height</u> <u>Accuracy</u>	<u>Orthometric (Meters)</u> <u>Height</u> <u>Accuracy</u>	<u>Survey Order/(Class)</u>	<u>Project Info</u> <u>Year</u> <u>Reference</u>
NAVD88	1723.724 0.016	525.392 0.005	2/1	2017 00000903

Geoid Separations(ft): GEOID18 = -85.705 12B = -85.686 09 = -85.587 03 = -85.436

Geodetic Position and Pipestone 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)	43 59 38.88944	96 11 05.35756	517154.341	152857.629	157628.958	46591.099	499.268	2015	GPS3109			
NAD83 (1996)	43 59 38.88920	96 11 05.35815	517154.298	152857.605	157628.945	46591.091	499.330	C	2015 HWLSN			

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/pipestone/5904_N-DL7796-3W-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_N-DL7796-3W-28APR2015.jpg</a>	W	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_N-DL7796-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_N-DL7796-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_N-DL7796-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_N-DL7796-1-28APR2015.jpg</a>		Apr 28, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63949.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63949.pdf)



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

Mn/DOT Name: 5904 P

NGS Name: 5904 P

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DL7797](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<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	14	106 N	45 W	435937.09	961218.28	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	2015	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

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

**Description:** (2006) **Stamping:** 5904 P 2006

5.3 MILES EAST OF PIPESTONE, 5.0 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23/TRUNK HIGHWAY 75 NORTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 13.05, 98.6 FEET SOUTH OF TRUNK HIGHWAY 30, 61.0 FEET WEST OF COUNTY ROAD 16(130TH AVENUE), 3.8 FEET SOUTHWEST OF AN UNDERGROUND MARKER BOX, 1.3 FEET NORTH OF A WITNESS POST.

**Station Pair:** WEIS - PIPESTONE, 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	1741.237	0.016	530.730	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.686 12B = -85.663 09 = -85.567 03 = -85.413

Geodetic Position and Pipestone 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)	43 59 37.08528	96 12 18.27852	511823.304	152671.364	156004.055	46534.325	504.618			2015	GPS3109	
NAD83 (1996)	43 59 37.08504	96 12 18.27917	511823.257	152671.339	156004.041	46534.317	504.683	C		2015	HWLSN	

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/pipestone/5904_P-DL7797-3S-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_P-DL7797-3S-28APR2015.jpg</a>	S	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_P-DL7797-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_P-DL7797-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_P-DL7797-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_P-DL7797-1-28APR2015.jpg</a>		Apr 28, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63950.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63950.pdf)



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

Mn/DOT Name: 5904 Q

NGS Name: 5904 Q

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DL7798](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SW	11	106 N	45 W	435939.07	961328.91	2	C	2006	2015	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

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

**Description:** (2006) **Stamping:** 5904 Q 2006

4.3 MILES EAST OF PIPESTONE, 4.0 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23/TRUNK HIGHWAY 75 NORTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 12.05, 79.6 FEET NORTH OF TRUNK HIGHWAY 30, 34.0 FEET EAST OF 120TH AVENUE, 8.6 FEET NORTHWEST OF 120TH AVENUE SIGN POST, 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	1750.439	0.016	533.535	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.666 12B = -85.643 09 = -85.554 03 = -85.394

Geodetic Position and Pipestone 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)	43 59 39.06890	96 13 28.91208	506659.290	152870.045	154430.061	46594.883	507.437			2015	GPS3109	
NAD83 (1996)	43 59 39.06866	96 13 28.91274	506659.242	152870.020	154430.046	46594.875	507.502	C		2015	HWLSN	

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/pipestone/5904_Q-DL7798-3E-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_Q-DL7798-3E-28APR2015.jpg</a>	E	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_Q-DL7798-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_Q-DL7798-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_Q-DL7798-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_Q-DL7798-1-28APR2015.jpg</a>		Apr 28, 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:

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

Mn/DOT Name: 5904 R

NGS Name: 5904 R

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DL7799](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	106 N	45 W	435939.15	961441.65	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>
2006	2015	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

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

**Description:** (2006) **Stamping:** 5904 R 2006

3.3 MILES EAST OF PIPESTONE, 3.0 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23/TRUNK HIGHWAY 75 NORTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 11.05, 57.8 FEET NORTH OF TRUNK HIGHWAY 30, 41.1 FEET WEST OF 110TH AVENUE, 4.5 FEET WEST OF 110TH AVENUE SIGN POST, 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	1766.059	0.016	538.296	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.649 12B = -85.630 09 = -85.541 03 = -85.377

Geodetic Position and Pipestone 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)	43 59 39.15137	96 14 41.64504		501341.901	152877.416	152809.317	46597.130	512.184		2015	GPS3109
NAD83 (1996)	43 59 39.15113	96 14 41.64570		501341.853	152877.392	152809.302	46597.122	512.247	C	2015	HWLSN

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/pipestone/5904_R-DL7799-3N-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_R-DL7799-3N-28APR2015.jpg</a>	N	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_R-DL7799-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_R-DL7799-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_R-DL7799-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_R-DL7799-1-28APR2015.jpg</a>		Apr 28, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63952.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63952.pdf)



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

Mn/DOT Name: 5904 S

NGS Name: 5904 S

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DL7800](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	106 N	45 W	435939.63	961554.32	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2006	2015	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

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

**Description:** (2006)                      **Stamping:** 5904 S 2006

2.3 MILES EAST OF PIPESTONE, 2.0 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23/75 NORTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 10.05, 91.8 FEET NORTH OF TRUNK HIGHWAY 30, 35.8 FEET WEST OF 100TH AVENUE, 15.0 FEET SOUTH OF TWO POWER POLES NUMBER 87R241, 1.8 FEET SOUTH OF A WITNESS POST.

**Station Pair:** CLANCY - PIPESTONE, 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	1768.330	0.016	538.988	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.640    12B = -85.623    09 = -85.535    03 = -85.367

Geodetic Position and Pipestone 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)	43 59 39.62727	96 15 54.31509	496029.122	152925.932	151189.979	46611.917	512.884			2015	GPS3109	
NAD83 (1996)	43 59 39.62702	96 15 54.31574	496029.075	152925.906	151189.964	46611.910	512.948	C		2015	HWLSN	

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/pipestone/5904_S-DL7800-3W-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_S-DL7800-3W-28APR2015.jpg</a>	W	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_S-DL7800-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_S-DL7800-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_S-DL7800-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_S-DL7800-1-28APR2015.jpg</a>		Apr 28, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_63953.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63953.pdf)



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

Mn/DOT Name: 5904 T

NGS Name: 5904 T

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DL7801](#) [Get Map](#)  
NGS Quad / Sta Num : 43096141/  
USGS Quad: PIPESTONE SOUTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	18	106 N	45 W	435938.06	961706.91	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2006	2015	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)	SURVEY DISK	MNDT

Description: (2006)                      **Stamping:** 5904 T 2006

1.3 MILES EAST OF PIPESTONE, 0.75 MILE EAST ALONG TRUNK HIGHWAY 30 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 9.05, 75.6 FEET SOUTH OF TRUNK HIGHWAY 30, 31.0 FEET WEST OF 90TH AVENUE, 17.4 FEET SOUTH OF A POWER POLE NUMBER 92816 WITH THREE GUY WIRES, 1.5 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	1728.704	0.016	526.910	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.640    12B = -85.626    09 = -85.528    03 = -85.361

Geodetic Position and Pipestone 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)	43 59 38.05902	96 17 06.90785	490721.929	152768.736	149572.343	46564.004	500.802	2015	GPS3109			
NAD83 (1996)	43 59 38.05867	96 17 06.90879	490721.860	152768.701	149572.322	46563.993	500.878	2015	HWLSN	C		

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_T-DL7801-3W-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_T-DL7801-3W-28APR2015.jpg</a>	W	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_T-DL7801-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_T-DL7801-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_T-DL7801-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_T-DL7801-1-28APR2015.jpg</a>		Apr 28, 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:

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

Mn/DOT Name: 5904 U

NGS Name: 5904 U

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP9034](#) [Get Map](#)  
NGS Quad / Sta Num : 43096114/  
USGS Quad: EDGERTON NORTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	17	106 N	44 W	435936.92	960952.18	2	C

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

Description: (2015)                      **Stamping:** 5904 U 2015

6.9 MILES EAST OF PIPESTONE, 6.9 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 SOUTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 15.1, 66.4 FEET SOUTH OF TRUNK HIGHWAY 30, 14.0 FEET EAST OF 150TH AVENUE EXTENDED, 16.4 FEET SOUTHEAST OF THE END OF A GUARDRAIL, 11.0 FEET NORTH OF A FENCE LINE, 9.1 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	1657.503	0.016	505.208	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.731    12B = -85.708    09 = -85.604    03 = -85.459

Geodetic Position and Pipestone 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)	43 59 36.92014	96 09 52.18304	522504.221	152663.087	159259.605	46531.802	479.089	2015	GPS3109			
NAD83 (1996)	43 59 36.91990	96 09 52.18366	522504.175	152663.063	159259.591	46531.795	479.152	2015	HWLSN	C		

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_U-DP9034-3S-13MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_U-DP9034-3S-13MAY2015.jpg</a>	S	May 13, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_U-DP9034-2-13MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_U-DP9034-2-13MAY2015.jpg</a>		May 13, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_U-DP9034-1-13MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_U-DP9034-1-13MAY2015.jpg</a>		May 13, 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:

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

Mn/DOT Name: 5904 V

NGS Name: 5904 V

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP9035](#) [Get Map](#)  
NGS Quad / Sta Num : 43096111/  
USGS Quad: EDGERTON 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>
NE	15	106 N	44 W	435936.57	960616.80	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
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 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2015) **Stamping:** 5904 V 2015

1.0 MILE SOUTH OF WOODSTOCK, AT THE JUNCTION OF TRUNK HIGHWAY 30 AND COUNTY ROAD 18(180TH AVENUE) (THE JUNCTION IS 1.0 MILE SOUTH OF WOODSTOCK), AT TRUNK HIGHWAY 30 MILEPOINT 18.05, 57.7 FEET SOUTH OF TRUNK HIGHWAY 30, 125.6 FEET WEST OF COUNTY ROAD 18, 51.3 FEET WEST-NORTHWEST OF A LIGHT POLE, 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	1791.476	0.016	546.043	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.748 12B = -85.728 09 = -85.623 03 = -85.502

Geodetic Position and Pipestone 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)	43 59 36.56519	96 06 16.79863		538250.831	152649.184	164059.182	46527.564	519.897		2015	GPS3109
NAD83 (1996)	43 59 36.56493	96 06 16.79918		538250.791	152649.157	164059.169	46527.556	519.960	C	2015	HWLSN

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/pipestone/5904_V-DP9035-3S-13MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_V-DP9035-3S-13MAY2015.jpg</a>	S	May 13, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_V-DP9035-2-13MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_V-DP9035-2-13MAY2015.jpg</a>		May 13, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_V-DP9035-1-13MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5904_V-DP9035-1-13MAY2015.jpg</a>		May 13, 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:

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

Mn/DOT Name: 5905 A

NGS Name: 5905 A

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

	<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	18	106 N	45 W	435937.00	961802.00		

<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>
1963	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)	SURVEY DISK	MNDT

**Description:** (1963)

**Stamping:**

IN PIPESTONE, AT THE EAST JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75, IN THE SOUTHWEST QUADRANT OF THE INTERSECTION, 74.0 FEET WEST OF TRUNK HIGHWAY 75, AT TRUNK HIGHWAY 75 STATION 12+11.

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

Geoid Separations(ft): GEOID18 = -85.636 12B = -85.626 09 = -85.528 03 = -85.361

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23605.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23605.pdf)

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

Mn/DOT Name: 5905 B

NGS Name: 5905 B

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	18	106 N	45 W	435858.00	961734.00		

<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>
1963	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)	SURVEY DISK	MNDT

**Description:** (1963)

**Stamping:**

0.8 MILE SOUTH OF PIPESTONE, 0.8 MILE SOUTH-SOUTHEAST ALONG TRUNK HIGHWAY 75 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, 73.0 FEET WEST OF TRUNK HIGHWAY 75, AT TRUNK HIGHWAY 75 STATION 56+35.

**Station Notes**

THE AREA HAS BEEN REGRADED, MACHINERY DEALER NOW IN THE AREA.

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

Geoid Separations(ft): GEOID18 = -85.679 12B = -85.663 09 = -85.564 03 = -85.397

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23606.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23606.pdf)

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

Mn/DOT Name: 5905 C

NGS Name: 5905 C

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	106 N	45 W	435715.00	961624.00		

<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>
1963	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:** (1963)

**Stamping:**

3.0 MILES SOUTHEAST OF PIPESTONE, 3.0 MILES SOUTH-SOUTHEAST ALONG TRUNK HIGHWAY 75 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, 78.0 FEET WEST OF TRUNK HIGHWAY 75, AT TRUNK HIGHWAY 75 STATION 170+83.

**Station Notes**

NO TIES. PROBABLY DESTROYED DUE TO ROAD CONSTRUCTION.

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

Geoid Separations(ft): GEOID18 = -85.781 12B = -85.761 09 = -85.659 03 = -85.492

\* No Horizontal Positions in the Database \*

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23607.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23607.pdf)



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

Mn/DOT Name: 5905 D

NGS Name: 5905 D

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8924](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	105 N	45 W	435553.30	961603.40	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2010	GOOD	Horz=NO Vert=YES	YES		RECESSED 2 IN.	STEEL ROD IMBED IN MON

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

**Description:** (1963)                      **Stamping:** 5905 D 1963

2.4 MILES NORTH OF TROSKY, 3.0 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND COUNTY ROAD 59 IN TROSKY, AT TRUNK HIGHWAY 75 MILEPOINT 30.95, 74.0 FEET WEST OF TRUNK HIGHWAY 75, AT TRUNK HIGHWAY 75 STATION 257+57, 31.0 FEET SOUTH OF A FIELD ENTRANCE, 4.0 FEET NORTHEAST OF A HIGH TENSION POWER POLE NUMBER 330, 1.0 FOOT SOUTH OF A WITNESS POST.

**Station Notes**

THE MARK IS LEANING SLIGHTLY TO THE SOUTH.

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	1760.679	0.016	536.656	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.869 12B = -85.843 09 = -85.738 03 = -85.574

\* 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/pipestone/5905_D-DN8924-3W-14DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_D-DN8924-3W-14DEC2010.jpg</a>	W	Dec 14, 201
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_D-DN8924-2-14DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_D-DN8924-2-14DEC2010.jpg</a>		Dec 14, 201
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_D-DN8924-1-14DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_D-DN8924-1-14DEC2010.jpg</a>		Dec 14, 201

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23608.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23608.pdf)



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

Mn/DOT Name: 5905 E

NGS Name: 5905 E

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8925](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	9	105 N	45 W	435457.00	961554.42	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1963	2011	GOOD	Horz=YES Vert=YES	YES		PROJECTS 5 IN.	STEEL ROD IMBED IN MON

Monument Type	Disk Type	Mon. Agency
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

**Description:** (1963)                      **Stamping:** 5905 E 1963

1.2 MILES NORTH OF TROSKY, 1.9 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND COUNTY ROAD 59 IN TROSKY, AT TRUNK HIGHWAY MILEPOINT 29.85, 73.0 FEET WEST OF TRUNK HIGHWAY 75, AT TRUNK HIGHWAY 75 STATION 315+00, 4.6 FEET SOUTH-SOUTHEAST OF A POWER POLE NUMBER 215, 0.3 FOOT 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	1754.823	0.016	534.871	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.928    12B = -85.902    09 = -85.797    03 = -85.633

Geodetic Position and Pipestone 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)	43 54 56.99537	96 15 54.41812	496016.343	124304.146	151186.084	37887.979	508.669	2014	C	GPS3047		
NAD83 (1996)	43 54 56.99491	96 15 54.41834	496016.327	124304.099	151186.079	37887.965	508.734	2011	C	HTH75		

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_E-DN8925-3W-14DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_E-DN8925-3W-14DEC2010.jpg</a>	W	Dec 14, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_E-DN8925-2-14DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_E-DN8925-2-14DEC2010.jpg</a>		Dec 14, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_E-DN8925-1-14DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_E-DN8925-1-14DEC2010.jpg</a>		Dec 14, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23609.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23609.pdf)



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

Mn/DOT Name: 5905 F

NGS Name: 5905 F

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	20	105 N	45 W	435321.00	961553.00		

<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>
1963	2010	NOT FOUND	Horz=? Vert=YES	NO			SEE DESCRIPTION

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

**Description:** (1963)

**Stamping:**

IN TROSKY, AT THE JUNCTION OF COUNTY ROAD 59 AND TRUNK HIGHWAY 75, 73.0 FEET WEST OF TRUNK HIGHWAY 75, AT TRUNK HIGHWAY 75 STATION 412+48.

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

Geoid Separations(ft): GEOID18 = -86.030 12B = -86.004 09 = -85.895 03 = -85.735

\* No Horizontal Positions in the Database \*

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23610.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23610.pdf)



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

Mn/DOT Name: 5905 G

NGS Name: 5905 G

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ1181](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	105 N	45 W	435240.00	961554.00	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>
1985	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)	BENCH MARK DISK	MNDT

**Description:** (1996)                      **Stamping:** 5905 G 1985

1.4 MILES SOUTH OF TROSKY, 8.2 MILES SOUTHEAST ALONG TRUNK HIGHWAY 75 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, NEAR THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 268, 75.0 FEET WEST OF TRUNK HIGHWAY 75, AT TRUNK HIGHWAY 75 STATION 453+47.

**Station Notes**

JEFF BALBACH FROM MARSHALL SUBMITTED FIELD DATA IN 1995 THAT SUBSTANTIATED THAT THE MARK HAS CONTINUED TO RISE, IN 1996 THE GEODETIC UNIT FOUND THE STATION DESTROYED AND REMOVED THE DISK AT THIS TIME.

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	1686.775	0.016	514.130	0.005	2/1	1995	00000135
NGVD29	1685.938	0.016	513.875	0.005	2/1	1985	VTROS

Geoid Separations(ft): GEOID18 = -86.069 12B = -86.043 09 = -85.935 03 = -85.774

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: 5905 H

NGS Name: 5905 H

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ1182](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096142/  
 USGS Quad: JASPER 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	33	105 N	45 W	435147.00	961551.00	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>
1985	2010	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 4 IN.	MARKER W/BAR MAGNET

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

**Description:** (2005)                      **Stamping:** 5905 H 1985

1.5 MILES SOUTH OF TROSKY, 1.1 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 268 IN TROSKY, AT TRUNK HIGHWAY 75 MILEPOINT 26.25, 76.0 FEET SOUTHWEST OF TRUNK HIGHWAY 75, 49.0 FEET SOUTH OF AN EAST-WEST ROAD, 34.5 FEET NORTHWEST OF A POWER POLE NUMBER 252, 13.0 FEET SOUTHEAST OF A RIGHT-OF-WAY POST, 2.4 FEET NORTHEAST OF A FENCE LINE, 0.9 FOOT NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1678.543	0.016	511.621	0.005	2/1	2000	00000361
NGVD29	1677.700	0.016	511.364	0.005	2/1	1996	VEDGE

Geoid Separations(ft): GEOID18 = -86.119    12B = -86.092    09 = -85.981    03 = -85.817

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: 5905 J

NGS Name: 5905 J

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ1183](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096142/  
 USGS Quad: JASPER 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	33	105 N	45 W	435118.00	961506.10	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2010	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

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

**Description:** (1985)                      **Stamping:** 5905 J 1985

2.0 MILES SOUTH OF TROSKY, 10.2 MILES SOUTHEAST AND SOUTH AND SOUTHEAST ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 25.4, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 74 BOX CULVERT, 28.0 FEET NORTHEAST OF TRUNK HIGHWAY 75, 0.6 FOOT NORTHWEST OF THE SOUTH END OF A HEADWALL.

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	1652.260	0.016	503.610	0.005	2/1	2013	00000797
NGVD29	1651.417	0.016	503.353	0.005	2/1	1985	VTROS

Geoid Separations(ft): GEOID18 = -86.151 12B = -86.128 09 = -86.010 03 = -85.846

\* 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/pipestone/5905_J-OQ1183-3E-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_J-OQ1183-3E-15DEC2010.jpg</a>	E	Dec 15, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_J-OQ1183-2-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_J-OQ1183-2-15DEC2010.jpg</a>		Dec 15, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_J-OQ1183-1-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_J-OQ1183-1-15DEC2010.jpg</a>		Dec 15, 2010

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23613.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23613.pdf)



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

Mn/DOT Name: 5905 K

NGS Name: 5905 K

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ1184](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096142/  
 USGS Quad: JASPER 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	33	105 N	45 W	435129.53	961524.52	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2010	GOOD	Horz=NO Vert=YES	YES	6315	FLUSH	MARKER W/BAR MAGNET

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

**Description:** (1985)                      **Stamping:** 5905 K 1985

1.75 MILES SOUTH OF TROSKY, 1.55 MILES SOUTH AND EAST ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK COUNTY ROAD 9 IN TROSKY, AT TRUNK HIGHWAY 75 MILEPOINT 25.75, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 75 BOX CULVERT, 26.5 FEET NORTHEAST OF TRUNK HIGHWAY 75, 0.2 FOOT NORTHWEST OF THE SOUTH END OF A HEADWALL.

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	1644.383	0.016	501.209	0.005	2/1	2013	00000797
NGVD29	1643.540	0.016	500.952	0.005	2/1	1985	VTROS

Geoid Separations(ft): GEOID18 = -86.138    12B = -86.115    09 = -860000    03 = -85.836

\* 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/pipestone/5905_K-OQ1184-3E-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_K-OQ1184-3E-15DEC2010.jpg</a>	E	Dec 15, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_K-OQ1184-2-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_K-OQ1184-2-15DEC2010.jpg</a>		Dec 15, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_K-OQ1184-1-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_K-OQ1184-1-15DEC2010.jpg</a>		Dec 15, 2010

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23614.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23614.pdf)



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

Mn/DOT Name: 5905 L

NGS Name: 5905 L

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ1185](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096142/  
 USGS Quad: JASPER 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	29	105 N	45 W	435159.80	961555.20	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2010	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

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

**Description:** (1996)                      **Stamping:** 5905 L 1985

1.25 MILES SOUTH OF TROSKY, 0.8 MILE SOUTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND COUNTY ROAD 9 IN TROSKY, AT TRUNK HIGHWAY 75 MILEPOINT 26.5, IN THE SOUTHWEST CORNER OF A TRUNK HIGHWAY 75 CULVERT, 26.0 FEET WEST OF TRUNK HIGHWAY 75, 0.5 FOOT NORTH OF THE SOUTH END OF A HEADWALL.

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	1667.536	0.016	508.266	0.005	2/1	2013	00000797
NGVD29	1666.706	0.016	508.013	0.005	2/1	1996	VEDGE

Geoid Separations(ft): GEOID18 = -86.105    12B = -86.083    09 = -85.971    03 = -85.807

\* 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/pipestone/5905_L-OQ1185-3W-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_L-OQ1185-3W-15DEC2010.jpg</a>	W	Dec 15, 2010
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_L-OQ1185-2-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_L-OQ1185-2-15DEC2010.jpg</a>		Dec 15, 2010
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_L-OQ1185-1-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_L-OQ1185-1-15DEC2010.jpg</a>		Dec 15, 2010

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23615.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23615.pdf)



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

Mn/DOT Name: 5905 M

NGS Name: 5905 M

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ1186](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	28	105 N	45 W	435232.70	961553.90	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2010	GOOD	Horz=NO Vert=YES	YES	8363		MARKER W/BAR MAGNET

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

**Description:** (2010)                      **Stamping:** 5905 M 1985

0.75 MILE SOUTH OF TROSKY, 0.15 MILE SOUTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND COUNTY ROAD 9 IN TROSKY, AT TRUNK HIGHWAY 75 MILEPOINT 27.1, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 75 BOX CULVERT, 28.5 FEET EAST OF TRUNK HIGHWAY 75, 0.5 FOOT NORTH OF THE SOUTH END OF A HEADWALL.

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	1678.133	0.016	511.496	0.005	2/1	2013	00000797
NGVD29	1677.293	0.016	511.240	0.005	2/1	1996	VEDGE

Geoid Separations(ft): GEOID18 = -86.076    12B = -86.050    09 = -85.941    03 = -85.781

\* 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/pipestone/5905_M-OQ1186-3E-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_M-OQ1186-3E-15DEC2010.jpg</a>	E	Dec 15, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_M-OQ1186-2-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_M-OQ1186-2-15DEC2010.jpg</a>		Dec 15, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_M-OQ1186-1-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_M-OQ1186-1-15DEC2010.jpg</a>		Dec 15, 2010

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23616.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23616.pdf)



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

Mn/DOT Name: 5905 N

NGS Name: 5905 N

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ1187](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	105 N	45 W	435312.00	961552.00	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>
1985	2010	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

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

**Description:** (1985)                      **Stamping:** 5905 N 1985

IN TROSKY, 0.6 MILE NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 268 IN TROSKY, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 75 BOX CULVERT, 30.0 FEET EAST OF TRUNK HIGHWAY 75, 0.4 FOOT NORTH OF THE SOUTH END OF A HEADWALL.

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	1702.218	0.016	518.837	0.005	2/1	1995	00000135
NGVD29	1701.384	0.016	518.583	0.005	2/1	1985	VTROS

Geoid Separations(ft): GEOID18 = -86.040 12B = -86.010 09 = -85.905 03 = -85.745

\* No Horizontal Positions in the Database \*

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23617.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23617.pdf)



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

Mn/DOT Name: 5905 P

NGS Name: 5905 P

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8919](#) [Get Map](#)  
NGS Quad / Sta Num : 43096141/  
USGS Quad: PIPESTONE SOUTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	18	106 N	45 W	435907.43	961738.64	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2010	2015	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: (2010)                      **Stamping:** 5905 P 2010

IN PIPESTONE, 0.7 MILE SOUTH ALONG TRUNK HIGHWAY 75 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 34.95, 132.0 FEET NORTHEAST OF TRUNK HIGHWAY 75, 37.0 FEET NORTHWEST OF FORMAN DRIVE, 39.0 FEET NORTHEAST OF THE SOUTHEAST CORNER OF A ROCK SIGN FOR THE PIPESTONE SYSTEM COMPANY, 2.0 FEET 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	1735.282	0.016	528.915	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.669 12B = -85.656 09 = -85.558 03 = -85.387

Geodetic Position and Pipestone 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)	43 59 07.43093	96 17 38.63661	488400.623	149668.166	148864.808	45618.948	502.801	2018	GPS3119			
NAD83 (1996)	43 59 07.43098	96 17 38.63719	488400.580	149668.171	148864.795	45618.950	502.863	2017	HMNCORS			

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_P-DN8919-3NE-29DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_P-DN8919-3NE-29DEC2010.jpg</a>	NE	Dec 29, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_P-DN8919-2-29DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_P-DN8919-2-29DEC2010.jpg</a>		Dec 29, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_P-DN8919-1-29DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_P-DN8919-1-29DEC2010.jpg</a>		Dec 29, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93337.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93337.pdf)



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

Mn/DOT Name: 5905 Q

NGS Name: 5905 Q

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8920](#) [Get Map](#)  
NGS Quad / Sta Num : 43096141/  
USGS Quad: PIPESTONE SOUTH

<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	106 N	45 W	435826.76	961714.01	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>
2010	2015	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2010) **Stamping:** 5905 Q 2010

2.1 MILES SOUTHEAST OF PIPESTONE, 1.6 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 34.1, 71.5 FEET SOUTHWEST OF TRUNK HIGHWAY 75, 24.0 FEET NORTHWEST OF A FIELD ENTRANCE, 2.2 FEET SOUTH-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	1750.216	0.016	533.467	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.712 12B = -85.695 09 = -85.594 03 = -85.423

Geodetic Position and Pipestone 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)	43 58 26.75725	96 17 14.00606	490199.729	145548.288	149413.176	44363.207	507.340			2014	GPS3047	
NAD83 (1996)	43 58 26.75660	96 17 14.00617	490199.720	145548.223	149413.174	44363.187	507.405	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/pipestone/5905_Q-DN8920-3SW-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_Q-DN8920-3SW-28APR2015.jpg</a>	SW	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_Q-DN8920-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_Q-DN8920-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_Q-DN8920-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_Q-DN8920-1-28APR2015.jpg</a>		Apr 28, 2015

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93338.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93338.pdf)



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

Mn/DOT Name: 5905 R

NGS Name: 5905 R

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8922](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	32	106 N	45 W	435701.29	961613.96	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2010	2011	GOOD	Horz=YES Vert=YES	YES		FLUSH	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: (2010)                      **Stamping:** 5905 R 2010

3.8 MILES SOUTHEAST OF PIPESTONE, 3.35 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 32.3, 123.0 FEET NORTHEAST OF TRUNK HIGHWAY 75, 29.0 FEET SOUTH OF 71ST STREET, 47.6 FEET EAST OF A CABLE BOX, 2.8 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	1778.897	0.016	542.209	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.794    12B = -85.777    09 = -85.672    03 = -85.505

Geodetic Position and Pipestone 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)	43 57 01.29251	96 16 13.95658		494589.174	136891.831	150751.082	41724.714	516.054		2014	GPS3047
NAD83 (1996)	43 57 01.29201	96 16 13.95667		494589.167	136891.781	150751.080	41724.698	516.117	C	2011	HTH75

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_R-DN8922-3E-15FEB2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_R-DN8922-3E-15FEB2011.jpg</a>	E	Feb 15, 2011
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_R-DN8922-2-15FEB2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_R-DN8922-2-15FEB2011.jpg</a>		Feb 15, 2011
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_R-DN8922-1-29DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_R-DN8922-1-29DEC2010.jpg</a>		Dec 29, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93274.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93274.pdf)





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

Mn/DOT Name: 5905 S

NGS Name: 5905 S

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8923](#) [Get Map](#)  
NGS Quad / Sta Num : 43096141/  
USGS Quad: PIPESTONE SOUTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	32	106 N	45 W	435609.53	961603.10	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2011	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: (2011) **Stamping:** 5905 S 2011

4.7 MILES SOUTHEAST OF PIPESTONE, 4.4 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 31.25, 157.0 FEET EAST OF TRUNK HIGHWAY 75, 33.0 FEET NORTH OF 61ST STREET, 15.0 FEET WEST OF A FIELD ENTRANCE, 10.6 FEET NORTHEAST 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	1757.825	0.016	535.786	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.853 12B = -85.827 09 = -85.722 03 = -85.558

Geodetic Position and Pipestone 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)	43 56 09.53004	96 16 03.10075	495382.296	131649.736	150992.826	40126.920	509.608			2014	GPS3047	
NAD83 (1996)	43 56 09.52958	96 16 03.10088	495382.286	131649.689	150992.823	40126.906	509.671	C		2011	HTH75	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_S-DN8923-3N-22OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_S-DN8923-3N-22OCT2019.jpg</a>	N	Oct 22, 2019
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_S-DN8923-2-22OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_S-DN8923-2-22OCT2019.jpg</a>		Oct 22, 2019
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_S-DN8923-1-22OCT2019.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_S-DN8923-1-22OCT2019.jpg</a>		Oct 22, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93282.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93282.pdf)



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

Mn/DOT Name: 5905 T

NGS Name: 5905 T

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8926](#) [Get Map](#)  
NGS Quad / Sta Num : 43096141/  
USGS Quad: PIPESTONE SOUTH

<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	105 N	45 W	435424.27	961559.52	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>
2011	2011	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2011) **Stamping:** 5905 T 2011

1.5 MILES NORTH OF TROSKY, 1.25 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND COUNTY ROAD 59 IN TROSKY, TO TRUNK HIGHWAY 75 MILEPOINT 29.25, THEN 0.1 MILE WEST ON 41ST STREET (COUNTY ROAD 2), 46.9 FEET SOUTH OF 41ST STREET (COUNTY ROAD 42), 15.9 FEET EAST OF A FIELD ENTRANCE, 3.5 FEET NORTH OF A FENCE CORNER, 18.5 FEET WEST OF A POWER POLE, 2.0 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	1701.053	0.016	518.482	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.964 12B = -85.935 09 = -85.830 03 = -85.669

Geodetic Position and Pipestone 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)	43 54 24.26911	96 15 59.51723	495642.400	120990.091	151072.106	36877.854	492.268			2014	GPS3047	
NAD83 (1996)	43 54 24.26867	96 15 59.51744	495642.384	120990.046	151072.101	36877.840	492.335	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/pipestone/5905_T-DN8926-3S-05JAN2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_T-DN8926-3S-05JAN2011.jpg</a>	S	Jan 5, 2011
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_T-DN8926-2-05JAN2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_T-DN8926-2-05JAN2011.jpg</a>		Jan 5, 2011
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_T-DN8926-1-05JAN2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_T-DN8926-1-05JAN2011.jpg</a>		Jan 5, 2011

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93297.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93297.pdf)



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

Mn/DOT Name: 5905 U

NGS Name: 5905 U

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8927](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	105 N	45 W	435320.27	961552.42	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>
2011	2011	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:** (2011)                      **Stamping:** 5905 U 2011

IN TROSKY, AT THE JUNCTION OF TRUNK HIGHWAY 75 AND COUNTY ROAD 59 IN TROSKY, AT TRUNK HIGHWAY 75 MILEPOINT 28.0, 68.8 FEET EAST OF TRUNK HIGHWAY 75, 98.5 FEET SOUTH OF COUNTY ROAD 59, 10.0 FEET SOUTH OF A CABLE BOX, 47.5 FEET SOUTH OF A POWER POLE WITH 3 GUY WIRES, 2.0 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	1702.838	0.016	519.026	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -86.030 12B = -86.004 09 = -85.899 03 = -85.735

Geodetic Position and Pipestone 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)	43 53 20.27342	96 15 52.41583	496161.190	114509.283	151230.233	34902.499	492.801			2014	GPS3047	
NAD83 (1996)	43 53 20.27292	96 15 52.41616	496161.166	114509.233	151230.226	34902.484	492.866	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/pipestone/5905_U-DN8927-3E-05JAN2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_U-DN8927-3E-05JAN2011.jpg</a>	E	Jan 5, 2011
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_U-DN8927-2-05JAN2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_U-DN8927-2-05JAN2011.jpg</a>		Jan 5, 2011
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_U-DN8927-1-05JAN2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5905_U-DN8927-1-05JAN2011.jpg</a>		Jan 5, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93301.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93301.pdf)



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

Mn/DOT Name: 5906 A

NGS Name: 5906 A

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR1162](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	106 N	46 W	440012.91	961826.86	2	

<u>Year Set</u>	<u>Last Recovery</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=YES	YES	6572	FLUSH	NO MAG MATERIAL

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

**Description:** (2001)                      **Stamping:** 5906 A 1953

IN PIPESTONE, 0.1 MILE NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 36.65, IN THE SOUTHEAST HEADWALL OF TRUNK HIGHWAY 75 BRIDGE NUMBER 6572 OVER THE MAIN DITCH, 21.0 FEET RIGHT OF TRUNK HIGHWAY 75, AT TRUNK HIGHWAY 75 STATION 35+30, AT TRUNK HIGHWAY 75 STATION 686+50.

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	1723.589	0.016	525.351	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.600 12B = -85.594 09 = -85.492 03 = -85.328

\* 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/pipestone/5906_A-PR1162-3E-21JUN2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_A-PR1162-3E-21JUN2006.jpg</a>	E	Jun 21, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_A-PR1162-2-21JUN2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_A-PR1162-2-21JUN2006.jpg</a>		Jun 21, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_A-PR1162-1-21JUN2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_A-PR1162-1-21JUN2006.jpg</a>		Jun 21, 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:

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

Mn/DOT Name: 5906 D

NGS Name: 5906 D

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: <a href="#">DH3144</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096232/	
USGS Quad: PIPESTONE NORTH	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	107 N	46 W	440115.67	961827.01	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>
1953	2014	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:** (2004)                      **Stamping:** 5906 D 1953

2.0 MILES NORTH OF PIPESTONE, 1.4 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 37.85, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 75 BOX CULVERT, 26.1 FEET EAST OF TRUNK HIGHWAY 75, AT TRUNK HIGHWAY 75 STATION 158+50.

**Station Notes**

USE A 2.0 METER TRIPOD TO CLEAR THE SIGN 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	1738.081	0.016	529.768	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.531 12B = -85.528 09 = -85.433 03 = -85.272

Geodetic Position and Pipestone 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 01 15.67272	96 18 27.01291	484872.445	162657.333	147789.417	49578.054	503.680			2012	GPS2800	
NAD83 (2007)	44 01 15.67267	96 18 27.01385	484872.377	162657.328	147789.396	49578.053	503.710			2007	GPS2300	
NAD83 (1996)	44 01 15.67233	96 18 27.01283	484872.451	162657.293	147789.419	49578.042	503.754	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/pipestone/5906_D-DH3144-3S-23JUN2004.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_D-DH3144-3S-23JUN2004.jpg</a>	S	Jun 23, 2004
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_D-DH3144-2-23JUN2004.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_D-DH3144-2-23JUN2004.jpg</a>		Jun 23, 2004
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_D-DH3144-1-23JUN2004.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_D-DH3144-1-23JUN2004.jpg</a>		Jun 23, 2004

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23619.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23619.pdf)



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

Mn/DOT Name: 5906 J

NGS Name: 5906 J

County: PIPESTONE, 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>
NE	13	108 N	46 W	440947.00	961827.00		

<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	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	NO MAG MATERIAL

  

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

**Description:** (1953)

**Stamping:**

11.6 MILES NORTH OF PIPESTONE, 11.6 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 75 BOX CULVERT HEADWALL, 22.0 FEET EAST OF TRUNK HIGHWAY 75, AT TRUNK HIGHWAY 75 STATION 667+70.

**Station Notes**

NEW BRIDGE NUMBER 5297.

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

Geoid Separations(ft): GEOID18 = -84.921 12B = -84.954 09 = -84.842 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\\_23620.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23620.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23620.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23620.pdf)



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

Mn/DOT Name: 5906 K

NGS Name: 5906 K

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8895](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096231/  
 USGS Quad: VERDI

				Reference	Reference	Vert	Horz
1/4	Sec	Twp	Rng	Latitude	Longitude	Order	Order
NE	12	108 N	46 W	441055.78	961829.57	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2010	2021	POOR	Horz=NO Vert=NO	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2010)                      **Stamping:** 5906 K 2010

12.5 MILES NORTH OF PIPESTONE, 12.5 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 48.95, 0.05 MILE SOUTH OF COUNTY ROAD 75/231ST STREET, 56.8 FEET WEST OF TRUNK HIGHWAY 75, 13.7 FEET NORTH OF A FIELD ENTRANCE, 5.0 FEET SOUTH OF A WITNESS POST.

**Station Notes**

FOUND CAP OFF ROD. USE WITH CAUTION.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1745.033	0.016	531.887	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -84.842    12B = -84.888    09 = -84.767    03 = -84.678

Geodetic Position and Pipestone 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 10 55.77861	96 18 29.57489	484726.705	221405.623	147744.995	67484.569	506.030			2014	GPS3047
NAD83 (1996)	44 10 55.77797	96 18 29.57526	484726.678	221405.559	147744.987	67484.549	506.117	C		2011	HTH75

**Station Photos**

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_K-DN8895-3W-14JAN2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_K-DN8895-3W-14JAN2011.jpg</a>	W	Jan 14, 2011
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_K-DN8895-2-14JAN2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_K-DN8895-2-14JAN2011.jpg</a>		Jan 14, 2011
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_K-DN8895-1-14JAN2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_K-DN8895-1-14JAN2011.jpg</a>		Jan 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\\_93304.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93304.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93304.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93304.pdf)



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

Mn/DOT Name: 5906 L

NGS Name: 5906 L

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8896](#) [Get Map](#)  
NGS Quad / Sta Num : 44096231/  
USGS Quad: VERDI

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	13	108 N	46 W	441004.60	961829.03	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		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2010)                      **Stamping:** 5906 L 2010

11.5 MILES NORTH OF PIPESTONE, 11.5 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 47.95, 75.5 FEET WEST OF TRUNK HIGHWAY 75, 188.3 FEET SOUTH OF 221ST STREET, 48.5 FEET EAST-NORTHEAST OF THE NORTHEAST CORNER OF A CABLE BOX, 2.0 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	1735.948	0.016	529.118	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -84.898    12B = -84.937    09 = -84.819    03 = -84.724

Geodetic Position and Pipestone 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 10 04.60045	96 18 29.02817	484762.899	216222.630	147756.027	65904.790	503.247			2014	GPS3047	
NAD83 (1996)	44 10 04.59983	96 18 29.02854	484762.872	216222.567	147756.019	65904.770	503.332	C		2011	HTH75	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_L-DN8896-3W-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_L-DN8896-3W-04MAY2021.jpg</a>	W	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_L-DN8896-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_L-DN8896-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_L-DN8896-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_L-DN8896-1-04MAY2021.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\\_93306.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93306.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93306.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93306.pdf)





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

Mn/DOT Name: 5906 M

NGS Name: 5906 M

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8897](#) [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	13	108 N	45 W	440946.80	961828.40	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2010	2010	GOOD	Horz=YES Vert=?	YES	5297		NO MAG MATERIAL

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

**Description:** (2010)                      **Stamping:** 5906 M 2010

11.6 MILES NORTH OF PIPESTONE, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 75 BRIDGE NUMBER 5297 OVER A DITCH, 11.6 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 47.6, 20.0 FEET EAST OF TRUNK HIGHWAY 75.

**Station Notes**

THE DISK WAS SET IN A DRILL HOLE AT AN UNKNOWN TIME AFTER THE BRIDGE WAS REMODELED IN 1962, THEN STAMPED WHEN USED IN 2010.

**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	1712.677	0.016	522.025	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -84.921    12B = -84.954    09 = -84.842    03 = -84.744

\* 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/pipestone/5906_M-DN8897-3N-14DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_M-DN8897-3N-14DEC2010.jpg</a>	N	Dec 14, 201
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_M-DN8897-2-14DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_M-DN8897-2-14DEC2010.jpg</a>		Dec 14, 201
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_M-DN8897-1-14DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_M-DN8897-1-14DEC2010.jpg</a>		Dec 14, 201

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

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93313.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93313.pdf)



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

Mn/DOT Name: 5906 N

NGS Name: 5906 N

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: <a href="#">DN8898</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096231/	
USGS Quad: VERDI	

1/4	Sec	Twp	Rng	Reference	Reference	Vert	Horz
				Latitude	Longitude	Order	Order
SW	18	108 N	45 W	440922.12	961826.98	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2010	2011	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 30 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2012)                      Stamping: 5906 N 2010

10.5 MILES NORTH OF PIPESTONE, 10.6 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 47.15, 69.9 FEET EAST OF TRUNK HIGHWAY 75, 30.4 FEET SOUTH OF A GRAVEL PIT ENTRANCE, 2.0 FEET WEST OF A FENCE LINE, 2.0 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	1753.028	0.016	534.324	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -84.951    12B = -84.980    09 = -84.878    03 = -84.777

Geodetic Position and Pipestone 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 09 22.11909	96 18 26.97982	484909.214	211920.324	147800.624	64593.444	508.441			2014	GPS3047	
NAD83 (1996)	44 09 22.11852	96 18 26.98023	484909.183	211920.266	147800.615	64593.426	508.520	C		2011	HTH75	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_N-DN8898-3E-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_N-DN8898-3E-28DEC2010.jpg</a>	E	Dec 28, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_N-DN8898-2-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_N-DN8898-2-28DEC2010.jpg</a>		Dec 28, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_N-DN8898-1-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_N-DN8898-1-28DEC2010.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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93315.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93315.pdf)



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

Mn/DOT Name: 5906 P

NGS Name: 5906 P

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8901](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	30	108 N	45 W	440729.45	961823.42	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>
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 25 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2010)                      **Stamping:** 5906 P 2010

8.75 MILES NORTH OF PIPESTONE, 8.45 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, TO TRUNK HIGHWAY 75 MILEPOINT 45.0, THEN 0.05 MILE EAST ON 191ST STREET, 17.4 FEET NORTH OF 191ST STREET, 2.0 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	1747.893	0.016	532.759	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.108    12B = -85.115    09 = -85.036    03 = -84.924

Geodetic Position and Pipestone 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 07 29.44912	96 18 23.42237	485160.766	200509.805	147877.297	61115.511	506.824			2014	GPS3047	
NAD83 (1996)	44 07 29.44867	96 18 23.42264	485160.746	200509.760	147877.291	61115.497	506.898	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/pipestone/5906_P-DN8901-3N-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_P-DN8901-3N-04MAY2021.jpg</a>	N	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_P-DN8901-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_P-DN8901-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_P-DN8901-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_P-DN8901-1-04MAY2021.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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93319.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93319.pdf)



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

Mn/DOT Name: 5906 Q

NGS Name: 5906 Q

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8902](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	108 N	46 W	440646.85	961828.69	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>
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:** 5906 Q 2010

7.6 MILES NORTH OF PIPESTONE, 7.65 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 44.15, 57.5 FEET WEST OF TRUNK HIGHWAY 75, 44.5 FEET SOUTH OF A FIELD ENTRANCE, 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	1739.373	0.016	530.162	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.161 12B = -85.167 09 = -85.088 03 = -84.967

Geodetic Position and Pipestone 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 06 46.85395	96 18 28.69344		484773.219	196196.384	147759.173	59800.778	504.213		2014	GPS3047
NAD83 (1996)	44 06 46.85352	96 18 28.69370		484773.200	196196.341	147759.167	59800.764	504.283	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/pipestone/5906_Q-DN8902-3W-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_Q-DN8902-3W-04MAY2021.jpg</a>	W	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_Q-DN8902-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_Q-DN8902-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_Q-DN8902-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_Q-DN8902-1-04MAY2021.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:

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

Mn/DOT Name: 5906 R

NGS Name: 5906 R

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8903](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	1	107 N	46 W	440559.26	961828.79	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>
2010	2011	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:** 5906 R 2010

7.0 MILES NORTH OF PIPESTONE, 6.7 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 43.25, 64.0 FEET WEST OF TRUNK HIGHWAY 75, 7.0 FEET NORTH OF A FIELD ENTRANCE, 11.0 FEET SOUTHEAST OF A CABLE BOX.

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	1750.899	0.016	533.675	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.220 12B = -85.226 09 = -85.144 03 = -85.016

Geodetic Position and Pipestone 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 05 59.25620	96 18 28.78705	484762.999	191376.093	147756.058	58331.550	507.712			2014	GPS3047	
NAD83 (1996)	44 05 59.25580	96 18 28.78727	484762.983	191376.053	147756.053	58331.538	507.778		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/pipestone/5906_R-DN8903-3W-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_R-DN8903-3W-28DEC2010.jpg</a>	W	Dec 28, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_R-DN8903-2-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_R-DN8903-2-28DEC2010.jpg</a>		Dec 28, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_R-DN8903-1-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_R-DN8903-1-28DEC2010.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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93355.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93355.pdf)



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

Mn/DOT Name: 5906 S

NGS Name: 5906 S

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8906](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	7	107 N	45 W	440453.40	961827.20	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2010	GOOD	Horz=NO Vert=YES	YES	59001		NO MAG MATERIAL

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

**Description:** (2010)                      **Stamping:** 5906 S 1989

5.6 MILES NORTH OF PIPESTONE, IN AN ABUTMENT IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 75 BRIDGE NUMBER 59001 OVER THE NORTH BRANCH OF PIPESTONE CREEK, 5.45 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 42.0, 24.0 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	1702.306	0.016	518.864	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.298    12B = -85.305    09 = -85.216    03 = -85.082

\* 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/pipestone/5906_S-DN8906-3N-14DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_S-DN8906-3N-14DEC2010.jpg</a>	N	Dec 14, 201
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_S-DN8906-2-14DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_S-DN8906-2-14DEC2010.jpg</a>		Dec 14, 201
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_S-DN8906-1-14DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_S-DN8906-1-14DEC2010.jpg</a>		Dec 14, 201

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

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

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

Mn/DOT Name: 5906 T

NGS Name: 5906 T

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8907](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	107 N	46 W	440449.07	961828.38	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>
2010	2021	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 10 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2011)                      **Stamping:** 5906 T 2010

5.5 MILES NORTH OF PIPESTONE, 5.35 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 41.9, 65.0 FEET WEST OF TRUNK HIGHWAY 75, 20.0 FEET NORTH OF A FIELD ENTRANCE, 3.0 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	1693.743	0.016	516.254	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.302 12B = -85.308 09 = -85.220 03 = -85.085

Geodetic Position and Pipestone 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 04 49.06819	96 18 28.37999	484787.716	184268.050	147763.591	56165.014	490.266			2014	GPS3047	
NAD83 (1996)	44 04 49.06783	96 18 28.38022	484787.699	184268.014	147763.586	56165.003	490.334	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/pipestone/5906_T-DN8907-3W-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_T-DN8907-3W-04MAY2021.jpg</a>	W	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_T-DN8907-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_T-DN8907-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_T-DN8907-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_T-DN8907-1-04MAY2021.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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93360.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93360.pdf)



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

Mn/DOT Name: 5906 U

NGS Name: 5906 U

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8908](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	13	107 N	46 W	440401.23	961828.50	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2010	2011	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 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2010)                      **Stamping:** 5906 U 2010

4.5 MILES NORTH OF PIPESTONE, 4.45 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 41.0, 74.0 FEET WEST OF TRUNK HIGHWAY 75, 80.0 FEET NORTH OF COUNTY ROAD 7, 31.0 FEET SOUTH OF DRIVEWAY NUMBER 1505, 5.7 FEET SOUTH OF A CABLE BOX.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1716.630	0.016	523.230	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.357    12B = -85.357    09 = -85.272    03 = -85.128

Geodetic Position and Pipestone 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 04 01.23377	96 18 28.49912	484775.617	179423.824	147759.904	54688.491	497.221	2014	C	2014	GPS3047	
NAD83 (1996)	44 04 01.23342	96 18 28.49928	484775.605	179423.788	147759.900	54688.480	497.289	2011	C	2011	HTH75	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_U-DN8908-3W-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_U-DN8908-3W-28DEC2010.jpg</a>	W	Dec 28, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_U-DN8908-2-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_U-DN8908-2-28DEC2010.jpg</a>		Dec 28, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_U-DN8908-1-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_U-DN8908-1-28DEC2010.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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93363.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93363.pdf)





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

Mn/DOT Name: 5906 V

NGS Name: 5906 V

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: <a href="#">DN8912</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096232/	
USGS Quad: PIPESTONE NORTH	

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	30	107 N	45 W	440215.49	961818.40	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		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2010)                      **Stamping:** 5906 V 2010

2.6 MILES NORTH OF PIPESTONE, 2.4 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, TO TRUNK HIGHWAY 75 MILEPOINT 39.0, THEN 0.1 MILE EAST ON 131ST STREET, 36.6 FEET NORTH OF 131ST STREET, 32.4 FEET WEST OF A FIELD ENTRANCE, 2.0 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	1753.103	0.016	534.347	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.466    12B = -85.462    09 = -85.377    03 = -85.223

Geodetic Position and Pipestone 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 02 15.49297	96 18 18.39891	485505.966	168714.901	147982.514	51424.405	508.299	2014	C	GPS3047		
NAD83 (1996)	44 02 15.49257	96 18 18.39893	485505.964	168714.860	147982.514	51424.392	508.371	2011	C	HTH75		

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_V-DN8912-3N-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_V-DN8912-3N-04MAY2021.jpg</a>	N	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_V-DN8912-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_V-DN8912-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_V-DN8912-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_V-DN8912-1-04MAY2021.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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93365.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93365.pdf)



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

Mn/DOT Name: 5906 W

NGS Name: 5906 W

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8911](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	107 N	45 W	440214.80	961827.60	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2010	2010	GOOD	Horz=NO Vert=YES	YES	6572		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:** (2010)                      **Stamping:** 5906 W 2010

2.5 MILES NORTH OF PIPESTONE, IN A HEADWALL IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 75 CULVERT NUMBER 6572 OVER A DITCH, 2.4 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 38.95, 24.0 FEET EAST OF TRUNK HIGHWAY 75, 45.0 FEET SOUTH OF 131ST STREET.

**Station Notes**

THE DISK WAS SET IN A CULVERT WHEN BUILT IN 1950 THEN STAMPED WHEN USED IN 2010.

**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	1748.750	0.016	533.020	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.466    12B = -85.462    09 = -85.377    03 = -85.223

\* 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/pipestone/5906_W-DN8911-3E-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_W-DN8911-3E-15DEC2010.jpg</a>	E	Dec 15, 201
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_W-DN8911-2-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_W-DN8911-2-15DEC2010.jpg</a>		Dec 15, 201
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_W-DN8911-1-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_W-DN8911-1-15DEC2010.jpg</a>		Dec 15, 201

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

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93346.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93346.pdf)



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

Mn/DOT Name: 5906 X

NGS Name: 5906 X

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8913](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	106 N	45 W	440122.21	961825.46	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>
2010	2011	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:** 5906 X 2010

1.6 MILES NORTH OF PIPESTONE, 1.4 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 37.95, 142.4 FEET EAST OF TRUNK HIGHWAY 75, 62.0 FEET SOUTH OF 121ST STREET, 21.9 FEET WEST OF A FIELD ENTRANCE, 5.9 FEET NORTHEAST OF A CABLE BOX.

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	1744.413	0.016	531.698	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.525    12B = -85.518    09 = -85.430    03 = -85.269

Geodetic Position and Pipestone 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 01 22.20903	96 18 25.45863	484986.483	163319.185	147824.176	49779.787	505.630			2014	GPS3047	
NAD83 (1996)	44 01 22.20847	96 18 25.45862	484986.484	163319.128	147824.176	49779.770	505.699	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/pipestone/5906_X-DN8913-3E-29DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_X-DN8913-3E-29DEC2010.jpg</a>	E	Dec 29, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_X-DN8913-2-29DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_X-DN8913-2-29DEC2010.jpg</a>		Dec 29, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_X-DN8913-1-29DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_X-DN8913-1-29DEC2010.jpg</a>		Dec 29, 2010

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93367.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93367.pdf)



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

Mn/DOT Name: 5906 Y

NGS Name: 5906 Y

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8914](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	106 N	46 W	440049.86	961828.26	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2010	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 30 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2010)                      **Stamping:** 5906 Y 2010

1.0 MILE NORTH OF PIPESTONE, 0.75 MILE NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 37.35, 71.6 FEET WEST OF TRUNK HIGHWAY 75, 44.0 FEET SOUTH OF A FIELD ENTRANCE, 78.9 FEET NORTH OF A CABLE BOX.

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	1723.268	0.016	525.253	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.561 12B = -85.554 09 = -85.459 03 = -85.295

Geodetic Position and Pipestone 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 00 49.85692	96 18 28.25957		484779.511	160043.036	147761.091	48781.215	499.174		2014	GPS3047
NAD83 (1996)	44 00 49.85653	96 18 28.25949		484779.517	160042.996	147761.092	48781.203	499.244	C	2011	H7H75

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/pipestone/5906_Y-DN8914-3W-29DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_Y-DN8914-3W-29DEC2010.jpg</a>	W	Dec 29, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_Y-DN8914-2-29DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_Y-DN8914-2-29DEC2010.jpg</a>		Dec 29, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_Y-DN8914-1-29DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_Y-DN8914-1-29DEC2010.jpg</a>		Dec 29, 2010

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93371.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93371.pdf)



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

Mn/DOT Name: 5906 Z

NGS Name: 5906 Z

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8918](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	106 N	45 W	435937.42	961826.21	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>
2010	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 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2010)                      **Stamping:** 5906 Z 2010

IN PIPESTONE, AT THE JUNCTION OF TRUNK HIGHWAYS 75, 23, 30 AND COUNTY ROAD 56 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOST 36.0, 58.6 FEET SOUTH OF EASTBOUND TRUNK HIGHWAY 75, 49.6 FEET EAST OF COUNTY ROAD 56/80TH AVENUE, 2.2 FEET NORTH OF A RIGHT-OF-WAY POST/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	1735.869	0.016	529.094	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.636    12B = -85.626    09 = -85.528    03 = -85.361

Geodetic Position and Pipestone 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)	43 59 37.41818	96 18 26.21328	484923.966	152707.092	147805.121	46545.215	502.990			2015	GPS3109	
NAD83 (1996)	43 59 37.41802	96 18 26.21438	484923.886	152707.076	147805.096	46545.210	503.077	C		2015	HWLSN	

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/pipestone/5906_Z-DN8918-3S-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_Z-DN8918-3S-28APR2015.jpg</a>	S	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_Z-DN8918-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_Z-DN8918-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_Z-DN8918-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5906_Z-DN8918-1-28APR2015.jpg</a>		Apr 28, 2015

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93373.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93373.pdf)



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

Mn/DOT Name: 5907 A

NGS Name: 5907 A

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [A11728](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<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	28	105 N	45 W	435238.00	961456.00	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>
1996	2010	NOT FOUND	Horz=YES Vert=YES	NO		FLUSH	MARKER W/BAR MAGNET

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

**Description:** (1996) **Stamping:** 5907 A 1996

1.0 MILE SOUTHEAST OF TROSKY, 0.8 MILE EAST ALONG COUNTY ROAD 9 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND COUNTY ROAD 9 IN TROSKY, 1.0 MILE SOUTH OF TROSKY, AT TRUNK HIGHWAY 268 MILEPOINT 0.8, 50.4 FEET SOUTH OF TRUNK HIGHWAY 268, 1.0 FOOT WEST OF A RIGHT-OF-WAY POST, 40.0 FEET NORTHWEST OF THE NORTHWEST CORNER OF A GROVE OF TREES, 0.9 FOOT 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	1689.609	0.016	514.994	0.005	2/1	2000	00000361
NGVD29	1688.773	0.016	514.739	0.005	2/1	1996	VEDGE

Geoid Separations(ft): GEOID18 = -86.083 12B = -86.056 09 = -85.945 03 = -85.784

\* No Horizontal Positions in the Database \*

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23621.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23621.pdf)



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

Mn/DOT Name: 5907 B

NGS Name: 5907 B

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [AI1730](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	27	105 N	45 W	435235.00	961331.00	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>
1996	1996	GOOD	Horz=YES Vert=YES	NO		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:** (1996)                      **Stamping:** 5907 B 1996

1.5 MILES SOUTHEAST OF TROSKY, 2.0 MILES EAST ALONG TRUNK HIGHWAY 268 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 268 IN TROSKY, TO TRUNK HIGHWAY 268 MILEPOINT 2.0, THEN 0.1 MILE SOUTH ALONG COUNTY ROAD 60, 33.0 FEET WEST OF COUNTY ROAD 60, 34.0 FEET NORTH OF A FIELD ENTRANCE, 130.8 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF AN UNDERGROUND POWER CABLE BOX, 1.1 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	1686.329	0.016	513.994	0.005	2/1	2000	00000361
NGVD29	1685.495	0.016	513.740	0.005	2/1	1996	VEDGE

Geoid Separations(ft): GEOID18 = -86.099    12B = -86.076    09 = -85.964    03 = -85.800

\* No Horizontal Positions in the Database \*

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23622.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23622.pdf)



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

Mn/DOT Name: 5907 C

NGS Name: 5907 C

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [AI1731](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	23	105 N	45 W	435241.74	961217.74	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>
1996	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 15 FT)	SURVEY DISK	MNDT

**Description:** (1996)                      **Stamping:** 5907 C 1996

3.5 MILES WEST OF EDGERTON, 3.0 MILES EAST ALONG COUNTY ROAD 9 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND COUNTY ROAD 9 (THE JUNCTION IS 1.0 MILE SOUTH OF TROSKY), 229.6 FEET NORTH OF COUNTY ROAD 9, 33.0 FEET WEST OF 130TH AVENUE, 1.0 FOOT 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	1635.259	0.016	498.428	0.005	2/1	2000	00000361
NGVD29	1634.426	0.016	498.174	0.005	2/1	1996	VEDGE

Geoid Separations(ft): GEOID18 = -86.105    12B = -86.083    09 = -85.968    03 = -85.807

Geodetic Position and Pipestone 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)	43 52 41.74288	96 12 17.74292	511885.453	110610.293	156022.998	33714.085	472.171	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/pipestone/5907_C-AI1731-3W-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_C-AI1731-3W-04MAY2021.jpg</a>	W	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_C-AI1731-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_C-AI1731-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_C-AI1731-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_C-AI1731-1-04MAY2021.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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23623.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23623.pdf)





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

Mn/DOT Name: 5907 D

NGS Name: 5907 D

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [A11732](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	25	105 N	45 W	435237.00	961104.00	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>
1996	2021	NOT FOUND	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

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

**Description:** (1996)                      **Stamping:** 5907 D 1996

2.5 MILES WEST OF EDGERTON, 2.8 MILES WEST ALONG TRUNK HIGHWAY 268 FROM THE JUNCTION OF NORTH MAIN STREET AND TRUNK HIGHWAY 268 IN EDGERTON, TO TRUNK HIGHWAY 268 MILEPOINT 4.0, THEN 0.05 MILE SOUTH ALONG A GRAVEL ROAD, 19.0 FEET WEST OF A GRAVEL ROAD, 8.5 FEET NORTH OF A FIELD ENTRANCE, 50.0 FEET NORTH-NORTHEAST OF A RURAL WATER SYSTEM SIGN POST, 86.8 FEET WEST OF THE WEST FACE OF THE WEST GRAIN BIN, 12.0 FEET SOUTH-SOUTHEAST 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	1636.549	0.016	498.821	0.005	2/1	2000	00000361
NGVD29	1635.715	0.016	498.567	0.005	2/1	1996	VEDGE

Geoid Separations(ft): GEOID18 = -86.122 12B = -86.105 09 = -85.987 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\\_23624.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23624.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23624.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23624.pdf)



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

Mn/DOT Name: 5907 E

NGS Name: 5907 E

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [A11733](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	105 N	44 W	435242.24	960953.50	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>
1996	2021	POOR	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

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

**Description:** (2005) **Stamping:** 5907 E 1996

1.8 MILES WEST OF EDGERTON, 1.8 MILES WEST ALONG COUNTY ROAD 9 FROM THE JUNCTION OF NORTH MAIN STREET AND COUNTY ROAD 9 IN EDGERTON, TO COUNTY ROAD 9 MILEPOINT 5.0, THEN 0.05 MILE NORTH ALONG A GRAVEL ROAD, 21.5 FEET WEST OF A GRAVEL ROAD, 221.6 FEET NORTH OF AN UNDERGROUND POWER CABLE BOX, 1.6 FEET SOUTH OF A WITNESS POST.

**Station Notes**

FOUND CAP LOOSE. USE WITH CAUTION.

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	1621.401	0.016	494.204	0.005	2/1	2010	00000425-38
NGVD29	1620.571	0.016	493.951	0.005	2/1	1996	VEDGE

Geoid Separations(ft): GEOID18 = -86.132 12B = -86.115 09 = -85.997 03 = -85.846

\* 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/pipestone/5907_E-A11733-3W-12OCT2005.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_E-A11733-3W-12OCT2005.jpg</a>	W	Oct 12, 2005
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_E-A11733-2-12OCT2005.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_E-A11733-2-12OCT2005.jpg</a>		Oct 12, 2005
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_E-A11733-1-12OCT2005.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_E-A11733-1-12OCT2005.jpg</a>		Oct 12, 2005

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23625.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23625.pdf)



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

Mn/DOT Name: 5907 F

NGS Name: 5907 F

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [AI1734](#) [Get Map](#)  
NGS Quad / Sta Num : 43096114/  
USGS Quad: EDGERTON NORTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	21	105 N	44 W	435240.04	960829.83	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1996	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: (2005)                      **Stamping:** 5907 F 1996

0.6 MILE WEST OF EDGERTON, 0.65 MILE WEST ALONG COUNTY ROAD 9 FROM THE JUNCTION OF COUNTY ROAD 9 AND NORTH MAIN STREET IN EDGERTON, 42.6 FEET NORTH OF COUNTY ROAD 9, 32.1 FEET WEST OF A POWER POLE, 90.5 FEET NORTH-NORTHEAST OF AN EAST GATE POST OF A CEMETERY, 90.3 FEET NORTHWEST OF THE NORTH LEG OF THE EDGERTON SIGN POST, 1.0 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1587.090	0.016	483.746	0.005	2/1	2010	00000425-38
NGVD29	1586.267	0.016	483.495	0.005	2/1	1996	VEDGE

Geoid Separations(ft): GEOID18 = -86.151 12B = -86.135 09 = -86.010 03 = -85.866

Geodetic Position and Pipestone 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)	43 52 40.03616	96 08 29.83074	528580.411	110452.992	161111.631	33666.139	457.483			2012	GPS2800	
NAD83 (2007)	43 52 40.03610	96 08 29.83171	528580.340	110452.986	161111.610	33666.137	457.519			2007	GPS2300	
NAD83 (1996)	43 52 40.03582	96 08 29.83089	528580.400	110452.958	161111.628	33666.129	457.554	C		2006	GPS2245	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_F-AI1734-3N-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_F-AI1734-3N-04MAY2021.jpg</a>	N	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_F-AI1734-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_F-AI1734-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_F-AI1734-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_F-AI1734-1-04MAY2021.jpg</a>		May 4, 2021

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

Mn/DOT Name: 5907 G

NGS Name: 5907 G

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [AI1735](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096111/  
 USGS Quad: EDGERTON 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	27	105 N	44 W	435238.97	960654.59	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>
1996	2007	DESTROYED	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 10 FT)	SURVEY DISK	MNDT

**Description:** (2004) **Stamping:** 5907 G 1996

0.5 MILE EAST OF EDGERTON, 0.65 MILE EAST ALONG TRUNK HIGHWAY 268 FROM THE JUNCTION OF NORTH MAIN STREET AND TRUNK HIGHWAY 268 IN EDGERTON, AT TRUNK HIGHWAY 268 MILEPOINT 7.5, 60.3 FEET SOUTH OF TRUNK HIGHWAY 268, 89.8 FEET WEST OF COUNTY ROAD 18, 38.9 FEET WEST OF A TELEPHONE CABLE PEDESTAL, 13.0 FEET EAST OF A FIELD ENTRANCE, 37.0 FEET SOUTH-SOUTHWEST OF A COUNTY ROAD 18 SIGN POST, 0.5 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	1573.475	0.016	479.596	0.005	2/1	2000	00000361
NGVD29	1572.651	0.016	479.345	0.005	2/1	1996	VEDGE

Geoid Separations(ft): GEOID18 = -86.155 12B = -86.148 09 = -86.017 03 = -85.886

Geodetic Position and Pipestone 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)	43 52 38.97171	96 06 54.58967	535557.115	110355.487	163238.135	33636.420	453.332			2012	GPS2800	
NAD83 (2007)	43 52 38.97168	96 06 54.59059	535557.048	110355.484	163238.115	33636.419	453.363			2007	GPS2300	
NAD83 (1996)	43 52 38.97140	96 06 54.58980	535557.105	110355.456	163238.132	33636.410	453.397	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/pipestone/5907_G-AI1735-3N-22JUN2004.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_G-AI1735-3N-22JUN2004.jpg</a>	N	Jun 22, 2004
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_G-AI1735-2-22JUN2004.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_G-AI1735-2-22JUN2004.jpg</a>		Jun 22, 2004
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_G-AI1735-1-22JUN2004.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_G-AI1735-1-22JUN2004.jpg</a>		Jun 22, 2004

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23627.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23627.pdf)



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

Mn/DOT Name: 5907 H

NGS Name: 5907 H

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DM3408](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	29	105 N	44 W	435239.00	960858.00	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>
2005	2005	GOOD	Horz=NO Vert=?	YES	59007		NO MAG MATERIAL

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

**Description:** (2005)                      **Stamping:** 5907 H 2005

1.0 MILE WEST OF EDGERTON, IN THE RAIL IN THE SOUTHEAST CORNER OF COUNTY ROAD 9 BRIDGE NUMBER 59007 OVER ROCK CREEK, 1.0 MILE WEST ALONG TRUNK HIGHWAY 268 FROM THE JUNCTION OF TRUNK HIGHWAY 268 AND NORTH MAIN STREET IN EDGERTON, 22.0 FEET SOUTH OF TRUNK HIGHWAY 268.

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	1573.757	0.016	479.682	0.005	2/1	2010	00000425-38

Geoid Separations(ft): GEOID18 = -86.148    12B = -86.132    09 = -86.007    03 = -85.863

\* 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/pipestone/5907_H-DM3408-3S-12OCT2005.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_H-DM3408-3S-12OCT2005.jpg</a>	S	Oct 12, 200
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_H-DM3408-2-12OCT2005.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_H-DM3408-2-12OCT2005.jpg</a>		Oct 12, 200
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_H-DM3408-1-12OCT2005.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/5907_H-DM3408-1-12OCT2005.jpg</a>		Oct 12, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_53092.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_53092.pdf)



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

Mn/DOT Name: 6 SEM

NGS Name: 6 SEM

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096144/  
 USGS Quad: JASPER NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	26	105 N	47 W	435235.00	962711.00		

<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=? 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:** (1966)                      **Stamping:** 6 SEM 1966 1580

ON THE STATE LINE, 3.2 MILES NORTHWEST OF JASPER, 2.4 MILES WEST ALONG TRUNK HIGHWAY 269 FROM THE JUNCTION OF TRUNK HIGHWAY 269 AND COUNTY ROAD 13 IN JASPER, THEN 0.5 MILE WEST ON TRUNK HIGHWAY 11 IN SOUTH DAKOTA, THEN 1.8 MILES NORTH ON COUNTY ROAD H, THEN 0.6 MILE EAST ON 242ND STREET, TO A 90 DEGREE TURN NORTH, 48.0 FEET SOUTH AND 24.0 FEET EAST OF A NORTH-SOUTH ROAD AT A TEE-ROAD WEST, 2.0 FEET WEST OF A FENCE.

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

Geoid Separations(ft): GEOID18 = -85.941    12B = -85.941    09 = -85.833    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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23628.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23628.pdf)



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

Mn/DOT Name: 7 SEM

NGS Name: 7 SEM

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DE7125](#) [Get Map](#)  
NGS Quad / Sta Num : 43096144/  
USGS Quad: JASPER NW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	20	105 N	46 W	435244.66	962326.96	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>
1966	2011	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

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

**Description:** (2001)                      **Stamping:** 7 SEM 1966

1.9 MILES NORTH OF JASPER, 2.1 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 269 IN JASPER, AT TRUNK HIGHWAY 23 MILEPOINT 20.8, 327.0 FEET NORTH OF 21ST STREET, 80.5 FEET WEST OF TRUNK HIGHWAY 23, ON A SMALL RIDGE, 42.7 FEET EAST OF THE EAST RAIL OF THE RAILROAD TRACKS, 1.4 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	1594.784	0.016	486.091	0.005	2/1	2014	00000810
NGVD29	1593.950	0.016	485.837	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -86.020 12B = -86.007 09 = -85.905 03 = -85.741

Geodetic Position and Pipestone 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)	43 52 44.65572	96 23 26.96239	462865.145	110933.732	141081.579	33812.669	459.886			2014	GPS3047	
NAD83 (2007)	43 52 44.65564	96 23 26.96330	462865.079	110933.724	141081.558	33812.667	459.915			2007	GPS2300	
NAD83 (1996)	43 52 44.65488	96 23 26.96258	462865.131	110933.647	141081.574	33812.643	459.957	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/pipestone/7_SEM-DE7125-3W-22DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/7_SEM-DE7125-3W-22DEC2010.jpg</a>	W	Dec 22, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/7_SEM-DE7125-2-22DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/7_SEM-DE7125-2-22DEC2010.jpg</a>		Dec 22, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/7_SEM-DE7125-1-22DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/7_SEM-DE7125-1-22DEC2010.jpg</a>		Dec 22, 2010

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

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

Mn/DOT Name: 8 SEM

NGS Name: 8 SEM

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	23	105 N	46 W	435241.00	962019.00		

<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=? 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:** (1966)                      **Stamping:** 8 SEM 1966 1740

3.4 MILES NORTHEAST OF JASPER, 2.0 MILES NORTHEAST AND NORTH ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 1 IN JASPER, THEN 2.5 MILES EAST ON 21ST STREET, 80.0 FEET WEST OF A ROAD AT A CREST, 33.0 FEET NORTH AND 500.0 FEET WEST OF A ROAD AT A NORTH-SOUTH FENCE.

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

Geoid Separations(ft): GEOID18 = -86.040    12B = -86.017    09 = -85.915    03 = -85.751

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: 9 SEM

NGS Name: 9 SEM

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ1219](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	20	105 N	45 W	435244.00	961706.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1966	2010	NOT FOUND	Horz=? Vert=YES	NO			STEEL SPIKE 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:** (1985)                      **Stamping:** 9 SEM 1966 1738

0.7 MILE SOUTHWEST OF TROSKY, 1.0 MILE WEST ALONG 21ST STREET FROM THE JUNCTION OF 21ST STREET AND TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 268 IN TROSKY, THEN 0.1 MILE NORTH ON COUNTY ROAD 57, 410.0 FEET NORTH OF 21ST STREET, 30.0 FEET EAST OF COUNTY ROAD 57, 0.8 FOOT WEST OF A WITNESS POST.

**Station Notes**

THE TIES FALL IN THE BOTTOM OF A DITCH, THE ROAD APPEARS TO BE RE-GRADED (12/14/2010)

**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	1738.560	0.016	529.914	0.005	2/1	1995	00000135
NGVD29	1737.720	0.016	529.658	0.005	2/1	1985	VTROS

Geoid Separations(ft): GEOID18 = -86.056    12B = -86.027    09 = -85.922    03 = -85.761

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: A 12

NGS Name: A 12

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0019](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	106 N	45 W	435700.73	961130.35	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>
1931	2015	GOOD	Horz=YES Vert=YES	YES		RECESSED 5 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

**Description:** (2004)                      **Stamping:** A 12 1931 1665.551

1.0 MILE SOUTH OF HATFIELD, 1.0 MILE EAST AND SOUTH ALONG COUNTY ROAD 16 FROM THE JUNCTION OF COUNTY ROAD 16 AND D AVENUE IN HATFIELD, THEN 0.35 MILE WEST ALONG 71ST STREET (COUNTY ROAD 63), 33.5 FEET SOUTH OF 71ST STREET, 5.5 FEET SOUTHEAST OF A FENCE CORNER, 1.2 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	1666.316	0.007	507.894	0.002	1/2	1991	00000025
NGVD29	1665.551	0.007	507.661	0.002	1/2	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -85.850    12B = -85.827    09 = -85.715    03 = -85.564

Geodetic Position and Pipestone 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)	43 57 00.73479	96 11 30.35163	515338.376	136840.094	157075.451	41708.944	481.736		2015	GPS3109
NAD83 (2007)	43 57 00.73473	96 11 30.35260	515338.305	136840.088	157075.430	41708.942	481.767		2007	GPS2300
NAD83 (1996)	43 57 00.73447	96 11 30.35183	515338.361	136840.062	157075.447	41708.934	481.803	C	2015	HWLSN

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/pipestone/A_12-OQ0019-3S-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/A_12-OQ0019-3S-28APR2015.jpg</a>	S	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/A_12-OQ0019-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/A_12-OQ0019-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/A_12-OQ0019-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/A_12-OQ0019-1-28APR2015.jpg</a>		Apr 28, 2015

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

Mn/DOT Name: A 382

NGS Name: A 382

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ1058](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	12	106 N	46 W	435950.10	961906.10	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1990	2015	GOOD	Horz=NO Vert=YES	YES		FLUSH	NO MAG MATERIAL

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEP	VERTICAL CONTROL DISK	NGS

**Description:** (1990)                      **Stamping:** A 382 1990

IN PIPESTONE, AT THE EAST ENTRANCE TO THE COUNTY COURTHOUSE, ON THE TOP STEP AND 1.3 FEET NORTH OF THE SOUTH EDGE OF THE TOP STEP, 0.25 MILE NORTH ALONG HIAWATHA AVENUE FROM THE JUNCTION OF HIAWATHA AVENUE AND TRUNK HIGHWAY 30 IN THE SOUTHWEST PART OF PIPESTONE, 110.0 FEET WEST OF HIAWATHA AVENUE, 3.6 FEET SOUTH OF THE CENTER OF AN ENTRANCE, THE STEP IS PART OF THE FOUNDATION.

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	1736.161	0.016	529.183	0.005	2/1	2017	00000903
NGVD29	1735.361	0.016	528.939	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.623    12B = -85.617    09 = -85.515    03 = -85.348

\* 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/pipestone/A_382-OQ1058-3W-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/A_382-OQ1058-3W-28APR2015.jpg</a>	W	Apr 28, 2015
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/A_382-OQ1058-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/A_382-OQ1058-2-28APR2015.jpg</a>		Apr 28, 2015
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/A_382-OQ1058-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/A_382-OQ1058-1-28APR2015.jpg</a>		Apr 28, 2015

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23633.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23633.pdf)



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

Mn/DOT Name: A 388

NGS Name: A 388

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: <a href="#">OQ1065</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 43096141/	
USGS Quad: PIPESTONE SOUTH	

		<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>
SE	20	435251.25	961554.78	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>
1990	2021	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD	NGS

**Description:** (1996)                      **Stamping:** A 388 1990

8.0 MILES SOUTH OF PIPESTONE, 8.3 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 27.45, 0.2 MILE NORTH OF THE JUNCTION OF TRUNK HIGHWAY 75 AND COUNTY ROAD 9, 120.4 FEET SOUTH-SOUTHWEST OF THE WEST END OF A CULVERT, 73.5 FEET WEST OF TRUNK HIGHWAY 75, 63.6 FEET NORTH OF A POWER POLE, 18.0 FEET SOUTH OF A TEE-FENCE CORNER, 1.0 FOOT EAST OF A WITNESS POST AND A FENCE.

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	1701.627	0.016	518.657	0.005	2/1	2013	00000797
NGVD29	1700.787	0.016	518.401	0.005	2/1	1996	VEDGE

Geoid Separations(ft): GEOID18 = -86.060 12B = -86.033 09 = -85.925 03 = -85.764

Geodetic Position and Pipestone 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)	43	52 51.24732	96	15 54.77964	495987.528	111569.907	151177.301	34006.576	492.424		2014	GPS3047
NAD83 (1996)	43	52 51.24678	96	15 54.77999	495987.502	111569.852	151177.293	34006.559	492.488	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/pipestone/A_388-OQ1065-3W-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/A_388-OQ1065-3W-04MAY2021.jpg</a>	W	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/A_388-OQ1065-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/A_388-OQ1065-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/A_388-OQ1065-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/A_388-OQ1065-1-04MAY2021.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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23634.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23634.pdf)



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

Mn/DOT Name: AETNA

NGS Name: AETNA

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP4268](#) [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	15	108 N	44 W	440912.45	960616.25	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>
2014	2014	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:** (2014)                      **Stamping:** AETNA 2014

1.5 MILES SOUTH OF RUTHTON, 0.8 MILE SOUTH ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 18 WEST IN RUTHTON, AT TRUNK HIGHWAY 23 MILEPOINT 45.70, 73.5 FEET WEST OF TRUNK HIGHWAY 23, 58.0 FEET NORTH OF COUNTY ROAD 10 (211TH STREET), 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	1747.677	0.016	532.693	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.787    12B = -85.800    09 = -85.712    03 = -85.594

Geodetic Position and Pipestone 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 09 12.44884	96 06 16.24966	538188.065	210969.421	164040.050	64303.608	506.542			2014	GPS3026	
NAD83 (1996)	44 09 12.44839	96 06 16.25007	538188.035	210969.376	164040.041	64303.594	506.623	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/pipestone/AETNA-DP4268-3W-01MAY2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/AETNA-DP4268-3W-01MAY2014.jpg</a>	W	May 1, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/AETNA-DP4268-2-01MAY2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/AETNA-DP4268-2-01MAY2014.jpg</a>		May 1, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/AETNA-DP4268-1-01MAY2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/AETNA-DP4268-1-01MAY2014.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\\_101310.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101310.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_101310.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101310.pdf)



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

Mn/DOT Name: ALTONA CNT

NGS Name: ALTONA CNT

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DH3133](#) [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	15	108 N	46 W	440915.66	962128.97		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2003	2021	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)	REFERENCE MARK DISK	MN-117

**Description:** (2003)                      **Stamping:** ALTONA CNT 2003

10.6 MILES NORTH OF PIPESTONE, 13.0 MILES NORTH ALONG COUNTY ROAD 15 FROM THE JUNCTION OF COUNTY ROAD 15 AND TRUNK HIGHWAY 30 IN PIPESTONE, THEN 2.5 MILES WEST ALONG COUNTY ROAD 10 FROM THE JUNCTION OF COUNTY ROAD 10 AND TRUNK HIGHWAY 75 TO TRUNK HIGHWAY 75 MILEPOINT 47.0, 50.0 FEET NORTH OF COUNTY ROAD 10 (211TH STREET), 59.0 FEET WEST OF A FIELD ENTRANCE, 3.3 FEET SOUTHWEST 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 = -84.931 12B = -84.941 09 = -84.865 03 = -84.754

Geodetic Position and Pipestone 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 09 15. 65707	96 21 28. 96773	471639. 722	211279. 218	143756. 075	64398. 034	488. 311			2012	GPS2800	
NAD83 (2007)	44 09 15. 65700	96 21 28. 96869	471639. 652	211279. 211	143756. 053	64398. 032	488. 342			2007	GPS2300	
NAD83 (1996)	44 09 15. 65646	96 21 28. 96808	471639. 696	211279. 156	143756. 067	64398. 016	488. 376	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/pipestone/ALTONA_CNT-DH3133-3N-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ALTONA_CNT-DH3133-3N-04MAY2021.jpg</a>	N	May 4, 2021
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ALTONA_CNT-DH3133-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ALTONA_CNT-DH3133-2-04MAY2021.jpg</a>		May 4, 2021
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ALTONA_CNT-DH3133-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ALTONA_CNT-DH3133-1-04MAY2021.jpg</a>		May 4, 2021

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_50719.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_50719.pdf)



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

Mn/DOT Name: B 12

NGS Name: B 12

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0020](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	105 N	44 W	435422.00	960916.00	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>
1931	1996	NOT FOUND	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

**Description:** (1996)                      **Stamping:** 1 578.534 B 12 1931

2.2 MILES NORTHWEST OF EDGERTON, 2.3 MILES NORTH AND WEST ALONG COUNTY ROAD 17 FROM THE JUNCTION OF COUNTY ROAD 17 (4TH AVENUE) AND TRUNK HIGHWAY 268 IN EDGERTON, THEN 0.6 MILE WEST ON COUNTY ROAD 63, 25 RAILS NORTH OF RAILROAD MILEPOST 278, 19 RAILS SOUTH OF A BRIDGE, AT THE FIRST ROAD CROSSING NORTH OF A GRAVEL PIT SPUR, 79.0 FEET SOUTHEAST OF A CROSSING, 41.5 FEET EAST OF THE EAST RAIL OF THE RAILROAD TRACKS, 10.0 FEET SOUTH OF A FENCE CORNER, 2.0 FEET WEST OF A RIGHT-OF-WAY FENCE.

**Station Notes**

IN 1996 THE GEODETIC UNIT COULD NOT FIND THE STATION- THE RAILROAD TRACKS AND THE LOCAL REFERENCE TIES HAVE BEEN 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	1579.265	0.007	481.361	0.002	1/2	1991	00000025
NGVD29	1578.534	0.007	481.138	0.002	1/2	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -86.050 12B = -86.027 09 = -85.912 03 = -85.764

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23635.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23635.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23635.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23635.pdf)



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

Mn/DOT Name: B 382

NGS Name: B 382

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR1179](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	12	106 N	46 W	440024.00	961909.60	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1990	2015	GOOD	Horz=YES Vert=YES	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ROCK OUTCROP (OVER 3 METERS)	VERTICAL CONTROL DISK	NGS

**Description:** (1990)                      **Stamping:** B 382 1990

AT THE NORTH EDGE OF PIPESTONE, 850.0 FEET SOUTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 67/NORTH HIAWATHA AVENUE AND TRUNK HIGHWAY 22/9TH STREET NORTHEAST, 451.8 FEET WEST OF HIAWATHA AVENUE ALONG 7TH STREET NORTHEAST EXTENDED, 125.0 FEET EAST OF THE TALLEST TREE NORTH, 2.6 FEET SOUTH OF THE NORTH END OF A ROCK OUTCROP.

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	1715.318	0.016	522.830	0.005	2/1	2017	00000903
NGVD29	1714.524	0.016	522.588	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.590 12B = -85.581 09 = -85.482 03 = -85.318

\* 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/pipestone/B_382-PR1179-3N-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/B_382-PR1179-3N-13JUN2012.jpg</a>	N	Jun 13, 2012
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/B_382-PR1179-2-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/B_382-PR1179-2-13JUN2012.jpg</a>		Jun 13, 2012
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/B_382-PR1179-1-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/B_382-PR1179-1-13JUN2012.jpg</a>		Jun 13, 2012

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23636.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23636.pdf)





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

Mn/DOT Name: B 388

NGS Name: B 388

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ1064](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	17	105 N	45 W	435358.22	961554.40	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1990	2021	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
STEEL ROD (NO SLEEVE) (DEPTH 11 FT)	METAL ROD	NGS

**Description:** (2004) **Stamping:** B 388 1990

1.0 MILE NORTH OF TROSKY, 0.7 MILE NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND COUNTY ROAD 59 IN TROSKY, AT TRUNK HIGHWAY 75 MILEPOINT 28.7, 73.5 FEET WEST OF TRUNK HIGHWAY 75, 22.3 FEET SOUTH OF A FIELD ENTRANCE, 9.5 FEET SOUTH-SOUTHEAST OF A POWER POLE, 1.0 FOOT EAST OF A WITNESS POST AND A FENCE.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	1722. 352 0. 016	524. 974 0. 005	2/1	2013 00000797

Geoid Separations(ft): GEOID18 = -85.994 12B = -85.964 09 = -85.859 03 = -85.699

Geodetic Position and Pipestone 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)	43 53 58. 22099	96 15 54. 39467	496016. 969	118352. 178	151186. 274	36073. 816	498. 763			2014	GPS3047	
NAD83 (2007)	43 53 58. 22093	96 15 54. 39570	496016. 893	118352. 172	151186. 251	36073. 814	498. 794			2007	GPS2300	
NAD83 (1996)	43 53 58. 22051	96 15 54. 39489	496016. 953	118352. 130	151186. 270	36073. 801	498. 828	C		2011	HTH75	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/B_388-OQ1064-3W-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/B_388-OQ1064-3W-04MAY2021.jpg</a>	W	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/B_388-OQ1064-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/B_388-OQ1064-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/B_388-OQ1064-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/B_388-OQ1064-1-04MAY2021.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\\_23637.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23637.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23637.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23637.pdf)



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

Mn/DOT Name: BAKOTA

NGS Name: BAKOTA

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP9036](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096144/  
 USGS Quad: JASPER NW

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	11	106 N	47 W	435948.28	962654.55	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2015	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

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

**Description:** (2015)                      **Stamping:** BAKOTA 2015

6.5 MILES WEST OF PIPESTONE, 6.9 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 SOUTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 0.85, 98.0 FEET WEST-SOUTHWEST OF TRUNK HIGHWAY 30, 33.7 FEET NORTHWEST OF 10TH AVENUE, 1.5 FEET SOUTHEAST OF A WITNESS POST.

**Station Pair:** BLAKE - PIPESTONE, MN

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1606.703	0.016	489.724	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.544    12B = -85.535    09 = -85.443    03 = -85.305

Geodetic Position and Pipestone 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)	43 59 48.28253	96 26 54.54995	447762.707	153864.954	136478.346	46898.132	463.647			2015	GPS3109	
NAD83 (1996)	43 59 48.28229	96 26 54.55060	447762.660	153864.930	136478.332	46898.125	463.713	C		2015	HWLSN	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/BAKOTA-DP9036-3SW-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/BAKOTA-DP9036-3SW-12MAY2015.jpg</a>	SW	May 12, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/BAKOTA-DP9036-2-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/BAKOTA-DP9036-2-12MAY2015.jpg</a>		May 12, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/BAKOTA-DP9036-1-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/BAKOTA-DP9036-1-12MAY2015.jpg</a>		May 12, 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\\_103460.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103460.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_103460.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103460.pdf)



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

Mn/DOT Name: BLAKE

NGS Name: BLAKE

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP9037](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096233/  
 USGS Quad: ELKTON SW

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	11	106 N	47 W	440005.23	962655.12	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2015	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

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

**Description:** (2015)                      **Stamping:** BLAKE 2015

7.0 MILES WEST OF PIPESTONE, 7.25 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 SOUTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 0.5, 66.0 FEET WEST OF TRUNK HIGHWAY 30, 1.5 FEET EAST OF A WITNESS POST.

**Station Pair:** BAKOTA - PIPESTONE, MN

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1608.835	0.016	490.374	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.528    12B = -85.518    09 = -85.426    03 = -85.289

Geodetic Position and Pipestone 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 00 05.22829	96 26 55.11623	447725.444	155581.138	136466.988	47421.226	464.296	2015	C	2015	GPS3109	
NAD83 (1996)	44 00 05.22804	96 26 55.11687	447725.397	155581.113	136466.974	47421.218	464.361	2015	C	2015	HWLSN	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/BLAKE-DP9037-3W-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/BLAKE-DP9037-3W-12MAY2015.jpg</a>	W	May 12, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/BLAKE-DP9037-2-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/BLAKE-DP9037-2-12MAY2015.jpg</a>		May 12, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/BLAKE-DP9037-1-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/BLAKE-DP9037-1-12MAY2015.jpg</a>		May 12, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_103472.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103472.pdf)



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

Mn/DOT Name: BR 59518

NGS Name: BR 59518

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	105 N	44 W	435330.00	960930.00		

<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>
1997	1997	GOOD	Horz=NO Vert=YES	NO	59518	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE WING WALL	SURVEY DISK	MN-117

**Description:** (1997)

**Stamping:**

1.5 MILES NORTHWEST OF EDGERTON, IN THE SOUTHEAST ABUTMENT OF 31ST STREET BRIDGE NUMBER 59518 OVER THE ROCK RIVER, 1.0 MILE NORTH ALONG COUNTY ROAD 17 FROM THE JUNCTION OF COUNTY ROAD 17 (4TH AVENUE) AND TRUNK HIGHWAY 268 IN EDGERTON, THEN 1.1 MILES WEST ON 31ST STREET.

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

Geoid Separations(ft): GEOID18 = -86.096 12B = -86.076 09 = -85.958 03 = -85.807

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_36678.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36678.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_36678.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36678.pdf)



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

Mn/DOT Name: BR 59526

NGS Name: BR 59526

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 44096233/  
 USGS Quad: ELKTON 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	13	107 N	47 W	440450.00	962650.00		

<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>
1997	1997	GOOD	Horz=NO Vert=YES	NO	59526	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE WING WALL	SEE DESCRIPTION	MN-117

**Description:** (1997)

**Stamping:**

8.3 MILES NORTHWEST OF PIPESTONE, IN THE EAST WING WALL AT THE SOUTHEAST CORNER OF 10TH AVENUE BRIDGE NUMBER 59526 OVER FLANDREAU CREEK, 5.8 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23, THEN 5.0 MILES NORTH ON COUNTY ROAD 13, THEN 1.0 MILE WEST ON 151ST STREET, THEN 0.9 MILE NORTH ON 10TH AVENUE.

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

Geoid Separations(ft): GEOID18 = -85.275 12B = -85.285 09 = -85.197 03 = -85.049

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_36571.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36571.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_36571.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36571.pdf)



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

Mn/DOT Name: BR 59532

NGS Name: BR 59532

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DO8144](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096143/  
 USGS Quad: JASPER

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	105 N	46 W	435221.50	962314.30	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>
1997	2010	GOOD	Horz=NO Vert=YES	YES	59532	FLUSH	NO MAG MATERIAL

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

**Description:** (1997)                      **Stamping:** BR 59532 1997

1.5 MILES NORTH-NORTHEAST OF JASPER, 0.5 MILE EAST ALONG COUNTY ROAD 1 FROM THE JUNCTION OF COUNTY ROAD 1 AND TRUNK HIGHWAY 23 IN JASPER, THEN 1.7 MILES NORTH ON 40TH AVENUE, IN THE SOUTHEAST CORNER WING WALL OF THE SOUTH ABUTMENT OF 40TH AVENUE BRIDGE NUMBER 59532 OVER SPLIT ROCK CREEK.

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	1565.998	0.016	477.317	0.005	2/1	2014	00000810

Geoid Separations(ft): GEOID18 = -86.040    12B = -86.027    09 = -85.925    03 = -85.764

\* 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/pipestone/BR_59532-DO8144-3NE-21DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/BR_59532-DO8144-3NE-21DEC2010.jpg</a>	NE	Dec 21, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/BR_59532-DO8144-2-21DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/BR_59532-DO8144-2-21DEC2010.jpg</a>		Dec 21, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/BR_59532-DO8144-1-21DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/BR_59532-DO8144-1-21DEC2010.jpg</a>		Dec 21, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_36677.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36677.pdf)



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

Mn/DOT Name: C 12

NGS Name: C 12

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0021](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096113/  
 USGS Quad: EDGERTON SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	105 N	44 W	435217.60	960748.00	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>
1931	2006	GOOD	Horz=YES Vert=YES	YES			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:** (1994)                      **Stamping:** 1573.376 C 12 1931

IN EDGERTON, 0.75 BLOCK WEST OF SOUTH MAIN STREET, 66.0 FEET EAST OF FIRST AVENUE, 47.6 FEET SOUTHEAST OF SOUTHWEST CORNER OF HOUSE NUMBER 950, 46.8 FEET SOUTHWEST OF SOUTHEAST CORNER OF HOUSE NUMBER 950, 29.0 FEET NORTH OF A DITCH.

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	1574.200	0.016	479.817	0.005	2/1	2010	00000425-38
NGVD29	1573.376	0.016	479.566	0.005	2/1	1996	VEDGE

Geoid Separations(ft): GEOID18 = -86.171    12B = -86.161    09 = -86.033    03 = -85.895

\* 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/pipestone/C_12-OQ0021-3N-12OCT2005.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_12-OQ0021-3N-12OCT2005.jpg</a>	N	Oct 12, 2005
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_12-OQ0021-2-12OCT2005.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_12-OQ0021-2-12OCT2005.jpg</a>		Oct 12, 2005
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_12-OQ0021-1-12OCT2005.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_12-OQ0021-1-12OCT2005.jpg</a>		Oct 12, 2005

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

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23638.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23638.pdf)



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

Mn/DOT Name: C 12 A

NGS Name: C 12 A

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DM3409](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096113/  
 USGS Quad: EDGERTON SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	105 N	44 W	435055.00	960917.00	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>
2005	2005	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 23 FT)	SURVEY DISK	MNDT

**Description:** (2005)                      **Stamping:** C 12 A 2005

2.0 MILES SOUTHWEST OF EDGERTON, 2.7 MILES WEST AND SOUTH ALONG COUNTY ROAD 1 FROM THE JUNCTION OF COUNTY ROAD 1 (MILL STREET) AND COUNTY ROAD 17 (SOUTH MAIN STREET) IN EDGERTON, 57.4 FEET NORTH OF COUNTY ROAD 1 (251 FIRST STREET), 4.5 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	1607.352	0.016	489.922	0.005	2/1	2010	00000425-38

Geoid Separations(ft): GEOID18 = -86.237 12B = -86.220 09 = -86.096 03 = -85.951

\* 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/pipestone/C_12_A-DM3409-3N-27OCT2005.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_12_A-DM3409-3N-27OCT2005.jpg</a>	N	Oct 27, 200
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_12_A-DM3409-2-27OCT2005.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_12_A-DM3409-2-27OCT2005.jpg</a>		Oct 27, 200
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_12_A-DM3409-1-27OCT2005.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_12_A-DM3409-1-27OCT2005.jpg</a>		Oct 27, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_53093.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_53093.pdf)





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

Mn/DOT Name: C 12 B

NGS Name: C 12 B

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DM3410](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096113/  
 USGS Quad: EDGERTON SOUTH

<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	105 N	44 W	435121.00	960840.00	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>
2005	2005	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 30 FT)	SURVEY DISK	MNDT

**Description:** (2005)                      **Stamping:** C 12 B 2005

1.5 MILES SOUTHWEST OF EDGERTON, 1.7 MILES WEST AND SOUTH ALONG COUNTY ROAD 1 FROM THE JUNCTION OF COUNTY ROAD 1 (MILL STREET) AND COUNTY ROAD 17 (SOUTH MAIN STREET) IN EDGERTON, 43.3 FEET EAST OF COUNTY ROAD 1, 16.6 FEET SOUTH OF A FIELD ENTRANCE, 0.9 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	1553.442	0.016	473.490	0.005	2/1	2010	00000425-38

Geoid Separations(ft): GEOID18 = -86.220    12B = -86.207    09 = -86.079    03 = -85.938

\* 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/pipestone/C_12_B-DM3410-3E-27OCT2005.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_12_B-DM3410-3E-27OCT2005.jpg</a>	E	Oct 27, 200
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_12_B-DM3410-2-27OCT2005.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_12_B-DM3410-2-27OCT2005.jpg</a>		Oct 27, 200
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_12_B-DM3410-1-27OCT2005.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_12_B-DM3410-1-27OCT2005.jpg</a>		Oct 27, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_53094.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_53094.pdf)



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

Mn/DOT Name: C 380

NGS Name: C 380

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR1155](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096233/  
 USGS Quad: ELKTON SW

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	11	106 N	47 W	440033.80	962654.63	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1990	2015	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
STEEL ROD (NO SLEEVE) (DEPTH 16 FT)	METAL ROD	NGS

Description: (2005)                      **Stamping:** C 380 1990

8.0 MILES WEST OF PIPESTONE, 7.75 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 SOUTH IN PIPESTONE, TO TRUNK HIGHWAY 30 MILEPOST 0.0, THEN 0.3 MILE NORTH AND EAST ALONG 111TH STREET, 36.1 FEET NORTH OF 111TH STREET, 36.1 FEET WEST OF 10TH AVENUE, 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	1626. 470 0. 016	495. 749 0. 005	2/1	2017 00000903

Geoid Separations(ft): GEOID18 = -85.499 12B = -85.495 09 = -85.400 03 = -85.262

Geodetic Position and Pipestone 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 00 33. 80372	96 26 54. 63014	447767. 943	158474. 866	136479. 942	48303. 236	469. 690		2015	GPS3109
NAD83 (2007)	44 00 33. 80366	96 26 54. 63108	447767. 875	158474. 861	136479. 921	48303. 234	469. 720		2007	GPS2300
NAD83 (1996)	44 00 33. 80328	96 26 54. 63034	447767. 929	158474. 822	136479. 938	48303. 222	469. 753	C	2015	HWLSN

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_380-PR1155-3N-29APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_380-PR1155-3N-29APR2015.jpg</a>	N	Apr 29, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_380-PR1155-2-29APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_380-PR1155-2-29APR2015.jpg</a>		Apr 29, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_380-PR1155-1-29APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_380-PR1155-1-29APR2015.jpg</a>		Apr 29, 2015

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

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

Mn/DOT Name: C 382

NGS Name: C 382

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: <a href="#">PR1163</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096232/	
USGS Quad: PIPESTONE NORTH	

<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	106 N	45 W	440045.03	961707.40	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	2011	GOOD	Horz=NO Vert=NO	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (NO SLEEVE) (DEPTH 20 FT)	METAL ROD	NGS

**Description:** (2001)                      **Stamping:** C 382 1990

1.6 MILES NORTHEAST OF PIPESTONE, 1.3 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE NORTHERN JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 75 AT PIPESTONE, AT TRUNK HIGHWAY 23 MILEPOINT 31.8, 149.3 FEET NORTHWEST OF TRUNK HIGHWAY 23, 47.9 FEET NORTHWEST OF THE NORTHWEST RAIL OF THE RAILROAD TRACKS, 34.4 FEET WEST OF 90TH AVENUE, 3.0 FEET SOUTHWEST OF THE NORTHEAST END OF A FENCE, 1.3 FEET 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 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	1744.248	0.007	531.648	0.002	1/2	1991	00000025

Geoid Separations(ft): GEOID18 = -85.571 12B = -85.561 09 = -85.466 03 = -85.305

Geodetic Position and Pipestone 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 00 45.02548	96 17 07.39553	490689.186	159550.416	149562.363	48631.064	505.562			2012	GPS2800	
NAD83 (2007)	44 00 45.02542	96 17 07.39646	490689.118	159550.410	149562.342	48631.062	505.591			2007	GPS2300	
NAD83 (1996)	44 00 45.02512	96 17 07.39515	490689.214	159550.379	149562.372	48631.053	505.637	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/pipestone/C_382-PR1163-3NW-06DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_382-PR1163-3NW-06DEC2010.jpg</a>	NW	Dec 6, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_382-PR1163-2-06DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_382-PR1163-2-06DEC2010.jpg</a>		Dec 6, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_382-PR1163-1-06DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_382-PR1163-1-06DEC2010.jpg</a>		Dec 6, 2010

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

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- Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23639.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23639.pdf)



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

Mn/DOT Name: C 388

NGS Name: C 388

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: <a href="#">OQ1063</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 43096141/	
USGS Quad: PIPESTONE SOUTH	

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	5	105 N	45 W	435518.26	961555.01	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1990	2021	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
STEEL ROD (IN SLEEVE) (DEPTH 17 FT)	METAL ROD	NGS

**Description:** (1990)                      **Stamping:** C 388 1990

5.5 MILES SOUTHEAST OF PIPESTONE, 5.4 MILES SOUTHEAST ALONG TRUNK HIGHWAY 75 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 30.35, 123.7 FEET NORTH OF COUNTY ROAD 2 EAST EXTENDED, 72.2 FEET WEST OF TRUNK HIGHWAY 75, 9.5 FEET SOUTH OF A POWER POLE WITH 3 GUY WIRES, 1.0 FOOT 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	1759.153	0.016	536.191	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.905    12B = -85.879    09 = -85.774    03 = -85.610

Geodetic Position and Pipestone 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)	43 55 18.25885	96 15 55.00976	495973.431	126457.469	151173.004	38544.314	5100000	2014	GPS3047			
NAD83 (1996)	43 55 18.25842	96 15 55.00993	495973.418	126457.425	1511730000	38544.300	510.067	C	2011	HTH75		

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_388-OQ1063-3W-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_388-OQ1063-3W-04MAY2021.jpg</a>	W	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_388-OQ1063-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_388-OQ1063-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_388-OQ1063-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/C_388-OQ1063-1-04MAY2021.jpg</a>		May 4, 2021

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

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 Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23640.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23640.pdf)



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

Mn/DOT Name: CAZE

NGS Name: CAZE

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8909](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	107 N	45 W	440307.01	961825.78	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>
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 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2010)                      **Stamping:** CAZE 2010

3.4 MILES NORTH OF PIPESTONE, 3.4 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 39.95, 120.0 FEET EAST OF TRUNK HIGHWAY 75, 69.0 FEET SOUTH OF 141ST STREET, 44.0 FEET EAST OF A CABLE MARKER, 3.0 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	1751.502	0.016	533.859	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.410    12B = -85.410    09 = -85.325    03 = -85.177

Geodetic Position and Pipestone 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 03 07.01159	96 18 25.78230	484970.189	173932.574	147819.209	53014.755	507.832			2014	GPS3047	
NAD83 (1996)	44 03 07.01117	96 18 25.78232	484970.188	173932.531	147819.209	53014.742	507.902	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/pipestone/CAZE-DN8909-3E-29DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/CAZE-DN8909-3E-29DEC2010.jpg</a>	E	Dec 29, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/CAZE-DN8909-2-29DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/CAZE-DN8909-2-29DEC2010.jpg</a>		Dec 29, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/CAZE-DN8909-1-29DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/CAZE-DN8909-1-29DEC2010.jpg</a>		Dec 29, 2010

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

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

Mn/DOT Name: CHURCH SPIRE NE OF JASPER

NGS Name: CHURCH SPIRE NE OF JASPER

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0696](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096142/1022  
 USGS Quad: JASPER 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	35	105 N	46 W	435145.16	962048.70		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			SEE DESCRIPTION
<u>Monument Type</u>				<u>Disk Type</u>			
BLANK				CHURCH SPIRE			
				<u>Mon. Agency</u>			
				NGS			

**Description:** (1935)

**Stamping:**

2.8 MILES NORTHEAST OF JASPER, 2.6 MILES EAST ALONG COUNTY ROAD 1 FROM THE JUNCTION OF TRUNK COUNTY ROAD 1 AND TRUNK HIGHWAY 23 IN JASPER, THEN 0.9 MILE NORTH ON COUNTY ROAD 55, AT THE SOUTHEAST JUNCTION OF TWO SECTION LINE ROADS, SOUTH OF A CEMETERY.

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

Geoid Separations(ft): GEOID18 = -86.083 12B = -86.066 09 = -85.961 03 = -85.797

Geodetic Position and Pipestone 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)	43 51 45.15888	96 20 48.70486	474450.381	104891.929	144612.765	31971.124		4	1999	17648		
NAD83 (1986)	43 51 45.16083	96 20 48.68624	474451.746	104892.125	144613.181	31971.184		4	1986	17289		
NAD27	43 51 45.26000	96 20 47.56000						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\\_23641.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23641.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23641.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23641.pdf)



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

Mn/DOT Name: CLANCY

NGS Name: CLANCY

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP9038](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	106 N	45 W	435938.47	961616.77	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	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 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2015)                      **Stamping:** CLANCY 2015

1.5 MILES EAST OF PIPESTONE, 1.5 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 SOUTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 9.75, 40.3 FEET SOUTH OF TRUNK HIGHWAY 30, 72.6 FEET EAST OF A FIELD ENTRANCE, 1.5 FEET NORTH OF A WITNESS POST.

**Station Pair:** 5904 S - PIPESTONE, 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	1756.883	0.016	535.499	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.640 12B = -85.626 09 = -85.531 03 = -85.364

Geodetic Position and Pipestone 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)	43 59 38.46989	96 16 16.76937	494387.500	152809.087	150689.611	46576.303	509.404			2015	GPS3109	
NAD83 (1996)	43 59 38.46965	96 16 16.77004	494387.451	152809.063	150689.597	46576.296	509.469	C		2015	HWLSN	

**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/pipestone/CLANCY-DP9038-3S-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/CLANCY-DP9038-3S-12MAY2015.jpg</a>	S	May 12, 2015
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/CLANCY-DP9038-2-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/CLANCY-DP9038-2-12MAY2015.jpg</a>		May 12, 2015
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/CLANCY-DP9038-1-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/CLANCY-DP9038-1-12MAY2015.jpg</a>		May 12, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_103462.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103462.pdf)



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

Mn/DOT Name: COBORNS

NGS Name: COBORNS

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP9039](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	14	106 N	46 W	435938.73	962002.17	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>
2015	2015	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 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2015)                      **Stamping:** COBORNS 2015

1.1 MILES WEST OF PIPESTONE, 1.1 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 SOUTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 6.65, 75.0 FEET SOUTH OF TRUNK HIGHWAY 30, 8.0 FEET WEST-SOUTHWEST OF A POWER POLE, 1.0 FOOT NORTH OF A WITNESS POST.

**Station Pair:** KLOH - PIPESTONE, 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	1702.805	0.016	519.016	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.636    12B = -85.630    09 = -85.531    03 = -85.364

Geodetic Position and Pipestone 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)	43 59 38.72814	96 20 02.16686	477909.039	152845.758	145666.967	46587.480	492.914			2015	GPS3109	
NAD83 (1996)	43 59 38.72790	96 20 02.16753	477908.990	152845.734	145666.952	46587.473	492.981	C		2015	HWLSN	

**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/pipestone/COBORNS-DP9039-3S-29APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/COBORNS-DP9039-3S-29APR2015.jpg</a>	S	Apr 29, 2015
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/COBORNS-DP9039-2-29APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/COBORNS-DP9039-2-29APR2015.jpg</a>		Apr 29, 2015
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/COBORNS-DP9039-1-29APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/COBORNS-DP9039-1-29APR2015.jpg</a>		Apr 29, 2015

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

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

Mn/DOT Name: COR MNDT TEMP

NGS Name: COR TEMP

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0647](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096111/  
 USGS Quad: EDGERTON 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	1	105 N	44 W	435542.63	960413.06		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	1980	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (<10 FT)	UNMONUMENTED	MNDT

**Description:** (1980)                      **Stamping:** COR 1980

4.5 MILES NORTHEAST OF EDGERTON, 2.3 MILES EAST AND NORTH ALONG COUNTY ROAD 18 FROM THE JUNCTION OF COUNTY ROAD 18 AND TRUNK HIGHWAY 268 IN EDGERTON, THEN 1.0 MILE EAST ON COUNTY ROAD 2, THEN 1.9 MILES NORTH ON 190TH AVENUE, THEN 0.7 MILE EAST ON 56TH STREET, 10.0 FEET SOUTH OF COUNTY ROAD 64 (EAST-WEST GRAVEL ROAD), 141.0 FEET WEST OF A FARM ENTRANCE, 133.22 FEET WEST-SOUTHWEST OF A MINNESOTA DEPARTMENT OF TRANSPORTATION NAIL AND DISK IN A CABLE MARKER POST.

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

Geoid Separations(ft): GEOID18 = -85.987    12B = -85.958    09 = -85.853    03 = -85.758

Geodetic Position and Pipestone 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)	43 55 42.63324	96 04 13.06202	547348.733	128977.045	166832.228	39312.282	509.048	2	1999	17648
NAD83 (1986)	43 55 42.63172	96 04 13.04544	547349.947	128976.894	166832.597	39312.236		2	1986	17289
NAD27	43 55 42.74692	96 04 11.97021						2	1982	16710

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

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

Mn/DOT Name: D 380

NGS Name: D 380

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR1156](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096233/  
 USGS Quad: ELKTON 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	12	106 N	47 W	440032.74	962542.37	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1990	2015	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (NO SLEEVE) (DEPTH 26 FT)	METAL ROD	NGS

**Description:** (2001)                      **Stamping:** D 380 1990

5.1 MILES WEST OF PIPESTONE, 4.9 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND COUNTY ROAD 15/8TH AVENUE SOUTHWEST IN PIPESTONE TO TRUNK HIGHWAY 30 MILEPOINT 1.9, THEN 1.0 MILE NORTH ALONG COUNTY ROAD 13(20TH AVENUE), 49.5 FEET WEST OF COUNTY ROAD 13(20TH AVENUE), 41.7 FEET SOUTH OF COUNTY ROAD 5(111TH STREET), 3.3 FEET SOUTH OF A FENCE CORNER, 1.0 FOOT EAST OF A NORTHEAST FENCE CORNER AND 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	1634.780	0.016	498.282	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.528    12B = -85.521    09 = -85.423    03 = -85.279

\* 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/pipestone/D_380-PR1156-3W-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/D_380-PR1156-3W-13JUN2012.jpg</a>	W	Jun 13, 2012
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/D_380-PR1156-2-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/D_380-PR1156-2-13JUN2012.jpg</a>		Jun 13, 2012
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/D_380-PR1156-1-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/D_380-PR1156-1-13JUN2012.jpg</a>		Jun 13, 2012

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_40254.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40254.pdf)



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

Mn/DOT Name: D 382

NGS Name: D 382

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR1164](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	33	107 N	45 W	440213.56	961510.91	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1990	2014	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

Monument Type	Disk Type	Mon. Agency
STEEL ROD (NO SLEEVE) (DEPTH 32 FT)	METAL ROD	NGS

Description: (2001)                      **Stamping:** D 382 1990

4.0 MILES NORTHEAST OF PIPESTONE, 3.7 MILES NORTHEAST ON TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 75 AT PIPESTONE, AT TRUNK HIGHWAY 23 MILEPOINT 34.2, 100.7 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 155.8 FEET SOUTH OF COUNTY ROAD 6 (131ST), 25.3 FEET SOUTHWEST OF A GATE, 1.48 FEET NORTHWEST OF A FENCE, 1.3 FEET NORTH-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	1737.519	0.016	529.597	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.502    12B = -85.489    09 = -85.403    03 = -85.256

Geodetic Position and Pipestone 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 02 13.56425	96 15 10.90956	499202.995	168514.750	152157.377	51363.399	503.515			2014	GPS3026	
NAD83 (2007)	44 02 13.56419	96 15 10.91050	499202.926	168514.744	152157.356	51363.397	503.545			2007	GPS2300	
NAD83 (1996)	44 02 13.56384	96 15 10.90958	499202.993	168514.708	152157.377	51363.386	503.590	C		2014	HRUTH	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/D_382-PR1164-3SE-06DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/D_382-PR1164-3SE-06DEC2010.jpg</a>	SE	Dec 6, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/D_382-PR1164-2-06DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/D_382-PR1164-2-06DEC2010.jpg</a>		Dec 6, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/D_382-PR1164-1-06DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/D_382-PR1164-1-06DEC2010.jpg</a>		Dec 6, 2010

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23644.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23644.pdf)



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

Mn/DOT Name: D 388

NGS Name: D 388

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ1062](#) [Get Map](#)  
NGS Quad / Sta Num : 43096141/  
USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	106 N	45 W	435635.50	961610.87	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>
1990	2011	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (NO SLEEVE) (DEPTH 17 FT)	METAL ROD	NGS

**Description:** (1990)                      **Stamping:** D 388 1990

4.0 MILES SOUTH OF PIPESTONE, 3.85 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, 215.6 FEET SOUTH OF A POWER POLE NUMBER 344, 74.1 FEET WEST OF TRUNK HIGHWAY 75, 21.7 FEET NORTH OF A FIELD ENTRANCE, 9.8 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	1764.793	0.016	537.910	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.823 12B = -85.800 09 = -85.699 03 = -85.531

Geodetic Position and Pipestone 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)	43 56 35.50095	96 16 10.87339	494814.123	134279.900	150819.646	40928.595	511.742	2014	C	GPS3047		
NAD83 (1996)	43 56 35.50047	96 16 10.87349	494814.116	134279.851	150819.644	40928.581	511.807	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/pipestone/D_388-OQ1062-3W-14DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/D_388-OQ1062-3W-14DEC2010.jpg</a>	W	Dec 14, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/D_388-OQ1062-2-14DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/D_388-OQ1062-2-14DEC2010.jpg</a>		Dec 14, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/D_388-OQ1062-1-14DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/D_388-OQ1062-1-14DEC2010.jpg</a>		Dec 14, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23645.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23645.pdf)



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

Mn/DOT Name: E 380

NGS Name: E 380

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR1157](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096233/  
 USGS Quad: ELKTON 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	106 N	46 W	440032.00	962351.00	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>
1990	2012	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:** (2001)                      **Stamping:** E 380 1990

3.6 MILES WEST OF PIPESTONE, 2.5 MILES WEST ALONG COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 5 AND COUNTY ROAD 15 IN PIPESTONE, 408.1 FEET EAST OF THE NORTHEAST CORNER OF A BRIDGE SPANNING NORTH BRANCH CREEK, 75.1 FEET NORTH OF COUNTY ROAD 5, 50.2 FEET NORTHWEST OF A FENCE CORNER, 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	1616.916	0.007	492.837	0.002	1/2	1991	00000025

Geoid Separations(ft): GEOID18 = -85.564    12B = -85.558    09 = -85.459    03 = -85.305

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_40257.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40257.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_40257.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40257.pdf)



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

Mn/DOT Name: E 382

NGS Name: E 382

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR1165](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	22	107 N	45 W	440307.96	961407.31	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1990	2014	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

Monument Type	Disk Type	Mon. Agency
STEEL ROD (IN SLEEVE) (DEPTH 24 FT)	METAL ROD	NGS

Description: (2001)                      **Stamping:** E 382 1990

4.9 MILES NORTHWEST OF PIPESTONE, 4.9 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE NORTHERN JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 75 IN PIPESTONE, AT TRUNK HIGHWAY 23 MILEPOINT 35.55, 167.3 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 46.9 FEET NORTH OF 141ST STREET, 15.4 FEET NORTHWEST OF THE SOUTHEAST END OF A FENCE AND A RIGHT-OF-WAY POST, 1.3 FEET SOUTHWEST OF A WITNESS POST AND A FENCE.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1745.472	0.016	532.021	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.472    12B = -85.466    09 = -85.380    03 = -85.239

Geodetic Position and Pipestone 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 03 07.96493	96 14 07.30812	503848.463	174024.251	153573.319	53042.698	505.944			2014	GPS3026	
NAD83 (2007)	44 03 07.96487	96 14 07.30907	503848.393	174024.245	153573.297	53042.696	505.973			2007	GPS2300	
NAD83 (1996)	44 03 07.96460	96 14 07.30819	503848.458	174024.218	153573.317	53042.688	506.018	C		2014	HRUTH	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/E_382-PR1165-3E-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/E_382-PR1165-3E-09APR2014.jpg</a>	E	Apr 9, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/E_382-PR1165-2-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/E_382-PR1165-2-09APR2014.jpg</a>		Apr 9, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/E_382-PR1165-1-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/E_382-PR1165-1-09APR2014.jpg</a>		Apr 9, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23646.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23646.pdf)



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

Mn/DOT Name: E 388

NGS Name: E 388

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ1061](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

				<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	20	106 N	45 W	435800.52	961656.15	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>
1990	2011	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (NO SLEEVE) (DEPTH 17 FT)	METAL ROD	NGS

**Description:** (1990)                      **Stamping:** E 388 1990

2.1 MILES SOUTHEAST OF PIPESTONE, 2.1 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, 0.1 MILE NORTH OF THE JUNCTION OF TRUNK HIGHWAY 75 AND COUNTY ROAD 4, AT TRUNK HIGHWAY 75 MILEPOINT 33.55, 73.8 FEET WEST OF TRUNK HIGHWAY 75, 65.3 FEET SOUTH OF THE EAST END OF A 24.0 INCH DIAMETER CULVERT, 11.8 FEET NORTH OF A POWER POLE NUMBER 373, 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	1752.339	0.016	534.114	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.738    12B = -85.718    09 = -85.620    03 = -85.449

Geodetic Position and Pipestone 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)	43 58 00.51900	96 16 56.15096	491504.486	142890.616	149810.867	43553.147	507.981	2014	C	GPS3047		
NAD83 (1996)	43 58 00.51831	96 16 56.15101	491504.483	142890.547	149810.866	43553.126	508.042	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/pipestone/E_388-OQ1061-3W-14DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/E_388-OQ1061-3W-14DEC2010.jpg</a>	W	Dec 14, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/E_388-OQ1061-2-14DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/E_388-OQ1061-2-14DEC2010.jpg</a>		Dec 14, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/E_388-OQ1061-1-14DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/E_388-OQ1061-1-14DEC2010.jpg</a>		Dec 14, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23647.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23647.pdf)



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

Mn/DOT Name: EDEN SE

NGS Name: EDEN SE

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DH3134](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096142/  
 USGS Quad: JASPER 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	105 N	46 W	435056.52	961829.45		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2003	2021	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MN-117

**Description:** (2005)                      **Stamping:** EDEN SE 2003

4.5 MILES EAST OF JASPER, 4.6 MILES EAST ALONG COUNTY ROAD 1 FROM THE JUNCTION OF COUNTY ROAD 1 AND TRUNK HIGHWAY 23 IN JASPER, AT TRUNK HIGHWAY 23 MILEPOINT 18.6, 17.5 FEET WEST OF A FIELD ENTRANCE, 48.0 FEET NORTH OF 1ST STREET (COUNTY ROAD 1), 0.7 FOOT SOUTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -86.132    12B = -86.109    09 = -86.000    03 = -85.840

Geodetic Position and Pipestone 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)	43 50 56.51530	96 18 29.44806	484650.254	99956.3310	147721.693	30466.751	503.874			2014	GPS3047	
NAD83 (2007)	43 50 56.51531	96 18 29.44925	484650.167	99956.3320	147721.666	30466.751	503.908			2007	GPS2300	
NAD83 (1996)	43 50 56.51475	96 18 29.44845	484650.226	99956.2750	147721.684	30466.734	503.939	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/pipestone/EDEN_SE-DH3134-3N-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/EDEN_SE-DH3134-3N-04MAY2021.jpg</a>	N	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/EDEN_SE-DH3134-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/EDEN_SE-DH3134-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/EDEN_SE-DH3134-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/EDEN_SE-DH3134-1-04MAY2021.jpg</a>		May 4, 2021

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_50720.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_50720.pdf)





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

Mn/DOT Name: EDEN WEST

NGS Name: EDEN WEST

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DH3135](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096144/  
 USGS Quad: JASPER 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	24	105 N	47 W	435334.68	962651.30		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2003	2021	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	MN-117

**Description:** (2005)                      **Stamping:** EDEN WEST 2003

4.0 MILES WEST-SOUTHWEST OF IHLEN, 3.85 MILES WEST ALONG COUNTY ROAD 2 FROM THE JUNCTION OF COUNTY ROAD 2 AND TRUNK HIGHWAY 23 IN IHLEN, THEN 1.0 MILE SOUTH ALONG 10TH AVENUE (MINIMUM MAINTENANCE ROAD), 37.0 FEET SOUTH OF 31ST STREET, 28.0 FEET EAST OF 10TH AVENUE, 1.0 FOOT NORTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.905    12B = -85.895    09 = -85.797    03 = -85.659

Geodetic Position and Pipestone 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)	43 53 34.68492	96 26 51.29895	447909.713	116030.776	136523.154	35366.251	464.335		2012	GPS2800
NAD83 (2007)	43 53 34.68485	96 26 51.29988	447909.646	116030.769	136523.133	35366.249	464.366		2007	GPS2300
NAD83 (1996)	43 53 34.68418	96 26 51.29913	447909.700	116030.701	136523.150	35366.228	464.404	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/pipestone/EDEN_WEST-DH3135-3S-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/EDEN_WEST-DH3135-3S-04MAY2021.jpg</a>	S	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/EDEN_WEST-DH3135-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/EDEN_WEST-DH3135-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/EDEN_WEST-DH3135-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/EDEN_WEST-DH3135-1-04MAY2021.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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_50721.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_50721.pdf)



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

Mn/DOT Name: EDGERTON WATER TANK

NGS Name: EDGERTON WATER TANK

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0652](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096113/  
 USGS Quad: EDGERTON SOUTH

<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	28	105 N	44 W	435224.53	960749.50		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>
1927	1981	GOOD	Horz=? Vert=?	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	ELEVATED TANK	MNDT

**Description:** (1981)

**Stamping:**

IN THE CENTER OF EDGERTON, 3.0 BLOCKS SOUTH ALONG 4TH AVENUE FROM THE JUNCTION OF 4TH AVENUE AND TRUNK HIGHWAY 268 IN EDGERTON, THEN 3.0 BLOCKS EAST ON MAPLE STREET, AT THE SOUTHWEST CORNER OF MAPLE STREET AND 1ST STREET.

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

Geoid Separations(ft): GEOID18 = -86.168 12B = -86.155 09 = -86.027 03 = -85.889

Geodetic Position and Pipestone 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)	43 52 24. 52703	96 07 49. 50194	531536. 824	108886. 505	162012. 748	33188. 673		4	1999	17648
NAD83 (1986)	43 52 24. 52552	96 07 49. 48422	531538. 123	108886. 354	162013. 144	33188. 627		4	1986	17289
NAD27	43 52 24. 63529	96 07 48. 39389						4	1982	16710

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23648.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23648.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23648.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23648.pdf)



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

Mn/DOT Name: ELMER NW

NGS Name: ELMER NW

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DH3136](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	6	105 N	45 W	435607.81	961825.76		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>
2003	2021	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)	REFERENCE MARK DISK	MN-117

**Description:** (2003)                      **Stamping:** ELMER NW 2003

4.0 MILES SOUTH OF PIPESTONE, 4.0 MILES SOUTH ALONG COUNTY ROAD 56 FROM THE JUNCTION OF COUNTY ROAD 56 AND TRUNK HIGHWAY 30 IN PIPESTONE, 47.0 FEET EAST OF 80TH AVENUE, 149.0 FEET SOUTH OF 61ST STREET, 0.7 FOOT WEST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.859    12B = -85.833    09 = -85.731    03 = -85.564

Geodetic Position and Pipestone 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)	43 56 07.80715	96 18 25.76260	484942.201	131479.989	147810.679	40075.181	499.245		2014	GPS3047
NAD83 (2007)	43 56 07.80710	96 18 25.76356	484942.131	131479.984	147810.657	40075.179	499.276		2007	GPS2300
NAD83 (1996)	43 56 07.80671	96 18 25.76281	484942.186	131479.945	147810.674	40075.167	499.310	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/pipestone/ELMER_NW-DH3136-3E-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ELMER_NW-DH3136-3E-04MAY2021.jpg</a>	E	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ELMER_NW-DH3136-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ELMER_NW-DH3136-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ELMER_NW-DH3136-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ELMER_NW-DH3136-1-04MAY2021.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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_50722.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_50722.pdf)



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

Mn/DOT Name: ET 1 RLM

NGS Name: ET 1 RLM

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0810](#) [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	29	108 N	46 W	440823.24	962413.23		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>
1965	1965	GOOD	Horz=? 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	USGS

**Description:** (1965)

**Stamping:** ET 1 RLM 1965

10.1 MILES NORTHWEST OF PIPESTONE, 11.9 MILES NORTH AND WEST ALONG COUNTY ROAD 15 FROM THE JUNCTION OF COUNTY ROAD 15 (8TH AVENUE) AND TRUNK HIGHWAY 30 IN PIPESTONE, THEN 1.8 MILES WEST ALONG COUNTY ROAD 74, 16.0 FEET SOUTH OF AN EAST-WEST ROAD, 9.0 FEET EAST OF A SOUTH FIELD ENTRANCE, 18.0 FEET NORTH AND 1.0 FOOT WEST OF A WITNESS MARK.

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

Geoid Separations(ft): GEOID18 = -85.006 12B = -85.020 09 = -84.941 03 = -84.803

Geodetic Position and Pipestone 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 08 23. 24173	96 24 13. 23058	459653. 165	205990. 008	140102. 565	62785. 880	500. 226	3	1999	17648		
NAD83 (1986)	44 08 23. 24200	96 24 13. 21142	459654. 563	205990. 033	140102. 991	62785. 888		3	1986	17289		
NAD27	44 08 23. 35020	96 24 12. 06630						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\\_51814.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_51814.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_51814.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_51814.pdf)



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

Mn/DOT Name: ET 2 FMT

NGS Name: ET 2 FMT

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0790](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096222/  
 USGS Quad: WOODSTOCK

<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	106 N	44 W	440029.29	960715.06		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	2015	GOOD	Horz=NO Vert=YES	YES		PROJECTS 3 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:** (1965)                      **Stamping:** ET 2 FMT 1965

0.8 MILE WEST OF WOODSTOCK, 0.85 MILE WEST ALONG 111TH STREET FROM THE JUNCTION OF 111TH STREET AND COUNTY ROAD 18 IN WOODSTOCK, 48.0 FEET SOUTH OF COUNTY ROAD 67(111TH STREET), 1.0 FEET WEST OF A WITNESS POST.

**Station Notes**

THE HORIZONTAL POSITION WAS DESTROYED BY THE HIGHWAY DEPARTMENT (1965).

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

Geoid Separations(ft): GEOID18 = -85.715    12B = -85.695    09 = -85.600    03 = -85.466

**Geodetic Position and Pipestone 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 00 29.29441	96 07 15.06258	533982.841	157981.950	162758.295	48152.995	522.526	3	1999	17648		
NAD83 (1986)	44 00 29.29316	96 07 15.04592	533984.059	157981.826	162758.667	48152.957		3	1986	17289		
NAD27	44 00 29.41109	96 07 13.93864						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/pipestone/ET_2_FMT-PR0790-3S-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ET_2_FMT-PR0790-3S-28APR2015.jpg</a>	S	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ET_2_FMT-PR0790-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ET_2_FMT-PR0790-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ET_2_FMT-PR0790-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ET_2_FMT-PR0790-1-28APR2015.jpg</a>		Apr 28, 2015

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_51815.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_51815.pdf)



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

Mn/DOT Name: ET 3 FMT

NGS Name: ET 3 FMT

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0650](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096112/  
 USGS Quad: KENNETH

<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	27	105 N	44 W	435214.15	960659.12		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>
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)	SURVEY DISK	USGS

**Description:** (1965)                      **Stamping:** ET 3 FMT 1965 1614

0.25 MILE EAST OF EDGERTON, 0.5 MILE SOUTH ALONG COUNTY ROAD 18 FROM THE JUNCTION OF COUNTY ROAD 18 AND TRUNK HIGHWAY 268 IN EDGERTON, 43.0 FEET NORTH OF COUNTY ROAD 1, 454.0 FEET WEST OF THE JUNCTION OF COUNTY ROAD 1 AND COUNTY ROAD 18, 3.0 FEET SOUTH AND 1.0 FOOT EAST OF A SURVEY MARKER.

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

Geoid Separations(ft): GEOID18 = -86.178    12B = -86.168    09 = -86.037    03 = -85.905

Geodetic Position and Pipestone 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)	43 52 14. 14798	96 06 59. 12152	535229. 222	107841. 111	163138. 193	32870. 036	465. 806	3	1999	17648
NAD83 (1986)	43 52 14. 14684	96 06 59. 10590	535230. 367	107840. 997	163138. 542	32870. 002		3	1986	17289
NAD27	43 52 14. 26499	96 06 58. 00608						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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23649.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23649.pdf)



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

Mn/DOT Name: F 380

NGS Name: F 380

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR1160](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	106 N	46 W	440031.00	962017.00	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>
1990	2012	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:** (2001)                      **Stamping:** F 380 1990

IN PIPESTONE, 1.4 MILES NORTH AND WEST ALONG COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 5 AND TRUNK HIGHWAY 30 IN PIPESTONE, 52.8 FEET NORTHWEST OF A POWER POLE, 48.9 FEET NORTH OF COUNTY ROAD 5, 40.0 FEET WEST OF A FIELD ENTRANCE, 1.0 FOOT SOUTH OF A FENCE AND 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	1693.205	0.007	516.090	0.002	1/2	1991	00000025

Geoid Separations(ft): GEOID18 = -85.590 12B = -85.581 09 = -85.489 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\\_40256.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40256.pdf)

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

Mn/DOT Name: F 382

NGS Name: F 382

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR1166](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	107 N	45 W	440400.14	961312.85	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>
1990	2014	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (NO SLEEVE) (DEPTH 44 FT)	METAL ROD	NGS

**Description:** (2001)                      **Stamping:** F 382 1990

2.3 MILES SOUTHWEST OF HOLLAND, 2.35 MILES SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 16 IN HOLLAND, AT TRUNK HIGHWAY 23 MILEPOINT 36.85, 178.5 FEET NORTHWEST OF TRUNK HIGHWAY 23, 69.6 FEET NORTHWEST OF THE NORTHWEST RAIL OF THE RAILROAD TRACKS, 59.0 FEET NORTHEAST OF THE CORNER OF A BOX CULVERT, 45.0 FEET NORTH OF COUNTY ROAD 7, 27.9 FEET WEST OF A FENCE CORNER, 1.0 FOOT SOUTH OF A FENCE AND 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	1752. 818	0. 016	534. 260	0. 005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.459 12B = -85.456 09 = -85.364 03 = -85.233

Geodetic Position and Pipestone 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 04 00. 14478	96 13 12. 85222	507823. 857	179309. 606	154785. 021	54653. 677	508. 210			2014	GPS3026	
NAD83 (2007)	44 04 00. 14472	96 13 12. 85317	507823. 787	179309. 600	1547850000	54653. 675	508. 239			2007	GPS2300	
NAD83 (1996)	44 04 00. 14456	96 13 12. 85229	507823. 852	179309. 584	154785. 020	54653. 671	508. 282	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/pipestone/F_382-PR1166-3NW-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/F_382-PR1166-3NW-09APR2014.jpg</a>	NW	Apr 9, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/F_382-PR1166-2-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/F_382-PR1166-2-09APR2014.jpg</a>		Apr 9, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/F_382-PR1166-1-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/F_382-PR1166-1-09APR2014.jpg</a>		Apr 9, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23650.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23650.pdf)





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

Mn/DOT Name: F 388

NGS Name: F 388

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ1060](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

				<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	18	106 N	45 W	435937.13	961802.05	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>
1990	2015	GOOD	Horz=NO Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (NO SLEEVE) (DEPTH 18 FT)	METAL ROD	NGS

**Description:** (1990)                      **Stamping:** F 388 1990

IN PIPESTONE, AT THE EAST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30, 144.4 FEET EAST OF SWANNY'S SUPPER CLUB, 142.1 FEET SOUTH OF TRUNK HIGHWAY 30, 77.1 FEET SOUTHWEST OF TRUNK HIGHWAY 75, 3.9 FEET NORTH-NORTHWEST OF A POWER POLE WITH A GUY WIRE.

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	1737.287	0.016	529.526	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.636 12B = -85.626 09 = -85.528 03 = -85.361

Geodetic Position and Pipestone 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)	43 59 37.12611	96 18 02.05013	486690.490	152676.359	148343.558	46535.847	503.423	2014	C	GPS3047		
NAD83 (1996)	43 59 37.12562	96 18 02.05031	486690.477	152676.309	148343.554	46535.832	503.481	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/pipestone/F_388-OQ1060-3SW-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/F_388-OQ1060-3SW-28APR2015.jpg</a>	SW	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/F_388-OQ1060-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/F_388-OQ1060-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/F_388-OQ1060-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/F_388-OQ1060-1-28APR2015.jpg</a>		Apr 28, 2015

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23651.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23651.pdf)



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

Mn/DOT Name: FORT

NGS Name: FORT

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8921](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	29	106 N	45 W	435747.86	961645.40	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		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:** (2011)                      **Stamping:** FORT 2011

2.75 MILES SOUTHEAST OF PIPESTONE, 2.35 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 33.25, 65.0 FEET NORTHEAST OF TRUNK HIGHWAY 75, 18.0 FEET NORTHWEST OF A FIELD ENTRANCE, 198.0 FEET SOUTHEAST OF A CABLE BOX, 2.0 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	1764.652	0.016	537.867	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.751 12B = -85.731 09 = -85.630 03 = -85.459

Geodetic Position and Pipestone 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)	43 57 47.85530	96 16 45.39976	492290.395	141607.884	150050.413	43162.169	511.727	C	2014	GPS3047		
NAD83 (1996)	43 57 47.85474	96 16 45.39980	492290.392	141607.827	150050.412	43162.152	511.790	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/pipestone/FORT-DN8921-3NE-05JAN2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/FORT-DN8921-3NE-05JAN2011.jpg</a>	NE	Jan 5, 2011
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/FORT-DN8921-2-05JAN2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/FORT-DN8921-2-05JAN2011.jpg</a>		Jan 5, 2011
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/FORT-DN8921-1-05JAN2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/FORT-DN8921-1-05JAN2011.jpg</a>		Jan 5, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93383.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93383.pdf)



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

Mn/DOT Name: FOUNT

NGS Name: FOUNT

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8899](#) [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	19	108 N	45 W	440848.07	961826.87	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		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 35 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2010)                      **Stamping:** FOUNT 2010

9.8 MILES NORTH OF PIPESTONE, 9.95 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 46.45, 62.4 FEET EAST OF TRUNK HIGHWAY 75, 31.4 NORTH OF A FIELD ENTRANCE, 162.4 FEET SOUTH OF THE SOUTHWEST CORNER OF CABLE BOX NUMBER 5381, 2.0 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	1759.409	0.016	536.269	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -84.993    12B = -85.020    09 = -84.928    03 = -84.823

Geodetic Position and Pipestone 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 08 48.06669	96 18 26.86996	484914.820	208471.747	147802.333	63542.316	510.367			2014	GPS3047	
NAD83 (1996)	44 08 48.06613	96 18 26.87036	484914.791	208471.691	147802.324	63542.298	510.443	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/pipestone/FOUNT-DN8899-3E-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/FOUNT-DN8899-3E-28DEC2010.jpg</a>	E	Dec 28, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/FOUNT-DN8899-2-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/FOUNT-DN8899-2-28DEC2010.jpg</a>		Dec 28, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/FOUNT-DN8899-1-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/FOUNT-DN8899-1-28DEC2010.jpg</a>		Dec 28, 2010

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93384.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93384.pdf)



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

Mn/DOT Name: FTFR CNT

NGS Name: FTFR CNT

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DH3137](#) [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>
NW	22	108 N	45 W	440913.46	961442.54		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>
2003	2021	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)	REFERENCE MARK DISK	MN-117

**Description:** (2005)                      **Stamping:** FTFR CNT 2003

5.1 MILES NORTHWEST OF HOLLAND, 4.4 MILES NORTH ALONG COUNTY ROAD 16 FROM THE JUNCTION OF COUNTY ROAD 16 AND TRUNK HIGHWAY 23 IN HOLLAND, AT TRUNK HIGHWAY 23 MILEPOINT 39.2, THEN 3.0 MILES WEST ON COUNTY ROAD 10 (211TH STREET), 3.1 MILES EAST OF TRUNK HIGHWAY 75, 47.5 FEET SOUTH OF 211TH STREET, 78.0 FEET WEST OF 110TH AVENUE, 18.0 FEET EAST OF THE ENTRANCE TO THE FOUNTAIN PRAIRIE TOWN HALL, 0.7 FOOT NORTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.131 12B = -85.164 09 = -85.056 03 = -84.960

Geodetic Position and Pipestone 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 09 13. 46350	96 14 42. 53955	501273. 084	211038. 526	152788. 342	64324. 671	526. 278			2014	GPS3047	
NAD83 (2007)	44 09 13. 46343	96 14 42. 54048	501273. 016	211038. 519	152788. 321	64324. 669	526. 308			2007	GPS2300	
NAD83 (1996)	44 09 13. 46306	96 14 42. 53984	501273. 062	211038. 481	152788. 335	64324. 658	526. 356	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/pipestone/FTFR_CNT-DH3137-3S-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/FTFR_CNT-DH3137-3S-04MAY2021.jpg</a>	S	May 4, 2021
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/FTFR_CNT-DH3137-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/FTFR_CNT-DH3137-2-04MAY2021.jpg</a>		May 4, 2021
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/FTFR_CNT-DH3137-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/FTFR_CNT-DH3137-1-04MAY2021.jpg</a>		May 4, 2021

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_50723.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_50723.pdf)



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

Mn/DOT Name: G 147

NGS Name: G 147

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0010](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096113/  
 USGS Quad: EDGERTON SOUTH

<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	33	105 N	45 W	435106.29	961443.47	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>
1934	2011	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

**Description:** (1990)                      **Stamping:** G 147 1934

2.3 MILES SOUTH OF TROSKY, 2.3 MILES SOUTH AND SOUTHEAST ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 IN TROSKY, AT TRUNK HIGHWAY 75 MILEPOINT 25.0, THEN 233.0 FEET NORTH ON 110TH AVENUE, 82.3 FEET NORTHEAST OF TRUNK HIGHWAY 75, 43.6 FEET WEST OF A GRAVEL ROAD NORTH, 10.5 FEET NORTHWEST OF A WIRE-FENCE CORNER, 3.0 FEET SOUTHWEST OF A FENCE, 3.0 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1677.795	0.016	511.393	0.005	2/1	2013	00000797
NGVD29	1676.968	0.007	511.141	0.002	1/2	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -86.161 12B = -86.138 09 = -86.027 03 = -85.859

Geodetic Position and Pipestone 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)	43 51 06.28898	96 14 43.46503	501211.737	100940.704	152769.643	30766.788	485.128			2014	GPS3047	
NAD83 (1996)	43 51 06.28843	96 14 43.46551	501211.702	100940.648	152769.632	30766.771	485.181	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/pipestone/G_147-OQ0010-3NE-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_147-OQ0010-3NE-15DEC2010.jpg</a>	NE	Dec 15, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_147-OQ0010-2-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_147-OQ0010-2-15DEC2010.jpg</a>		Dec 15, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_147-OQ0010-1-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_147-OQ0010-1-15DEC2010.jpg</a>		Dec 15, 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:

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

Mn/DOT Name: G 380

NGS Name: G 380

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR1159](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

				<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	10	106 N	46 W	440031.66	962138.34	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>
1990	2015	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 (NO SLEEVE) (DEPTH 19 FT)	METAL ROD	NGS

**Description:** (2001)                      **Stamping:** G 380 1990

1.8 MILES WEST OF PIPESTONE, 1.8 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 SOUTH IN PIPESTONE, THEN 1.0 MILE NORTH ON 60TH AVENUE, THEN 0.65 MILE WEST ON COUNTY ROAD 5(111TH STREET) 50.9 FEET SOUTH OF COUNTY ROAD 5, 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	1670.069	0.016	509.038	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.587 12B = -85.577 09 = -85.489 03 = -85.325

\* 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/pipestone/G_380-PR1159-3S-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_380-PR1159-3S-13JUN2012.jpg</a>	S	Jun 13, 2012
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_380-PR1159-2-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_380-PR1159-2-13JUN2012.jpg</a>		Jun 13, 2012
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_380-PR1159-1-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_380-PR1159-1-13JUN2012.jpg</a>		Jun 13, 2012

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

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

Mn/DOT Name: G 381  
County: PIPESTONE, MN (Sheet 1)

NGS Name: G 381

NGS ACRN: [PR1168](#) [Get Map](#)  
NGS Quad / Sta Num : 44096223/  
USGS Quad: HOLLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	107 N	44 W	440544.33	961008.63	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>
1990	2014	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE) (DEPTH 35 FT)	METAL ROD	NGS

**Description:** (2001)                      **Stamping:** G 381 1990

0.8 MILE NORTHEAST OF HOLLAND, 0.9 MILE NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 16 IN HOLLAND, AT TRUNK HIGHWAY 23 MILEPOINT 40.1, NEAR THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 8 EAST OF HOLLAND, 155.8 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 94.2 FEET NORTH OF COUNTY ROAD 8, 73.8 FEET SOUTH-SOUTHEAST OF A FENCE CORNER, 7.9 FEET SOUTHWEST OF A WITNESS POST AND A FENCE.

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	1749.990	0.016	533.398	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.528 12B = -85.528 09 = -85.433 03 = -85.308

Geodetic Position and Pipestone 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 05 44.33123	96 10 08.62761	521265.451	189869.700	158882.027	57872.400	507.328			2014	GPS3026	
NAD83 (2007)	44 05 44.33117	96 10 08.62855	521265.382	189869.693	158882.006	57872.398	507.357			2007	GPS2300	
NAD83 (1996)	44 05 44.33093	96 10 08.62782	521265.436	189869.669	158882.023	57872.391	507.403	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/pipestone/G_381-PR1168-3SE-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_381-PR1168-3SE-09APR2014.jpg</a>	SE	Apr 9, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_381-PR1168-2-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_381-PR1168-2-09APR2014.jpg</a>		Apr 9, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_381-PR1168-1-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_381-PR1168-1-09APR2014.jpg</a>		Apr 9, 2014

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23653.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23653.pdf)



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

Mn/DOT Name: G 382

NGS Name: G 382

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR1167](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	107 N	45 W	440452.74	961207.03	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>
1990	2014	GOOD	Horz=NO Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (NO SLEEVE) (DEPTH 32 FT)	METAL ROD	NGS

**Description:** (2001) **Stamping:** G 382 1990

0.5 MILE SOUTHWEST OF HOLLAND, 1.1 MILES SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 16 IN HOLLAND, AT TRUNK HIGHWAY 23 MILEPOINT 38.1, 74.5 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 119.1 FEET NORTH OF 161ST STREET, 5.5 FEET SOUTHWEST OF A RAILROAD TIE NORTHWEST CORNER, 4.3 FEET NORTHWEST OF A RAILROAD TIE SOUTHWEST CORNER, 1.0 FOOT NORTHWEST OF A WITNESS POST AND A FENCE.

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	1762.034	0.016	537.069	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.466 12B = -85.462 09 = -85.371 03 = -85.243

Geodetic Position and Pipestone 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 04 52.74366	96 12 07.02576	512627.355	184638.608	156249.130	56277.960	511.024			2012	GPS2800	
NAD83 (2007)	44 04 52.74360	96 12 07.02671	512627.286	184638.602	156249.109	56277.959	511.053			2007	GPS2300	
NAD83 (1996)	44 04 52.74339	96 12 07.02591	512627.344	184638.581	156249.127	56277.952	511.098	C		2002	GPS1720	

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/pipestone/G_382-PR1167-3SE-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_382-PR1167-3SE-09APR2014.jpg</a>	SE	Apr 9, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_382-PR1167-2-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_382-PR1167-2-09APR2014.jpg</a>		Apr 9, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_382-PR1167-1-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/G_382-PR1167-1-09APR2014.jpg</a>		Apr 9, 2014

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23654.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23654.pdf)





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

Mn/DOT Name: GIFFIN

NGS Name: GIFFIN

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0795](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096224/1001  
 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>
SW	7	108 N	44 W	441010.19	961054.59		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	1971	GOOD	Horz=? 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:** (1971)                      **Stamping:** GIFFIN 1935

4.0 MILES WEST OF RUTHTON, 4.0 MILES WEST ON COUNTY ROAD 89 FROM THE JUNCTION OF COUNTY ROAD 89 AND TRUNK HIGHWAY 23 IN RUTHTON, THEN 0.1 MILE NORTH ON A DRIVEWAY, IN A FARMYARD, 64.0 FEET SOUTHWEST OF THE SOUTHWEST EDGE OF A SILO, 59.0 FEET WEST OF THE WEST EDGE OF A BARN, 34.5 FEET WEST OF THE WEST EDGE OF A GRANARY, 94.14 FEET SOUTH-SOUTHWEST OF GIFFIN RM 1, 111.88 FEET WEST-NORTHWEST OF GIFFIN RM A, THE POINT IS BURIED UNDER 3.0 FEET OF ROCK IN A COW YARD.

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

Geoid Separations(ft): GEOID18 = -85.387 12B = -85.410 09 = -85.325 03 = -85.226

Geodetic Position and Pipestone 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 10 10.18503	96 10 54.58743	517888.873	216790.227	157852.844	66077.793	574.996	1	1999	17648		
NAD83 (1986)	44 10 10.18482	96 10 54.56911	517890.208	216790.207	157853.251	66077.787		1	1986	17289		
NAD27	44 10 10.29500	96 10 53.44200						1	1938	03790		

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

Mn/DOT Name: GIFFIN AZ MK

NGS Name: GIFFIN AZ MK

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO8546](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096224/1001  
 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>
SW	7	108 N	44 W	441009.00	961054.00		

<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	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)	AZIMUTH MARK DISK	NGS

**Description:** **Stamping:** GIFFIN 1935

4.2 MILES SOUTHWEST OF RUTHTON, 4.0 MILES WEST ON COUNTY ROAD 89 FROM THE JUNCTION OF COUNTY ROAD 89 AND TRUNK HIGHWAY 23 IN RUTHTON, THEN 1.0 MILE SOUTH ON COUNTY ROAD 16, THE STATION IS IN THE CENTER OF THE Y-INTERSECTION, 40.0 FEET SOUTH OF THE CENTERLINE OF AN EAST-WEST ROAD, 35.0 FEET WEST OF THE CENTERLINE OF A NORTH-SOUTH ROAD.

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

Geoid Separations(ft): GEOID18 = -85.390 12B = -85.410 09 = -85.325 03 = -85.226

\* No Horizontal Positions in the Database \*

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67274.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67274.pdf)



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

Mn/DOT Name: GIFFIN RM 1

NGS Name: GIFFIN RM 1

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO8547](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096224/1001  
 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>
SW	7	108 N	44 W	441011.09	961054.26		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1971	GOOD	Horz=? Vert=YES	NO		PROJECTS 1 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:**

**Stamping:** GIFFIN NO 1 1935

4.0 MILES WEST OF RUTHTON, 4.0 MILES WEST ON COUNTY ROAD 89 FROM THE JUNCTION OF COUNTY ROAD 89 AND TRUNK HIGHWAY 23 IN RUTHTON, THEN 0.1 MILE NORTH ON A DRIVEWAY, IN A FARMYARD, AT THE NORTH EDGE OF THE BARNYARD, 85.0 FEET NORTH OF THE NORTH EDGE OF THE CIRCULAR GRANARY, 65.0 FEET WEST-NORTHWEST OF THE NORTHWEST CORNER OF A BARN, 37.0 FEET NORTHWEST OF THE NORTHWEST EDGE OF THE SILO.

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

Geoid Separations(ft): GEOID18 = -85.390 12B = -85.410 09 = -85.325 03 = -85.229

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67276.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67276.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67276.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67276.pdf)



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

Mn/DOT Name: GIFFIN RM 2

NGS Name: GIFFIN RM 2

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO8548](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096224/1001  
 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>
SW	7	108 N	44 W	441009.89	961051.80		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1971	GOOD	Horz=? Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

**Description:**

**Stamping:** GIFFIN NO 2 1935

4.0 MILES WEST OF RUTHTON, 4.0 MILES WEST ON COUNTY ROAD 89 FROM THE JUNCTION OF COUNTY ROAD 89 AND TRUNK HIGHWAY 23 IN RUTHTON, THEN 0.1 MILE NORTH ON A DRIVEWAY, IN A FARMYARD, IN THE EAST PART OF THE BARNYARD, 54.0 FEET NORTH OF THE NORTHWEST CORNER OF A POLE BARN, 41.5 FEET EAST OF THE CENTER OF A NEW WELL, 2.0 FEET NORTHWEST OF THE SOUTHWEST CORNER OF A HOG BARN.

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

Geoid Separations(ft): GEOID18 = -85.394 12B = -85.413 09 = -85.331 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:

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

Mn/DOT Name: GIFFIN RMA

NGS Name: GIFFIN RMA

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0796](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096224/1001  
 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>
SW	7	108 N	44 W	441009.95	961053.09		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	1966	GOOD	Horz=? Vert=YES	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

**Description:** (1966)                      **Stamping:** GIFFIN RMA 1966

4.0 MILES WEST OF RUTHTON, 4.0 MILES WEST ON COUNTY ROAD 87 FROM THE JUNCTION OF COUNTY ROAD 87 AND TRUNK HIGHWAY 23 IN RUTHTON, THEN 0.1 MILE NORTH ON A FARM DRIVEWAY, IN A FARMYARD, 73.5 FEET NORTH OF A POWER POLE, 40.5 FEET NORTHWEST OF THE NORTHWEST CORNER OF A GRAIN SHED, 25.5 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A BARN, 111.88 FEET EAST-SOUTHEAST OF STATION GIFFIN.

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

Geoid Separations(ft): GEOID18 = -85.390 12B = -85.410 09 = -85.328 03 = -85.229

Geodetic Position and Pipestone 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 10 09.95335	96 10 53.08667	517998.287	216766.854	157886.194	66070.669	572.695	1	1999	17648
NAD83 (1986)	44 10 09.95312	96 10 53.06826	517999.629	216766.832	157886.603	66070.663		1	1986	17289
NAD27	44 10 10.06332	96 10 51.94136						1	1977	15955

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23656.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23656.pdf)



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

Mn/DOT Name: GRANGE MNDT

NGS Name: GRANGE

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DE7126](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	15	107 N	45 W	440400.20	961347.12	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2001	2014	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:** (2001) **Stamping:** GRANGE 2001

2.25 MILES SOUTHWEST OF HOLLAND, 2.35 SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 16 IN HOLLAND, TO TRUNK HIGHWAY 23 MILEPOINT 36.85, THEN 0.5 MILE WEST ON COUNTY ROAD 7, 44.9 FEET NORTH OF COUNTY ROAD 7, 28.8 FEET EAST OF AN ENTRANCE, 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	1761.076 0.016	536.777 0.005	2/1	2015 00000851

Geoid Separations(ft): GEOID18 = -85.443 12B = -85.436 09 = -85.348 03 = -85.216

Geodetic Position and Pipestone 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 04 00.19959	96 13 47.11604	505321.935	179314.398	154022.434	54655.138	510.730			2014	GPS3026	
NAD83 (2007)	44 04 00.19953	96 13 47.11698	505321.866	179314.392	154022.413	54655.136	510.759			2007	GPS2300	
NAD83 (1996)	44 04 00.19930	96 13 47.11612	505321.929	179314.369	154022.432	54655.129	510.804	C		2014	HRUTH	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRANGE-DE7126-3N-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRANGE-DE7126-3N-09APR2014.jpg</a>	N	Apr 9, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRANGE-DE7126-2-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRANGE-DE7126-2-09APR2014.jpg</a>		Apr 9, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRANGE-DE7126-1-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRANGE-DE7126-1-09APR2014.jpg</a>		Apr 9, 2014

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

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

Mn/DOT Name: GRAY MNDT

NGS Name: GRAY

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0655](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	15	106 N	45 W	435938.19	961414.08	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1980	2015	GOOD	Horz=YES Vert=YES	YES		RECESSED 6 IN.	STEEL ROD IMBED IN MON

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	HORIZONTAL CONTROL DISK	MNDT

**Description:** (2004)                      **Stamping:** GRAY 1980

3.0 MILES EAST OF PIPESTONE, 3.1 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 11.45, 21.3 FEET SOUTH OF TRUNK HIGHWAY 30, 79.44 FEET NORTHEAST OF GRAY MNDT RM 2, 54.08 FEET NORTH-NORTHWEST OF GRAY MNDT RM 1, 8.7 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	1787.188 0.016	544.736 0.005	2/1	2017 00000903

Geoid Separations(ft): GEOID18 = -85.656 12B = -85.636 09 = -85.544 03 = -85.380

Geodetic Position and Pipestone 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)	43 59 38.18635	96 14 14.08391	503356.865	152779.907	153423.479	46567.409	518.619		2012	GPS2800
NAD83 (2007)	43 59 38.18629	96 14 14.08485	503356.796	152779.901	153423.458	46567.407	518.648		2007	GPS2300
NAD83 (1996)	43 59 38.18600	96 14 14.08391	503356.865	152779.872	153423.479	46567.398	518.690	C	2011	HTH75
NAD83 (1986)	43 59 38.18635	96 14 14.06349	503358.358	152779.907	153423.934	46567.409		2	1986	17289
NAD27	43 59 38.29564	96 14 12.95523						2	1982	16710

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRAY-OQ0655-3S-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRAY-OQ0655-3S-09APR2014.jpg</a>	S	Apr 9, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRAY-OQ0655-2-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRAY-OQ0655-2-09APR2014.jpg</a>		Apr 9, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRAY-OQ0655-1-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRAY-OQ0655-1-09APR2014.jpg</a>		Apr 9, 2014

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

Mn/DOT Name: GRAY MNDT RM 1

NGS Name: GRAY RM 1

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO3185](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	15	106 N	45 W	435937.66	961413.97	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>
1980	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	MNDT

**Description:** (2007)                      **Stamping:** GRAY NO 1 1980

3.0 MILES EAST OF PIPESTONE, 3.1 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 11.45, ALONG THE SOUTH RIGHT-OF-WAY OF TRUNK HIGHWAY 30, 74.5 FEET SOUTH OF TRUNK HIGHWAY 30, 54.08 FEET SOUTH-SOUTHEAST FROM STATION GRAY MNDT, 68.4 FEET EAST OF GRAY MNDT RM 2, 45.7 FEET SOUTH-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	1784.498	0.016	543.916	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.656    12B = -85.636    09 = -85.548    03 = -85.384

\* 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/pipestone/GRAY_RM_1-CO3185-3S-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRAY_RM_1-CO3185-3S-28APR2015.jpg</a>	S	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRAY_RM_1-CO3185-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRAY_RM_1-CO3185-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRAY_RM_1-CO3185-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRAY_RM_1-CO3185-1-28APR2015.jpg</a>		Apr 28, 2015

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

Mn/DOT Name: GRAY MNDT RM 2

NGS Name: GRAY RM 2

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO3186](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<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	15	106 N	45 W	435937.67	961414.90	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2015	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 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:** (2007)                      **Stamping:** GRAY NO 2 1980

3.0 MILES EAST OF PIPESTONE, 3.1 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, ON THE SOUTH RIGHT-OF-WAY OF TRUNK HIGHWAY 30, AT TRUNK HIGHWAY 30, MILEPOINT 11.45, 75.5 FEET SOUTH OF THE CENTERLINE OF TRUNK HIGHWAY 30, 79.44 FEET SOUTHWEST OF STATION GRAY MNDT, 68.4 FEET WEST OF GRAY MNDT RM 1.

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	1785.069	0.016	544.090	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.656    12B = -85.636    09 = -85.548    03 = -85.384

\* 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/pipestone/GRAY_RM_2-CO3186-3S-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRAY_RM_2-CO3186-3S-28APR2015.jpg</a>	S	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRAY_RM_2-CO3186-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRAY_RM_2-CO3186-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRAY_RM_2-CO3186-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/GRAY_RM_2-CO3186-1-28APR2015.jpg</a>		Apr 28, 2015

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67281.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67281.pdf)



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

Mn/DOT Name: H 147

NGS Name: H 147

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0011](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	21	105 N	45 W	435314.00	961533.00	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	2010	NOT FOUND	Horz=? Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

**Description:** (2005) **Stamping:** H 147 1934

IN TROSKY, 0.3 MILE EAST ON COUNTY ROAD 59 FROM THE JUNCTION OF COUNTY ROAD 59 AND TRUNK HIGHWAY 75 IN TROSKY, THEN 1.0 BLOCK SOUTH, 25.0 FEET WEST OF NORTH-SOUTH STREET, 210.0 FEET SOUTH OF AN EAST-WEST STREET, 1.0 FOOT EAST OF A WITNESS POST.

**Station Notes**  
IN A CULTIVATED FIELD.

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	1698.694	0.007	517.763	0.002	1	1995	00000135
NGVD29	1697.854	0.016	517.507	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -86.040 12B = -86.014 09 = -85.905 03 = -85.745

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23658.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23658.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23658.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23658.pdf)



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

Mn/DOT Name: H 380

NGS Name: H 380

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR1158](#) [Get Map](#)  
NGS Quad / Sta Num : 44096233/  
USGS Quad: ELKTON 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	106 N	46 W	440032.95	962258.08	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1990	2021	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 26 FT)	METAL ROD	NGS

**Description:** (2001) **Stamping:** H 380 1990

2.7 MILES WEST OF PIPESTONE, 1.8 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 SOUTH IN PIPESTONE, THEN 1.75 MILES WEST ON COUNTY ROAD 5(111TH STREET) 136.2 FEET EAST OF THE CENTER OF THE MOST EASTERLY DRIVEWAY, 50.9 FEET NORTH OF COUNTY ROAD 5, 5.2 FEET EAST 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	1633.225	0.016	497.808	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.577 12B = -85.571 09 = -85.469 03 = -85.315

Geodetic Position and Pipestone 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 00 32.94706	96 22 58.08335	465056.904	158353.379	141749.628	48266.206	471.714	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/pipestone/H_380-PR1158-3N-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/H_380-PR1158-3N-04MAY2021.jpg</a>	N	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/H_380-PR1158-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/H_380-PR1158-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/H_380-PR1158-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/H_380-PR1158-1-04MAY2021.jpg</a>		May 4, 2021

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_40250.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40250.pdf)



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

Mn/DOT Name: H 382

NGS Name: H 382

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR1169](#) [Get Map](#)  
NGS Quad / Sta Num : 44096223/  
USGS Quad: HOLLAND

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	32	108 N	44 W	440635.78	960912.10	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1990	2014	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

Monument Type	Disk Type	Mon. Agency
STEEL ROD (NO SLEEVE) (DEPTH 32 FT)	METAL ROD	NGS

Description: (2001)                      **Stamping:** H 382 1990

1.9 MILES NORTHEAST OF HOLLAND, 2.15 MILES NORTHEAST ON TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 16 IN HOLLAND, AT TRUNK HIGHWAY 23 MILEPOINT 41.35, 172.9 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 38.4 FEET NORTH OF 181ST STREET, 5.6 FEET NORTH OF A FENCE CORNER, 2.6 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	1774. 872 0. 016	540. 982 0. 005	2/1	2015 00000851

Geoid Separations(ft): GEOID18 = -85.561 12B = -85.564 09 = -85.472 03 = -85.344

Geodetic Position and Pipestone 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 06 35. 77800	96 09 12. 09934	525384. 988	195084. 228	160137. 665	59461. 792	514. 899			2014	GPS3026	
NAD83 (2007)	44 06 35. 77794	96 09 12. 10029	525384. 919	195084. 222	160137. 644	59461. 790	514. 928			2007	GPS2300	
NAD83 (1996)	44 06 35. 77766	96 09 12. 09965	525384. 966	195084. 193	160137. 658	59461. 781	514. 974	C		2014	HRUTH	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/H_382-PR1169-3E-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/H_382-PR1169-3E-09APR2014.jpg</a>	E	Apr 9, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/H_382-PR1169-2-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/H_382-PR1169-2-09APR2014.jpg</a>		Apr 9, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/H_382-PR1169-1-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/H_382-PR1169-1-09APR2014.jpg</a>		Apr 9, 2014

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

Mn/DOT Name: HANNAH

NGS Name: HANNAH

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DO8145](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096143/  
 USGS Quad: JASPER

<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	105 N	46 W	435204.67	962328.46	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>
2011	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 33 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2011)                      **Stamping:** HANNAH 2011

1.25 MILES NORTHEAST OF JASPER, 1.35 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 269 IN JASPER, AT TRUNK HIGHWAY 23 MILEPOINT 20.0, 63.5 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 10.0 FEET SOUTHWEST OF A FIELD ENTRANCE, 105.0 FEET SOUTH OF A POWER POLE, 16.5 FEET EAST-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	1582.884	0.016	482.464	0.005	2/1	2014	00000810

Geoid Separations(ft): GEOID18 = -86.050    12B = -86.040    09 = -85.935    03 = -85.777

Geodetic Position and Pipestone 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)	43 52 04.66988	96 23 28.46440	462748.188	106884.656	141045.930	32578.508	456.238			2014	GPS3047	
NAD83 (1996)	43 52 04.66926	96 23 28.46472	462748.164	106884.594	141045.923	32578.489	456.311	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/pipestone/HANNAH-DO8145-3SE-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HANNAH-DO8145-3SE-04MAY2021.jpg</a>	SE	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HANNAH-DO8145-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HANNAH-DO8145-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HANNAH-DO8145-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HANNAH-DO8145-1-04MAY2021.jpg</a>		May 4, 2021

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

Mn/DOT Name: HIFAT MNDT

NGS Name: HIFAT

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [AA5715](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096143/  
 USGS Quad: JASPER

<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	32	105 N	46 W	435141.84	962340.21	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>
1991	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 23 FT)	HORIZONTAL CONTROL DISK	MNDT

**Description:** (2001)                      **Stamping:** HIFAT 1991

0.5 MILE NORTH OF JASPER, 0.85 MILE NORTH ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 269 IN JASPER, AT TRUNK HIGHWAY 23 MILEPOINT 19.6, 69.4 FEET EAST-SOUTHEAST OF TRUNK HIGHWAY 23, 25.4 FEET NORTH-NORTHEAST OF A POWER POLE, 10.0 FEET NORTH-NORTHEAST OF AN ENTRANCE, 3.5 FEET WEST-NORTHWEST 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	1562.608	0.016	476.284	0.005	2/1	2014	00000810
NGVD29	1561.818	0.016	476.043	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -86.066    12B = -86.056    09 = -85.951    03 = -85.794

Geodetic Position and Pipestone 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)	43 51 41.84121	96 23 40.21366	461883.347	104574.350	140782.326	31874.326	450.061			2014	GPS3047	
NAD83 (2007)	43 51 41.84111	96 23 40.21445	461883.289	104574.340	140782.308	31874.323	450.092			2007	GPS2300	
NAD83 (1996)	43 51 41.84086	96 23 40.21393	461883.327	104574.314	140782.320	31874.315	450.134	C		2011	HTH75	
NAD83 (1986)	43 51 41.84061	96 23 40.19359	461884.817	104574.287	140782.774	31874.306			2	1995	GPS824	

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/pipestone/HIFAT-AA5715-3SE-21DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HIFAT-AA5715-3SE-21DEC2010.jpg</a>	SE	Dec 21, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HIFAT-AA5715-2-21DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HIFAT-AA5715-2-21DEC2010.jpg</a>		Dec 21, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HIFAT-AA5715-1-21DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HIFAT-AA5715-1-21DEC2010.jpg</a>		Dec 21, 2010

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23660.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23660.pdf)



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

Mn/DOT Name: HOLL

NGS Name: HOLL

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8905](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	7	107 N	45 W	440543.92	961803.68	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2010	2011	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 25 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2012)                      **Stamping:** HOLL 2010

6.6 MILES NORTH OF PIPESTONE, 6.45 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, TO TRUNK HIGHWAY 75 MILEPOINT 42.95, THEN 0.3 MILE EAST ON COUNTY ROAD 8/171ST STREET, 60.0 FEET SOUTH OF COUNTY ROAD 8, 19.0 FEET EAST OF A FIELD ENTRANCE, 2.0 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	1721.375	0.016	524.676	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.243    12B = -85.249    09 = -85.164    03 = -85.039

Geodetic Position and Pipestone 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 05 43.92457	96 18 03.67629	486594.588	189822.227	148314.327	57857.931	498.707	2014	C	GPS3047		
NAD83 (1996)	44 05 43.92419	96 18 03.67653	486594.570	189822.189	148314.322	57857.919	498.775	2011	C	HTH75		

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HOLL-DN8905-3S-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HOLL-DN8905-3S-28DEC2010.jpg</a>	S	Dec 28, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HOLL-DN8905-2-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HOLL-DN8905-2-28DEC2010.jpg</a>		Dec 28, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HOLL-DN8905-1-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HOLL-DN8905-1-28DEC2010.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\\_93294.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93294.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93294.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93294.pdf)



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

Mn/DOT Name: HOLLAND MNDT

NGS Name: HOLLAND

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DE7127](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<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	107 N	44 W	440543.81	961045.66		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	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

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

**Description:** (2001)                      **Stamping:** HOLLAND 2001

0.5 MILE NORTHEAST OF HOLLAND, 0.9 MILE NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 16 IN HOLLAND, TO TRUNK HIGHWAY 23 MILEPOINT 40.1, THEN 0.5 MILE WEST ALONG COUNTY ROAD 8, 46.7 FEET NORTH OF COUNTY ROAD 8, 15.6 FEET EAST OF AN ENTRANCE, 2.6 FEET WEST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.499    12B = -85.499    09 = -85.407    03 = -85.279

Geodetic Position and Pipestone 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 05 43.80742	96 10 45.66430	518562.421	189814.168	158058.142	57855.474	502.282			2012	GPS2800			
NAD83 (2007)	44 05 43.80736	96 10 45.66524	518562.352	189814.162	158058.121	57855.472	502.311			2007	GPS2300			
NAD83 (1996)	44 05 43.80713	96 10 45.66450	518562.406	189814.138	158058.137	57855.465	502.357	C		2005	GPS2097			

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/pipestone/HOLLAND-DE7127-3N-21JUN2004.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HOLLAND-DE7127-3N-21JUN2004.jpg</a>	N	Jun 21, 2004
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HOLLAND-DE7127-2-21JUN2004.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HOLLAND-DE7127-2-21JUN2004.jpg</a>		Jun 21, 2004
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HOLLAND-DE7127-1-21JUN2004.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HOLLAND-DE7127-1-21JUN2004.jpg</a>		Jun 21, 2004

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

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41731.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41731.pdf)





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

Mn/DOT Name: HOLLAND MNDT RESET

NGS Name: HOLLAND RESET

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP4271](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<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	107 N	44 W	440543.81	961045.66	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 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 55 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2014)                      **Stamping:** HOLLAND 2001 2014

0.5 MILE NORTHEAST OF HOLLAND, 0.9 MILE NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 16 IN HOLLAND, TO TRUNK HIGHWAY 23 MILEPOINT 40.1, THEN 0.5 MILE WEST ALONG COUNTY ROAD 8, 46.7 FEET NORTH OF COUNTY ROAD 8, 15.6 FEET EAST OF AN ENTRANCE, 2.6 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	1733.189	0.016	528.277	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.499    12B = -85.499    09 = -85.407    03 = -85.279

Geodetic Position and Pipestone 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 05 43.80731	96 10 45.66431	518562.420	189814.157	158058.142	57855.471	502.214			2014	GPS3026	
NAD83 (1996)	44 05 43.80702	96 10 45.66455	518562.402	189814.127	158058.136	57855.462	502.291	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/pipestone/HOLLAND_RESET-DP4271-3N-22APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HOLLAND_RESET-DP4271-3N-22APR2014.jpg</a>	N	Apr 22, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HOLLAND_RESET-DP4271-2-22APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HOLLAND_RESET-DP4271-2-22APR2014.jpg</a>		Apr 22, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HOLLAND_RESET-DP4271-1-22APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HOLLAND_RESET-DP4271-1-22APR2014.jpg</a>		Apr 22, 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\\_101319.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101319.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_101319.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101319.pdf)



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

Mn/DOT Name: HUBERS

NGS Name: HUBERS

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP9041](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096144/  
 USGS Quad: JASPER NW

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	8	106 N	46 W	435941.18	962338.73	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2015	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2015)                      **Stamping:** HUBERS 2015

4.15 MILES WEST OF PIPESTONE, 4.15 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 SOUTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 3.65, 64.0 FEET NORTH OF TRUNK HIGHWAY 30, 20.3 FEET WEST OF A FIELD ENTRANCE, 1.5 FEET SOUTH OF A WITNESS POST.

**Station Pair:** OLSON - PIPESTONE, MN

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1616.381	0.016	492.674	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.617 12B = -85.610 09 = -85.508 03 = -85.354

Geodetic Position and Pipestone 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)	43 59 41.17599	96 23 38.72667	462077.126	153115.542	140841.390	46669.710	466.576			2015	GPS3109
NAD83 (1996)	43 59 41.17575	96 23 38.72733	462077.077	153115.517	140841.375	46669.703	466.644	C		2015	HWLSN

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HUBERS-DP9041-3N-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HUBERS-DP9041-3N-12MAY2015.jpg</a>	N	May 12, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HUBERS-DP9041-2-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HUBERS-DP9041-2-12MAY2015.jpg</a>		May 12, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HUBERS-DP9041-1-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/HUBERS-DP9041-1-12MAY2015.jpg</a>		May 12, 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\\_103464.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103464.pdf)

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

Mn/DOT Name: IHLEN MNDT

NGS Name: IHLEN

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DE7128](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	10	105 N	46 W	435514.10	962148.83	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2001	2011	GOOD	Horz=NO Vert=NO	YES		RECESSED 4 IN.	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2013) **Stamping:** IHLEN 2001

1.0 MILE NORTHEAST OF IHLEN, 1.0 MILE NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 2 IN IHLEN, AT TRUNK HIGHWAY 23 MILEPOINT 24.0, 185.0 FEET NORTHWEST OF TRUNK HIGHWAY 23, 37.7 FEET NORTH OF 51ST STREET, 33.7 FEET NORTHWEST OF THE NORTHWEST RAIL., 5.4 FEET EAST OF A WITNESS POST. THE HORIZONTAL POSITION SHOULD BE VALID, BUT ELLIPSOID HEIGHT AND ORTHOMETRIC HEIGHT MAY HAVE CHANGE DUE TO DISK POPPING OFF AND REPLACEMENT BY A DATUM POINT. USE STATION IHLEN RESET FOR ANY OBSERVATIONS AFTER THE DISK WAS RESET.

**Station Notes**

THE ORIGINAL DISK WAS REPLACED WITH A REMOVABLE DISK/DATUM POINT IN 2008. THE NATIONAL GEODETIC SURVEY (NGS) WAS NOTIFIED AND DETERMINED THAT THE RESET STATION WAS NOT REQUIRED BECAUSE NO VERTICAL VALUES WERE ASSOCIATED WITH THE ORIGINAL DISK. A NEW ELLIPSOID HEIGHT WAS DETERMINED IN HTH75. THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

**Leveling-Derived Orthometric Height (Elevation)**

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	1649.931 0.016	502.900 0.005	2/1	2014 00000810

Geoid Separations(ft): GEOID18 = -85.902 12B = -85.882 09 = -85.781 03 = -85.610

**Geodetic Position and Pipestone 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)	43 55 14.09994	96 21 48.82976	470074.172	126056.538	143278.894	38422.110	476.695		2014	GPS3047
NAD83 (2007)	43 55 14.09988	96 21 48.83071	470074.102	126056.532	143278.873	38422.108	476.724		2007	GPS2300
NAD83 (1996)	43 55 14.09926	96 21 48.83011	470074.146	126056.469	143278.886	38422.089	476.783	C	2011	HTH75

**Station Photos**

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/IHLEN-DE7128-3W-11JUN2008.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/IHLEN-DE7128-3W-11JUN2008.jpg</a>	W	Jun 11, 2008
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/IHLEN-DE7128-2-11JUN2008.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/IHLEN-DE7128-2-11JUN2008.jpg</a>		Jun 11, 2008
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/IHLEN-DE7128-1-11JUN2008.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/IHLEN-DE7128-1-11JUN2008.jpg</a>		Jun 11, 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:

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

Mn/DOT Name: J 147

NGS Name: J 147

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0012](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	105 N	45 W	435504.00	961529.00	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	1985	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

**Description:** (1985)                      **Stamping:** J 147 1934

5.8 MILES SOUTH OF PIPESTONE, 5.6 MILES SOUTHEAST ALONG TRUNK HIGHWAY 75 FROM THE EASTERN JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, EAST OF TRUNK HIGHWAY 75, AT 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	1734.652	0.016	528.723	0.005	2/0	1991	00000025
NGVD29	1733.812	0.007	528.467	0.002	1	1953	Q430961

Geoid Separations(ft): GEOID18 = -85.925    12B = -85.899    09 = -85.794    03 = -85.626

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23661.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23661.pdf)

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

Mn/DOT Name: J 380

NGS Name: J 380

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR1172](#) [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	10	108 N	44 W	441029.00	960624.00	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>
1990	2014	DESTROYED	Horz=NO Vert=NO	NO			NO MAG MATERIAL

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	VERTICAL CONTROL DISK	NGS

**Description:** (1990)                      **Stamping:** J 380 1990

AT RUTHTON, 0.3 MILE SOUTH ALONG COUNTY ROAD 18 (SMITH AVENUE) FROM THE JUNCTION OF COUNTY ROAD 18 (SMITH AVENUE) AND A RAILROAD CROSSING IN RUTHTON, THEN 0.1 MILE WEST ON CLEVELAND STREET, SET VERTICALLY IN THE NORTH FACE OF THE HARVEST STATES GRAIN ELEVATOR, 7.9 FEET WEST OF THE CENTER OF A GRAIN DUMP, 4.6 FEET ABOVE GROUND LEVEL.

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	1736.548	0.007	529.301	0.002	1/2	1991	00000025

Geoid Separations(ft): GEOID18 = -85.800    12B = -85.823    09 = -85.735    03 = -85.613

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23662.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23662.pdf)

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

Mn/DOT Name: J 382

NGS Name: J 382

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR1170](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	33	108 N	44 W	440727.02	960825.54	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1990	2014	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

Monument Type	Disk Type	Mon. Agency
STEEL ROD (NO SLEEVE) (DEPTH 16 FT)	METAL ROD	NGS

Description: (2005)                      **Stamping:** J 382 1990

4.0 MILES SOUTHWEST OF RUTHTON, 3.8 MILES SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 18 IN RUTHTON, AT TRUNK HIGHWAY 23 MILEPOINT 42.7, 101.0 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 11.2 FEET SOUTHWEST OF A TEE-FENCE CORNER, 1.0 FOOT NORTHWEST OF A FENCE AND 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	1825.042	0.016	556.274	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.590    12B = -85.597    09 = -85.518    03 = -85.394

Geodetic Position and Pipestone 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 07 27.01680	96 08 25.53810	528775.487	200277.514	161171.091	61044.709	530.182			2014	GPS3026	
NAD83 (2007)	44 07 27.01674	96 08 25.53904	528775.419	200277.508	161171.070	61044.707	530.211			2007	GPS2300	
NAD83 (1996)	44 07 27.01652	96 08 25.53843	528775.463	200277.486	161171.084	61044.700	530.256	C		2014	HRUTH	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/J_382-PR1170-3SE-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/J_382-PR1170-3SE-09APR2014.jpg</a>	SE	Apr 9, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/J_382-PR1170-2-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/J_382-PR1170-2-09APR2014.jpg</a>		Apr 9, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/J_382-PR1170-1-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/J_382-PR1170-1-09APR2014.jpg</a>		Apr 9, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23663.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23663.pdf)



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

Mn/DOT Name: JASPER MNDT

NGS Name: JASPER

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [AA5716](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096143/  
 USGS Quad: JASPER

<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	105 N	46 W	435104.06	962400.96	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>
1991	2010	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 23 FT)	HORIZONTAL CONTROL DISK	MNDT

**Description:** (2001)                      **Stamping:** JASPER 1991

IN JASPER, 0.1 MILE NORTH ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 269 IN JASPER, AT TRUNK HIGHWAY 23 MILEPOINT 18.8, 142.3 FEET WEST-NORTHWEST OF TRUNK HIGHWAY 23, 92.1 FEET NORTHEAST OF A GAS VENT PIPE, 61.9 FEET WEST-NORTHWEST OF A POWER POLE, 107.7 FEET EAST-SOUTHEAST OF THE EAST RAIL OF THE MAIN RAILROAD TRACKS, 3.6 FEET EAST-SOUTHEAST 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	1540.820	0.016	469.643	0.005	2/1	2004	00000464
NGVD29	1539.987	0.016	469.389	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -86.086    12B = -86.079    09 = -85.981    03 = -85.823

Geodetic Position and Pipestone 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)	43 51 04.05814	96 24 00.95733	460356.463	100750.882	140316.931	30708.930	443.411			2012	GPS2800	
NAD83 (2007)	43 51 04.05806	96 24 00.95828	460356.393	100750.874	140316.909	30708.928	443.437			2007	GPS2300	
NAD83 (1996)	43 51 04.05731	96 24 00.95755	460356.447	100750.798	140316.926	30708.905	443.476	C		2006	GPS2245	
NAD83 (1986)	43 51 04.05761	96 24 00.93743	460357.921	100750.825	140317.375	30708.913			2	1995	GPS824	

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/pipestone/JASPER-AA5716-3W-15NOV2005.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/JASPER-AA5716-3W-15NOV2005.jpg</a>	W	Nov 15, 2005
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/JASPER-AA5716-2-15NOV2005.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/JASPER-AA5716-2-15NOV2005.jpg</a>		Nov 15, 2005
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/JASPER-AA5716-1-15NOV2005.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/JASPER-AA5716-1-15NOV2005.jpg</a>		Nov 15, 2005

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23664.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23664.pdf)



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

Mn/DOT Name: JASPER MNDT RESET

NGS Name: JASPER RESET

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DO8146](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096143/  
 USGS Quad: JASPER

<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	105 N	46 W	435104.06	962400.96	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>
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 23 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2010)                      **Stamping:** JASPER 1991 2010

IN JASPER, 0.1 MILE NORTH ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 269 IN JASPER, AT TRUNK HIGHWAY 23 MILEPOINT 18.8, 142.3 FEET WEST-NORTHWEST OF TRUNK HIGHWAY 23, 92.1 FEET NORTHEAST OF A GAS VENT PIPE, 61.9 FEET WEST-NORTHWEST OF A POWER POLE, 107.7 FEET EAST-SOUTHEAST OF THE EAST RAIL OF THE MAIN RAILROAD TRACKS, 3.6 FEET EAST-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	1540.935	0.016	469.678	0.005	2/1	2014	00000810

Geoid Separations(ft): GEOID18 = -86.086 12B = -86.079 09 = -85.981 03 = -85.823

Geodetic Position and Pipestone 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)	43 51 04.05790	96 24 00.95745	460356.454	100750.857	140316.928	30708.923	443.447	2014	C	GPS3047		
NAD83 (1996)	43 51 04.05734	96 24 00.95762	460356.441	100750.801	140316.924	30708.906	443.510	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/pipestone/JASPER_RESET-DO8146-3SW-21DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/JASPER_RESET-DO8146-3SW-21DEC2010.jpg</a>	SW	Dec 21, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/JASPER_RESET-DO8146-2-21DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/JASPER_RESET-DO8146-2-21DEC2010.jpg</a>		Dec 21, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/JASPER_RESET-DO8146-1-21DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/JASPER_RESET-DO8146-1-21DEC2010.jpg</a>		Dec 21, 2010

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

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

Mn/DOT Name: JASPER MUNICIPAL TANK

NGS Name: JASPER MUNICIPAL TANK

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0698](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096143/1023  
 USGS Quad: JASPER

<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	105 N	46 W	435101.41	962334.77		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>
1927	1981	GOOD	Horz=NO Vert=?	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 EAST CENTRAL PART OF JASPER, 0.4 MILE EAST ALONG COUNTY ROAD 1 FROM THE JUNCTION OF COUNTY ROAD 1 AND TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 269 IN JASPER, THEN 0.5 BLOCK NORTH ON POORBAUGH AVENUE, BETWEEN EAST 2ND STREET AND EAST WAIL STREET, 50.0 FEET WEST OF SOUTH POORBAUGH STREET.

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

Geoid Separations(ft): GEOID18 = -86.092 12B = -86.086 09 = -85.984 03 = -85.827

Geodetic Position and Pipestone 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)	43 51 01. 40796	96 23 34. 77117	462275. 023	100479. 093	140901. 709	30626. 089		4	1999	17648
NAD83 (1986)	43 51 01. 40947	96 23 34. 75119	462276. 488	100479. 243	140902. 155	30626. 135		4	1986	17289
NAD27	43 51 01. 51800	96 23 33. 61800						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:

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

Mn/DOT Name: K 147

NGS Name: K 147

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0013](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	106 N	45 W	435641.00	961607.00	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)	SEE DESCRIPTION	NGS

**Description:** (2008)                      **Stamping:** K 147 1934

4.1 MILES NORTH ON A RAILROAD FROM THE TROSKY RAILROAD STATION, 3.8 MILES SOUTHEAST OF PIPESTONE, 3.7 MILES SOUTHEAST ALONG TRUNK HIGHWAY 75 FROM THE EASTERN JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, 71.0 FEET SOUTHEAST OF A ROAD, 45.5 FEET EAST OF THE EAST RAIL OF THE RAILROAD TRACKS, 2.0 FEET WEST OF A FENCE.

**Station Notes**

THE MARK IS ASSUMED TO BE DESTROYED AS THE NATIONAL GEODETIC SURVEY (NGS) SET BM K 147 RESET IN 1973.

**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	1776.525	0.016	541.486	0.005	2/0	1991	00000025
NGVD29	1775.679	0.007	541.228	0.002	1	1953	Q430961

Geoid Separations(ft): GEOID18 = -85.817    12B = -85.797    09 = -85.692    03 = -85.525

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23666.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23666.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23666.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23666.pdf)



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

Mn/DOT Name: K 147 RESET

NGS Name: K 147 RESET

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0014](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	32	106 N	45 W	435641.00	961607.00	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>
1973	1990	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 10 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

**Description:** (1990)                      **Stamping:** K 147 RESET 1973

3.2 MILES SOUTHEAST OF PIPESTONE, 2.9 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 AT THE SOUTHEAST EDGE OF PIPESTONE, 74.0 FEET WEST OF TRUNK HIGHWAY 75, 35.0 FEET SOUTH OF A POWER POLE, 1.0 FOOT EAST OF A FENCE, 1.7 FEET SOUTH OF A WITNESS POST.

**Station Notes**

THE MONUMENT WAS FOUND LOOSE IN THE GROUND AND WAS DESTROYED AFTER LEVELING BY THE NATIONAL GEODETIC SURVEY (NGS) IN 1990.

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	1772.290	0.007	540.195	0.002	1/2	1991	00000025

Geoid Separations(ft): GEOID18 = -85.817 12B = -85.797 09 = -85.692 03 = -85.525

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23667.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23667.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23667.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23667.pdf)



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

Mn/DOT Name: K 380

NGS Name: K 380

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR1174](#) [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	2	108 N	44 W	441147.17	960528.05	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	2003	GOOD	Horz=NO Vert=NO	NO		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (NO SLEEVE) (DEPTH 31 FT)	METAL ROD	NGS

**Description:** (2001)                      **Stamping:** K 380 1990

3.7 MILES SOUTHWEST OF FLORENCE, 3.7 MILES SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 14 IN FLORENCE, AT TRUNK HIGHWAY 23 MILEPOINT 48.8, 164.4 FEET NORTHWEST OF TRUNK HIGHWAY 23, 95.0 FEET SOUTH OF LINCOLN-PIPESTONE COUNTY ROAD 12, 46.6 FEET NORTHWEST OF THE NORTHWEST RAIL OF THE RAILROAD TRACKS, 1.0 FOOT SOUTHEAST OF A WITNESS POST AND A FENCE.

**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	1711.033	0.007	521.524	0.002	1/2	1991	00000025

Geoid Separations(ft): GEOID18 = -85.918 12B = -85.948 09 = -85.859 03 = -85.738

**Geodetic Position and Pipestone 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 47.16750	96 05 28.05027	541672.219	226644.703	165102.023	69081.444	495.330			2012	GPS2800	
NAD83 (2007)	44 11 47.16742	96 05 28.05120	541672.151	226644.695	165102.002	69081.441	495.359			2007	GPS2300	
NAD83 (1996)	44 11 47.16652	96 05 28.05072	541672.186	226644.604	165102.013	69081.414	495.412	C		2003	GPS1919	

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23668.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23668.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23668.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23668.pdf)



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

Mn/DOT Name: K 382

NGS Name: K 382

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: <a href="#">PR1171</a>	<a href="#">Get Map</a>
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>
SW	22	108 N	44 W	440820.31	960715.04	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>
1990	2014	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (NO SLEEVE) (DEPTH 32 FT)	METAL ROD	NGS

**Description:** (2001)                      **Stamping:** K 382 1990

2.7 MILES SOUTH OF RUTHTON, 2.35 MILES SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 18 IN RUTHTON, TO TRUNK HIGHWAY 23 MILEPOINT 44.15, THEN 0.1 MILE WEST ON COUNTY ROAD 80 (201ST STREET), NEAR THE RAILROAD CROSSING OF A GRAVEL ROAD, 42.3 FEET NORTH OF A ROAD, 50.2 FEET NORTHWEST OF THE NORTHWEST RAIL OF THE RAILROAD TRACKS, 6.9 FEET NORTHEAST OF A POWER POLE, 0.7 FOOT SOUTHEAST OF A WITNESS POST AND A FENCE.

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	1811.066	0.016	552.014	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.686    12B = -85.699    09 = -85.613    03 = -85.492

Geodetic Position and Pipestone 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 08 20.31290	96 07 15.03599	533910.067	205682.359	162736.114	62692.108	525.899			2014	GPS3026	
NAD83 (2007)	44 08 20.31282	96 07 15.03695	533909.997	205682.351	162736.093	62692.106	525.928			2007	GPS2300	
NAD83 (1996)	44 08 20.31232	96 07 15.03641	533910.037	205682.300	162736.105	62692.090	525.976	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/pipestone/K_382-PR1171-3W-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/K_382-PR1171-3W-09APR2014.jpg</a>	W	Apr 9, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/K_382-PR1171-2-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/K_382-PR1171-2-09APR2014.jpg</a>		Apr 9, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/K_382-PR1171-1-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/K_382-PR1171-1-09APR2014.jpg</a>		Apr 9, 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:

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 Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23669.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23669.pdf)



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

Mn/DOT Name: KLOH

NGS Name: KLOH

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP9043](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	106 N	46 W	435940.12	962051.74	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>
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 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2015)                      **Stamping:** KLOH 2015

1.8 MILES WEST OF PIPESTONE, 1.8 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 SOUTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 5.95, 59.0 FEET NORTH OF TRUNK HIGHWAY 30, 60.3 FEET EAST OF 60TH AVENUE, 1.5 FEET EAST OF A WITNESS POST.

**Station Pair:** COBORNS - PIPESTONE, 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	1686.263	0.016	513.974	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.640    12B = -85.626    09 = -85.535    03 = -85.367

Geodetic Position and Pipestone 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)	43 59 40.11507	96 20 51.73915	474285.052	152990.203	144562.373	46631.507	487.871			2015	GPS3109	
NAD83 (1996)	43 59 40.11483	96 20 51.73979	474285.005	152990.179	144562.359	46631.500	487.938	C		2015	HWLSN	

**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/pipestone/KLOH-DP9043-3N-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/KLOH-DP9043-3N-12MAY2015.jpg</a>	N	May 12, 2015
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/KLOH-DP9043-2-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/KLOH-DP9043-2-12MAY2015.jpg</a>		May 12, 2015
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/KLOH-DP9043-1-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/KLOH-DP9043-1-12MAY2015.jpg</a>		May 12, 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\\_103465.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103465.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_103465.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103465.pdf)



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

Mn/DOT Name: L 147

NGS Name: L 147

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0015](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	20	106 N	45 W	435810.00	961700.00	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=? Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

**Description:** (1934)                      **Stamping:** L 147 1934

3.1 MILES SOUTHEAST ON A RAILROAD FROM THE PIPESTONE RAILROAD STATION, 1.9 MILES SOUTHEAST ALONG TRUNK HIGHWAY 75 FROM THE EASTERN JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, 87.0 FEET SOUTHWEST OF RAILROAD MILEPOST 311, 44.4 FEET SOUTHWEST OF THE WEST RAIL OF THE RAILROAD TRACKS, 32.0 FEET SOUTHEAST OF A ROAD, 2.4 FEET NORTHEAST OF A FENCE.

**Station Notes**

THE RAILROAD TRACKS ARE GONE, THE STATION IS LIKELY GONE TO.

**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	1753.287	0.016	534.403	0.005	2/0	1991	00000025
NGVD29	1752.464	0.016	534.152	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -85.728    12B = -85.708    09 = -85.610    03 = -85.439

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23670.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23670.pdf)

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

Mn/DOT Name: LAND

NGS Name: LAND

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8904](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	107 N	45 W	440544.13	961825.38	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>
2010	2011	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2012)                      **Stamping:** LAND 2010

6.6 MILES NORTH OF PIPESTONE, 6.45 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 42.95, 159.0 FEET EAST OF TRUNK HIGHWAY 75, 52.0 FEET SOUTH OF COUNTY ROAD 8 (171ST STREET), 15.4 FEET WEST OF A FIELD ENTRANCE, 2.0 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	1727.549	0.016	526.558	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.236 12B = -85.246 09 = -85.161 03 = -85.033

Geodetic Position and Pipestone 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 05 44.13408	96 18 25.38265	485010.388	189844.483	147831.462	57864.714	500.588			2014	GPS3047	
NAD83 (1996)	44 05 44.13370	96 18 25.38289	485010.371	189844.444	147831.457	57864.702	500.656	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/pipestone/LAND-DN8904-3S-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/LAND-DN8904-3S-28DEC2010.jpg</a>	S	Dec 28, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/LAND-DN8904-2-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/LAND-DN8904-2-28DEC2010.jpg</a>		Dec 28, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/LAND-DN8904-1-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/LAND-DN8904-1-28DEC2010.jpg</a>		Dec 28, 2010

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

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

Mn/DOT Name: LINGL

NGS Name: LINGL

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP9044](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	106 N	44 W	435936.82	960906.77	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	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 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2015) **Stamping:** LINGL 2015

2.5 MILES SOUTHWEST OF WOODSTOCK, 2.4 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND COUNTY ROAD 18(180TH AVENUE) (THE JUNCTION IS 1.0 MILE SOUTH OF WOODSTOCK), AT TRUNK HIGHWAY 30 MILEPOINT 15.7, 56.3 FEET SOUTH OF TRUNK HIGHWAY 30, 48.6 FEET EAST OF A FIELD ENTRANCE, 1.5 FEET NORTH OF A WITNESS POST.

**Station Pair:** 5904 L - PIPESTONE, 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	1682.267	0.016	512.756	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.738 12B = -85.715 09 = -85.610 03 = -85.466

Geodetic Position and Pipestone 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)	43 59 36.82434	96 09 06.76622	525824.614	152657.083	160271.663	46529.972	486.624			2015	GPS3109	
NAD83 (1996)	43 59 36.82409	96 09 06.76684	525824.568	152657.058	160271.649	46529.964	486.685	C		2015	HWLSN	

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/pipestone/LINGL-DP9044-3S-13MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/LINGL-DP9044-3S-13MAY2015.jpg</a>	S	May 13, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/LINGL-DP9044-2-13MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/LINGL-DP9044-2-13MAY2015.jpg</a>		May 13, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/LINGL-DP9044-1-13MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/LINGL-DP9044-1-13MAY2015.jpg</a>		May 13, 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\\_103466.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103466.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_103466.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103466.pdf)



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

Mn/DOT Name: M 147

NGS Name: M 147

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0016](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	7	106 N	45 W	435959.00	961812.00	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=? Vert=YES	NO		PROJECTS 4 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

**Description:** (1992)                      **Stamping:** M 147 1934

AT PIPESTONE, 0.78 MILE SOUTHEAST ON A RAILROAD FROM THE PIPESTONE RAILROAD STATION, 4.0 BLOCKS NORTH ALONG 10TH AVENUE FROM THE JUNCTION OF 10TH AVENUE AND TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, TO A 90.0 DEGREE TURN IN A ROAD, ABOUT 290.0 FEET EAST OF THE INTERSECTION OF 10TH AVENUE AND 2ND STREET, 330.0 FEET SOUTH OF THE RAILROAD JUNCTION, 45.0 FEET EAST OF THE EAST RAIL OF THE RAILROAD TRACKS, 4.0 FEET EAST OF A POLE, 3.0 FEET WEST OF A RIGHT-OF-WAY FENCE.

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	1727.752	0.016	526.620	0.005	2/0	1991	00000025
NGVD29	1726.945	0.016	526.374	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -85.613    12B = -85.607    09 = -85.508    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\\_23671.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23671.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23671.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23671.pdf)



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

Mn/DOT Name: MNCORS PPST PIPESTONE ARP

NGS Name: PIPESTONE CORS ARP

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [!62774](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	7	106 N	46 W	440010.95	961931.06	3	A

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2006	2012	GOOD	Horz=? Vert=?	YES			SEE DESCRIPTION

  

Monument Type	Disk Type	Mon. Agency
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	MNDT

**Description:** (2006)

**Stamping:**

IN PIPESTONE, 0.6 MILE NORTH ALONG TRUNK HIGHWAY 75/ 8TH AVENUE SOUTHEAST FROM THE WEST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, THEN 0.9 MILE WEST ALONG 4TH STREET NORTHEAST, MOUNTED AT THE EAST END OF A PEAKED ROOF OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION TRUCK STATION BUILDING.

**Station Notes**

NATIONAL GEODETIC SURVEY (NGS) SITE ID IS MNPP.

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

Geoid Separations(ft): GEOID18 = -85.604 12B = -85.597 09 = -85.499 03 = -85.331

**Geodetic Position and Pipestone 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 00 10.95346	96 19 31.05603	480186.484	156107.002	146361.133	47581.510	502.840	A	2015	HMNCORS		
NAD83 (1996)	44 00 10.95313	96 19 31.05641	480186.456	156106.969	146361.125	47581.499	502.868	B	2006	HMNCORS		

**Station Photos**

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_CORS_ARP-!62774-3N-17AUG2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_CORS_ARP-!62774-3N-17AUG2006.jpg</a>	N	Aug 17, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_CORS_ARP-!62774-2-17AUG2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_CORS_ARP-!62774-2-17AUG2006.jpg</a>		Aug 17, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_CORS_ARP-!62774-1-17AUG2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_CORS_ARP-!62774-1-17AUG2006.jpg</a>		Aug 17, 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\\_62774.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62774.pdf)

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

Mn/DOT Name: MNCORS PPST PIPESTONE L1PC1

NGS Name: PIPESTONE CORS L1 PHASE CENTER

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [!95713](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	7	106 N	46 W	440010.95	961931.06		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2006	2011	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	MNDT

**Description:** (2012)

**Stamping:**

IN PIPESTONE, 0.6 MILE NORTH ALONG TRUNK HIGHWAY 75 (8TH AVENUE SOUTHEAST) FROM THE WEST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, THEN 0.9 MILE WEST ALONG 4TH STREET NORTHEAST, ATTACHED TO A MINNESOTA DEPARTMENT OF TRANSPORTATION TRUCK STATION BUILDING. THE STATION IS IN A ZEPHYR GEODETIC ANTENNA SERIAL NUMBER 60108975.

**Station Notes**

NATIONAL GEODETIC SURVEY (NGS) SITE ID IS MNPP.

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

Geoid Separations(ft): GEOID18 = -85.604 12B = -85.597 09 = -85.499 03 = -85.331

\* 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/pipestone/PIPESTONE_CORS_L1_PHASE_CENTER-!95713-3S-10JUN2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_CORS_L1_PHASE_CENTER-!95713-3S-10JUN2009.jpg</a>	S	Jun 10, 2009
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_CORS_L1_PHASE_CENTER-195713-2-10JUN2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_CORS_L1_PHASE_CENTER-195713-2-10JUN2009.jpg</a>		Jun 10, 2009
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_CORS_L1_PHASE_CENTER-195713-1-10JUN2009.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_CORS_L1_PHASE_CENTER-195713-1-10JUN2009.jpg</a>		Jun 10, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_95713.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95713.pdf)



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

Mn/DOT Name: MNCORS PPST PIPESTONE L1PC2

NGS Name: PIPESTONE CORS L1 PHASE CENTER

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [!95714](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	7	106 N	46 W	440010.95	961931.06		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u> Horz=? Vert=?	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2011	GOOD		YES			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	MNDT

**Description:** (2012)

**Stamping:**

IN PIPESTONE, 0.6 MILE NORTH ALONG TRUNK HIGHWAY 75 (8TH AVENUE SOUTHEAST) FROM THE WEST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, THEN 0.9 MILE WEST ALONG 4TH STREET NORTHEAST, ATTACHED TO A MINNESOTA DEPARTMENT OF TRANSPORTATION TRUCK STATION BUILDING. STATION MNCORS PPST PIPESTONE L1PC2 IS IN A ZEPHYR GEODETIC LF MODEL 2 ANTENNA SERIAL NUMBER 1441109346.

**Station Notes**

NATIONAL GEODETIC SURVEY (NGS) SITE ID IS MNPP.

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

Geoid Separations(ft): GEOID18 = -85.604 12B = -85.597 09 = -85.499 03 = -85.331

\* 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/pipestone/PIPESTONE_CORS_L1_PHASE_CENTER-!95714-3N-09AUG2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_CORS_L1_PHASE_CENTER-!95714-3N-09AUG2011.jpg</a>	N	Aug 9, 2011
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_CORS_L1_PHASE_CENTER-2-09AUG2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_CORS_L1_PHASE_CENTER-2-09AUG2011.jpg</a>		Aug 9, 2011
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_CORS_L1_PHASE_CENTER-!95714-1-09AUG2011.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_CORS_L1_PHASE_CENTER-!95714-1-09AUG2011.jpg</a>		Aug 9, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_95714.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95714.pdf)



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

Mn/DOT Name: N 147

NGS Name: N 147

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0121](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	106 N	45 W	440012.00	961904.00	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	1987	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:** (1987)                      **Stamping:** N 147 1934

AT PIPESTONE, 0.5 MILE WEST ALONG 4TH STREET NORTHWEST FROM THE JUNCTION OF 4TH STREET NORTHWEST AND TRUNK HIGHWAY 75 IN PIPESTONE, AT THE INTERSECTION OF 4TH STREET NORTHWEST AND NORTH HIAWATHA AVENUE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1726.273	0.016	526.169	0.005	2/0	1991	00000025
NGVD29	1725.472	0.007	525.925	0.002	1	1953	Q440962

Geoid Separations(ft): GEOID18 = -85.600 12B = -85.594 09 = -85.495 03 = -85.328

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23672.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23672.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23672.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23672.pdf)



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

Mn/DOT Name: NOTHT

NGS Name: NOTHT

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP4272](#) [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>
NW	14	108 N	44 W	440939.98	960614.27	2	C

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

**Description:** (2014)                      **Stamping:** NOTHT 2014

1.0 MILE SOUTH OF RUTHTON, 0.3 MILE SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 18 WEST IN RUTHTON, AT TRUNK HIGHWAY 23 MILEPOINT 46.20, 71.3 FEET EAST OF TRUNK HIGHWAY 23, 36.1 FEET WEST-NORTHWEST OF A CABLE BOX, 33.8 FEET WEST-NORTHWEST OF A RIGHT-OF-WAY POST, 11.9 FEET SOUTH OF A FIELD ENTRANCE, 6.0 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	1726.611	0.016	526.272	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.797    12B = -85.817    09 = -85.728    03 = -85.607

Geodetic Position and Pipestone 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 09 39.98415	96 06 14.26506	538327.829	213758.245	164082.650	65153.644	500.117			2014	GPS3026	
NAD83 (1996)	44 09 39.98371	96 06 14.26543	538327.802	213758.201	164082.642	65153.630	500.197	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/pipestone/NOTHT-DP4272-3E-29APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/NOTHT-DP4272-3E-29APR2014.jpg</a>	E	Apr 29, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/NOTHT-DP4272-2-29APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/NOTHT-DP4272-2-29APR2014.jpg</a>		Apr 29, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/NOTHT-DP4272-1-29APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/NOTHT-DP4272-1-29APR2014.jpg</a>		Apr 29, 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\\_101313.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101313.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_101313.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101313.pdf)



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

Mn/DOT Name: NOVIA

NGS Name: NOVIA

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8910](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	107 N	45 W	440307.15	961754.65	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 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2010)                      **Stamping:** NOVIA 2010

3.4 MILES NORTH OF PIPESTONE, 3.4 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, TO TRUNK HIGHWAY 75 MILEPOINT 39.95, THEN 0.4 MILE EAST ON 141ST STREET, 31.0 FEET SOUTH OF 141ST STREET, 17.0 FEET WEST OF A FIELD ENTRANCE, 66.9 FEET SOUTH OF A CABLE PEN, 3.9 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	1749.767	0.016	533.330	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.413    12B = -85.413    09 = -85.325    03 = -85.180

Geodetic Position and Pipestone 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 03 07.15373	96 17 54.65176	487243.892	173945.511	148512.235	53018.698	507.298			2014	GPS3047	
NAD83 (1996)	44 03 07.15332	96 17 54.65181	487243.888	173945.470	148512.234	53018.685	507.368	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/pipestone/NOVIA-DN8910-3S-29DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/NOVIA-DN8910-3S-29DEC2010.jpg</a>	S	Dec 29, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/NOVIA-DN8910-2-29DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/NOVIA-DN8910-2-29DEC2010.jpg</a>		Dec 29, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/NOVIA-DN8910-1-29DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/NOVIA-DN8910-1-29DEC2010.jpg</a>		Dec 29, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93353.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93353.pdf)





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

Mn/DOT Name: OLSON

NGS Name: OLSON

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP9045](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096144/  
 USGS Quad: JASPER 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	16	106 N	46 W	435939.48	962316.02	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
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 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2015)                      **Stamping:** OLSON 2015

3.85 MILES WEST OF PIPESTONE, 3.85 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 SOUTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 3.95, 67.3 FEET SOUTH OF TRUNK HIGHWAY 30, 48.7 FEET EAST OF 40TH AVENUE, 4.6 FEET NORTH OF CABLE BOX T 552 B5A, 1.5 FEET NORTH OF A WITNESS POST.

**Station Pair:** HUBERS - PIPESTONE, 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	1641.942	0.016	500.465	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.626    12B = -85.617    09 = -85.518    03 = -85.357

Geodetic Position and Pipestone 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)	43 59 39.47652	96 23 16.02096	463736.797	152940.600	141347.259	46616.388	474.365			2015	GPS3109
NAD83 (1996)	43 59 39.47628	96 23 16.02160	463736.750	152940.576	141347.244	46616.381	474.431	C		2015	HWLSN

**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/pipestone/OLSON-DP9045-3S-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/OLSON-DP9045-3S-12MAY2015.jpg</a>	S	May 12, 2015
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/OLSON-DP9045-2-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/OLSON-DP9045-2-12MAY2015.jpg</a>		May 12, 2015
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/OLSON-DP9045-1-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/OLSON-DP9045-1-12MAY2015.jpg</a>		May 12, 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\\_103467.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103467.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_103467.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103467.pdf)



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

Mn/DOT Name: OSB CNT

NGS Name: OSB CNT

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DH3138](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	105 N	44 W	435331.88	960805.48		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>
2003	2021	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	MN-117

**Description:** (2003)                      **Stamping:** OSB CNT 2003

0.5 MILE NORTH OF EDGERTON, 1.0 MILE NORTH ALONG COUNTY ROAD 17/ 165TH AVENUE FROM THE JUNCTION OF COUNTY ROAD 17 AND TRUNK HIGHWAY 268 IN EDGERTON, 58.0 FEET WEST OF COUNTY ROAD 17/ 165TH AVENUE, 27.0 FEET NORTH OF 31ST STREET, 10.3 FEET WEST OF A TELEPHONE PEDESTAL, 1.2 FEET SOUTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -86.105    12B = -86.089    09 = -85.968    03 = -85.827

Geodetic Position and Pipestone 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)	43 53 31.87846	96 08 05.47477	530357.185	115705.357	161653.193	35267.064	467.239		2012	GPS2800
NAD83 (2007)	43 53 31.87841	96 08 05.47574	530357.114	115705.352	161653.172	35267.062	467.273		2007	GPS2300
NAD83 (1996)	43 53 31.87813	96 08 05.47493	530357.174	115705.324	161653.190	35267.053	467.308	C	2005	GPS2097

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/pipestone/OSB_CNT-DH3138-3N-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/OSB_CNT-DH3138-3N-04MAY2021.jpg</a>	N	May 4, 2021
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/OSB_CNT-DH3138-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/OSB_CNT-DH3138-2-04MAY2021.jpg</a>		May 4, 2021
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/OSB_CNT-DH3138-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/OSB_CNT-DH3138-1-04MAY2021.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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_50724.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_50724.pdf)



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

Mn/DOT Name: OSB MNDT

NGS Name: OSB

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0654](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<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	105 N	44 W	435456.93	961103.87		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	1994	GOOD	Horz=? Vert=YES	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:** (1980)                      **Stamping:** OSB 1980

4.0 MILES NORTHWEST OF EDGERTON, 2.24 MILES WEST ON TRUNK HIGHWAY 268 FROM THE JUNCTION OF TRUNK HIGHWAY 268 AND COUNTY ROAD 17 AT EDGERTON, THEN 2.6 MILES NORTH ON COUNTY ROAD 16, 17.3 FEET EAST OF COUNTY ROAD 16, 7.0 FEET SOUTH OF A FIELD ENTRANCE, 53.8 FEET NORTHWEST OF A POWER POLE, 60.40 FEET SOUTHWEST OF OSB MNDT RM 1, 35.29 FEET NORTHWEST OF OSB MNDT RM 2, 37.8 FEET WEST-NORTHWEST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.981 12B = -85.961 09 = -85.846 03 = -85.692

Geodetic Position and Pipestone 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)	43 54 56.93376	96 11 03.87342	517285.558	124304.416	157668.953	37888.062	487.361	2	1999	17648		
NAD83 (1986)	43 54 56.93369	96 11 03.85618	517286.819	124304.411	157669.338	37888.060		2	1986	17289		
NAD27	43 54 57.04113	96 11 02.75716						2	1982	16710		

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

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

Mn/DOT Name: OSB MNDT AZ MK

NGS Name: OSB AZ MK

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0653](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	31	106 N	44 W	435627.47	961103.60		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>
1980	2021	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)	AZIMUTH MARK DISK	MNDT

**Description:** (1980)                      **Stamping:** OSB 1980

4.8 MILES NORTHWEST OF EDGERTON, 1.2 MILES SOUTH ALONG COUNTY ROAD 16 FROM A RAILROAD CROSSING AT HATFIELD, 2.45 MILES WEST ALONG TRUNK HIGHWAY 268 FROM THE JUNCTION OF TRUNK HIGHWAY 268 AND COUNTY ROAD 17 AT EDGERTON, THEN 4.35 MILES NORTH ALONG COUNTY ROAD 16, 48.0 FEET EAST OF COUNTY ROAD 16, 25.0 FEET SOUTH OF A FIELD ENTRANCE, 51.0 FEET SOUTH OF A POWER POLE, 2.0 FEET WEST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.892    12B = -85.869    09 = -85.758    03 = -85.604

Geodetic Position and Pipestone 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)	43 56 27.47288	96 11 03.60253	517298.086	133473.178	157672.772	40682.706	476.978		2012	GPS2800
NAD83 (2007)	43 56 27.47283	96 11 03.60350	517298.015	133473.172	157672.750	40682.704	477.009		2007	GPS2300
NAD83 (1996)	43 56 27.47253	96 11 03.60273	517298.071	133473.142	157672.768	40682.695	477.045	C	2005	GPS2097
NAD83 (1986)	43 56 27.47249	96 11 03.58264	517299.542	133473.139	157673.216	40682.694		3	1986	17289
NAD27	43 56 27.58058	96 11 02.48470						3	1982	16710

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/pipestone/OSB_AZ_MK-OQ0653-3E-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/OSB_AZ_MK-OQ0653-3E-04MAY2021.jpg</a>	E	May 4, 2021
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/OSB_AZ_MK-OQ0653-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/OSB_AZ_MK-OQ0653-2-04MAY2021.jpg</a>		May 4, 2021
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/OSB_AZ_MK-OQ0653-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/OSB_AZ_MK-OQ0653-1-04MAY2021.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:

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

Mn/DOT Name: OSB MNDT RM 1

NGS Name: OSB RM 1

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO3403](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<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	105 N	44 W	435457.49	961103.57		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	1980	GOOD	Horz=? Vert=YES	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:** **Stamping:** OSB NO 1 1980

4.0 MILES NORTHWEST OF EDGERTON, 2.24 MILES WEST ON TRUNK HIGHWAY 268 FROM THE JUNCTION OF TRUNK HIGHWAY 268 AND COUNTY ROAD 17 IN EDGERTON, THEN 2.6 MILES NORTH ON COUNTY ROAD 16, 39.7 FEET EAST OF THE CENTERLINE OF COUNTY ROAD 16, 48.0 FEET NORTH OF THE CENTER OF A FIELD ENTRANCE, 98.0 FEET NORTH-NORTHWEST OF A POWER POLE, 75.6 FEET NORTH-NORTHWEST OF A STEEL WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.984 12B = -85.964 09 = -85.846 03 = -85.692

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: OSB MNDT RM 2

NGS Name: OSB RM 2

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO3404](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<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	105 N	44 W	435456.75	961103.46		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	1980	GOOD	Horz=? Vert=YES	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:** **Stamping:** OSB NO 2 1980

4.0 MILES NORTHWEST OF EDGERTON, 2.24 MILES WEST ON TRUNK HIGHWAY 268 FROM THE JUNCTION OF TRUNK HIGHWAY 268 AND COUNTY ROAD 17 IN EDGERTON, THEN 2.6 MILES NORTH ON COUNTY ROAD 16, 47.7 FEET EAST OF THE CENTERLINE OF COUNTY ROAD 16, 25.0 FEET SOUTH OF THE CENTER OF A FIELD ENTRANCE, 23.7 FEET NORTH-NORTHWEST OF A POWER POLE, 2.8 FEET WEST OF A FENCE, 2.5 FEET WEST OF A STEEL WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.984 12B = -85.964 09 = -85.846 03 = -85.692

\* No Horizontal Positions in the Database \*

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67283.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67283.pdf)



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

Mn/DOT Name: P 7

NGS Name: P 7

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0071](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	5	106 N	45 W	440122.50	961616.42	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>
1933	2001	GOOD	Horz=NO Vert=NO	NO		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

**Description:** (2001) **Stamping:** P 7 193 1744.937

2.3 MILES NORTHEAST OF PIPESTONE, 2.3 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 59 IN PIPESTONE, TO TRUNK HIGHWAY 23 MILEPOINT 132.9, 0.4 MILE NORTHEAST OF RAILROAD MILEPOST 103, 83.0 FEET SOUTHWEST OF AN EAST-WEST GRAVEL ROAD CROSSING, 44.9 FEET NORTHWEST OF THE NORTHWEST RAIL OF THE RAILROAD TRACKS, 146.0 FEET NORTHWEST OF TRUNK HIGHWAY 23, 31.2 FEET SOUTH OF 121ST STREET, 3.0 FEET SOUTHEAST OF A FENCE, 1.3 FEET 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	1745.738	0.007	532.102	0.002	1/2	1991	00000025
NGVD29	1744.937	0.007	531.858	0.002	1/2	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -85.538 12B = -85.525 09 = -85.436 03 = -85.282

**Geodetic Position and Pipestone 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 01 22.49559	96 16 16.42018	494415.741	163343.728	150698.219	49787.268	506.025			2012	GPS2800	
NAD83 (2007)	44 01 22.49553	96 16 16.42112	494415.672	163343.722	150698.198	49787.266	506.055			2007	GPS2300	
NAD83 (1996)	44 01 22.49520	96 16 16.42004	494415.751	163343.689	150698.222	49787.256	506.099	C		2002	GPS1720	

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

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

Mn/DOT Name: PIPE

NGS Name: PIPE

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8915](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	106 N	46 W	440009.81	961828.40	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	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 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2012)                      **Stamping:** PIPE 2010

IN PIPESTONE, AT THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 36.6, 99.8 FEET WEST OF TRUNK HIGHWAY 75, 71.4 FEET SOUTHEAST OF THE SOUTHEAST RAIL OF THE RAILROAD TRACKS, 71.9 FEET NORTHWEST OF HIGH TENSION POWER POLE NUMBER 64, 2.0 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	1721.936	0.016	524.847	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.604    12B = -85.597    09 = -85.495    03 = -85.331

Geodetic Position and Pipestone 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 00 09.81117	96 18 28.40261	484766.210	155987.624	147757.036	47545.123	498.752			2014	GPS3026	
NAD83 (1996)	44 00 09.81077	96 18 28.40282	484766.195	155987.584	147757.032	47545.111	498.828	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/pipestone/PIPE-DN8915-3W-29DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPE-DN8915-3W-29DEC2010.jpg</a>	W	Dec 29, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPE-DN8915-2-29DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPE-DN8915-2-29DEC2010.jpg</a>		Dec 29, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPE-DN8915-1-29DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPE-DN8915-1-29DEC2010.jpg</a>		Dec 29, 2010

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93309.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93309.pdf)





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

Mn/DOT Name: PIPE MNDT

NGS Name: PIPE

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0694](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	23	106 N	46 W	435846.82	962051.83		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	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>
UNKNOWN	HORIZONTAL CONTROL DISK	MNDT

**Description:** (1980)                      **Stamping:** PIPE 1980

1.5 MILES SOUTHWEST OF PIPESTONE, 2.0 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 AT PIPESTONE, THEN 1.0 MILE SOUTH ALONG COUNTY ROAD 55, 22.0 FEET EAST OF COUNTY ROAD 55, 22.0 FEET SOUTH OF AN EAST-WEST GRAVEL ROAD, 62.0 FEET NORTHWEST OF A GRAVEL ROAD, 55.0 FEET SOUTH-SOUTHWEST OF A POWER POLE, 835.0 FEET SOUTHEAST OF A POWER POLE, 92.59 FEET NORTHWEST OF PIPE MNDT RM 1, 117.57 FEET NORTH-NORTHWEST OF PIPE MNDT RM 2, 90.7 FEET NORTHWEST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.689 12B = -85.679 09 = -85.581 03 = -85.410

Geodetic Position and Pipestone 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)	43 58 46.82117	96 20 51.83101	474271.940	147593.179	144558.376	44986.491	498.240	2	1999	17648		
NAD83 (1986)	43 58 46.82170	96 20 51.81195	474273.334	147593.231	144558.801	44986.507		2	1986	17289		
NAD27	43 58 46.92656	96 20 50.67805						2	1982	16710		

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

Mn/DOT Name: PIPE MNDT RM 1

NGS Name: PIPE RM 1

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO3481](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	23	106 N	46 W	435846.41	962050.70		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	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>
UNKNOWN	REFERENCE MARK DISK	MNDT

**Description:** **Stamping:** PIPE NO 1 1980

1.5 MILES SOUTHWEST OF PIPESTONE, 2.0 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, THEN 1.0 MILE SOUTH ALONG COUNTY ROAD 55, 105.0 FEET SOUTH OF TRUNK HIGHWAY 34/ 91ST STREET, 104.0 FEET EAST OF COUNTY ROAD 55/ 60TH AVENUE, 63.5 FEET SOUTH OF A GRAVEL ROAD, 24.0 FEET SOUTHEAST OF A GRAVEL ROAD, 3.7 FEET NORTHEAST OF A STEEL WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.689 12B = -85.679 09 = -85.581 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:

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

Mn/DOT Name: PIPE MNDT RM 2

NGS Name: PIPE RM 2

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO3482](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	106 N	46 W	435845.67	962051.61		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	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>
UNKNOWN	REFERENCE MARK DISK	MNDT

**Description:** **Stamping:** PIPE NO 2 1980

1.5 MILES SOUTHWEST OF PIPESTONE, 2.0 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, THEN 1.0 MILE SOUTH ALONG COUNTY ROAD 55, 37.0 FEET EAST OF COUNTY ROAD 55, 22.0 FEET SOUTHEAST OF A GRAVEL ROAD, 11.5 FEET NORTHEAST OF A POWER POLE, 95.2 FEET SOUTHWEST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.689 12B = -85.679 09 = -85.581 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:

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

Mn/DOT Name: PIPEPORT

NGS Name: PIPEPORT

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ1059](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

				<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	18	106 N	45 W	435909.03	961757.69	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>
1990	2015	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE) (DEPTH 59 FT)	METAL ROD	NGS

**Description:** (2008)                      **Stamping:** PIPEPORT 1990

0.5 MILE SOUTH OF PIPESTONE, 0.55 MILE SOUTHEAST ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, THEN 0.1 MILE WEST-SOUTHWEST ON AN AIRPORT ACCESS ROAD TO THE AIRPORT OFFICE, AT THE AIRPORT, 400.0 FEET WEST-NORTHWEST OF THE AIRPORT OFFICE, 42.0 FEET WEST OF A NEWER EAST TAXIWAY MARKER LIGHT OF RUNWAY 18-36, 45.0 FEET EAST OF THE EAST EDGE OF RUNWAY 18-36, 45.8 FEET SOUTH OF THE SOUTH EDGE OF A TAXIWAY.

**Station Notes**

CONTACT THE AIRPORT MANAGER BEFORE USE. PIPESTONE MUNICIPAL AIRPORT.

**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	1735.102	0.016	528.860	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.666    12B = -85.653    09 = -85.554    03 = -85.384

**Geodetic Position and Pipestone 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)	43 59 09.03016	96 17 57.69000	487007.552	149830.908	148440.199	45668.552	502.745		2014	GPS3047
NAD83 (2007)	43 59 09.03011	96 17 57.69091	487007.485	149830.903	148440.178	45668.551	502.775		2007	GPS2300
NAD83 (1996)	43 59 09.02964	96 17 57.69013	487007.542	149830.855	148440.196	45668.536	502.818	B	2005	GPS2036
NAD83 (1986)	43 59 09.02920	96 17 57.67245	487008.835	149830.810	148440.590	45668.522		2	1991	GPS194
NAD27	43 59 09.13621	96 17 56.55263						2	1991	17504

**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/pipestone/PIPEPORT-OQ1059-3W-08OCT2008.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPEPORT-OQ1059-3W-08OCT2008.jpg</a>	W	Oct 8, 2008
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPEPORT-OQ1059-2-08OCT2008.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPEPORT-OQ1059-2-08OCT2008.jpg</a>		Oct 8, 2008
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPEPORT-OQ1059-1-08OCT2008.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPEPORT-OQ1059-1-08OCT2008.jpg</a>		Oct 8, 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:

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

Mn/DOT Name: PIPEPORT AZ MK

NGS Name: PIPEPORT AZ MK

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ1086](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	18	106 N	45 W	435838.51	961800.58		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>
1990	2010	NOT FOUND	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (NO SLEEVE) (DEPTH 52 FT)	METAL ROD	NGS

**Description:** (2001)                      **Stamping:** PIPEPORT AZ MK 1990

1.2 MILES SOUTH OF PIPESTONE, 0.55 MILE SOUTHEAST ALONG TRUNK HIGHWAY 75 FROM THE TEE-JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, THEN 0.15 MILE WEST-SOUTHWEST TO A RUNWAY, THEN 0.6 MILE SOUTH ALONG A RUNWAY, 22.6 FEET EAST OF A RUNWAY LIGHT, 32.7 FEET EAST OF RUNWAY 18-36, 48.2 FEET NORTH-NORTHWEST OF THE NORTH EDGE OF A POINT OF TANGENT OF A TURNAROUND, 3.1 FEET WEST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.699    12B = -85.682    09 = -85.581    03 = -85.413

Geodetic Position and Pipestone 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)	43 58 38. 51168	96 18 00. 58221	486794. 197	146740. 454	148375. 168	44726. 580	500. 560			2012	GPS2800	
NAD83 (2007)	43 58 38. 51163	96 18 00. 58313	486794. 130	146740. 449	148375. 148	44726. 578	500. 589			2007	GPS2300	
NAD83 (1996)	43 58 38. 51116	96 18 00. 58232	486794. 189	146740. 401	148375. 166	44726. 564	500. 631	C		2002	GPS1720	
NAD83 (1986)	43 58 38. 51079	96 18 00. 56497	486795. 458	146740. 363	148375. 552	44726. 552			2	1991	GPS194	
NAD27	43 58 38. 61779	96 17 59. 44498							2	1991	17504	

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

Mn/DOT Name: PIPESTONE

NGS Name: PIPESTONE

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0806](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/1003  
 USGS Quad: PIPESTONE NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	106 N	46 W	440113.02	961902.10		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	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)	TRIANGULATION STATION DISK	NGS

**Description:** (2008)                      **Stamping:** PIPESTONE 1935

1.25 MILES NORTH OF PIPESTONE, 1.2 MILES NORTH ALONG HIAWATHA AVENUE FROM THE JUNCTION OF HIAWATHA AVENUE AND SECOND STREET EAST TO A ROAD FORK IN PIPESTONE, THEN 0.1 MILE NORTH ON A BITUMINOUS ROAD, 173.0 FEET SOUTH OF AN EAST-WEST ROAD, 123.0 FEET EAST OF A NORTH-SOUTH ROAD, 103.5 FEET SOUTH OF THE SOUTH EDGE OF AN OLD TENNIS COURT, 126.0 FEET NORTHWEST OF THE NORTHWEST CORNER OF A HOUSE, 167.40 FEET SOUTHWEST OF PIPESTONE RM 1, 144.12 FEET SOUTHEAST OF PIPESTONE RM 2.

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

Geoid Separations(ft): GEOID18 = -85.538    12B = -85.531    09 = -85.439    03 = -85.275

Geodetic Position and Pipestone 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 01 13. 02063	96 19 02. 10266	482308. 029	162390. 696	147007. 781	49496. 783	499. 979	2	1999	17648		
NAD83 (1986)	44 01 13. 02124	96 19 02. 08397	482309. 395	162390. 757	147008. 198	49496. 802		2	1986	17289		
NAD27	44 01 13. 12000	96 19 00. 95400						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:

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

Mn/DOT Name: PIPESTONE AZ MK

NGS Name: PIPESTONE AZ MK

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO9413](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/1003  
 USGS Quad: PIPESTONE NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	1	106 N	46 W	440052.00	961903.00		

<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	1967	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 6 IN.	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	NGS

**Description:** **Stamping:** PIPESTONE 1935

0.6 MILE NORTH OF PIPESTONE, 1.4 MILES NORTH ALONG HIAWATHA AVENUE FROM THE JUNCTION OF HIAWATHA AVENUE AND TRUNK HIGHWAY 30 IN PIPESTONE, 115.0 FEET WEST OF THE CENTERLINE OF HIAWATHA AVENUE, 270.0 FEET EAST OF THE CENTERLINE OF THE RAILROAD TRACKS, 65.0 FEET NORTH OF A SLIGHTLY-CURVING EAST-WEST GRAVEL ROAD, 1.0 FOOT SOUTH OF AN EAST-WEST FENCE LINE.

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

Geoid Separations(ft): GEOID18 = -85.561 12B = -85.554 09 = -85.459 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:

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

Mn/DOT Name: PIPESTONE AZ MK 2

NGS Name: PIPESTONE AZ MK 2

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO9414](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/1003  
 USGS Quad: PIPESTONE NORTH

<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	106 N	46 W	440052.00	961903.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	2010	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	NGS

**Description:** (2007)                      **Stamping:** PIPESTONE AZ MK 2 1935 1967

5223.0 FEET NORTH OF PIPESTONE, 0.8 MILE NORTH ON NORTH HIAWATHA AVENUE FROM THE JUNCTION OF NORTH HIAWATHA AVENUE AND 4TH STREET NORTHWEST IN PIPESTONE, CEMENTED IN A DRILL HOLE IN THE TOP OF THE SECOND BRIDGE ABUTMENT FROM THE NORTH END OF A CONCRETE BRIDGE, 13.5 FEET SOUTH OF THE NORTHEAST CORNER OF BRIDGE ABUTMENT, 4.5 FEET ABOVE THE ROAD.

**Station Notes**  
THE BRIDGE WAS REPLACED IN 1991.

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

Geoid Separations(ft): GEOID18 = -85.561    12B = -85.554    09 = -85.459    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:

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

Mn/DOT Name: PIPESTONE CTHSE STATUE ON DOME

NGS Name: PIPESTONE CTHSE STATUE ON DOME

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0685](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/1026  
 USGS Quad: PIPESTONE SOUTH

<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	12	106 N	46 W	435950.65	961906.15		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	2008	POOR	Horz=? Vert=?	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	DOME	NGS

**Description:** (1935)

**Stamping:**

IN THE WEST CENTRAL PART OF PIPESTONE, 2.0 BLOCKS NORTH ALONG HIAWATHA AVENUE FROM THE JUNCTION OF HIAWATHA AVENUE AND TRUNK HIGHWAY 30, AT THE NORTHWEST CORNER OF SOUTH HIAWATHA AVENUE AND 4TH STREET SOUTHEAST.

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

Geoid Separations(ft): GEOID18 = -85.623 12B = -85.617 09 = -85.515 03 = -85.348

Geodetic Position and Pipestone 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)	43 59 50.64914	96 19 06.15281	482005.142	154049.208	146915.461	46954.293		4	1999	17648
NAD83 (1986)	43 59 50.64937	96 19 06.13411	482006.508	154049.231	146915.878	46954.299		4	1986	17289
NAD27	43 59 50.74900	96 19 05.00600						4	1938	03790

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

Mn/DOT Name: PIPESTONE EAST WATER TANK

NGS Name: PIPESTONE EAST WATER TANK

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0689](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	106 N	45 W	435910.01	961713.96		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>
1981	1981	GOOD	Horz=? Vert=?	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	STANDPIPE TANK	MNDT

**Description:** (1981)

**Stamping:**

0.8 MILE SOUTHEAST OF PIPESTONE, 0.7 MILE SOUTHEAST ALONG TRUNK HIGHWAY 75 FROM THE EASTERN JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, THEN 0.4 MILE EAST ON FORMAN DRIVE.

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

Geoid Separations(ft): GEOID18 = -85.669 12B = -85.653 09 = -85.554 03 = -85.387

Geodetic Position and Pipestone 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)	43 59 10.00607	96 17 13.95570	490205.388	149928.059	149414.901	45698.164		4	1999	17648
NAD83 (1986)	43 59 10.00621	96 17 13.93690	490206.763	149928.073	149415.320	45698.168		4	1986	17289
NAD27	43 59 10.11119	96 17 12.81669						4	1982	16710

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

Mn/DOT Name: PIPESTONE INDIAN SCHOOL TANK

NGS Name: PIPESTONE INDIAN SCHOOL TANK

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0804](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/1011  
 USGS Quad: PIPESTONE NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	106 N	46 W	440117.98	961858.64		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>
1967	1967	GOOD	Horz=? Vert=?	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	ELEVATED TANK	NGS

**Description:** (1967)

**Stamping:**

1.3 MILES NORTH OF PIPESTONE, 0.7 MILE NORTH ALONG HIAWATHA AVENUE FROM THE JUNCTION OF HIAWATHA AVENUE AND COUNTY ROAD 22 IN PIPESTONE, THEN 0.15 MILE EAST AND NORTH ON COUNTY ROAD 67, AT THE PIPESTONE INDIAN SCHOOL, IN THE NORTHEAST PORTION OF THE CAMPUS, 125.0 FEET HIGH, BLACK BODY AND TOP, 562.0 FEET NORTH-NORTHEAST OF STATION PIPESTONE.

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

Geoid Separations(ft): GEOID18 = -85.531 12B = -85.525 09 = -85.433 03 = -85.272

Geodetic Position and Pipestone 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 01 17. 97962	96 18 58. 64267	482561. 276	162892. 687	147084. 971	49649. 790	499. 981	4	1999	17648		
NAD83 (1986)	44 01 17. 98022	96 18 58. 62398	482562. 642	162892. 747	147085. 387	49649. 809		4	1986	17289		
NAD27	44 01 18. 08000	96 18 57. 49000						4	1986	10744		

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23682.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23682.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23682.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23682.pdf)



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

Mn/DOT Name: PIPESTONE KLOH E MAST

NGS Name: PIPESTONE KLOH E MAST

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0688](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/1035  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	106 N	46 W	435942.53	962040.64		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	RADIO/TV MAST	NGS

**Description:** (1966)

**Stamping:**

1.5 MILES WEST OF PIPESTONE, 1.5 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 IN PIPESTONE, ON THE NORTH SIDE OF TRUNK HIGHWAY 30.

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

Geoid Separations(ft): GEOID18 = -85.636 12B = -85.626 09 = -85.531 03 = -85.364

Geodetic Position and Pipestone 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)	43 59 42.52875	96 20 40.63901	475096.841	153233.689	144809.807	46705.722	4	1999	17648			
NAD83 (1986)	43 59 42.52879	96 20 40.61987	475098.241	153233.691	144810.233	46705.722	4	1986	17289			
NAD27	43 59 42.64805	96 20 39.49164					4	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/pipestone/PIPESTONE_KLOH_E_MAST-OQ0688-3N-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_KLOH_E_MAST-OQ0688-3N-28APR2015.jpg</a>	N	Apr 28, 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\\_23683.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23683.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23683.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23683.pdf)



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

Mn/DOT Name: PIPESTONE KLOH W MAST

NGS Name: PIPESTONE KLOH W MAST

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0687](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/1036  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	106 N	46 W	435943.59	962043.41		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>
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	RADIO/TV MAST	NGS

**Description:** (1966)

**Stamping:**

1.5 MILES WEST OF PIPESTONE, 1.5 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 IN PIPESTONE, ON THE NORTH SIDE OF TRUNK HIGHWAY 30.

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

Geoid Separations(ft): GEOID18 = -85.633 12B = -85.623 09 = -85.531 03 = -85.364

Geodetic Position and Pipestone 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)	43 59 43.58535	96 20 43.40937	474894.432	153340.923	144748.112	46738.407	4	1999	17648			
NAD83 (1986)	43 59 43.58557	96 20 43.39018	474895.835	153340.944	144748.540	46738.413	4	1986	17289			
NAD27	43 59 43.70531	96 20 42.26571					4	1977	15955			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_KLOH_W_MAST-OQ0687-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_KLOH_W_MAST-OQ0687-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:			

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

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23684.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23684.pdf)



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

Mn/DOT Name: PIPESTONE MAGNETIC STATION

NGS Name: PIPESTONE MAGNETIC STA

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0807](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/1003  
 USGS Quad: PIPESTONE NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	106 N	46 W	440113.06	961902.10		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1909	2008	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ROCK (1 TO 3 METERS)	SURVEY DISK	NGS

**Description:** (2008)

**Stamping:**

1.25 MILES NORTH OF PIPESTONE, 1.2 MILES NORTH ALONG HIAWATHA AVENUE FROM THE JUNCTION OF SECOND STREET EAST AND HIAWATHA AVENUE TO A ROAD FORK IN PIPESTONE, THEN CONTINUE NORTH 0.1 MILE ON A BITUMINOUS ROAD, 3.81 FEET NORTH OF STATION PIPESTONE, IN 1994 A NORTHERN STATES POWER COUNTY SURVEYOR FOUND A REST HOME BUILT AT THE STATION SITE.

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

Geoid Separations(ft): GEOID18 = -85.538 12B = -85.531 09 = -85.439 03 = -85.275

Geodetic Position and Pipestone 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 01 13.05816	96 19 02.09860	482308.329	162394.496	147007.873	49497.942	499.979	2	1999	17648		
NAD83 (1986)	44 01 13.05877	96 19 02.07991	482309.694	162394.557	147008.289	49497.960		2	1986	17289		
NAD27	44 01 13.15800	96 19 00.95000						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\\_23685.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23685.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23685.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23685.pdf)



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

Mn/DOT Name: PIPESTONE MUN RNWY 18

NGS Name: PIPESTONE MUN RNWY 18

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ1087](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	106 N	45 W	435919.70	961757.90		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>
	1989	GOOD	Horz=YES Vert=?	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	UNMONUMENTED	NGS

**Description:**

0.5 MILE SOUTH OF PIPESTONE, 0.55 MILE SOUTHEAST ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, THEN 0.1 MILE WEST-SOUTHWEST TO THE AIRPORT OFFICE, NORTH END OF RUNWAY 18-36.

**Stamping:**

**Station Notes**

CONTACT THE AIRPORT MANAGER BEFORE USE. PIPESTONE MUNICIPAL AIRPORT.

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

Geoid Separations(ft): GEOID18 = -85.656 12B = -85.643 09 = -85.544 03 = -85.374

**Geodetic Position and Pipestone 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)	43 59 19.70611	96 17 57.87158	486994.923	150912.062	148436.349	45998.088	502.670	3	1999	17648		
NAD27	43 59 19.00000	96 17 56.00000							1991	17504		

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_65635.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65635.pdf)

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

Mn/DOT Name: PIPESTONE MUN RNWY 36

NGS Name: PIPESTONE MUN RNWY 36

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ1088](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	19	106 N	45 W	435837.30	961801.70		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
	1989	GOOD	Horz=YES Vert=?	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	UNMONUMENTED	NGS

**Description:**

0.5 MILE SOUTH OF PIPESTONE, 0.55 MILE SOUTHEAST ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, THEN 0.1 MILE WEST-SOUTHWEST TO THE AIRPORT OFFICE, SOUTH END OF RUNWAY 18-36.

**Stamping:**

**Station Notes**

CONTACT THE AIRPORT MANAGER BEFORE USE. PIPESTONE MUNICIPAL AIRPORT.

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

Geoid Separations(ft): GEOID18 = -85.699 12B = -85.686 09 = -85.584 03 = -85.413

**Geodetic Position and Pipestone 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)	43 58 37.30840	96 18 01.64894	486716.114	146618.646	148351.368	44689.453	501.068	3	1999	17648		
NAD27	43 58 37.00000	96 18 00.00000							1991	17504		

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_65636.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65636.pdf)

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

Mn/DOT Name: PIPESTONE MUNICIPAL STANDPIPE

NGS Name: PIPESTONE MUNICIPAL STANDPIPE

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0805](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/1010  
 USGS Quad: PIPESTONE NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	106 N	46 W	440005.82	961839.20		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u> Horz=? Vert=?	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u> SEE DESCRIPTION
1935	1981	GOOD		NO			

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	STANDPIPE TANK	NGS

**Description:** (1981)

**Stamping:**

IN THE NORTHEAST PART OF PIPESTONE, 6.0 BLOCKS NORTH ALONG HIAWATHA AVENUE FROM THE JUNCTION OF HIAWATHA AVENUE AND TRUNK HIGHWAY 30 IN PIPESTONE, THEN 4.5 BLOCKS EAST ON 2ND STREET, BETWEEN SECOND STREET NORTHEAST AND A RAILROAD.

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

Geoid Separations(ft): GEOID18 = -85.607 12B = -85.600 09 = -85.499 03 = -85.334

Geodetic Position and Pipestone 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 00 05.82024	96 18 39.20176	483976.517	155584.033	147516.337	47422.108		4	1999	17648
NAD83 (1986)	44 00 05.82082	96 18 39.18324	483977.870	155584.091	147516.750	47422.126		4	1986	17289
NAD27	44 00 05.92100	96 18 38.05500						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\\_23686.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23686.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23686.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23686.pdf)



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

Mn/DOT Name: PIPESTONE RM 1

NGS Name: PIPESTONE RM 1

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO9415](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/1003  
 USGS Quad: PIPESTONE NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	106 N	46 W	440114.00	961859.00		

<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=? Vert=YES	NO		RECESSED 1 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:** (2007)                      **Stamping:** PIPESTONE NO 1 1935

1.25 MILES NORTH OF PIPESTONE, 1.2 MILES NORTH ALONG HIAWATHA AVENUE FROM THE JUNCTION OF HIAWATHA AVENUE AND SECOND STREET EAST TO A ROAD FORK IN PIPESTONE, THEN NORTH 0.1 MILE ON A BITUMINOUS ROAD, 62.5 FEET NORTHWEST OF THE NORTHWEST CORNER OF A REST HOME, 19.0 FEET SOUTH-SOUTHEAST OF THE SOUTH EDGE OF A FIRE HYDRANT, 2.0 FEET WEST OF THE WEST EDGE OF A SIDE WALK.

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

Geoid Separations(ft): GEOID18 = -85.535    12B = -85.531    09 = -85.436    03 = -85.275

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67288.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67288.pdf)

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

Mn/DOT Name: PIPESTONE RM 2

NGS Name: PIPESTONE RM 2

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO9416](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/1003  
 USGS Quad: PIPESTONE NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	106 N	46 W	440113.00	961901.00		

<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=? Vert=YES	NO		RECESSED 1 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:** (2007)                      **Stamping:** PIPESTONE NO 2 1935

1.25 MILES NORTH OF PIPESTONE, 1.2 MILES NORTH ALONG HIAWATHA AVENUE FROM THE JUNCTION OF HIAWATHA AVENUE AND SECOND STREET EAST TO A ROAD FORK IN PIPESTONE, THEN NORTH 0.1 MILE ON A BITUMINOUS ROAD, 87.0 FEET WEST OF THE SOUTHWEST CORNER OF AN OLD TENNIS COURT, 28.0 FEET EAST OF A SURFACED ROAD, 11.0 FEET SOUTH OF A 24.0 INCH DIAMETER TREE.

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

Geoid Separations(ft): GEOID18 = -85.538    12B = -85.531    09 = -85.439    03 = -85.275

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67289.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67289.pdf)

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

Mn/DOT Name: PIPESTONE STATE MN RADIO TOWER

NGS Name: PIPESTONE STATE MN RADIO TOWER

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u> Horz=? Vert=?	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u> SEE DESCRIPTION	<u>Mon. Agency</u>
SE	29	106 N	45 W	435959.00	961812.00			1981	1981	GOOD		NO				MNDT
						<u>Disk Type</u>								<u>Mon. Agency</u>		
<u>Monument Type</u>												<u>Disk Type</u>		<u>Mon. Agency</u>		
SEE DESCRIPTIVE TEXT												SURVEY DISK		MNDT		

**Description:** (1981)

**Stamping:**

IN PIPESTONE, 4.0 BLOCKS NORTH ALONG 10TH AVENUE FROM THE JUNCTION OF 10TH AVENUE AND TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, TO THE INTERSECTION OF 2ND STREET AND 10TH AVENUE, 400.0 FEET EAST OF TRUNK HIGHWAY 75.

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

Geoid Separations(ft): GEOID18 = -85.613 12B = -85.607 09 = -85.508 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23687.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23687.pdf)



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

Mn/DOT Name: PIPESTONE WATER TANK

NGS Name: PIPESTONE WATER TANK

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0693](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	13	106 N	46 W	435930.69	961923.99		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>
1981	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	MNDT

**Description:** (1981)

**Stamping:**

IN THE SOUTHWEST PART OF PIPESTONE, 1.0 BLOCK SOUTH ALONG 5TH AVENUE FROM THE JUNCTION OF 5TH AVENUE AND TRUNK HIGHWAY 30 IN PIPESTONE, AT THE NORTHEAST CORNER OF 5TH AVENUE AND 9TH STREET.

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

Geoid Separations(ft): GEOID18 = -85.643 12B = -85.636 09 = -85.535 03 = -85.367

Geodetic Position and Pipestone 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)	43 59 30.68762	96 19 23.98541	480699.702	152028.838	146517.562	46338.482	4	1999	17648			
NAD83 (1986)	43 59 30.68784	96 19 23.96647	480701.087	152028.859	146517.984	46338.489	4	1986	17289			
NAD27	43 59 30.79199	96 19 22.83883					4	1982	16710			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_WATER_TANK-OQ0693-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/PIPESTONE_WATER_TANK-OQ0693-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:			

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

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

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

Mn/DOT Name: POPLAR

NGS Name: POPLAR

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8928](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096142/  
 USGS Quad: JASPER 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	105 N	45 W	435126.00	961555.83	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>
2011	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 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2011)                      **Stamping:** POPLAR 2011

2.25 MILES SOUTH OF TROSKY, 1.7 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND COUNTY ROAD 59 IN TROSKY, AT TRUNK HIGHWAY 75 MILEPOINT 26.35, THEN 0.5 MILE SOUTH ON 100TH AVENUE, 51.5 FEET WEST OF 100TH AVENUE, 21.3 FEET NORTH OF DRIVEWAY NUMBER 59, 4.0 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	1667.703	0.016	508.317	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -86.135    12B = -86.112    09 = -85.997    03 = -85.833

Geodetic Position and Pipestone 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)	43 51 26.00350	96 15 55.82615	495909.250	102937.491	151153.442	31375.410	482.059			2014	GPS3047	
NAD83 (1996)	43 51 26.00302	96 15 55.82659	495909.218	102937.443	151153.432	31375.395	482.119	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/pipestone/POPLAR-DN8928-3W-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/POPLAR-DN8928-3W-04MAY2021.jpg</a>	W	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/POPLAR-DN8928-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/POPLAR-DN8928-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/POPLAR-DN8928-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/POPLAR-DN8928-1-04MAY2021.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:

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

Mn/DOT Name: Q 7

NGS Name: Q 7

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0072](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	107 N	45 W	440307.00	961413.00	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>
1933	2014	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:** (2001)                      **Stamping:** 1742.319 Q 7 1933

4.8 MILES NORTHEAST OF PIPESTONE, 4.9 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 75 IN PIPESTONE, 0.3 MILE NORTHEAST OF RAILROAD MILEPOST 100, 400.0 FEET NORTHEAST OF A RAILROAD BRIDGE, 116.0 FEET WEST OF A ROAD CROSSING (COUNTY ROAD 69), 72.0 FEET NORTHWEST OF THE NORTHWEST RAIL OF THE RAILROAD TRACKS, 27.0 FEET SOUTH OF A ROAD, BETWEEN A DITCH AND THE RAILROAD TRACKS.

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	1743.120	0.007	531.304	0.002	1/2	1991	00000025
NGVD29	1742.319	0.007	531.060	0.002	1	1963	L78 MINN

Geoid Separations(ft): GEOID18 = -85.472 12B = -85.462 09 = -85.377 03 = -85.239

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23689.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23689.pdf)

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

Mn/DOT Name: R 7

NGS Name: R 7

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0073](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<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	23	107 N	45 W	440359.00	961312.00	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>
1933	2014	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:** (2001)                      **Stamping:** 1752.211 R 7 1933

2.3 MILES SOUTHWEST OF HOLLAND, 2.4 MILES SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 16 IN HOLLAND, 0.4 MILE SOUTHWEST OF RAILROAD MILEPOST 98, 124.0 FEET WEST OF COUNTY ROAD 7 CROSSING, 57.0 FEET NORTHWEST OF THE NORTHWEST RAIL OF THE RAILROAD TRACKS, 50.0 FEET SOUTHEAST OF THE SOUTH CULVERT HEADWALL, 43.0 FEET SOUTH OF A ROAD.

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	1753.018	0.007	534.321	0.002	1/2	1991	00000025
NGVD29	1752.211	0.007	534.075	0.002	1	1963	L78 MINN

Geoid Separations(ft): GEOID18 = -85.459    12B = -85.456    09 = -85.364    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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23690.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23690.pdf)





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

Mn/DOT Name: RAYY

NGS Name: RAYY

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP4273](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	107 N	45 W	440227.23	961455.40	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 33 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2014)                      **Stamping:** RAYY 2014

4.0 MILES NORTHEAST OF PIPESTONE, 4.0 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 75, AT TRUNK HIGHWAY 23 MILEPOINT 34.55, 75.5 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 0.3 MILE NORTHEAST OF COUNTY ROAD 6, 1.5 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	1739.760	0.016	530.280	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.492    12B = -85.482    09 = -85.394    03 = -85.252

Geodetic Position and Pipestone 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 02 27.22932	96 14 55.39765	500336.206	169898.602	152502.781	51785.198	504.203	C	2014	GPS3026		
NAD83 (1996)	44 02 27.22891	96 14 55.39771	500336.202	169898.561	152502.779	51785.185	504.275	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/pipestone/RAYY-DP4273-3SE-28APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/RAYY-DP4273-3SE-28APR2014.jpg</a>	SE	Apr 28, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/RAYY-DP4273-2-28APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/RAYY-DP4273-2-28APR2014.jpg</a>		Apr 28, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/RAYY-DP4273-1-28APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/RAYY-DP4273-1-28APR2014.jpg</a>		Apr 28, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_101314.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101314.pdf)



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

Mn/DOT Name: ROCK CNT

NGS Name: ROCK CNT

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DH3139](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096222/  
 USGS Quad: WOODSTOCK

<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	107 N	44 W	440359.73	960710.66		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>
2003	2021	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)	REFERENCE MARK DISK	MN-117

**Description:** (2005)                      **Stamping:** ROCK CNT 2003

3.5 MILES SOUTHEAST OF HOLLAND, 5.0 MILES EAST ALONG COUNTY ROAD 1 FROM THE JUNCTION OF COUNTY ROAD 1 AND TRUNK HIGHWAY 23 IN HOLLAND, 0.8 MILE WEST OF THE JUNCTION OF COUNTY ROAD 7 AND COUNTY ROAD 18, 49.8 FEET NORTH OF COUNTY ROAD 7, 19.9 FEET WEST OF A FIELD ENTRANCE, 1.7 FEET SOUTH OF A FENCE LINE, 1.0 FOOT SOUTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.682    12B = -85.669    09 = -85.587    03 = -85.456

Geodetic Position and Pipestone 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 03 59.73208	96 07 10.66356	534270.675	179293.492	162846.028	54648.766	527.522			2012	GPS2800	
NAD83 (2007)	44 03 59.73203	96 07 10.66450	534270.607	179293.488	162846.007	54648.764	527.551			2007	GPS2300	
NAD83 (1996)	44 03 59.73182	96 07 10.66388	534270.652	179293.466	162846.020	54648.758	527.590	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/pipestone/ROCK_CNT-DH3139-3N-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ROCK_CNT-DH3139-3N-04MAY2021.jpg</a>	N	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ROCK_CNT-DH3139-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ROCK_CNT-DH3139-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ROCK_CNT-DH3139-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/ROCK_CNT-DH3139-1-04MAY2021.jpg</a>		May 4, 2021

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_50725.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_50725.pdf)



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

Mn/DOT Name: RUTHTON MNDT

NGS Name: RUTHTON

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DE7129](#) [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>
SW	2	108 N	44 W	441107.11	960556.80		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=NO Vert=NO	NO		RECESSED 10 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)	SURVEY DISK	MNDT

**Description:** (2001)                      **Stamping:** RUTHTON 2001

0.5 MILE NORTH OF RUTHTON, 0.15 MILE SOUTHWEST ALONG COUNTY ROAD 92 FROM THE JUNCTION OF COUNTY ROAD 92 AND TRUNK HIGHWAY 23 IN RUTHTON, 53.5 FEET NORTHWEST OF COUNTY ROAD 12, 47.0 FEET SOUTHEAST OF THE SOUTHEAST RAIL, 2.3 FEET SOUTHEAST OF A WITNESS POST.

**Station Notes**

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

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

Geoid Separations(ft): GEOID18 = -85.856    12B = -85.882    09 = -85.791    03 = -85.672

**Geodetic Position and Pipestone 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 07. 10802	96 05 56. 79882	539585. 028	222583. 817	164465. 846	67843. 683	496. 873			2012	GPS2800	
NAD83 (2007)	44 11 07. 10792	96 05 56. 79979	539584. 957	222583. 806	164465. 824	67843. 680	496. 902			2007	GPS2300	
NAD83 (1996)	44 11 07. 10709	96 05 56. 79928	539584. 995	222583. 722	164465. 835	67843. 654	496. 955	C		2002	GPS1720	

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

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

Mn/DOT Name: S 7

NGS Name: S 7

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0074](#) [Get Map](#)  
NGS Quad / Sta Num : 44096223/  
USGS Quad: HOLLAND

		<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>
NE	12	107 N	45 W	440537.54	961119.42	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>
1933	2014	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

**Description:** (2001) **Stamping:** S 7 1933 1777.257

IN THE NORTH EDGE OF HOLLAND, 0.9 MILE WEST ALONG COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 AND TRUNK HIGHWAY 23 IN HOLLAND, THEN 0.1 MILE SOUTH ON WASHINGTON AVENUE, 135.0 FEET NORTH OF RAILROAD MILEPOST 96, 203.0 FEET NORTH OF THE WASHINGTON STREET CROSSING OF A RAILROAD, 88.6 FEET NORTHWEST OF THE NORTHWEST RAIL OF THE RAILROAD TRACKS, 46.0 FEET EAST OF WASHINGTON STREET, 0.3 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	1778.071	0.016	541.957	0.005	2/1	2015	00000851
NGVD29	1777.257	0.007	541.709	0.002	1/2	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -85.476 12B = -85.476 09 = -85.384 03 = -85.256

Geodetic Position and Pipestone 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 05 37.54076	96 11 19.41888	516099.350	189177.565	157307.397	57661.437	515.912					2014	GPS3026	
NAD83 (2007)	44 05 37.54069	96 11 19.41982	516099.282	189177.557	157307.376	57661.435	515.941					2007	GPS2300	
NAD83 (1996)	44 05 37.54047	96 11 19.41906	516099.337	189177.535	157307.393	57661.428	515.986	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/pipestone/S_7-PR0074-3N-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/S_7-PR0074-3N-09APR2014.jpg</a>	N	Apr 9, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/S_7-PR0074-2-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/S_7-PR0074-2-09APR2014.jpg</a>		Apr 9, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/S_7-PR0074-1-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/S_7-PR0074-1-09APR2014.jpg</a>		Apr 9, 2014

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23691.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23691.pdf)



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

Mn/DOT Name: SLUIS

NGS Name: SLUIS

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0639](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096111/1033  
 USGS Quad: EDGERTON 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	36	106 N	44 W	435630.67	960352.46		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	1981	GOOD	Horz=? Vert=YES	NO		RECESSED 4 IN.	STEEL ROD ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

**Description:** (1994)                      **Stamping:** SLUIS 1966

7.0 MILES SOUTHWEST OF LAKE WILSON, 5.55 MILES WEST ON TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND MAIN STREET IN LAKE WILSON, THEN 3.5 MILES SOUTH ON A GRAVEL ROAD ON THE PIPESTONE-MURRAY COUNTY LINE, 92.0 FEET EAST-NORTHEAST OF THE SOUTHEAST CORNER OF A BARN, 82.5 FEET NORTH OF THE NORTHWEST CORNER OF A GRANARY, 72.0 FEET SOUTH OF THE SOUTHWEST CORNER OF A HOUSE, 89.69 FEET NORTHEAST OF SLUIS RM 2, 136.89 FEET NORTHWEST OF SLUIS RM 1, 100.76 FEET NORTH OF SLUIS RM A.

**Station Notes**

IN 1994 A NORTHERN STATES POWER COUNTY SURVEYOR COULD NOT FIND THE STATION-THE STATION FALLS IN A FIELD AND THE UNDERGROUND MARK WAS NOT SEARCHED FOR.

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

Geoid Separations(ft): GEOID18 = -85.922    12B = -85.895    09 = -85.787    03 = -85.689

**Geodetic Position and Pipestone 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)	43 56 30.67097	96 03 52.46379	548845.354	133845.077	167288.399	40796.061	517.762	1	1999	17648		
NAD83 (1986)	43 56 30.66935	96 03 52.44704	548846.580	133844.916	167288.772	40796.012		1	1986	17289		
NAD27	43 56 30.78555	96 03 51.37568						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:

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

Mn/DOT Name: SLUIS RM 1

NGS Name: SLUIS RM 1

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO4559](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096111/1033  
 USGS Quad: EDGERTON 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	36	106 N	44 W	435629.62	960351.29		

<u>Year Set</u>	<u>Last Recovery</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	1981	GOOD	Horz=? Vert=YES	NO		PROJECTS 1 IN.	STEEL ROD 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:** **Stamping:** SLUIS NO 1 1966

7.0 MILES SOUTHWEST OF LAKE WILSON, 5.55 MILES WEST ON TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND MAIN STREET IN LAKE WILSON, THEN 3.5 MILES SOUTH ON A GRAVEL ROAD ON THE PIPESTONE-MURRAY COUNTY LINE, 27.0 FEET WEST OF A NORTH SOUTH FENCE, 14.4 FEET EAST OF THE NORTHEAST CORNER OF A METAL QUONSET BUILDING, 1.2 FEET NORTH OF AN EAST-WEST FENCE.

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

Geoid Separations(ft): GEOID18 = -85.925 12B = -85.899 09 = -85.787 03 = -85.692

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: SLUIS RM 2

NGS Name: SLUIS RM 2

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO4560](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096111/1033  
 USGS Quad: EDGERTON 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	36	106 N	44 W	435630.00	960353.27		

<u>Year Set</u>	<u>Last Recovery</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	1981	GOOD	Horz=? Vert=YES	NO		PROJECTS 1 IN.	STEEL ROD 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:** **Stamping:** SLUIS NO 2 1966

7.0 MILES SOUTHWEST OF LAKE WILSON, 5.55 MILES WEST ON TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND MAIN STREET IN LAKE WILSON, THEN 3.5 MILES SOUTH ON A GRAVEL ROAD ON THE PIPESTONE-MURRAY COUNTY LINE, 53.4 FEET WEST-NORTHWEST OF THE NORTHWEST CORNER OF A GRANARY, 50.7 FEET SOUTH-SOUTHEAST OF THE SOUTHEAST CORNER OF A BARN, 1.3 FEET NORTH OF A POWER POLE.

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

Geoid Separations(ft): GEOID18 = -85.925 12B = -85.899 09 = -85.787 03 = -85.692

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: SLUIS RMA

NGS Name: SLUIS RMA

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0640](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096111/1034  
 USGS Quad: EDGERTON 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	36	106 N	44 W	435629.71	960352.84		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	1981	GOOD	Horz=? Vert=YES	NO		RECESSED 4 IN.	STEEL ROD ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

**Description:** (1981)                      **Stamping:** SLUIS RMA 1966

7.0 MILES SOUTHWEST OF LAKE WILSON, 5.55 MILES WEST ON TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND MAIN STREET IN LAKE WILSON, THEN 3.5 MILES SOUTH ON A GRAVEL ROAD ON THE PIPESTONE-MURRAY COUNTY LINE, 42.0 FEET SOUTHEAST OF A POWER POLE, 32.5 FEET EAST-SOUTHEAST OF THE NORTHEAST CORNER OF A SMALL BARN, 25.5 FEET SOUTHWEST OF THE NORTHWEST CORNER OF A BARN, 100.756 FEET SOUTH OF STATION SLUIS.

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

Geoid Separations(ft): GEOID18 = -85.925    12B = -85.899    09 = -85.787    03 = -85.692

Geodetic Position and Pipestone 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)	43 56 29. 71307	96 03 52. 83601	548818. 336	133748. 011	167280. 163	40766. 475	517. 462	1	1999	17648
NAD83 (1986)	43 56 29. 71150	96 03 52. 81924	548819. 563	133747. 855	167280. 538	40766. 428		1	1986	17289
NAD27	43 56 29. 82765	96 03 51. 74791						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:

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

Mn/DOT Name: SODASOTA AZ MK

NGS Name: SODASOTA AZ MK

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO4580](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096144/  
 USGS Quad: JASPER 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	13	105 N	47 W	435429.00	962650.00		

<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	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	NGS

**Description:** (1966)

**Stamping:**

3.8 MILES WEST OF IHLEN, 3.8 MILES WEST ALONG COUNTY ROAD 13 FROM THE JUNCTION OF COUNTY ROAD 13 AND TRUNK HIGHWAY 23 IN IHLEN, ON THE NORTH SIDE OF A ROAD.

**Station Notes**

IN 1966 THE AZIMUTH MARK PROJECTS ABOUT 2.0 FEET AND THE POST IS TILTED.

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

Geoid Separations(ft): GEOID18 = -85.856 12B = -85.843 09 = -85.754 03 = -85.613

\* No Horizontal Positions in the Database \*

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_79165.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_79165.pdf)



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

Mn/DOT Name: SODASOTA RM 1

NGS Name: SODASOTA RM 1

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO4581](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096144/  
 USGS Quad: JASPER 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	15	105 N	47 W	435403.49	962711.90		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1966	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

**Description:** (1935)

**Stamping:**

4.0 MILES WEST OF IHLEN, 4.1 MILES WEST ALONG COUNTY ROAD 13 FROM THE JUNCTION OF COUNTY ROAD 13 AND TRUNK HIGHWAY 23 IN IHLEN, THEN 0.45 MILE SOUTH ON AN OLD, ABANDONED STATE LINE ROAD, 11.0 FEET EAST OF THE CENTERLINE OF A STATE LINE ROAD, 1.0 FOOT EAST OF A FENCE.

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

Geoid Separations(ft): GEOID18 = -85.873 12B = -85.859 09 = -85.768 03 = -85.630

\* No Horizontal Positions in the Database \*

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_79171.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_79171.pdf)



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

Mn/DOT Name: SODASOTA RM 2

NGS Name: SODASOTA RM 2

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO4582](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096144/  
 USGS Quad: JASPER 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	15	105 N	47 W	435400.34	962711.90		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1966	GOOD	Horz=? Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

**Description:** (1935)

**Stamping:**

4.0 MILES WEST OF IHLEN, 4.1 MILES WEST ALONG COUNTY ROAD 13 FROM THE JUNCTION OF COUNTY ROAD 13 AND TRUNK HIGHWAY 23 IN IHLEN, THEN 0.45 MILE SOUTH ON AN OLD, ABANDONED STATE LINE ROAD, 11.0 FEET EAST OF CENTERLINE OF A STATE LINE ROAD, 1.0 FOOT EAST OF A FENCE.

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

Geoid Separations(ft): GEOID18 = -85.873 12B = -85.859 09 = -85.768 03 = -85.633

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: SOTADAK

NGS Name: SOTADAK

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0808](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096233/1006  
 USGS Quad: ELKTON 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	2	106 N	47 W	440125.43	962711.91		2

<u>Year Set</u>	<u>Last Recovery</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	GOOD	Horz=YES Vert=YES	YES		RECESSED 15 IN.	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:** (1981)                      **Stamping:** SOTADAK 1935

6.4 MILES WEST OF PIPESTONE, 5.0 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND COUNTY ROAD 15 (8TH AVENUE) IN PIPESTONE, THEN 2.0 MILES NORTH ON COUNTY ROAD 13(20TH AVENUE),1.0 MILE WEST ON 121ST STREET, THEN 0.25 MILE WEST ON A FIELD ROAD, 3.0 FEET EAST OF AN OLD FENCE LINE, 76.43 FEET SOUTH OF SOTADAK RM 1, 121.38 FEET SOUTH OF SOTADAK RM 2, 34.52 FEET NORTH OF SOTADAK RM 3, 34.0 FEET SOUTH OF A FIELD ROAD, 2.9 FEET EAST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.443    12B = -85.443    09 = -85.351    03 = -85.210

Geodetic Position and Pipestone 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 01 25. 43133	96 27 11. 90620	446518. 136	163706. 245	1360990000	49897. 763	473. 102	2	1999	17648		
NAD83 (1986)	44 01 25. 43210	96 27 11. 88621	446519. 597	163706. 320	136099. 445	49897. 786		2	1986	17289		
NAD27	44 01 25. 53200	96 27 10. 73600						2	1938	03790		

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/pipestone/SOTADAK-PR0808-3S-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK-PR0808-3S-13JUN2012.jpg</a>	S	Jun 13, 2012
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK-PR0808-2-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK-PR0808-2-13JUN2012.jpg</a>		Jun 13, 2012
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK-PR0808-1-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK-PR0808-1-13JUN2012.jpg</a>		Jun 13, 2012

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

Mn/DOT Name: SOTADAK AZ MK

NGS Name: SOTADAK AZ MK

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0809](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096233/1006  
 USGS Quad: ELKTON SW

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	1	106 N	47 W	440111.16	962617.20	2	2

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1935	2015	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	NGS

**Description:** (1981)                      **Stamping:** SOTADAK 1935

7.5 MILES WEST OF PIPESTONE, 5.0 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND COUNTY ROAD 15 (8TH AVENUE) IN PIPESTONE, THEN 2.0 MILES NORTH ON COUNTY ROAD 13(20TH AVENUE), THEN 0.5 MILE WEST ON COUNTY ROAD 71(121ST STREET), THEN 0.4 MILE SOUTH ON 15TH AVENUE, 29.0 FEET EAST OF 15TH AVENUE, 3.2 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	1659.944	0.016	505.952	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.476    12B = -85.472    09 = -85.377    03 = -85.236

Geodetic Position and Pipestone 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 01 11.15979	96 26 17.20217	450512.166	162251.484	137316.383	49454.351	479.994	2	1999	17648		
NAD83 (1986)	44 01 11.16053	96 26 17.18229	450513.619	162251.556	137316.826	49454.373		2	1986	17289		
NAD27	44 01 11.26170	96 26 16.03618						2	1982	16710		

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_AZ_MK-PR0809-3E-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_AZ_MK-PR0809-3E-13JUN2012.jpg</a>	E	Jun 13, 2012
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_AZ_MK-PR0809-2-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_AZ_MK-PR0809-2-13JUN2012.jpg</a>		Jun 13, 2012
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_AZ_MK-PR0809-1-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_AZ_MK-PR0809-1-13JUN2012.jpg</a>		Jun 13, 2012

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

Mn/DOT Name: SOTADAK RM 1

NGS Name: SOTADAK RM 1

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO8762](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096233/1006  
 USGS Quad: ELKTON 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	2	106 N	47 W	440126.18	962711.92		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	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	NGS

**Description:** **Stamping:** SOTADAK NO 1 1935  
 6.4 MILES WEST OF PIPESTONE, 5.0 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND COUNTY ROAD 15 (8TH AVENUE) IN PIPESTONE, THEN 2.0 MILES NORTH ON COUNTY ROAD 13(20TH AVENUE), THEN 1.0 MILE WEST OF 121ST STREET, THEN 0.25 MILE WEST ON A FIELD ROAD, 43.0 FEET NORTH OF THE CENTER OF A FIELD ROAD, 44.7 FEET SOUTH OF A WITNESS POST FOR SOTADAK RM 2.

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

Geoid Separations(ft): GEOID18 = -85.443 12B = -85.443 09 = -85.351 03 = -85.210

\* 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/pipestone/SOTADAK_RM_1-CO8762-3N-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_RM_1-CO8762-3N-13JUN2012.jpg</a>	N	Jun 13, 2012
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_RM_1-CO8762-2-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_RM_1-CO8762-2-13JUN2012.jpg</a>		Jun 13, 2012
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_RM_1-CO8762-1-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_RM_1-CO8762-1-13JUN2012.jpg</a>		Jun 13, 2012

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

Mn/DOT Name: SOTADAK RM 2

NGS Name: SOTADAK RM 2

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO8763](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096233/1006  
 USGS Quad: ELKTON 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	2	106 N	47 W	440126.63	962711.93		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	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>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

**Description:** **Stamping:** SOTADAK NO 2 1935  
 6.4 MILES WEST OF PIPESTONE, 5.0 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND COUNTY ROAD 15 (8TH AVENUE) IN PIPESTONE, THEN 2.0 MILES NORTH ON COUNTY ROAD 13(20TH AVENUE), 1.0 MILE WEST ON 121ST STREET, THEN 0.25 MILE WEST ON A FIELD ROAD, 88.0 FEET NORTH OF THE CENTER OF A FIELD ROAD, 44.7 FEET NORTH OF SOTADAK RM 1, 4.0 FEET EAST OF A METAL WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.443 12B = -85.443 09 = -85.351 03 = -85.210

\* 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/pipestone/SOTADAK_RM_2-CO8763-3S-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_RM_2-CO8763-3S-13JUN2012.jpg</a>	S	Jun 13, 2012
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_RM_2-CO8763-2-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_RM_2-CO8763-2-13JUN2012.jpg</a>		Jun 13, 2012
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_RM_2-CO8763-1-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_RM_2-CO8763-1-13JUN2012.jpg</a>		Jun 13, 2012

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

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67311.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67311.pdf)



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

Mn/DOT Name: SOTADAK RM 3

NGS Name: SOTADAK RM 3

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO8764](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096233/1006  
 USGS Quad: ELKTON 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	2	106 N	47 W	440125.09	962711.97		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2015	GOOD	Horz=NO Vert=NO	YES		PROJECTS 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

**Description:** **Stamping:** SOTADAK NO 3 1935 1971

6.4 MILES WEST OF PIPESTONE, 5.0 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND COUNTY ROAD 15 (8TH AVENUE) IN PIPESTONE, THEN 2.0 MILES NORTH ON COUNTY ROAD 13(20TH AVENUE), 1.0 MILE WEST ON 121ST STREET, THEN 0.25 MILE WEST ON A FIELD ROAD, 56.0 FEET SOUTH OF THE CENTER OF A FIELD ROAD, 1.5 FEET WEST OF AN OLD FENCE LINE, 1.4 FEET NORTH OF A METAL WITNESS POST.

**Station Notes**

ON THE PROPERTY IS OWNED BY MR. FRANCIS KREBER.

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

Geoid Separations(ft): GEOID18 = -85.446 12B = -85.443 09 = -85.351 03 = -85.210

\* 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/pipestone/SOTADAK_RM_3-CO8764-3S-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_RM_3-CO8764-3S-13JUN2012.jpg</a>	S	Jun 13, 2012
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_RM_3-CO8764-2-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_RM_3-CO8764-2-13JUN2012.jpg</a>		Jun 13, 2012
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_RM_3-CO8764-1-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SOTADAK_RM_3-CO8764-1-13JUN2012.jpg</a>		Jun 13, 2012

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

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

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

Mn/DOT Name: STA 1

NGS Name: STA 1

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0797](#) [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	20	108 N	44 W	440843.48	960839.57		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2014	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	UNMONUMENTED	USGS

**Description:**

**Stamping:**

2.9 MILES SOUTH-SOUTHWEST OF RUTHTON, 0.7 MILE SOUTH ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 13 IN PIPESTONE, THEN 2.0 MILES WEST ON COUNTY ROAD 10, THEN 0.6 MILE SOUTH ON 160TH AVENUE.

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

Geoid Separations(ft): GEOID18 = -85.567 12B = -85.584 09 = -85.505 03 = -85.387

Geodetic Position and Pipestone 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 08 43.48444	96 08 39.56860	527742.056	208020.213	160856.101	63404.688	570.748	3	1999	17648
NAD83 (1986)	44 08 43.48401	96 08 39.55033	527743.389	208020.171	160856.507	63404.675		3	1986	17289
NAD27	44 08 43.59755	96 08 38.43276						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\\_65105.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65105.pdf)

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

Mn/DOT Name: STA 101

NGS Name: STA 101

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0798](#) [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>
NW	17	108 N	44 W	440940.19	960940.98		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>	
1963	1963	GOOD	Horz=? Vert=?	NO			SEE DESCRIPTION	
<u>Monument Type</u>				<u>Disk Type</u>				<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT				UNMONUMENTED				USGS

**Description:**

**Stamping:**

2.97 MILES SOUTHWEST OF RUTHTON, 3.0 MILES WEST ALONG COUNTY ROAD 89 FROM THE JUNCTION OF COUNTY ROAD 89 AND COUNTY ROAD 13 IN RUTHTON, THEN 0.5 MILE SOUTH ON 150TH AVENUE, THEN ABOUT 0.25 MILE EAST.

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

Geoid Separations(ft): GEOID18 = -85.489 12B = -85.508 09 = -85.433 03 = -85.318

Geodetic Position and Pipestone 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 09 40.19423	96 09 40.98493	523257.246	213758.077	159489.128	65153.592	570.568	3	1999	17648
NAD83 (1986)	44 09 40.19384	96 09 40.96652	523258.588	213758.039	159489.537	65153.581		3	1986	17289
NAD27	44 09 40.30774	96 09 39.84845						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\\_65106.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65106.pdf)

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

Mn/DOT Name: STA 102

NGS Name: STA 102

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0802](#) [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	108 N	45 W	440914.74	961505.69		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	1963	GOOD	Horz=? Vert=?	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	UNMONUMENTED	USGS

**Description:**

**Stamping:**

5.36 MILES NORTH-NORTHWEST OF HOLLAND, 4.4 MILES NORTH ALONG COUNTY ROAD 16 FROM THE JUNCTION OF COUNTY ROAD 16 AND TRUNK HIGHWAY 23 IN HOLLAND, THEN 3.3 MILES WEST ALONG COUNTY ROAD 10.

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

Geoid Separations(ft): GEOID18 = -85.105 12B = -85.141 09 = -85.029 03 = -84.934

Geodetic Position and Pipestone 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 09 14. 74475	96 15 05. 69129	499585. 037	211168. 248	152273. 824	64364. 211	528. 386	3	1999	17648
NAD83 (1986)	44 09 14. 74465	96 15 05. 67258	499586. 401	211168. 238	152274. 240	64364. 208		3	1986	17289
NAD27	44 09 14. 85619	96 15 04. 54407						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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_65107.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65107.pdf)



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

Mn/DOT Name: STA 103

NGS Name: STA 103

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0803](#) [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	24	108 N	46 W	440854.13	961827.50		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2010	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	UNMONUMENTED	USGS

**Description:** (2007)

**Stamping:**

7.11 MILES NORTHWEST OF HOLLAND, 4.4 MILES NORTH ALONG COUNTY ROAD 16 FROM THE JUNCTION OF COUNTY ROAD 16 AND TRUNK HIGHWAY 23 IN HOLLAND, THEN 6.1 MILES WEST ALONG COUNTY ROAD 10, THEN 0.5 MILE SOUTH ON TRUNK HIGHWAY 75.

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

Geoid Separations(ft): GEOID18 = -84.987 12B = -85.010 09 = -84.921 03 = -84.816

Geodetic Position and Pipestone 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 08 54.12685	96 18 27.50340	484869.058	209085.506	147788.384	63729.390	512.719	3	1999	17648
NAD83 (1986)	44 08 54.12690	96 18 27.48460	484870.429	209085.511	147788.802	63729.391		3	1986	17289
NAD27	44 08 54.23705	96 18 26.35074						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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_65108.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65108.pdf)



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

Mn/DOT Name: STA 123

NGS Name: STA 123

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0789](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096222/  
 USGS Quad: WOODSTOCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	106 N	44 W	440008.42	960614.99		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2015	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	UNMONUMENTED	USGS

**Description:**

**Stamping:**

0.5 MILE SOUTH OF WOODSTOCK, 0.6 MILE NORTH ALONG COUNTY HIGHWAY 18 FROM THE JUNCTION OF COUNTY ROAD 18 AND TRUNK HIGHWAY 30 IN WOODSTOCK, ABOUT 1.0 MILE SOUTH OF WOODSTOCK.

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

Geoid Separations(ft): GEOID18 = -85.731 12B = -85.715 09 = -85.613 03 = -85.492

Geodetic Position and Pipestone 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 00 08. 41749	96 06 14. 99047	538377. 319	155875. 078	164097. 735	47510. 819	532. 419	3	1999	17648
NAD83 (1986)	44 00 08. 41613	96 06 14. 97391	538378. 530	155874. 942	164098. 104	47510. 777		3	1986	17289
NAD27	44 00 08. 53495	96 06 13. 87036						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:

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

Mn/DOT Name: STA 2

NGS Name: STA 2

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0792](#) [Get Map](#)  
NGS Quad / Sta Num : 44096222/  
USGS Quad: WOODSTOCK

<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	34	108 N	44 W	440715.97	960728.15		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2014	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION
<u>Monument Type</u>				<u>Disk Type</u>			
SEE DESCRIPTIVE TEXT				UNMONUMENTED			
				<u>Mon. Agency</u>			
				USGS			

**Description:**

**Stamping:**

3.75 MILES NORTHEAST OF HOLLAND, 2.2 MILES EAST ALONG COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 AND TRUNK HIGHWAY 23, THEN 1.7 MILES NORTH ON 170TH AVENUE.

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

Geoid Separations(ft): GEOID18 = -85.653 12B = -85.659 09 = -85.587 03 = -85.462

Geodetic Position and Pipestone 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 07 15.97337	96 07 28.14808	532963.715	199165.095	162447.665	60705.642	567.426	3	1999	17648
NAD83 (1986)	44 07 15.97276	96 07 28.12999	532965.035	199165.035	162448.068	60705.624		3	1986	17289
NAD27	44 07 16.08794	96 07 27.01654						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\\_65103.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65103.pdf)

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

Mn/DOT Name: STA 3

NGS Name: STA 3

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0791](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096222/  
 USGS Quad: WOODSTOCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	107 N	44 W	440436.63	960727.93		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u> Horz=? Vert=?	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u> SEE DESCRIPTION	<u>Mon. Agency</u> USGS
1963	1963	GOOD		NO				

<u>Monument Type</u> SEE DESCRIPTIVE TEXT	<u>Disk Type</u> UNMONUMENTED	<u>Mon. Agency</u> USGS
--	----------------------------------	----------------------------

**Description:**

**Stamping:**

3.3 MILES EAST-SOUTHEAST OF HOLLAND, 1.5 MILES SOUTH ALONG COUNTY ROAD 16 FROM THE JUNCTION OF COUNTY ROAD 16 AND TRUNK HIGHWAY 23 IN HOLLAND, THEN 3.0 MILES EAST ALONG COUNTY ROAD 7, THEN 0.8 MILE NORTH ON 170TH AVENUE.

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

Geoid Separations(ft): GEOID18 = -85.666 12B = -85.656 09 = -85.574 03 = -85.443

Geodetic Position and Pipestone 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 04 36.62999	96 07 27.92517	533004.553	183028.214	162460.113	55787.111	539.731	3	1999	17648
NAD83 (1986)	44 04 36.62912	96 07 27.90764	533005.833	183028.128	162460.503	55787.085		3	1986	17289
NAD27	44 04 36.74577	96 07 26.79607						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\\_65102.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65102.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_65102.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65102.pdf)



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

Mn/DOT Name: STA 4

NGS Name: STA 4

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0793](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096222/  
 USGS Quad: WOODSTOCK

<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	106 N	44 W	440034.39	960728.55		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2015	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	UNMONUMENTED	USGS

**Description:**

**Stamping:**

1.0 MILE WEST OF WOODSTOCK, 1.0 MILE WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND COUNTY ROAD 18 IN WOODSTOCK, THEN 1.0 MILE NORTH ALONG COUNTY ROAD 66.

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

Geoid Separations(ft): GEOID18 = -85.712 12B = -85.692 09 = -85.594 03 = -85.462

Geodetic Position and Pipestone 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 00 34.39184	96 07 28.55473	532995.899	158496.643	162457.475	48309.873	519.928	3	1999	17648
NAD83 (1986)	44 00 34.39062	96 07 28.53805	532997.118	158496.521	162457.847	48309.836		3	1986	17289
NAD27	44 00 34.50867	96 07 27.43032						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:

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

Mn/DOT Name: STA 7

NGS Name: STA 7

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0642](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096111/  
 USGS Quad: EDGERTON 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	3	105 N	44 W	435529.81	960654.99		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	1963	GOOD	Horz=? Vert=?	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	UNMONUMENTED	USGS

**Description:**

**Stamping:**

3.66 MILES NORTH OF EDGERTON, 3.5 MILES NORTH ALONG COUNTY ROAD 18 FROM THE JUNCTION OF COUNTY ROAD 18 AND TRUNK HIGHWAY 268, THEN 0.5 MILE WEST ON COUNTY ROAD 2.

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

Geoid Separations(ft): GEOID18 = -85.994 12B = -85.968 09 = -85.859 03 = -85.735

Geodetic Position and Pipestone 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)	43 55 29.80597	96 06 54.98730	535499.721	127655.454	163220.641	38909.460	485.552	3	1999	17648		
NAD83 (1986)	43 55 29.80481	96 06 54.97143	535500.883	127655.339	163220.996	38909.425		3	1986	17289		
NAD27	43 55 29.92252	96 06 53.86805						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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_65100.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65100.pdf)



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

Mn/DOT Name: STONE

NGS Name: STONE

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8917](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	7	106 N	45 W	440017.64	961810.10	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2010	2014	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 25 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2010)                      **Stamping:** STONE 2010

0.5 MILE NORTHEAST OF PIPESTONE, 0.25 MILE NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 75 IN PIPESTONE, AT TRUNK HIGHWAY 23 MILEPOINT 30.8, 75.7 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 13.0 FEET NORTHEAST OF A FIELD ENTRANCE, 18.0 FEET SOUTHWEST OF A POWER POLE, 2.0 FEET 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	1719.347	0.016	524.058	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.594    12B = -85.587    09 = -85.489    03 = -85.325

Geodetic Position and Pipestone 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 00 17.64082	96 18 10.09567	486104.916	156779.631	148165.075	47786.527	497.968	2014	GPS3047			
NAD83 (1996)	44 00 17.64038	96 18 10.09580	486104.906	156779.587	148165.072	47786.514	498.042	C	2014	HRUTH		

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/STONE-DN8917-3SE-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/STONE-DN8917-3SE-09APR2014.jpg</a>	SE	Apr 9, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/STONE-DN8917-2-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/STONE-DN8917-2-09APR2014.jpg</a>		Apr 9, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/STONE-DN8917-1-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/STONE-DN8917-1-09APR2014.jpg</a>		Apr 9, 2014

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93375.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93375.pdf)



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

Mn/DOT Name: STUDY

NGS Name: STUDY

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8894](#) [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	1	108 N	46 W	441133.86	961829.92	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>
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 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2010)                      **Stamping:** STUDY 2010

13.5 MILES NORTH OF PIPESTONE, 13.2 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 49.7, 65.0 FEET WEST OF TRUNK HIGHWAY 75, 20.0 FEET NORTH OF A FIELD ENTRANCE, 2.8 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	1766.594	0.016	538.459	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -84.806    12B = -84.855    09 = -84.737    03 = -84.652

Geodetic Position and Pipestone 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 33.86387	96 18 29.91618	484704.560	225262.660	147738.245	68660.196	512.605			2014	GPS3047	
NAD83 (1996)	44 11 33.86320	96 18 29.91656	484704.533	225262.592	147738.237	68660.175	512.692	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/pipestone/STUDY-DN8894-3W-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/STUDY-DN8894-3W-28DEC2010.jpg</a>	W	Dec 28, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/STUDY-DN8894-2-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/STUDY-DN8894-2-28DEC2010.jpg</a>		Dec 28, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/STUDY-DN8894-1-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/STUDY-DN8894-1-28DEC2010.jpg</a>		Dec 28, 2010

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_93391.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93391.pdf)



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

Mn/DOT Name: SWEET CNT

NGS Name: SWEET CNT

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DH3140](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	15	106 N	46 W	435857.95	962203.97	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2003	2021	GOOD	Horz=YES Vert=YES	YES		PROJECTS 2 IN.	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MN-117

**Description:** (2005)                      **Stamping:** SWEET CNT 2003

3.0 MILES WEST OF PIPESTONE, 3.0 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 IN PIPESTONE, TO TRUNK HIGHWAY 30 MILEPOINT 4.9, THEN 0.8 MILE SOUTH ALONG 50TH AVENUE, 21.0 FEET NORTH OF A FIELD ENTRANCE, 31.0 FEET EAST OF 50TH AVENUE, 0.9 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	1689.708 0.016	515.024 0.005	2/1	2017 00000903

Geoid Separations(ft): GEOID18 = -85.676    12B = -85.663    09 = -85.571    03 = -85.403

Geodetic Position and Pipestone 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)	43 58 57.94566	96 22 03.96768	468998.472	148726.640	142951.020	45331.970	488.902			2012	GPS2800
NAD83 (2007)	43 58 57.94561	96 22 03.96862	468998.404	148726.634	142950.999	45331.969	488.932			2007	GPS2300
NAD83 (1996)	43 58 57.94522	96 22 03.96787	468998.458	148726.595	142951.016	45331.957	488.965	C		2005	GPS2097

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET_CNT-DH3140-3E-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET_CNT-DH3140-3E-04MAY2021.jpg</a>	E	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET_CNT-DH3140-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET_CNT-DH3140-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET_CNT-DH3140-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET_CNT-DH3140-1-04MAY2021.jpg</a>		May 4, 2021

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

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

Mn/DOT Name: SWEET MNDT

NGS Name: SWEET

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DE7130](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	33	107 N	45 W	440137.84	961554.15	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2001	2014	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)	SURVEY DISK	MNDT

**Description:** (2004)                      **Stamping:** SWEET 2001

3.0 MILES NORTHEAST OF PIPESTONE, 2.8 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 75 IN PIPESTONE, AT TRUNK HIGHWAY 23 MILEPOINT 33.3, 104.0 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 51.0 FEET EAST OF 100TH AVENUE, 17.0 FEET EAST OF A FENCE CORNER, 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	1739.429	0.016	530.179	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.528    12B = -85.515    09 = -85.426    03 = -85.272

Geodetic Position and Pipestone 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 01 37.84222	96 15 54.14542	496043.710	164897.523	151194.425	50260.866	504.109			2014	GPS3026	
NAD83 (2007)	44 01 37.84217	96 15 54.14636	496043.641	164897.518	151194.404	50260.864	504.138			2007	GPS2300	
NAD83 (1996)	44 01 37.84185	96 15 54.14538	496043.713	164897.485	151194.426	50260.854	504.182	C		2014	HRUTH	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET-DE7130-3SE-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET-DE7130-3SE-09APR2014.jpg</a>	SE	Apr 9, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET-DE7130-2-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET-DE7130-2-09APR2014.jpg</a>		Apr 9, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET-DE7130-1-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET-DE7130-1-09APR2014.jpg</a>		Apr 9, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41735.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41735.pdf)



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

Mn/DOT Name: SWEET SW

NGS Name: SWEET SW

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DH3141](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096144/  
 USGS Quad: JASPER 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	106 N	47 W	435612.21	962549.26		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>
2003	2021	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)	REFERENCE MARK DISK	MN-117

**Description:** (2005)                      **Stamping:** SWEET SW 2003

3.5 MILES NORTHWEST OF IHLEN, 2.85 MILES WEST ALONG COUNTY ROAD 2/ 41ST STREET FROM THE JUNCTION OF COUNTY ROAD 2 AND TRUNK HIGHWAY 23 IN IHLEN (FROM TRUNK HIGHWAY 23 MILEPOINT 23.0), THEN 2.05 MILES NORTH ALONG COUNTY ROAD 13/ 20TH AVENUE, THEN 0.1 MILE WEST ALONG 61ST STREET, 16.3 FEET WEST OF A FIELD ENTRANCE, 48.0 FEET NORTH OF 61ST STREET, 0.9 FOOT SOUTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.787    12B = -85.764    09 = -85.676    03 = -85.531

Geodetic Position and Pipestone 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)	43 56 12. 20646	96 25 49. 26050	452487. 835	131972. 242	137918. 568	40225. 220	472. 291			2012	GPS2800	
NAD83 (2007)	43 56 12. 20640	96 25 49. 26144	452487. 766	131972. 236	137918. 547	40225. 218	472. 321			2007	GPS2300	
NAD83 (1996)	43 56 12. 20601	96 25 49. 26070	452487. 820	131972. 197	137918. 563	40225. 206	472. 353	C		2005	GPS2097	

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/pipestone/SWEET_SW-DH3141-3N-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET_SW-DH3141-3N-04MAY2021.jpg</a>	N	May 4, 2021
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET_SW-DH3141-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET_SW-DH3141-2-04MAY2021.jpg</a>		May 4, 2021
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET_SW-DH3141-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET_SW-DH3141-1-04MAY2021.jpg</a>		May 4, 2021

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

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

Mn/DOT Name: SWEET WEST

NGS Name: SWEET WEST

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DH3142](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096144/  
 USGS Quad: JASPER NW

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	23	106 N	47 W	435848.68	962655.94	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2003	2015	GOOD	Horz=YES Vert=YES	YES		PROJECTS 2 IN.	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MN-117

**Description:** (2004)                      **Stamping:** SWEET WEST 2003

6.5 MILES WEST OF PIPESTONE, 6.75 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 SOUTH IN PIPESTONE TO TRUNK HIGHWAY 30 MILEPOINT 1.05, THEN 0.15 MILE WEST ALONG 101ST STREET, THEN 1.0 MILE SOUTH ALONG 10TH AVENUE, 90.7 FEET WEST OF 10TH AVENUE, 7.5 FEET SOUTH OF 91ST STREET EXTENDED, 0.7 FOOT 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	1596.490 0.016	486.611 0.005	2/1	2017 00000903

Geoid Separations(ft): GEOID18 = -85.604 12B = -85.590 09 = -85.499 03 = -85.364

Geodetic Position and Pipestone 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)	43 58 48.67963	96 26 55.93644	447646.790	147829.271	136443.015	45058.452	460.511			2012	GPS2800	
NAD83 (2007)	43 58 48.67957	96 26 55.93738	447646.722	147829.265	136442.994	45058.450	460.541			2007	GPS2300	
NAD83 (1996)	43 58 48.67919	96 26 55.93664	447646.776	147829.226	136443.010	45058.438	460.573	C		2005	GPS2097	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET_WEST-DH3142-3W-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET_WEST-DH3142-3W-28APR2015.jpg</a>	W	Apr 28, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET_WEST-DH3142-2-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET_WEST-DH3142-2-28APR2015.jpg</a>		Apr 28, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET_WEST-DH3142-1-28APR2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/SWEET_WEST-DH3142-1-28APR2015.jpg</a>		Apr 28, 2015

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

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

Mn/DOT Name: T 11

NGS Name: T 11

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0066](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096233/  
 USGS Quad: ELKTON SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	1	106 N	47 W	440110.00	962616.00	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>
1931	1987	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:** (1987)                      **Stamping:** 1659.813 T11 1931

AT AIRLIE, 5.6 MILES WEST OF PIPESTONE, 4.9 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND COUNTY ROAD 15 (8TH AVENUE) IN PIPESTONE, THEN 2.0 MILES NORTH ON COUNTY ROAD 13, THEN 0.5 MILE WEST ON COUNTY ROAD 71, THEN 0.4 MILE SOUTH ON A ROAD TO AIRLIE, 325.0 FEET WEST OF THE CHICAGO MILWAUKEE ST. PAUL AND PACIFIC RAILROAD STATION, DIRECTLY SOUTH OF THE EAST ELEVATOR, AT A ROAD CROSSING 50.0 FEET EAST OF THE CENTER OF A ROAD, 40.0 FEET SOUTH OF THE SOUTH RAIL.

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	1660.617	0.007	506.157	0.002	1/2	1991	00000025
NGVD29	1659.813	0.007	505.912	0.002	1	1935	CUTLER-VERT

Geoid Separations(ft): GEOID18 = -85.476    12B = -85.476    09 = -85.380    03 = -85.236

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23696.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23696.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23696.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23696.pdf)





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

Mn/DOT Name: T 7

NGS Name: T 7

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0075](#) [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>
NW	27	108 N	44 W	440811.00	960726.00	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>
1933	2001	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:** (2001)                      **Stamping:** T 7 1933

4.5 MILES NORTHEAST ON A RAILROAD FROM HOLLAND, 3.6 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 8 IN HOLLAND, 0.4 MILE SOUTH OF RAILROAD MILEPOST 91, 0.25 MILE NORTH OF A SCHOOL, 62.0 FEET EAST OF COUNTY ROAD 80 CROSSING, 44.0 FEET SOUTHEAST OF THE SOUTHEAST RAIL OF THE RAILROAD TRACKS, 28.0 FEET EAST OF A ROW OF POWER POLES.

**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	1806.181	0.007	550.525	0.002	1	1993	POSTED
NGVD29	1805.347	0.007	550.271	0.002	1/2	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -85.666    12B = -85.679    09 = -85.597    03 = -85.476

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TAIN

NGS Name: TAIN

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DN8900](#) [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	30	108 N	45 W	440819.33	961827.80	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2010	2011	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 55 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2010)                      **Stamping:** TAIN 2010

9.5 MILES NORTH OF PIPESTONE, 9.4 MILES NORTH ALONG TRUNK HIGHWAY 75 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 45.95, 71.0 FEET EAST OF TRUNK HIGHWAY 75, 25.2 FEET SOUTH OF DRIVEWAY NUMBER 1996, 5.7 FEET WEST OF THE SOUTHWEST CORNER OF CABLE BOX NUMBER 5556, 2.0 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	1751.876	0.016	533.973	0.005	2/1	2013	00000797

Geoid Separations(ft): GEOID18 = -85.036    12B = -85.049    09 = -84.967    03 = -84.862

Geodetic Position and Pipestone 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 08 19.33223	96 18 27.80314	484844.734	205561.791	147780.971	62655.359	508.061			2014	GPS3047	
NAD83 (1996)	44 08 19.33169	96 18 27.80352	484844.706	205561.736	147780.962	62655.343	508.133	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/pipestone/TAIN-DN8900-3E-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/TAIN-DN8900-3E-28DEC2010.jpg</a>	E	Dec 28, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/TAIN-DN8900-2-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/TAIN-DN8900-2-28DEC2010.jpg</a>		Dec 28, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/TAIN-DN8900-1-28DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/TAIN-DN8900-1-28DEC2010.jpg</a>		Dec 28, 2010

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

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

Mn/DOT Name: TBM 1 L773

NGS Name: TBM 1

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4827](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	106 N	45 W	440017.00	961809.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

AT PIPESTONE, 0.1 MILE NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 75 IN PIPESTONE, SOUTH OF TRUNK HIGHWAY 23.

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

Geoid Separations(ft): GEOID18 = -85.597 12B = -85.590 09 = -85.492 03 = -85.325

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 10 L3200

NGS Name: TBM 10

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BK5106](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	16	105 N	45 W	435405.00	961531.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

0.8 MILE NORTH OF TROSKY, 0.7 MILE NORTHEAST ALONG A RAILROAD FROM THE JUNCTION OF A RAILROAD AND 31ST STREET IN TROSKY.

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

Geoid Separations(ft): GEOID18 = -85.987 12B = -85.961 09 = -85.853 03 = -85.692

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 10 L773

NGS Name: TBM 10

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4836](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<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	14	107 N	45 W	440416.00	961253.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

1.8 MILES SOUTHWEST OF HOLLAND, 2.0 MILES SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 16 IN HOLLAND.

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

Geoid Separations(ft): GEOID18 = -85.459 12B = -85.456 09 = -85.364 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:

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

Mn/DOT Name: TBM 11 L3200

NGS Name: TBM 11

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BK5107](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	105 N	45 W	435537.00	961542.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

5.0 MILES SOUTH OF PIPESTONE, 4.3 MILES SOUTHEAST ALONG TRUNK HIGHWAY 75 FROM THE EASTERN JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, THEN 0.1 MILE EAST ON TOWNSHIP HIGHWAY 17, THEN 0.7 MILE SOUTH ON 100TH AVENUE, EAST OF A ROAD.

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

Geoid Separations(ft): GEOID18 = -85.886 12B = -85.863 09 = -85.758 03 = -85.590

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 11 L773

NGS Name: TBM 11

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4837](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<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	14	107 N	45 W	440446.00	961218.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

1.0 MILE SOUTHWEST OF HOLLAND, 1.2 MILES SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 16 IN HOLLAND.

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

Geoid Separations(ft): GEOID18 = -85.462 12B = -85.459 09 = -85.367 03 = -85.239

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 12 L3200

NGS Name: TBM 12

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BK5108](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	105 N	45 W	435551.00	961547.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

4.7 MILES SOUTH OF PIPESTONE, 4.3 MILES SOUTHEAST ALONG TRUNK HIGHWAY 75 FROM THE EASTERN JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, THEN 0.1 MILE EAST ON TOWNSHIP HIGHWAY 17, THEN 0.4 MILE SOUTH ON 100TH AVENUE.

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

Geoid Separations(ft): GEOID18 = -85.873 12B = -85.846 09 = -85.741 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:

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

Mn/DOT Name: TBM 12 L773

NGS Name: TBM 12

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4838](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<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	12	107 N	45 W	440512.00	961147.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

0.3 MILE SOUTHWEST OF HOLLAND, 0.65 MILE SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 16 IN HOLLAND.

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

Geoid Separations(ft): GEOID18 = -85.469 12B = -85.466 09 = -85.374 03 = -85.246

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 13 L3200

NGS Name: TBM 13

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BK5109](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	106 N	45 W	435718.00	961629.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

2.9 MILES SOUTH OF PIPESTONE, 2.9 MILES SOUTHEAST ALONG TRUNK HIGHWAY 75 FROM THE EASTERN JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE.

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

Geoid Separations(ft): GEOID18 = -85.777 12B = -85.758 09 = -85.659 03 = -85.489

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 13 L773

NGS Name: TBM 13

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4839](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<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	107 N	44 W	440600.00	961044.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

0.5 MILE NORTHEAST OF HOLLAND, 0.7 MILE WEST ALONG COUNTY ROAD 8 FROM THE JUNCTION OF COUNTY ROAD 8 AND TRUNK HIGHWAY 23 IN HOLLAND, THEN ABOUT 0.4 MILE NORTHEAST ON A RAILROAD.

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

Geoid Separations(ft): GEOID18 = -85.492 12B = -85.495 09 = -85.400 03 = -85.272

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 14 L3200

NGS Name: TBM 14

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BK5110](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	106 N	45 W	435856.00	961731.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

0.8 MILE SOUTH OF PIPESTONE, 0.8 MILE SOUTHEAST ALONG TRUNK HIGHWAY 75 FROM THE EASTERN JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE.

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

Geoid Separations(ft): GEOID18 = -85.682 12B = -85.666 09 = -85.567 03 = -85.397

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 14 L773

NGS Name: TBM 14

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4840](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<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	6	107 N	44 W	440620.00	961013.00		

<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>
IRON POST	UNMONUMENTED	NGS

**Description:**

**Stamping:**

1.1 MILES NORTHEAST OF HOLLAND, 1.0 MILE NORTH ALONG COUNTY ROAD 16 FROM THE JUNCTION OF COUNTY ROAD 16 AND COUNTY ROAD 8 IN HOLLAND, THEN 0.7 MILE EAST ON COUNTY ROAD 81, ABOUT 1600.0 FEET SOUTH OF COUNTY ROAD 81.

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

Geoid Separations(ft): GEOID18 = -85.512 12B = -85.515 09 = -85.420 03 = -85.292

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 15 L773

NGS Name: TBM 15

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4841](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<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	6	107 N	44 W	440630.00	960958.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

1.3 MILES NORTHEAST OF HOLLAND, 1.0 MILE NORTH ALONG COUNTY ROAD 16 FROM THE JUNCTION OF COUNTY ROAD 16 AND COUNTY ROAD 8 IN HOLLAND, THEN 0.9 MILE EAST ON COUNTY ROAD 81, ABOUT 685.0 FEET SOUTHWEST OF THE JUNCTION OF COUNTY ROAD 81 AND 150TH AVENUE.

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

Geoid Separations(ft): GEOID18 = -85.521 12B = -85.525 09 = -85.430 03 = -85.305

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 16 L773

NGS Name: TBM 16

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4842](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<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	108 N	44 W	440650.00	960929.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

1.9 MILES NORTHEAST OF HOLLAND, 1.0 MILE NORTH ALONG COUNTY ROAD 16 FROM THE JUNCTION OF COUNTY ROAD 16 AND COUNTY ROAD 8 IN HOLLAND, THEN 1.0 MILE EAST ON COUNTY ROAD 81, 2300.0 FEET NORTHEAST OF THE JUNCTION OF 150TH AVENUE AND COUNTY ROAD 84.

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

Geoid Separations(ft): GEOID18 = -85.538 12B = -85.544 09 = -85.453 03 = -85.328

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_59788.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59788.pdf)

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

Mn/DOT Name: TBM 17 L773

NGS Name: TBM 17

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4843](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<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	32	108 N	44 W	440717.00	960849.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

2.6 MILES NORTHEAST OF HOLLAND, 3.1 MILES NORTHEAST ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND COUNTY ROAD 16 IN HOLLAND, 1200.0 FEET WEST OF TRUNK HIGHWAY 75.

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

Geoid Separations(ft): GEOID18 = -85.571 12B = -85.577 09 = -85.492 03 = -85.367

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_61818.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61818.pdf)

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

Mn/DOT Name: TBM 18 L773

NGS Name: TBM 18

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4844](#) [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>
SW	28	108 N	44 W	440731.00	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>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

3.0 MILES NORTHEAST OF HOLLAND, 3.4 MILES NORTHEAST ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND COUNTY ROAD 16 IN HOLLAND.

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

Geoid Separations(ft): GEOID18 = -85.590 12B = -85.597 09 = -85.518 03 = -85.394

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 19 L773

NGS Name: TBM 19

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4845](#) [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	28	108 N	44 W	440752.00	960756.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

3.6 MILES NORTHEAST OF HOLLAND, 4.0 MILES NORTHEAST ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND COUNTY ROAD 16 IN HOLLAND.

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

Geoid Separations(ft): GEOID18 = -85.623 12B = -85.636 09 = -85.554 03 = -85.433

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 2 L773

NGS Name: TBM 2

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4828](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	106 N	45 W	440035.00	961737.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

0.7 MILE NORTHEAST OF PIPESTONE, 0.8 MILE NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 75 IN PIPESTONE.

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

Geoid Separations(ft): GEOID18 = -85.577 12B = -85.571 09 = -85.476 03 = -85.312

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_61255.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61255.pdf)

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

Mn/DOT Name: TBM 20 L773

NGS Name: TBM 20

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4846](#) [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>
NW	27	108 N	44 W	440818.00	960724.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

2.6 MILES SOUTH OF RUTHTON, 2.3 MILES SOUTH AND WEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 18 IN RUTHTON, THEN 0.3 MILE WEST ON COUNTY ROAD 80, 300.0 FEET SOUTHEAST OF THE JUNCTION OF 170TH AVENUE AND COUNTY ROAD 80 (201ST STREET).

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

Geoid Separations(ft): GEOID18 = -85.672 12B = -85.686 09 = -85.600 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:

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

Mn/DOT Name: TBM 21 L773

NGS Name: TBM 21

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4847](#) [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>
SW	22	108 N	44 W	440844.00	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>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

2.0 MILES SOUTH OF RUTHTON, 1.0 MILE WEST ALONG COUNTY ROAD 89 FROM THE JUNCTION OF COUNTY ROAD 89 AND COUNTY ROAD 18 IN RUTHTON, THEN 2.5 MILES SOUTH ON COUNTY ROAD 80, 1075.0 FEET EAST OF COUNTY ROAD 80.

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

Geoid Separations(ft): GEOID18 = -85.695 12B = -85.712 09 = -85.623 03 = -85.505

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 22 L773

NGS Name: TBM 22

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4848](#) [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>
SW	15	108 N	44 W	440923.00	960653.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

1.3 MILES SOUTH OF RUTHTON, 0.7 MILE SOUTH ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 18 IN RUTHTON, 0.5 MILE WEST OF TRUNK HIGHWAY 23.

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

Geoid Separations(ft): GEOID18 = -85.735 12B = -85.754 09 = -85.663 03 = -85.544

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 23 L773

NGS Name: TBM 23

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4849](#) [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	15	108 N	44 W	440957.00	960636.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

0.7 MILE SOUTH OF RUTHTON, 0.3 MILE WEST ALONG COUNTY ROAD 89 FROM THE JUNCTION OF COUNTY ROAD 89 AND COUNTY ROAD 18 IN RUTHTON, ABOUT 815.0 FEET SOUTH OF COUNTY ROAD 89.

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

Geoid Separations(ft): GEOID18 = -85.771 12B = -85.791 09 = -85.702 03 = -85.584

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 24 L360

NGS Name: TBM 24

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4578](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096233/  
 USGS Quad: ELKTON 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	6	106 N	46 W	440059.00	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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

4.9 MILES WEST OF PIPESTONE, 4.9 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND COUNTY ROAD 15 (8TH AVENUE) IN PIPESTONE, THEN 1.5 MILES NORTH ON COUNTY ROAD 13, ABOUT 500.0 FEET SOUTHEAST OF THE JUNCTION OF COUNTY ROAD 13 AND A RAILROAD.

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

Geoid Separations(ft): GEOID18 = -85.502 12B = -85.502 09 = -85.403 03 = -85.256

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 25 L360

NGS Name: TBM 25

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4579](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096233/  
 USGS Quad: ELKTON 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	6	106 N	46 W	440046.00	962447.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

4.3 MILES WEST OF PIPESTONE, 2.9 MILES WEST ALONG COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 5 AND COUNTY ROAD 15 IN PIPESTONE TO A RAILROAD CROSSING, THEN FOLLOW THE RAILROAD NORTHEAST 0.4 MILE, ON THE NORTH SIDE OF THE TRACKS.

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

Geoid Separations(ft): GEOID18 = -85.535 12B = -85.531 09 = -85.430 03 = -85.279

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 26 L360

NGS Name: TBM 26

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4580](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096233/  
 USGS Quad: ELKTON 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	5	106 N	46 W	440034.00	962400.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

3.6 MILES WEST OF PIPESTONE, 2.6 MILES WEST ALONG COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 5 AND COUNTY ROAD 15 IN PIPESTONE.

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

Geoid Separations(ft): GEOID18 = -85.561 12B = -85.554 09 = -85.453 03 = -85.302

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_58650.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_58650.pdf)

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

Mn/DOT Name: TBM 27 L360

NGS Name: TBM 27

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4581](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096233/  
 USGS Quad: ELKTON 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	9	106 N	46 W	440022.00	962313.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

2.9 MILES WEST OF PIPESTONE, 2.0 MILES WEST ALONG COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 5 AND COUNTY ROAD 15 IN PIPESTONE, THEN 0.2 MILE SOUTH ON COUNTY ROAD 53, EAST OF COUNTY ROAD 53.

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

Geoid Separations(ft): GEOID18 = -85.584 12B = -85.577 09 = -85.476 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:

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

Mn/DOT Name: TBM 28 L360

NGS Name: TBM 28

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4582](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	106 N	46 W	440008.00	962135.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

1.5 MILES WEST OF PIPESTONE, 0.5 MILE SOUTH ALONG COUNTY ROAD 55 FROM THE JUNCTION OF COUNTY ROAD 55 AND COUNTY ROAD 5 AND COUNTY ROAD 15 IN PIPESTONE, THEN 0.5 MILE WEST ON A RAILROAD.

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

Geoid Separations(ft): GEOID18 = -85.610 12B = -85.600 09 = -85.508 03 = -85.344

\* 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:

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

Mn/DOT Name: TBM 29 L360

NGS Name: TBM 29

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4583](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	106 N	46 W	440008.00	962045.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

0.8 MILE WEST OF PIPESTONE, 0.5 MILE SOUTH ALONG COUNTY ROAD 55 FROM THE JUNCTION OF COUNTY ROAD 55 AND COUNTY ROAD 5 AND COUNTY ROAD 15, THEN 0.1 MILE EAST ON A RAILROAD.

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

Geoid Separations(ft): GEOID18 = -85.613 12B = -85.600 09 = -85.508 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\\_58816.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_58816.pdf)

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

Mn/DOT Name: TBM 3 L773

NGS Name: TBM 3

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4829](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	106 N	45 W	440050.00	961712.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

1.2 MILES NORTHEAST OF PIPESTONE, 1.2 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 75 IN PIPESTONE.

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

Geoid Separations(ft): GEOID18 = -85.564 12B = -85.558 09 = -85.462 03 = -85.302

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_58574.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_58574.pdf)

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

Mn/DOT Name: TBM 4 L773

NGS Name: TBM 4

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4830](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	5	106 N	45 W	440109.00	961639.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

1.8 MILES NORTHEAST OF PIPESTONE, 1.9 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 75 IN PIPESTONE.

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

Geoid Separations(ft): GEOID18 = -85.548 12B = -85.538 09 = -85.446 03 = -85.289

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 40 L773

NGS Name: TBM 40

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4850](#) [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>
SW	2	108 N	44 W	441106.00	960556.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

0.2 MILE NORTHEAST OF RUTHTON, 0.2 MILE NORTHEAST ALONG RAILROAD AVENUE FROM THE JUNCTION OF RAILROAD AVENUE AND COUNTY ROAD 11 IN RUTHTON.

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

Geoid Separations(ft): GEOID18 = -85.859 12B = -85.882 09 = -85.791 03 = -85.672

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_61141.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61141.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_61141.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61141.pdf)





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

Mn/DOT Name: TBM 41 L773

NGS Name: TBM 41

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4851](#) [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>
NE	2	108 N	44 W	441140.00	960531.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

1.1 MILES NORTHEAST OF RUTHTON, 0.7 MILE NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND RAILROAD AVENUE IN RUTHTON.

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

Geoid Separations(ft): GEOID18 = -85.912 12B = -85.938 09 = -85.850 03 = -85.728

\* 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\\_61274.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61274.pdf)

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

Mn/DOT Name: TBM 49 L360

NGS Name: TBM 49

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4584](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	106 N	46 W	440008.00	962006.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

AT PIPESTONE, 0.2 MILE WEST ALONG 2ND STREET FROM THE JUNCTION OF 2ND STREET AND COUNTY ROAD 15 IN PIPESTONE, THEN 1.0 BLOCK NORTH ON 12TH AVENUE, NORTH OF 12TH AVENUE.

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

Geoid Separations(ft): GEOID18 = -85.610 12B = -85.600 09 = -85.505 03 = -85.338

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 5 L773

NGS Name: TBM 5

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4831](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	107 N	45 W	440148.00	961546.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

2.9 MILES NORTHEAST OF PIPESTONE, 2.9 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 75 IN PIPESTONE.

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

Geoid Separations(ft): GEOID18 = -85.518 12B = -85.505 09 = -85.420 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:

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

Mn/DOT Name: TBM 50 L360

NGS Name: TBM 50

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4585](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	7	106 N	45 W	435944.00	961802.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

AT PIPESTONE, 575.0 FEET NORTHWEST ALONG A RAILROAD FROM THE JUNCTION OF A RAILROAD AND TRUNK HIGHWAY 30 IN PIPESTONE, JUST EAST OF THE EASTERN JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75.

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

Geoid Separations(ft): GEOID18 = -85.630 12B = -85.620 09 = -85.521 03 = -85.354

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_62314.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62314.pdf)

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

Mn/DOT Name: TBM 51 L360

NGS Name: TBM 51

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4586](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	18	106 N	45 W	435932.00	961722.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

0.5 MILE EAST OF PIPESTONE, 0.5 MILE EAST ALONG TRUNK HIGHWAY 30 FROM THE EASTERN JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, THEN 0.1 MILE SOUTHEAST ALONG A RAILROAD.

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

Geoid Separations(ft): GEOID18 = -85.643 12B = -85.633 09 = -85.535 03 = -85.367

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 52 L360

NGS Name: TBM 52

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4587](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	106 N	45 W	435919.00	961642.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

1.3 MILES EAST OF PIPESTONE, 0.8 MILE EAST ALONG TRUNK HIGHWAY 30 FROM THE EASTERN JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, THEN 0.4 MILE SOUTH ON COUNTY ROAD 69, THEN FOLLOW THE RAILROAD 0.5 MILE SOUTHEAST.

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

Geoid Separations(ft): GEOID18 = -85.659 12B = -85.643 09 = -85.548 03 = -85.380

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 53 L360

NGS Name: TBM 53

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4588](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	106 N	45 W	435847.00	961509.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

2.7 MILES EAST OF PIPESTONE, 1.8 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE EASTERN JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, THEN 1.0 MILE SOUTH ON 100TH AVENUE, THEN 0.8 MILE EAST ON 91ST STREET, TO A DEAD END, ABOUT 200.0 FEET EAST OF 91ST STREET EXTENDED.

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

Geoid Separations(ft): GEOID18 = -85.699 12B = -85.679 09 = -85.581 03 = -85.413

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 54 L360

NGS Name: TBM 54

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4589](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	106 N	45 W	435831.00	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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

3.4 MILES SOUTHEAST OF PIPESTONE, 2.7 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE EASTERN JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, THEN 1.1 MILES SOUTH ON 110TH AVENUE, THEN FOLLOW THE RAILROAD 0.2 MILE SOUTHEAST.

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

Geoid Separations(ft): GEOID18 = -85.718 12B = -85.699 09 = -85.600 03 = -85.433

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 55 L360

NGS Name: TBM 55

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4590](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	106 N	45 W	435816.00	961348.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

3.9 MILES SOUTHEAST OF PIPESTONE, 3.7 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE EASTERN JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, THEN 1.7 MILES SOUTH ON 120TH AVENUE, THEN FOLLOW THE RAILROAD 0.4 MILE NORTHWEST.

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

Geoid Separations(ft): GEOID18 = -85.738 12B = -85.718 09 = -85.620 03 = -85.453

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 56 L360

NGS Name: TBM 56

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4591](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	26	106 N	45 W	435746.00	961250.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

4.9 MILES SOUTHEAST OF PIPESTONE, 4.7 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE EASTERN JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, THEN 2.0 MILES SOUTH ON COUNTY ROAD 16, THEN 0.5 MILE WEST ON COUNTY ROAD 4, ABOUT 800.0 FEET SOUTH OF THE ROAD NEAR A RAILROAD.

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

Geoid Separations(ft): GEOID18 = -85.781 12B = -85.761 09 = -85.656 03 = -85.495

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 57 L360

NGS Name: TBM 57

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4592](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<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	25	106 N	45 W	435724.00	961210.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

5.4 MILES SOUTHEAST OF PIPESTONE 4.7 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE EASTERN JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, THEN 2.6 MILES SOUTH ON COUNTY ROAD 16, THEN ABOUT 415.0 FEET SOUTHWEST ON 130TH AVENUE.

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

Geoid Separations(ft): GEOID18 = -85.813 12B = -85.791 09 = -85.686 03 = -85.528

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 58 L360

NGS Name: TBM 58

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4593](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<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	106 N	45 W	435631.00	961105.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

1.4 MILES SOUTHEAST OF HATFIELD, 1.6 MILES EAST AND SOUTH ALONG COUNTY ROAD 16 FROM THE JUNCTION OF COUNTY ROAD 16 AND A RAILROAD IN HATFIELD, AT THE JUNCTION OF A RAILROAD AND COUNTY ROAD 16.

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

Geoid Separations(ft): GEOID18 = -85.886 12B = -85.866 09 = -85.754 03 = -85.600

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 59 L360

NGS Name: TBM 59

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4594](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<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	105 N	44 W	435602.00	961040.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

1.8 MILES SOUTHEAST OF HATFIELD, 1.7 MILES EAST AND SOUTH ALONG COUNTY ROAD 16 FROM THE JUNCTION OF COUNTY ROAD 16 AND A RAILROAD IN HATFIELD, THEN 0.6 MILE SOUTHEAST ON THE RAILROAD.

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

Geoid Separations(ft): GEOID18 = -85.925 12B = -85.902 09 = -85.794 03 = -85.640

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 6 L773

NGS Name: TBM 6

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4832](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	28	107 N	45 W	440216.00	961513.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

3.6 MILES NORTHEAST OF PIPESTONE, 3.6 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 75 IN PIPESTONE.

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

Geoid Separations(ft): GEOID18 = -85.499 12B = -85.489 09 = -85.400 03 = -85.256

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 60 L360

NGS Name: TBM 60

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4595](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	105 N	44 W	435531.00	961014.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

3.7 MILES NORTH OF EDGERTON, 2.4 MILES WEST ALONG TRUNK HIGHWAY 268 FROM THE JUNCTION OF TRUNK HIGHWAY 268 AND 4TH AVENUE IN EDGERTON, THEN 3.0 MILES NORTH ON COUNTY ROAD 16, THEN 1.0 MILE EAST ON COUNTY ROAD 2, THEN FOLLOW THE RAILROAD 0.4 MILE NORTHWEST.

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

Geoid Separations(ft): GEOID18 = -85.964 12B = -85.941 09 = -85.830 03 = -85.679

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 61 L360

NGS Name: TBM 61

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4596](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<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	105 N	44 W	435502.00	960950.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

3.0 MILES NORTH OF EDGERTON, 2.4 MILES WEST ALONG TRUNK HIGHWAY 268 FROM THE JUNCTION OF TRUNK HIGHWAY 268 AND 4TH AVENUE IN EDGERTON, THEN 2.0 MILES NORTH ON COUNTY ROAD 16, THEN 1.0 MILE EAST ON COUNTY ROAD 63, THEN 0.7 MILE NORTH ON COUNTY ROAD 63.

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

Geoid Separations(ft): GEOID18 = -860000 12B = -85.981 09 = -85.863 03 = -85.712

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 62 L360

NGS Name: TBM 62

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4597](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<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	105 N	44 W	435435.00	960927.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

2.4 MILES NORTH OF EDGERTON, 2.4 MILES WEST ALONG TRUNK HIGHWAY 268 FROM THE JUNCTION OF TRUNK HIGHWAY 268 AND 4TH AVENUE IN EDGERTON, THEN 2.0 MILES NORTH ON COUNTY ROAD 16, THEN 1.4 MILES EAST ON COUNTY ROAD 63, THEN 0.3 MILE NORTHWEST ON A RAILROAD.

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

Geoid Separations(ft): GEOID18 = -86.037 12B = -86.010 09 = -85.895 03 = -85.748

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 63 L360

NGS Name: TBM 63

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4598](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<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	105 N	44 W	435353.00	960855.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

1.5 MILES NORTHWEST OF EDGERTON, 1.0 MILE NORTH ALONG 160TH AVENUE FROM THE JUNCTION OF 160TH AVENUE AND TRUNK HIGHWAY 268 IN EDGERTON, THEN 0.1 MILE WEST ON 31ST STREET, THEN 0.3 MILE NORTH ON A RAILROAD, THEN TAKE THE FORK NORTHEAST 0.1 MILE.

**Stamping:**

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

Geoid Separations(ft): GEOID18 = -86.079 12B = -86.060 09 = -85.941 03 = -85.797

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 64 L360

NGS Name: TBM 64

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4599](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<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	105 N	44 W	435325.00	960835.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

0.8 MILE NORTH OF EDGERTON, 0.8 MILE NORTH ALONG 160TH AVENUE FROM THE JUNCTION OF 160TH AVENUE AND TRUNK HIGHWAY 268 IN EDGERTON.

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

Geoid Separations(ft): GEOID18 = -86.109 12B = -86.092 09 = -85.971 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:

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

Mn/DOT Name: TBM 65 L360

NGS Name: TBM 65

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4600](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

	<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	105 N	44 W	435258.00	960815.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

AT EDGERTON, 0.4 MILE NORTH ON COUNTY ROAD 17 FROM THE JUNCTION OF COUNTY ROAD 17 AND TRUNK HIGHWAY 268 IN EDGERTON, WEST OF COUNTY ROAD 17.

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

Geoid Separations(ft): GEOID18 = -86.135 12B = -86.122 09 = -85.997 03 = -85.853

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 66 L360

NGS Name: TBM 66

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4601](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096113/  
 USGS Quad: EDGERTON SOUTH

<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	28	105 N	44 W	435225.00	960752.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

AT EDGERTON, 3.0 BLOCKS SOUTH ALONG 4TH AVENUE FROM THE JUNCTION OF 4TH AVENUE AND TRUNK HIGHWAY 268 IN EDGERTON, THEN 2.5 BLOCKS EAST ON MAPLE STREET.

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

Geoid Separations(ft): GEOID18 = -86.165 12B = -86.155 09 = -86.027 03 = -85.886

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 67 L360

NGS Name: TBM 67

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4602](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096111/  
 USGS Quad: EDGERTON 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	27	105 N	44 W	435237.00	960700.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

0.5 MILE EAST OF EDGERTON, 0.9 MILE EAST ALONG TRUNK HIGHWAY 268 FROM THE JUNCTION OF TRUNK HIGHWAY 268 AND 4TH AVENUE IN PIPESTONE.

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

Geoid Separations(ft): GEOID18 = -86.158 12B = -86.148 09 = -86.017 03 = -85.886

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 68 L360

NGS Name: TBM 68

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4603](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096111/  
 USGS Quad: EDGERTON 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	22	105 N	44 W	435253.00	960623.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

1.0 MILE EAST OF EDGERTON, 1.0 MILE EAST ALONG TRUNK HIGHWAY 268 FROM THE JUNCTION OF TRUNK HIGHWAY 268 AND 4TH AVENUE IN EDGERTON, THEN 0.5 MILE NORTHEAST ON COUNTY ROAD 18.

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

Geoid Separations(ft): GEOID18 = -86.151 12B = -86.142 09 = -86.007 03 = -85.879

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 69 L360

NGS Name: TBM 69

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4604](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096111/  
 USGS Quad: EDGERTON 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	23	105 N	44 W	435310.00	960543.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

1.6 MILES NORTHEAST OF EDGERTON, 1.0 MILE EAST ALONG TRUNK HIGHWAY 268 FROM THE JUNCTION OF TRUNK HIGHWAY 268 AND 4TH AVENUE IN EDGERTON, THEN 0.8 MILE NORTHEAST ON COUNTY ROAD 18, THEN 0.5 MILE EAST ON 26TH STREET, THEN ABOUT 3757.0 FEET NORTH ON A TEE-ROAD NORTH.

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

Geoid Separations(ft): GEOID18 = -86.142 12B = -86.128 09 = -85.997 03 = -85.876

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 7 L3200

NGS Name: TBM 7

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BK5103](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096113/  
 USGS Quad: EDGERTON SOUTH

<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	34	105 N	45 W	435059.00	961438.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

5.6 MILES SOUTHWEST OF EDGERTON, 6.8 MILES SOUTH AND WEST ALONG COUNTY ROAD 1 FROM THE JUNCTION OF COUNTY ROAD 1 AND 4TH AVENUE IN EDGERTON, AT THE JUNCTION OF COUNTY ROAD 1 AND TRUNK HIGHWAY 75.

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

Geoid Separations(ft): GEOID18 = -86.168 12B = -86.145 09 = -86.033 03 = -85.866

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 7 L773

NGS Name: TBM 7

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4833](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	107 N	45 W	440244.00	961441.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

4.2 MILES NORTHEAST OF PIPESTONE, 4.2 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 75 IN PIPESTONE.

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

Geoid Separations(ft): GEOID18 = -85.482 12B = -85.472 09 = -85.387 03 = -85.243

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: TBM 70 L360

NGS Name: TBM 70

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4605](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096111/  
 USGS Quad: EDGERTON 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	23	105 N	44 W	435326.00	960507.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

2.1 MILES NORTHEAST OF EDGERTON, 1.0 MILE EAST ALONG TRUNK HIGHWAY 268 FROM THE JUNCTION OF TRUNK HIGHWAY 268 AND 4TH AVENUE IN EDGERTON, THEN 0.8 MILE NORTHEAST ON COUNTY ROAD 18, THEN 1.0 MILE EAST ON 26TH STREET, THEN 0.4 MILE NORTH ON 21ST AVENUE.

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

Geoid Separations(ft): GEOID18 = -86.132 12B = -86.119 09 = -85.991 03 = -85.876

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_62050.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62050.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_62050.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62050.pdf)



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

Mn/DOT Name: TBM 71 L360

NGS Name: TBM 71

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BT4606](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096111/  
 USGS Quad: EDGERTON 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	13	105 N	44 W	435344.00	960426.00		

<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>
1931	1931	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

2.6 MILES NORTHEAST OF EDGERTON, 1.0 MILE EAST ALONG TRUNK HIGHWAY 268 FROM THE JUNCTION OF TRUNK HIGHWAY 268 AND 4TH AVENUE IN EDGERTON, THEN 0.8 MILE NORTHEAST ON COUNTY ROAD 18, THEN 1.0 MILE EAST ON 26TH STREET, THEN 0.7 MILE NORTH ON 21ST AVENUE.

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

Geoid Separations(ft): GEOID18 = -86.125 12B = -86.105 09 = -85.984 03 = -85.876

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_62039.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62039.pdf)

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

Mn/DOT Name: TBM 8 L3200

NGS Name: TBM 8

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BK5104](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096113/  
 USGS Quad: EDGERTON SOUTH

<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	28	105 N	45 W	435149.00	961500.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

1.6 MILES SOUTH OF TROSKY, 1.0 MILE SOUTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 268 IN TROSKY, THEN 0.6 MILE EAST ON 11TH STREET.

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

Geoid Separations(ft): GEOID18 = -86.128 12B = -86.102 09 = -85.987 03 = -85.823

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_62544.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62544.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_62544.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62544.pdf)



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

Mn/DOT Name: TBM 8 L773

NGS Name: TBM 8

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4834](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<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	22	107 N	45 W	440335.00	961341.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

2.8 MILES SOUTHWEST OF HOLLAND, 3.0 MILES SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 16 IN HOLLAND.

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

Geoid Separations(ft): GEOID18 = -85.462 12B = -85.459 09 = -85.371 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\\_60297.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60297.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_60297.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60297.pdf)



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

Mn/DOT Name: TBM 9 L3200

NGS Name: TBM 9

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BK5105](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	21	105 N	45 W	435242.00	961521.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

0.7 MILE SOUTH OF TROSKY, 0.4 MILE EAST ALONG TRUNK HIGHWAY 268 FROM THE JUNCTION OF TRUNK HIGHWAY 268 AND TRUNK HIGHWAY 75.

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

Geoid Separations(ft): GEOID18 = -86.073 12B = -86.046 09 = -85.938 03 = -85.777

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_61195.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61195.pdf)

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

Mn/DOT Name: TBM 9 L773

NGS Name: TBM 9

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [BR4835](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<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	23	107 N	45 W	440346.00	961328.00		

<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>
IRON ROD	UNMONUMENTED	NGS

**Description:**

**Stamping:**

2.5 MILES SOUTHWEST OF HOLLAND, 2.7 MILES SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 16 IN HOLLAND.

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

Geoid Separations(ft): GEOID18 = -85.462 12B = -85.456 09 = -85.367 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_61219.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61219.pdf)





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

Mn/DOT Name: TROY CNT

NGS Name: TROY CNT

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DH3145](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	107 N	46 W	440357.78	962201.10		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>
2003	2014	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)	REFERENCE MARK DISK	MN-117

**Description:** (2003)                      **Stamping:** TROY CNT 2003

IN CAZENOVIA, AT THE SOUTHEAST CORNER OF A TOWN HALL AREA, 105.8 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A BRICK BUILDING, 253.0 FEET EAST OF 50TH AVENUE, 4.5 FEET NORTHWEST OF A FENCE CORNER POST, 323.0 FEET SOUTH OF COUNTY ROAD 7/151ST STREET, 1.5 FEET NORTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.354    12B = -85.354    09 = -85.275    03 = -85.125

Geodetic Position and Pipestone 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 03 57.77693	96 22 01.10493	469250.878	179090.211	143027.954	54586.806	483.548		2014	GPS3047
NAD83 (2007)	44 03 57.77687	96 22 01.10588	469250.809	179090.205	143027.933	54586.804	483.578		2007	GPS2300
NAD83 (1996)	44 03 57.77646	96 22 01.10513	469250.864	179090.163	143027.949	54586.791	483.612	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/pipestone/TROY_CNT-DH3145-3S-22APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/TROY_CNT-DH3145-3S-22APR2014.jpg</a>	S	Apr 22, 2014
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/TROY_CNT-DH3145-2-22APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/TROY_CNT-DH3145-2-22APR2014.jpg</a>		Apr 22, 2014
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/TROY_CNT-DH3145-1-22APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/TROY_CNT-DH3145-1-22APR2014.jpg</a>		Apr 22, 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\\_50729.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_50729.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_50729.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_50729.pdf)



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

Mn/DOT Name: TROY SW

NGS Name: TROY SW

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DH3143](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096233/  
 USGS Quad: ELKTON SW

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	36	107 N	47 W	440125.56	962549.43	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2003	2021	GOOD	Horz=YES Vert=YES	YES		PROJECTS 2 IN.	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MN-117

**Description:** (2003)                      **Stamping:** TROY SW 2003

6.0 MILES NORTHWEST OF PIPESTONE, 5.85 MILES WEST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 SOUTH IN PIPESTONE, TO TRUNK HIGHWAY 30 MILEPOINT 1.9, THEN 2.0 MILES NORTH ON COUNTY ROAD 13 (20TH AVENUE), THEN 0.1 MILE WEST ON 121ST STREET, 33.1 FEET NORTH OF 121ST STREET, 20.1 FEET WEST OF A FENCE CORNER POST, 33.5 FEET WEST OF A FIELD ENTRANCE, 0.6 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	1653.123	0.016	503.873	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.469    12B = -85.469    09 = -85.374    03 = -85.229

Geodetic Position and Pipestone 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 01 25.56496	96 25 49.43054	452544.819	163705.756	137935.937	49897.614	477.822			2012	GPS2800	
NAD83 (2007)	44 01 25.56491	96 25 49.43148	452544.750	163705.751	137935.916	49897.613	477.852			2007	GPS2300	
NAD83 (1996)	44 01 25.56452	96 25 49.43074	452544.804	163705.711	137935.932	49897.601	477.885	C		2005	GPS2097	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/TROY_SW-DH3143-3N-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/TROY_SW-DH3143-3N-04MAY2021.jpg</a>	N	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/TROY_SW-DH3143-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/TROY_SW-DH3143-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/TROY_SW-DH3143-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/TROY_SW-DH3143-1-04MAY2021.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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_50730.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_50730.pdf)



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

Mn/DOT Name: U 11

NGS Name: U 11

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0067](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	106 N	46 W	440009.00	962226.00	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>
1931	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:** (1965)                      **Stamping:** 1628.376 U 11 1931

2.3 MILES WEST OF PIPESTONE, 2.7 MILES WEST ALONG THE CHICAGO MILWAUKEE ST. PAUL AND PACIFIC RAILROAD FROM PIPESTONE, 1.3 MILES WEST ALONG COUNTY ROAD 5 FROM THE JUNCTION OF COUNTY ROAD 5 AND COUNTY ROAD 15 IN PIPESTONE, ABOUT 0.5 MILE SOUTH OF COUNTY ROAD 5, OPPOSITE RAILROAD MILEPOST 292, 45.0 FEET SOUTH OF THE SOUTH RAIL, 2.0 FEET NORTH OF A RIGHT-OF-WAY FENCE.

**Station Notes**

THE STATION WAS DESTROYED IN 1965.

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	1629.167	0.007	496.571	0.002	1/2	1991	00000025
NGVD29	1628.376	0.007	496.330	0.002	1	1935	CUTLER-VERT

Geoid Separations(ft): GEOID18 = -85.607 12B = -85.597 09 = -85.499 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:

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

Mn/DOT Name: U 7

NGS Name: U 7

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0076](#) [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>
NW	22	108 N	44 W	440908.00	960701.00	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>	
1933	1987	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:** (1987)

**Stamping:** U 7 1933

1.6 MILES SOUTHWEST OF RUTHTON, 0.6 MILE WEST ALONG COUNTY ROAD 10 FROM THE JUNCTION OF COUNTY ROAD 10 AND TRUNK HIGHWAY 23, 264.0 FEET SOUTH OF RAILROAD MILEPOST 90, AT THE NORTH END OF A CUT, 96.0 FEET SOUTHWEST OF A ROAD CROSSING, 88.0 FEET WEST OF THE WEST RAIL OF THE RAILROAD TRACKS, 50.0 FEET SOUTH OF A ROAD, 8.0 FEET EAST OF A BOARD FENCE.

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	1782.083	0.007	543.180	0.002	1	1993	POSTED
NGVD29	1781.260	0.007	542.929	0.002	1	1941	L78 MINN

Geoid Separations(ft): GEOID18 = -85.718 12B = -85.735 09 = -85.646 03 = -85.528

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23699.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23699.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23699.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23699.pdf)



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

Mn/DOT Name: U 7 RESET

NGS Name: U 7 RESET

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0077](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096221/  
 USGS Quad: RUTHTON

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	22	108 N	44 W	440911.48	960703.36	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1965	2014	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

**Description:** (2001) **Stamping:** U 7 RESET 1964 1772.66

0.5 MILE SOUTH OF RUTHTON, 0.8 MILE SOUTH ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 18 IN RUTHTON, TO TRUNK HIGHWAY 23 MILEPOINT 45.7, THEN 0.7 MILE WEST ON COUNTY ROAD 10, 87.6 FEET WEST-SOUTHWEST OF THE WEST-SOUTHWEST RAIL OF THE RAILROAD TRACKS, 50.9 FEET SOUTH OF COUNTY ROAD 10, 1.0 FOOT 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	1773.999 0.016	540.716 0.005	2/1	2015 00000851

Geoid Separations(ft): GEOID18 = -85.718 12B = -85.735 09 = -85.643 03 = -85.528

Geodetic Position and Pipestone 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 09 11.48507	96 07 03.35929	534753.333	210866.030	162993.142	64272.094	514.569			2012	GPS2800	
NAD83 (2007)	44 09 11.48499	96 07 03.36025	534753.263	210866.022	162993.121	64272.092	514.599			2007	GPS2300	
NAD83 (1996)	44 09 11.48437	96 07 03.35971	534753.303	210865.959	162993.133	64272.073	514.648	C		2002	GPS1720	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/U_7_RESET-PR0077-3S-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/U_7_RESET-PR0077-3S-09APR2014.jpg</a>	S	Apr 9, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/U_7_RESET-PR0077-2-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/U_7_RESET-PR0077-2-09APR2014.jpg</a>		Apr 9, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/U_7_RESET-PR0077-1-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/U_7_RESET-PR0077-1-09APR2014.jpg</a>		Apr 9, 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:

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

Mn/DOT Name: V 11

NGS Name: V 11

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0068](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

<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	12	106 N	46 W	440009.24	961921.34	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>
1931	2015	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

**Description:** (1992)                      **Stamping:** V 11 1931 1712.155

IN PIPESTONE, 400.0 FEET NORTHWEST OF THE JUNCTION OF NORTHWEST 2ND STREET AND NORTHWEST 4TH AVENUE IN PIPESTONE, 119.5 FEET WEST OF NORTHWEST 4TH AVENUE, 115.1 FEET EAST OF A POWER POLE WITH A STREET LIGHT, 35.7 FEET WEST OF A POWER POLE, 0.7 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	1712.989	0.016	522.120	0.005	2/1	2017	00000903
NGVD29	1712.201	0.016	521.880	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.604 12B = -85.597 09 = -85.499 03 = -85.331

Geodetic Position and Pipestone 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 00 09.24348	96 19 21.34173	480896.422	155933.197	146577.523	47528.533	496.041			2014	GPS3047	
NAD83 (1996)	44 00 09.24315	96 19 21.34165	480896.428	155933.163	146577.525	47528.523	496.110	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/pipestone/V_11-PR0068-3W-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/V_11-PR0068-3W-13JUN2012.jpg</a>	W	Jun 13, 2012
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/V_11-PR0068-2-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/V_11-PR0068-2-13JUN2012.jpg</a>		Jun 13, 2012
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/V_11-PR0068-1-13JUN2012.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/V_11-PR0068-1-13JUN2012.jpg</a>		Jun 13, 2012

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

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

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

Mn/DOT Name: V 7

NGS Name: V 7

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0078](#) [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	10	108 N	44 W	441039.00	960615.00	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>
1933	1986	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:** (1986)                      **Stamping:** V 7 1933

IN RUTHTON, AT THE JUNCTION OF RAILROAD AVENUE AND SMITH AVENUE, ON THE EAST SIDE OF SMITH AVENUE, IN THE EAST WALL OF THE RUTHTON CO-OPERATIVE CREAMERY, WHICH IS ON THE SOUTHEAST SIDE OF THE TRACK IN THE NORTH PART OF TOWN. THE TABLET IS 142.0 FEET SOUTHEAST OF THE SOUTHEAST RAIL, 0.9 MILE NORTHEAST OF MILEPOST 89, AND 66.0 FEET NORTHWEST OF THE CENTERLINE OF A STATE ROAD TO TYLER. 3.2 FEET SOUTH OF THE NORTHEAST CORNER, AND 5.0 FEET ABOVE THE GROUND.

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	1732.418	0.007	528.042	0.002	1	1993	POSTED
NGVD29	1731.604	0.007	527.794	0.002	1	1963	L78 MINN

Geoid Separations(ft): GEOID18 = -85.820 12B = -85.843 09 = -85.751 03 = -85.633

\* No Horizontal Positions in the Database \*

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

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

Mn/DOT Name: V 7 RESET

NGS Name: V 7 RESET

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR1173](#) [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	10	108 N	44 W	441041.10	960616.37	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>
1986	2001	GOOD	Horz=NO Vert=NO	NO		PROJECTS 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	VERTICAL CONTROL DISK	MNDT

**Description:** (2001)                      **Stamping:** V 7 RESET 1986

IN THE NORTHWEST PART OF RUTHTON, 500.0 FEET NORTHWEST OF THE WATER TANK, NEAR A RAILROAD CROSSING OF COUNTY ROAD 18 (SMITH AVENUE), 106.6 FEET WEST OF COUNTY ROAD 18, 144.0 FEET NORTH OF THE NORTHWEST CORNER OF THE RUTHTON COMMUNITY CENTER, 109.6 FEET EAST-NORTHEAST OF A RAILROAD SWITCH, 35.4 FEET SOUTHEAST OF THE SOUTHEAST RAIL OF THE RAILROAD TRACKS, 0.82 FOOT SOUTHWEST 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	1724.944	0.007	525.764	0.002	1/2	1991	00000025
NGVD29	1725.010	0.016	525.784	0.005	2	1986	L78 MINN

Geoid Separations(ft): GEOID18 = -85.817    12B = -85.840    09 = -85.751    03 = -85.630

**Geodetic Position and Pipestone 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 10 41.10226	96 06 16.37247	538163.273	219947.572	164032.494	67040.154	499.600			2012	GPS2800	
NAD83 (2007)	44 10 41.10216	96 06 16.37345	538163.202	219947.562	164032.472	67040.151	499.629			2007	GPS2300	
NAD83 (1996)	44 10 41.10135	96 06 16.37293	538163.240	219947.480	164032.484	67040.126	499.681	C		2002	GPS1720	

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

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

Mn/DOT Name: VANECK MNDT

NGS Name: VANECK

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DE7131](#) [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>
NE	28	108 N	44 W	440807.17	960728.78		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	DESTROYED	Horz=NO Vert=NO	NO			MARKER W/BAR MAGNET

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

**Description:** (2001)                      **Stamping:** VANECK 2001

3.25 MILES SOUTHWEST OF RUTHTON, 2.7 MILES SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 18 IN RUTHTON, AT TRUNK HIGHWAY 23 MILEPOINT 43.8, 151.9 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 131.0 FEET SOUTH-SOUTHEAST OF A POWER POLE, 70.6 FEET WEST OF 170TH AVENUE, 2.1 FEET EAST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.663    12B = -85.676    09 = -85.594    03 = -85.469

Geodetic Position and Pipestone 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 08 07. 17143	96 07 28. 78355	532909. 475	204349. 948	162431. 133	62285. 989	524. 667		2012	GPS2800
NAD83 (2007)	44 08 07. 17135	96 07 28. 78451	532909. 404	204349. 940	162431. 111	62285. 986	524. 696		2007	GPS2300
NAD83 (1996)	44 08 07. 17086	96 07 28. 78398	532909. 443	204349. 890	162431. 123	62285. 971	524. 744	C	2002	GPS1720

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_41734.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41734.pdf)



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

Mn/DOT Name: VANECK MNDT RESET

NGS Name: VANECK RESET

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP4275](#) [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>
NE	28	108 N	44 W	440807.17	960728.78	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>
2014	2014	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 35 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2014)                      **Stamping:** VANECK 2001 2014

3.25 MILES SOUTHWEST OF RUTHTON, 2.7 MILES SOUTHWEST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 18 IN RUTHTON, AT TRUNK HIGHWAY 23 MILEPOINT 43.8, 151.9 FEET SOUTHEAST OF TRUNK HIGHWAY 23, 131.0 FEET SOUTH-SOUTHEAST OF A POWER POLE, 70.6 FEET WEST OF 170TH AVENUE, 2.1 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	1806.817	0.016	550.719	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.663    12B = -85.676    09 = -85.594    03 = -85.469

Geodetic Position and Pipestone 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 08 07.17122	96 07 28.78383	532909.454	204349.927	162431.127	62285.982	524.605			2014	GPS3026	
NAD83 (1996)	44 08 07.17081	96 07 28.78425	532909.423	204349.885	162431.117	62285.970	524.685	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/pipestone/VANECK_RESET-DP4275-3SE-22APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/VANECK_RESET-DP4275-3SE-22APR2014.jpg</a>	SE	Apr 22, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/VANECK_RESET-DP4275-2-22APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/VANECK_RESET-DP4275-2-22APR2014.jpg</a>		Apr 22, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/VANECK_RESET-DP4275-1-22APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/VANECK_RESET-DP4275-1-22APR2014.jpg</a>		Apr 22, 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\\_101318.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101318.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_101318.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101318.pdf)



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

Mn/DOT Name: W 11

NGS Name: W 11

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: <a href="#">PR0069</a>	<a href="#">Get Map</a>
NGS Quad / Sta Num : 44096232/	
USGS Quad: PIPESTONE NORTH	

<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	106 N	46 W	440002.30	961905.00	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>
1931	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:** (1990)                      **Stamping:** W 11 1931 1738.067

IN PIPESTONE, AT THE JUNCTION OF NORTH HIAWATHA AVENUE AND EAST MAIN STREET, SET VERTICALLY IN THE SOUTH FACE OF THE WEST 1 OF 3 COLUMNS OF THE FORMER FIRST NATIONAL BANK (NOW A DRUG STORE), 86.6 FEET WEST OF NORTH HIAWATHA AVENUE, 42.3 FEET NORTH OF EAST MAIN STREET, 3.7 FEET EAST OF THE SOUTHWEST CORNER OF A BUILDING.

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	1738.861	0.016	530.006	0.005	2/1	2017	00000903
NGVD29	1738.067	0.016	529.764	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.610 12B = -85.604 09 = -85.502 03 = -85.338

\* 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/pipestone/W_11-PR0069-3N-21JUN2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/W_11-PR0069-3N-21JUN2006.jpg</a>	N	Jun 21, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/W_11-PR0069-2-21JUN2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/W_11-PR0069-2-21JUN2006.jpg</a>		Jun 21, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/W_11-PR0069-1-21JUN2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/W_11-PR0069-1-21JUN2006.jpg</a>		Jun 21, 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\\_23704.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23704.pdf)  
 Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23704.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23704.pdf)



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

Mn/DOT Name: W 11 A

NGS Name: W 11 A

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DM4048](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096232/  
 USGS Quad: PIPESTONE NORTH

				Reference	Reference	Vert	Horz
1/4	Sec	Twp	Rng	Latitude	Longitude	Order	Order
NW	13	106 N	46 W	440011.81	961931.27	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2006	2021	POOR	Horz=NO Vert=NO	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: W 11 A 2006

IN PIPESTONE, 0.05 MILE NORTH ALONG TRUNK HIGHWAY 75 FROM THE JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 23 IN PIPESTONE, TO TRUNK HIGHWAY 75 MILEPOINT 36.65, THEN 0.9 MILE WEST ALONG 4TH STREET, 41.9 FEET SOUTH OF 4TH STREET, 21.3 FEET EAST OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION AND PIPESTONE COUNTY TRUCK STATION ENTRANCE, 19.9 FEET SOUTHWEST OF A WITNESS POST.

**Station Notes**

FOUND CAP LOOSE. USE WITH CAUTION.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1705.417	0.016	519.812	0.005	2/1	2017	0000903

Geoid Separations(ft): GEOID18 = -85.604 12B = -85.597 09 = -85.499 03 = -85.331

Geodetic Position and Pipestone 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 00 11.81202	96 19 31.27182	480170.790	156193.963	146356.350	47608.015	493.719			2014	GPS3047	
NAD83 (1996)	44 00 11.81157	96 19 31.27170	480170.799	156193.917	146356.352	47608.001	493.785	C		2011	HTH75	

Station Photos

Type	File Name	Dir	Date
Location:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/W_11_A-DM4048-3N-05JUL2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/W_11_A-DM4048-3N-05JUL2006.jpg</a>	N	Jul 5, 2006
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/W_11_A-DM4048-2-05JUL2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/W_11_A-DM4048-2-05JUL2006.jpg</a>		Jul 5, 2006
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/W_11_A-DM4048-1-05JUL2006.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/W_11_A-DM4048-1-05JUL2006.jpg</a>		Jul 5, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_62897.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62897.pdf)



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

Mn/DOT Name: WARMER

NGS Name: WARMER

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CU7937](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/1021  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	105 N	45 W	435415.00	961823.00		

<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	1977	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

**Description:** **Stamping:** WARMER 1935

6.1 MILES SOUTH OF PIPESTONE, 4.6 MILES SOUTH ALONG COUNTY ROAD 15 FROM THE JUNCTION OF COUNTY ROAD 15 AND TRUNK HIGHWAY 23 IN PIPESTONE, THEN 1.0 MILE EAST ON COUNTY ROAD 2, THEN 0.15 MILE SOUTH ON 80TH AVENUE, THEN TURN EAST THRU A GATE, 90.0 FEET TO THE TOP OF A SMALL HILL AND THE STATION, 115.0 FEET NORTH OF AN EAST-WEST FENCE LINE, 152.0 FEET EAST OF A NORTH-SOUTH FENCE LINE, 29.0 FEET NORTHEAST OF AN OLD GRAVEL PIT.

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

Geoid Separations(ft): GEOID18 = -85.964 12B = -85.935 09 = -85.836 03 = -85.672

<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>
NAD27	43 54 15. 74100	96 18 22. 89800						3	1966	USGS-H0

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67315.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67315.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67315.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67315.pdf)



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

Mn/DOT Name: WARMER AZ MK

NGS Name: WARMER AZ MK

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO4800](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/1021  
 USGS Quad: PIPESTONE SOUTH

<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	7	105 N	45 W	435442.00	961824.00		

<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	1962	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:** WARMER 1935

5.6 MILES SOUTH OF PIPESTONE, 4.6 MILES SOUTH ALONG COUNTY ROAD 15 FROM THE JUNCTION OF COUNTY ROAD 15 AND TRUNK HIGHWAY 23 IN PIPESTONE, THEN 1.0 MILE EAST ON COUNTY ROAD 2, THEN 0.3 MILE NORTH ON 80TH AVENUE, 0.7 MILE NORTH OF STATION WARMER, IN AN EAST RIGHT-OF-WAY FENCE LINE AT A FENCE CORNER, 36.0 FEET EAST OF THE CENTERLINE OF THE NORTH-SOUTH ROAD.

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

Geoid Separations(ft): GEOID18 = -85.941 12B = -85.912 09 = -85.810 03 = -85.646

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67319.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67319.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67319.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67319.pdf)



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

Mn/DOT Name: WARMER AZ MK 3

NGS Name: WARMER AZ MK 3

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0692](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/1021  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	105 N	46 W	435424.03	961902.00		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	2021	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)	AZIMUTH MARK DISK	NGS

**Description:** (1977)                      **Stamping:** WARMER 1935 1977 NO 3

6.0 MILES SOUTH OF PIPESTONE, 6.0 MILES SOUTH ON COUNTY ROAD 56 FROM THE JUNCTION OF COUNTY ROAD 56 AND TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 75 IN PIPESTONE, THEN 0.5 MILE WEST ON COUNTY ROAD 2, 49.0 FEET SOUTH OF COUNTY ROAD 2, 5.0 FEET NORTH OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.958    12B = -85.928    09 = -85.827    03 = -85.663

Geodetic Position and Pipestone 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)	43 54 24. 02760	96 19 02. 00422	482281. 455	120972. 420	146999. 682	36872. 467	504. 557		2014	GPS3047
NAD83 (1996)	43 54 24. 02687	96 19 02. 00467	482281. 423	120972. 346	146999. 672	36872. 445	504. 626	C	2011	HTH75
NAD83 (1986)	43 54 24. 02772	96 19 01. 98634	482282. 764	120972. 431	147000. 081	36872. 471		2	1986	17289
NAD27	43 54 24. 13115	96 19 00. 86017						2	1982	16710

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/pipestone/WARMER_AZ_MK_3-OQ0692-3S-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WARMER_AZ_MK_3-OQ0692-3S-04MAY2021.jpg</a>	S	May 4, 2021
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WARMER_AZ_MK_3-OQ0692-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WARMER_AZ_MK_3-OQ0692-2-04MAY2021.jpg</a>		May 4, 2021
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WARMER_AZ_MK_3-OQ0692-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WARMER_AZ_MK_3-OQ0692-1-04MAY2021.jpg</a>		May 4, 2021

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23707.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23707.pdf)



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

Mn/DOT Name: WARMER AZ MK RESET

NGS Name: WARMER AZ MK RESET

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0691](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/1021  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	7	105 N	45 W	435450.87	961825.81		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>
1962	2011	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL ROD 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:** (1962)                      **Stamping:** WARMER 1935 RESET 1962

5.5 MILES SOUTH OF PIPESTONE, 5.6 MILES SOUTH ON COUNTY ROAD 56 FROM THE JUNCTION OF COUNTY ROAD 56 AND TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 23 AND TRUNK HIGHWAY 75 IN PIPESTONE, 51.0 FEET EAST OF A ROAD, 2.0 FEET SOUTH OF AN EAST-WEST FENCE EXTENDED, 1.5 FEET EAST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.932    12B = -85.905    09 = -85.804    03 = -85.640

Geodetic Position and Pipestone 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)	43 54 50.87045	96 18 25.81475	484932.983	123688.745	147807.869	37700.405	496.275		2014	GPS3047
NAD83 (1996)	43 54 50.86990	96 18 25.81470	484932.986	123688.689	147807.870	37700.388	496.340	C	2011	HTH75
NAD83 (1986)	43 54 50.86955	96 18 25.79638	484934.327	123688.653	147808.279	37700.377		3	1986	17289
NAD27	43 54 50.97311	96 18 24.67172						3	1982	16710

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/pipestone/WARMER_AZ_MK_RESET-OQ0691-3E-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WARMER_AZ_MK_RESET-OQ0691-3E-15DEC2010.jpg</a>	E	Dec 15, 2010
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WARMER_AZ_MK_RESET-OQ0691-2-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WARMER_AZ_MK_RESET-OQ0691-2-15DEC2010.jpg</a>		Dec 15, 2010
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WARMER_AZ_MK_RESET-OQ0691-1-15DEC2010.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WARMER_AZ_MK_RESET-OQ0691-1-15DEC2010.jpg</a>		Dec 15, 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\\_23706.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23706.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23706.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23706.pdf)





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

Mn/DOT Name: WARMER ECC

NGS Name: WARMER ECC

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0690](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<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	105 N	45 W	435415.75	961823.51		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
	1999	GOOD	Horz=? Vert=?	NO			SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	UNMONUMENTED	NGS

**Description:**

**Stamping:**

6.1 MILES SOUTH OF PIPESTONE, 4.6 MILES SOUTH ALONG COUNTY ROAD 15 FROM THE JUNCTION OF COUNTY ROAD 15 AND TRUNK HIGHWAY 23 IN PIPESTONE, THEN 1.0 MILE EAST ON COUNTY ROAD 2, THEN 0.15 MILE SOUTH ON 80TH AVENUE, THEN TURN EAST THRU A GATE, 40.8 FEET EAST-NORTHEAST OF WARMER RESET.

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

Geoid Separations(ft): GEOID18 = -85.964 12B = -85.935 09 = -85.836 03 = -85.672

Geodetic Position and Pipestone 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)	43 54 15.74951	96 18 23.50616	485099.548	120131.999	147858.638	36616.307	522.364	2	1999	17648		
NAD83 (1986)	43 54 15.75030	96 18 23.48770	485100.900	120132.078	147859.050	36616.331		2	1986	17289		
NAD27	43 54 15.85379	96 18 22.36241						2	1982	16710		

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_64443.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64443.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_64443.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64443.pdf)



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

Mn/DOT Name: WARMER RESET

NGS Name: WARMER RESET

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0686](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/1021  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	105 N	45 W	435415.64	961824.04		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	2011	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

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

**Description:** (2004)                      **Stamping:** WARMER 1935 1977

3.0 MILES EAST OF IHLEN, 3.2 MILES EAST ALONG COUNTY ROAD 2 FROM THE JUNCTION OF COUNTY ROAD 2 AND TRUNK HIGHWAY 23 IN IHLEN, TO TRUNK HIGHWAY 23 MILEPOINT 23.0, 0.2 MILE SOUTH ALONG 80TH AVENUE, ON A PROMINENT HILL IN A PASTURE, 173.0 FEET EAST OF A ROAD, 118.0 FEET EAST OF A RIGHT-OF-WAY FENCE EXTENDED, 40.81 FEET WEST-SOUTHWEST OF STATION WARMER ECC, 1.0 FOOT WEST OF A WITNESS POST.

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

Geoid Separations(ft): GEOID18 = -85.964    12B = -85.935    09 = -85.836    03 = -85.672

Geodetic Position and Pipestone 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)	43 54 15. 63775	96 18 24. 04127	485060. 361	120120. 708	147846. 694	36612. 865	522. 882		2014	GPS3047
NAD83 (2007)	43 54 15. 63763	96 18 24. 04243	485060. 276	120120. 696	147846. 668	36612. 861	522. 912		2007	GPS2300
NAD83 (1996)	43 54 15. 63713	96 18 24. 04154	485060. 341	120120. 645	147846. 688	36612. 846	522. 946	C	2011	HTH75
NAD83 (1986)	43 54 15. 63760	96 18 24. 02299	485061. 699	120120. 692	147847. 102	36612. 860		2	1995	GPS824
NAD27	43 54 15. 74449	96 18 22. 90165						2	1991	17504

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/pipestone/WARMER_RESET-OQ0686-3E-22JUN2004.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WARMER_RESET-OQ0686-3E-22JUN2004.jpg</a>	E	Jun 22, 2004
<b>Monument:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WARMER_RESET-OQ0686-2-22JUN2004.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WARMER_RESET-OQ0686-2-22JUN2004.jpg</a>		Jun 22, 2004
<b>Disk:</b>	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WARMER_RESET-OQ0686-1-22JUN2004.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WARMER_RESET-OQ0686-1-22JUN2004.jpg</a>		Jun 22, 2004

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

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23705.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23705.pdf)



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

Mn/DOT Name: WARMER RM 1

NGS Name: WARMER RM 1

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO4801](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/1021  
 USGS Quad: PIPESTONE SOUTH

<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	105 N	45 W	435414.47	961823.23		

<u>Year Set</u>	<u>Last Recovery</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	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 10 IN.	STEEL ROD ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

**Description:** (2007)                      **Stamping:** WARMER NO 1 1935

6.1 MILES SOUTH OF PIPESTONE, 4.6 MILES SOUTH ALONG COUNTY ROAD 15 FROM THE JUNCTION OF COUNTY ROAD 15 AND TRUNK HIGHWAY 23 IN PIPESTONE, THEN 1.0 MILE EAST ON COUNTY ROAD 2, THEN 0.15 MILE SOUTH ON 80TH AVENUE, THEN TURN EAST THRU A GATE, 94.0 FEET NORTH OF THE NORTHEAST CORNER OF AN OLD WOODEN GRANARY, 43.0 FEET NORTHWEST OF A FENCE CORNER, 15.0 FEET WEST OF THE CENTER OF A TRACK ROAD.

**Station Notes**

FOUND THE MARK ON THE TOP OF THE GROUND BY THE STATION.

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

Geoid Separations(ft): GEOID18 = -85.964    12B = -85.935    09 = -85.836    03 = -85.672

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67320.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67320.pdf)

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

Mn/DOT Name: WARMER RM 2

NGS Name: WARMER RM 2

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO4802](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/1021  
 USGS Quad: PIPESTONE SOUTH

<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	105 N	45 W	435414.58	961825.38		

<u>Year Set</u>	<u>Last Recovery</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	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 6 IN.	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

**Description:** (2007)                      **Stamping:** WARMER NO 2 1935

6.1 MILES SOUTH OF PIPESTONE, 4.6 MILES SOUTH ALONG COUNTY ROAD 15 FROM THE JUNCTION OF COUNTY ROAD 15 AND TRUNK HIGHWAY 23 IN PIPESTONE, THEN 1.0 MILE EAST ON COUNTY ROAD 2, THEN 0.15 MILE SOUTH ON 80TH AVENUE, THEN TURN EAST THRU A GATE, 76.0 FEET EAST OF THE CENTER OF THE ROAD, 74.0 FEET NORTHEAST OF THE SOUTHWEST CORNER OF THE PASTURE, 21.0 FEET EAST OF A WITNESS POST AND A FENCE.

**Station Notes**

FOUND THE MARK LAYING ON THE GROUND BY THE STATION.

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

Geoid Separations(ft): GEOID18 = -85.964    12B = -85.935    09 = -85.836    03 = -85.672

\* No Horizontal Positions in the Database \*

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67323.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67323.pdf)



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

Mn/DOT Name: WEIS

NGS Name: WEIS

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP9048](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>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	106 N	45 W	435937.38	961241.64	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
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 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2015)                      **Stamping:** WEIS 2015

4.5 MILES EAST OF PIPESTONE, 4.5 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 SOUTH IN PIPESTONE, AT TRUNK HIGHWAY 30 MILEPOINT 12.75, 60.3 FEET SOUTH OF TRUNK HIGHWAY 30, 34.5 FEET EAST OF A FIELD ENTRANCE, 1.5 FEET NORTH OF A WITNESS POST.

**Station Pair:** 5904 P - PIPESTONE, 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	1743.927	0.016	531.550	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.682 12B = -85.656 09 = -85.564 03 = -85.407

Geodetic Position and Pipestone 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)	43 59 37.38122	96 12 41.63715	510115.563	152700.470	155483.535	46543.196	505.436			2015	GPS3109	
NAD83 (1996)	43 59 37.38098	96 12 41.63782	510115.514	152700.446	155483.520	46543.189	505.499	C		2015	HWLSN	

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/pipestone/WEIS-DP9048-3S-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WEIS-DP9048-3S-12MAY2015.jpg</a>	S	May 12, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WEIS-DP9048-2-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WEIS-DP9048-2-12MAY2015.jpg</a>		May 12, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WEIS-DP9048-1-12MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WEIS-DP9048-1-12MAY2015.jpg</a>		May 12, 2015

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

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

Mn/DOT Name: WILD

NGS Name: WILD

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0794](#) [Get Map](#)  
NGS Quad / Sta Num : 44096223/1039  
USGS Quad: HOLLAND

<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	107 N	44 W	440147.77	960954.54		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	2015	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

**Description:** (2022) **Stamping:** WILD 1966

4.5 MILES SOUTH OF HOLLAND, 6.6 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, THEN 2.55 MILES NORTH ALONG 150TH AVENUE TO TRACK ROAD AND STATION WILD ON THE LEFT, IN A WILDLIFE AREA, 100.0 FEET NORTH-NORTHWEST OF A FENCE CORNER, 78.0 FEET SOUTH-SOUTHWEST OF A FENCE CORNER, 70.0 FEET WEST OF 150TH AVENUE, 55.0 FEET SOUTH OF A TRACK ROAD, 97.82 FEET NORTH-NORTHWEST OF WILD RM 1, 106.63 FEET SOUTHEAST OF WILD RM 2, 1.2 FEET EAST OF A WITNESS POST.

**Station Notes**

WILD RM 1 AND WILD RM 2 WERE NOT LOOKED FOR IN 2004.

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

Geoid Separations(ft): GEOID18 = -85.643 12B = -85.626 09 = -85.528 03 = -85.384

**Geodetic Position and Pipestone 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 01 47.77393	96 09 54.54066	522318.221	165914.430	159202.912	50570.819	504.554			2015	GPS3109	
NAD83 (2007)	44 01 47.77388	96 09 54.54161	522318.152	165914.424	159202.891	50570.818	504.583			2007	GPS2300	
NAD83 (1996)	44 01 47.77386	96 09 54.54098	522318.198	165914.422	159202.905	50570.817	504.621	C		2015	HWLSN	
NAD83 (1986)	44 01 47.77259	96 09 54.52310	522319.504	165914.295	159203.303	50570.778			1	1986	17289	
NAD27	44 01 47.88656	96 09 53.42910							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/pipestone/WILD-PR0794-3W-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WILD-PR0794-3W-09APR2014.jpg</a>	W	Apr 9, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WILD-PR0794-2-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WILD-PR0794-2-09APR2014.jpg</a>		Apr 9, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WILD-PR0794-1-09APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WILD-PR0794-1-09APR2014.jpg</a>		Apr 9, 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\\_23708.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23708.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23708.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23708.pdf)



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

Mn/DOT Name: WILD AZ MK

NGS Name: WILD AZ MK

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO8949](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/1039  
 USGS Quad: HOLLAND

<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	5	106 N	44 W	440117.00	960952.00		

<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=? Vert=YES	NO		PROJECTS 8 IN.	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	NGS

**Description:** **Stamping:** WILD 1966

4.9 MILES SOUTH OF HOLLAND, 6.6 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 AT PIPESTONE, THEN 1.9 MILES NORTH ON 150TH AVENUE, 59.5 FEET WEST OF A POWER POLE NUMBER 30, 35.0 FEET WEST OF THE CENTER OF 150TH AVENUE, 33.0 FEET NORTH OF THE CENTER OF A GRAVEL ROAD, 2.0 FEET EAST OF A FENCE CORNER POST.

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

Geoid Separations(ft): GEOID18 = -85.659 12B = -85.643 09 = -85.544 03 = -85.397

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67326.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67326.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67326.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67326.pdf)



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

Mn/DOT Name: WILD RM 1

NGS Name: WILD RM 1

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO8950](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/1039  
 USGS Quad: HOLLAND

<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	107 N	44 W	440146.85	960954.15		

<u>Year Set</u>	<u>Last Recovery</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=? Vert=YES	NO		PROJECTS 7 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:** **Stamping:** WILD NO 1 1966

4.5 MILES SOUTH OF HOLLAND, 6.6 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 AT PIPESTONE, THEN 2.55 MILES NORTH ON 150TH AVENUE TO A TRACK ROAD AND STATION WILD RM 1 ON THE LEFT, IN A WILDLIFE AREA, 41.0 FEET WEST OF THE CENTER OF A GRAVEL ROAD, 3.1 FEET WEST-NORTHWEST OF A FENCE CORNER POST.

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

Geoid Separations(ft): GEOID18 = -85.643 12B = -85.626 09 = -85.531 03 = -85.387

\* No Horizontal Positions in the Database \*

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

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_67329.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67329.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67329.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67329.pdf)





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

Mn/DOT Name: WILD RM 2

NGS Name: WILD RM 2

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [CO8951](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/1039  
 USGS Quad: HOLLAND

<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	107 N	44 W	440148.47	960955.64		

<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>
1966	1966	GOOD	Horz=? Vert=YES	NO		PROJECTS 5 IN.	SEE DESCRIPTION

  

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

**Description:** **Stamping:** WILD NO 2 1966

4.5 MILES SOUTH OF HOLLAND, 6.6 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 AT PIPESTONE, THEN 2.55 MILES NORTH ON 150TH AVENUE TO A TRACK ROAD AND STATION WILD RM 2 ON THE LEFT, IN A WILDLIFE AREA, 151.0 FEET WEST OF THE CENTER OF A GRAVEL ROAD, 12.5 FEET NORTH OF THE CENTER OF THE TRACK ROAD, 1.0 FOOT SOUTH OF A FENCE LINE.

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

Geoid Separations(ft): GEOID18 = -85.640 12B = -85.623 09 = -85.528 03 = -85.384

\* 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_67332.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67332.pdf)



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

Mn/DOT Name: WINDMILL

NGS Name: WINDMILL

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP4276](#) [Get Map](#)  
 NGS Quad / Sta Num : 44096223/  
 USGS Quad: HOLLAND

<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	107 N	44 W	440559.99	960955.58	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>
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 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2014)                      **Stamping:** WINDMILL 2014

1.0 MILE NORTHEAST OF HOLLAND, 1.3 MILES NORTHEAST ALONG TRUNK HIGHWAY 23 FROM THE JUNCTION OF TRUNK HIGHWAY 23 AND COUNTY ROAD 16 IN HOLLAND, AT TRUNK HIGHWAY 23 MILEPOINT 40.50, 77.9 FEET NORTHWEST OF TRUNK HIGHWAY 23, 48.4 FEET NORTHEAST OF EXTENDED CENTERLINE OF 150TH AVENUE, 14.7 FEET SOUTHWEST OF A FIELD ENTRANCE, 3.6 FEET SOUTHEAST OF A FENCE, 1.5 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	1746.653	0.016	532.381	0.005	2/1	2015	00000851

Geoid Separations(ft): GEOID18 = -85.535    12B = -85.535    09 = -85.439    03 = -85.315

Geodetic Position and Pipestone 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 05 59.99020	96 09 55.58373	522215.816	191456.459	159171.699	58356.046	506.308			2014	GPS3026	
NAD83 (1996)	44 05 59.98996	96 09 55.58386	522215.806	191456.435	159171.696	58356.038	506.384	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/pipestone/WINDMILL-DP4276-3NW-29APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WINDMILL-DP4276-3NW-29APR2014.jpg</a>	NW	Apr 29, 2014
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WINDMILL-DP4276-2-29APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WINDMILL-DP4276-2-29APR2014.jpg</a>		Apr 29, 2014
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WINDMILL-DP4276-1-29APR2014.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WINDMILL-DP4276-1-29APR2014.jpg</a>		Apr 29, 2014

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

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_101316.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101316.pdf)



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

Mn/DOT Name: WOELFEL

NGS Name: WOELFEL

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [DP9049](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096111/  
 USGS Quad: EDGERTON 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	11	106 N	44 W	435937.72	960533.49	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	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 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

**Description:** (2015)                      **Stamping:** WOELFEL 2015

1.2 MILES SOUTHEAST OF WOODSTOCK, 0.64 MILE EAST ALONG TRUNK HIGHWAY 30 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND COUNTY ROAD 18(180TH AVENUE) (THE JUNCTION IS 1.0 MILE SOUTH OF WOODSTOCK), AT TRUNK HIGHWAY 30 MILEPOINT 18.65, 60.0 FEET NORTH OF TRUNK HIGHWAY 30, 20.0 FEET EAST OF A FIELD ENTRANCE, 10.0 FEET SOUTH OF A FENCE LINE, 5.0 FEET SOUTH OF A WITNESS POST.

**Station Pair:** 5904 J - PIPESTONE, 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	1762.516	0.016	537.216	0.005	2/1	2017	00000903

Geoid Separations(ft): GEOID18 = -85.754 12B = -85.735 09 = -85.630 03 = -85.512

Geodetic Position and Pipestone 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)	43 59 37.72178	96 05 33.49036		541416.837	152772.122	165024.182	46565.036	511.076		2015	GPS3109
NAD83 (1996)	43 59 37.72152	96 05 33.49094		541416.795	152772.096	165024.169	46565.028	511.138	C	2015	HWLSN

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/pipestone/WOELFEL-DP9049-3N-13MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WOELFEL-DP9049-3N-13MAY2015.jpg</a>	N	May 13, 2015
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WOELFEL-DP9049-2-13MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WOELFEL-DP9049-2-13MAY2015.jpg</a>		May 13, 2015
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WOELFEL-DP9049-1-13MAY2015.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/WOELFEL-DP9049-1-13MAY2015.jpg</a>		May 13, 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_103470.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103470.pdf)



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

Mn/DOT Name: X 11

NGS Name: X 11

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [PR0070](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	12	106 N	46 W	435957.00	961844.00	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>
1931	2008	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
WALL	BENCH MARK DISK	NGS

**Description:** (1931)                      **Stamping:** 1737.090 X 11 1931

AT PIPESTONE, 2.5 BLOCKS WEST ALONG 2ND STREET FROM THE JUNCTION OF 2ND STREET AND TRUNK HIGHWAY 75 IN PIPESTONE, IN A BRICK WALL OF THE RAILROAD STATION, 26.3 FEET NORTHWEST OF THE NORTHWEST RAIL, 2.6 FEET NORTH OF THE MEN'S WAITING ROOM DOOR, 5.3 FEET ABOVE THE PLATFORM.

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	1737.890	0.007	529.710	0.002	1/2	2004	00000464
NGVD29	1737.090	0.016	529.466	0.005	2/1	1992	VJASP

Geoid Separations(ft): GEOID18 = -85.617 12B = -85.610 09 = -85.508 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\\_23709.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23709.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23709.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23709.pdf)



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

Mn/DOT Name: X 381

NGS Name: X 381

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ1066](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096142/  
 USGS Quad: JASPER 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	33	105 N	45 W	435147.15	961552.59	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>
1990	2021	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE) (DEPTH 30 FT)	METAL ROD	NGS

**Description:** (1996)                      **Stamping:** X 381 1990

9.4 MILES SOUTH OF PIPESTONE, 9.4 MILES SOUTH ALONG TRUNK HIGHWAY 75 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 75 AND TRUNK HIGHWAY 30 IN PIPESTONE, AT TRUNK HIGHWAY 75 MILEPOINT 26.25, 1.6 MILES NORTH OF THE COUNTY LINE, 166.3 FEET EAST OF COUNTY ROAD 58, 121.1 FEET SOUTHWEST OF TRUNK HIGHWAY 75, 116.8 FEET EAST OF A FENCE CORNER, 52.2 FEET WEST OF A FENCE CORNER, 33.5 FEET SOUTH OF 11TH STREET, 2.0 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	1679.757	0.016	511.991	0.005	2/1	2013	00000797
NGVD29	1678.914	0.016	511.734	0.005	2/1	1996	VEDGE

Geoid Separations(ft): GEOID18 = -86.119 12B = -86.092 09 = -85.981 03 = -85.817

Geodetic Position and Pipestone 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)	43 51 47.14712	96 15 52.59000	496146.763	105078.607	151225.836	32028.024	485.740			2014	GPS3047	
NAD83 (1996)	43 51 47.14664	96 15 52.59039	496146.735	105078.559	151225.827	32028.009	485.804	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/pipestone/X_381-OQ1066-3W-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/X_381-OQ1066-3W-04MAY2021.jpg</a>	W	May 4, 2021
Monument:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/X_381-OQ1066-2-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/X_381-OQ1066-2-04MAY2021.jpg</a>		May 4, 2021
Disk:	<a href="https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/X_381-OQ1066-1-04MAY2021.jpg">https://www.olmweb.dot.state.mn.us/geod/StationPhotos/pipestone/X_381-OQ1066-1-04MAY2021.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\\_23710.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23710.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23710.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23710.pdf)



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Y 11

NGS Name: Y 11

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0017](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096141/  
 USGS Quad: PIPESTONE SOUTH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<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	106 N	45 W	435904.00	961553.00	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>
1931	1987	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:** (1987)                      **Stamping:** 1.750.341 Y 11 1931

3.0 MILES EAST ALONG THE RAILROAD FROM THE STATION AT PIPESTONE, 2.1 MILES SOUTHEAST OF PIPESTONE, 2.0 MILES EAST ALONG TRUNK HIGHWAY 30 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 75 IN PIPESTONE, THEN 0.6 MILE SOUTH ON 100TH AVENUE, 66.6 FEET WEST OF THE CENTERLINE OF A NORTH AND SOUTH ROAD, 41.5 FEET WEST OF HIGH TENSION LINE POLE NUMBER 21 WHICH IS ON THE NORTH SIDE OF THE TRACK, 39.6 FEET NORTH OF THE NORTH RAIL, 6.0 FEET SOUTH OF A RIGHT-OF-WAY FENCE, 2.0 FEET BELOW THE LEVEL OF THE TRACK.

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	1751.135	0.007	533.747	0.002	1/2	1991	00000025
NGVD29	1750.341	0.007	533.505	0.002	1	1935	CUTLER-VERT

Geoid Separations(ft): GEOID18 = -85.679 12B = -85.659 09 = -85.564 03 = -85.394

\* No Horizontal Positions in the Database \*

**Caution:** Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID\\_23711.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_23711.pdf)

Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23711.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23711.pdf)



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Z 11

NGS Name: Z 11

County: PIPESTONE, MN (Sheet 1)

NGS ACRN: [OQ0018](#) [Get Map](#)  
 NGS Quad / Sta Num : 43096114/  
 USGS Quad: EDGERTON NORTH

<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	23	106 N	45 W	435808.00	961328.00	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>
1931	1934	GOOD	Horz=? Vert=YES	NO			STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

**Description:** (1931)                      **Stamping:** 1 739.186 Z 11 1931

1.5 MILES NORTHWEST OF HATFIELD, 5.5 MILES NORTHWEST ON A RAILROAD FROM THE RAILROAD STATION AT HATFIELD, 0.8 MILE WEST AND NORTH ON COUNTY ROAD 16 FROM THE JUNCTION OF COUNTY ROAD 16 AND A RAILROAD IN HATFIELD, THEN 1.0 MILE WEST ON COUNTY ROAD 4, THEN 0.2 MILE NORTH ON 120TH AVENUE TO A RAILROAD CROSSING, 43.0 FEET NORTHEAST OF A ROAD CROSSING, 40.9 FEET NORTH OF THE NORTH RAIL OF THE RAILROAD TRACKS, 11.0 FEET NORTHWEST OF FIRST POLE EAST OF A ROAD, 6.8 FEET SOUTH OF A RIGHT-OF-WAY FENCE.

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	1739.974	0.007	530.345	0.002	1/2	1991	00000025
NGVD29	1739.186	0.007	530.105	0.002	1/2	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -85.751 12B = -85.728 09 = -85.630 03 = -85.466

\* 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:

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Download the Complete METRIC Data Sheet: [ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M\\_GSID\\_23712.pdf](ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_23712.pdf)