

Attachment 6
Revised Photo-Based Alignment Sheets

*WBI ENERGY TRANSMISSION, INC
WAHPETON EXPANSION
PROJECT*



*WAHPETON
EXPANSION PROJECT*

<i>Horizontal Project Length</i>	<i>Revision</i>
<i>317,634' / 60.16 mi</i>	<i>R2</i>
<i>Drawing Date</i>	<i>01/19/22</i>

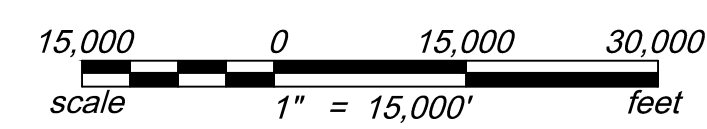
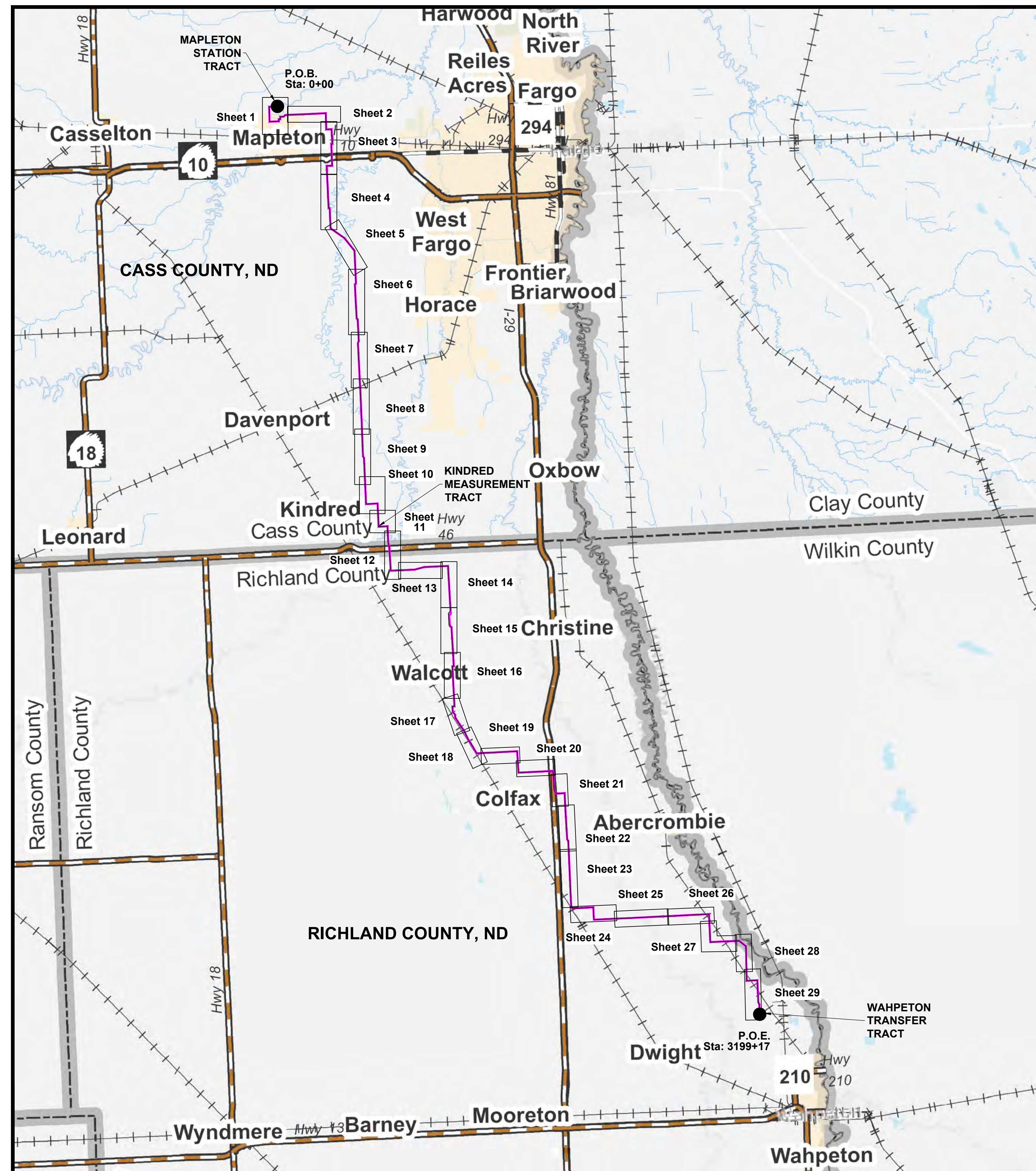


HARNED SURVEYING & ENGINEERING, INC.
11815 ROBINDALE ROAD
LOUISVILLE, KY 40243
OFFICE (502) 254-3921
FAX (502) 254-6093

WAHPETON EXPANSION PROJECT

Cass County, North Dakota
Richland County, North Dakota

Sheet Index	
Sheet 1	Sta 1+00 - 120+00
Sheet 2	Sta 120+00 - 220+00
Sheet 3	Sta 220+00 - 360+00
Sheet 4	Sta 360+00 - 500+00
Sheet 5	Sta 500+00 - 630+00
Sheet 6	Sta 630+00 - 760+00
Sheet 7	Sta 760+00 - 870+00
Sheet 8	Sta 870+00 - 980+00
Sheet 9	Sta 980+00 - 1090+00
Sheet 10	Sta 1090+00 - 1200+00
Sheet 11	Sta 1200+00 - 1270+00
Sheet 12	Sta 1270+00 - 1370+00
Sheet 13	Sta 1370+00 - 1470+00
Sheet 14	Sta 1470+00 - 1580+00
Sheet 15	Sta 1580+00 - 1700+00
Sheet 16	Sta 1700+00 - 1800+00
Sheet 17	Sta 1800+00 - 1880+00
Sheet 18	Sta 1880+00 - 1970+00
Sheet 19	Sta 1970+00 - 2060+00
Sheet 20	Sta 2060+00 - 2170+00
Sheet 21	Sta 2170+00 - 2270+00
Sheet 22	Sta 2270+00 - 2380+00
Sheet 23	Sta 2380+00 - 2500+00
Sheet 24	Sta 2500+00 - 2640+00
Sheet 25	Sta 2640+00 - 2750+00
Sheet 26	Sta 2750+00 - 2860+00
Sheet 27	Sta 2860+00 - 2970+00
Sheet 28	Sta 2970+00 - 3060+00
Sheet 29	Sta 3060+00 - 3199+17



LEGEND	
	Proposed Pipeline Corridor



WAHPETON EXPANSION PROJECT

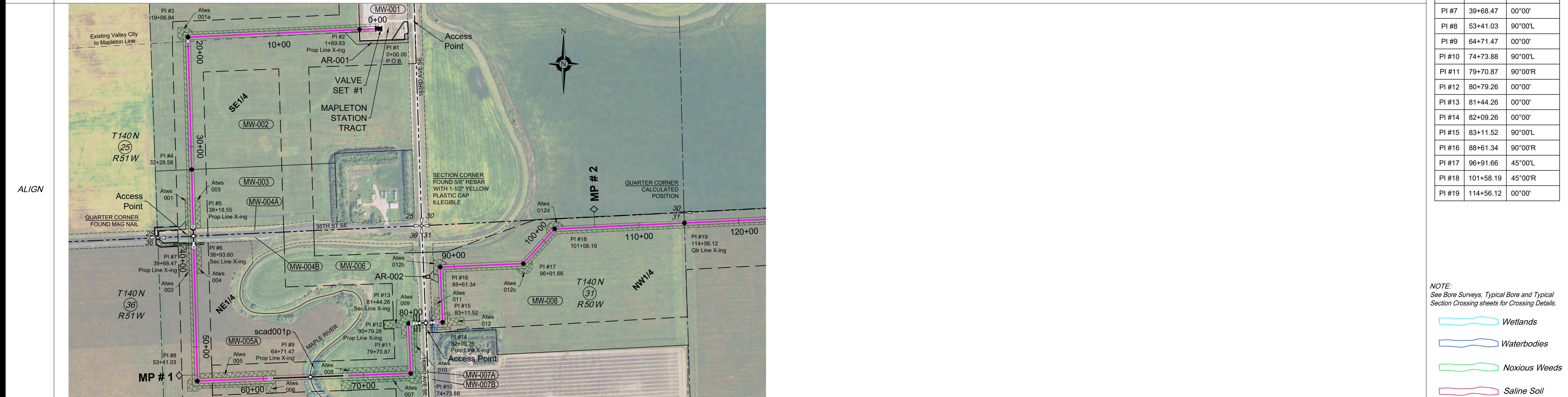
HSE INC.
HARNED SURVEYING & ENGINEERING, INC.
11815 ROBINDALE ROAD
LOUISVILLE, KY 40243
OFFICE (502) 254-3921
FAX (502) 254-6093

Date Surveyed:	JULY 2021	HSE Project #	19-21
Surveyed By:	AL		
Drawing Date:	7/12/21		
Drawn By:	D. Smith		
Checked By:	J. Hamed	Coversheet	
Revision No.:	R2		
Revision Date:	8-24-22		



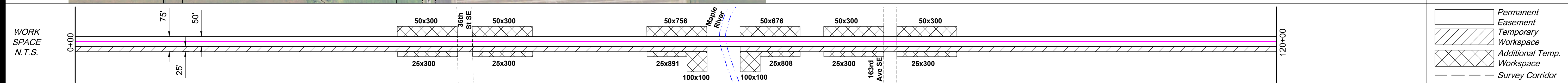
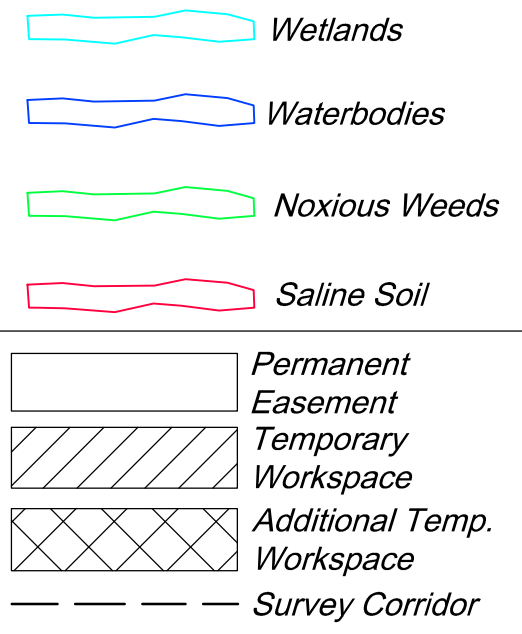
Know what's below
Call before you dig.
MT - 1-800-424-5555
ND - 1-800-795-0555

OWNER	MW-001	MW-002	MW-003	MW-004A&B	MW-005A	MW006	MW-007A&B	MW-008
LOT 1, BLOCK 1, MINOR SUB SEC. 25, T140N, R51W 190' Uncultivated	PART OF N1/2 OF SE1/4 & N1/2 OF S1/2 OF SE1/4 LESS R/W, SEC. 25, T140N, R51W 3039' Cultivated	PART OF S1/2 OF S1/2 OF SE1/4 LESS R/W, SEC. 25, T140N, R51W 590' Cultivated	SEC. 25, 36, T140N, R51W 150' Uncultivated	GOVT LOT 1 OF NE 1/4 LESS R/W SEC. 36, T140N, R51W 2382' Cultivated - 121' Uncultivated	GOVT LOT 2 OF NE 1/4 LESS R/W SEC. 36, T140N, R51W 1491' Cultivated - 116' Uncultivated	SEC. 36, T140N, R51W SEC. 31, T140N, R50W 130' Uncultivated	N1/2 OF NW1/4 WITH EXCEPTIONS LESS R/W, SEC. 31, T140N, R50W 3219' Cultivated - 28' Uncultivated	
RODDAGE	189.83' / 11.50 Rods	3038.74' / 184.17 Rods	589.98' / 35.76 Rods	149.92' / 9.09 Rods	2502.99' / 151.70 Rods	1607.78' / 97.44 Rods	130.00' / 7.87 Rods	3246.85' / 196.78 Rods



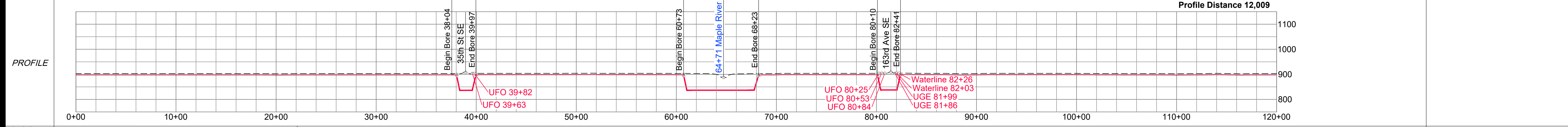
PI #	STATION	DEFLECTION
PI #1	0+00.00	00°00'
PI #2	1+89.83	00°00'
PI #3	19+06.84	89°00'L
PI #4	32+28.58	00°00'
PI #5	38+18.55	00°00'
PI #6	38+93.60	00°00'
PI #7	39+68.47	00°00'
PI #8	53+41.03	90°00'L
PI #9	64+71.47	00°00'
PI #10	74+73.88	90°00'L
PI #11	79+70.87	90°00'R
PI #12	80+79.26	00°00'
PI #13	81+44.26	00°00'
PI #14	82+09.26	00°00'
PI #15	83+11.52	90°00'L
PI #16	88+61.34	90°00'R
PI #17	96+91.66	45°00'L
PI #18	101+58.19	45°00'R
PI #19	114+56.12	00°00'

NOTE: See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.



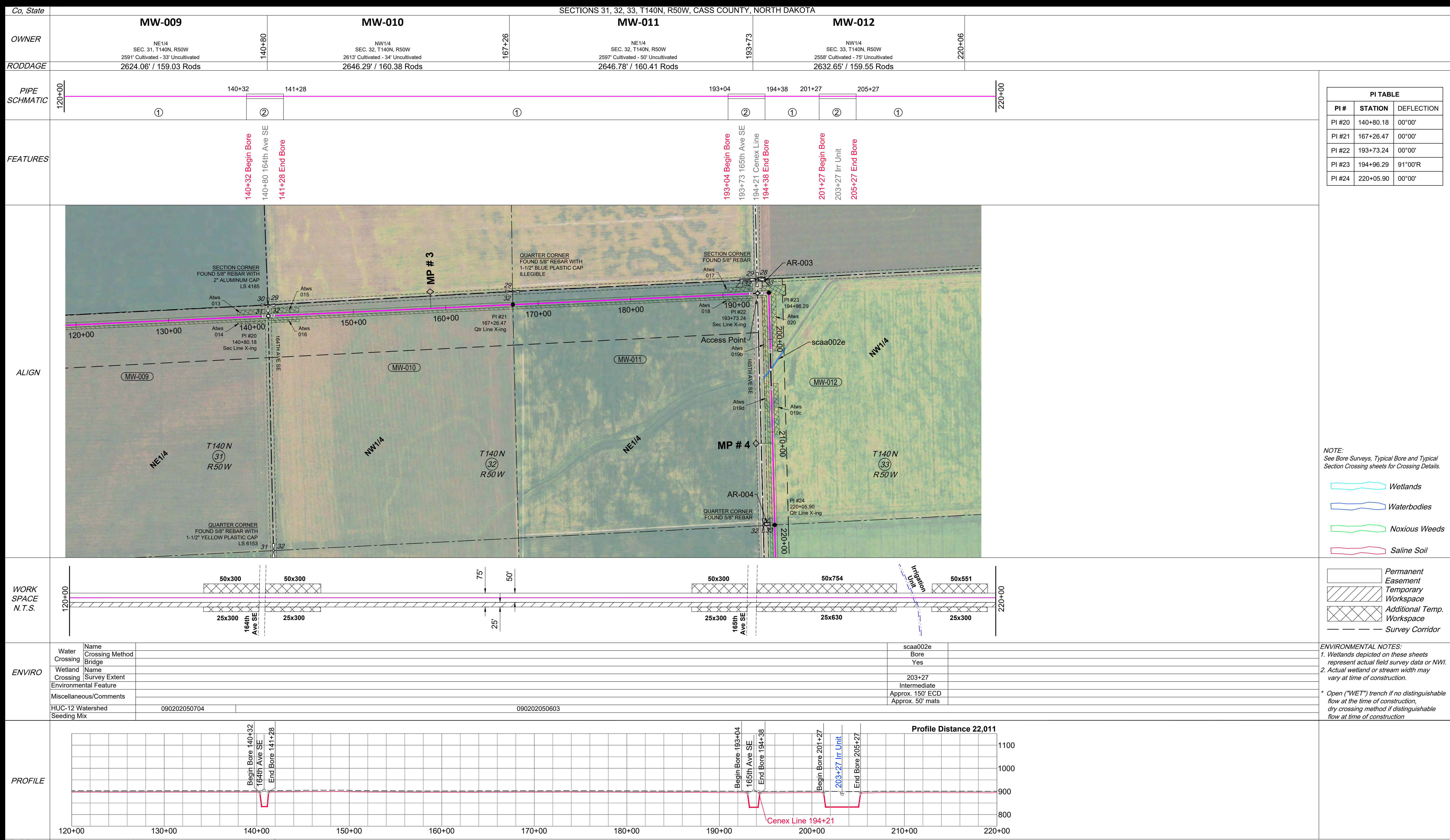
ENVIRO	Name	scad001p
	Crossing Method	Bore
Wetland	Name	
	Crossing Survey Extent	64+71 Intermediate
Environmental Feature	Miscellaneous/Comments	Approx. 150' ECD Approx. 100' mats
	HUC-12 Watershed	090202050704
Seeding Mix		

ENVIRONMENTAL NOTES:
 1. Wetlands depicted on these sheets represent actual field survey data or NWI.
 2. Actual wetland or stream width may vary at time of construction.
 * Open ("WET") trench if no distinguishable flow at the time of construction, dry crossing method if distinguishable flow at time of construction



Ref. Dwgs. Aerial Image: NAIP 2021

 HARNED SURVEYING & ENGINEERING, INC. 11815 ROBINDALE ROAD LOUISVILLE, KY 40243 OFFICE (502) 254-3921 FAX (502) 254-6093 HSE Project # 19-21	SURVEY DATUM North Dakota North (NAD 83)(2011) International Foot *Distances are Grid Distances. Combined Scale Factor = 0.99989766 Grid Dist. x 1.00010235 = Ground Dist.	LEGEND: [Symbol] Proposed Block Valve [Symbol] Proposed Bore [Symbol] Alignment PI [Symbol] Utility Pole [Symbol] Well [Symbol] Valve [Symbol] Alignment [Symbol] Section Line [Symbol] Quarter Line [Symbol] Fence Line [Symbol] UG Fiber Optic [Symbol] UG Electric [Symbol] Overhead Elec [Symbol] Existing Pipeline [Symbol] Dirt Road	SUMMARY of MATERIALS <table border="1"> <thead> <tr> <th>Mark</th> <th>Quantity</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10,636</td> <td>12.75" OD, .250" WT, X65, FBE, TRL</td> </tr> <tr> <td>2</td> <td>1174</td> <td>12.75" OD, .312" WT, X65, FBE w/ARO, TRL</td> </tr> <tr> <td>3</td> <td>190</td> <td>12.75" OD, .375" WT, X65, FBE, TRL</td> </tr> </tbody> </table>	Mark	Quantity	Description	1	10,636	12.75" OD, .250" WT, X65, FBE, TRL	2	1174	12.75" OD, .312" WT, X65, FBE w/ARO, TRL	3	190	12.75" OD, .375" WT, X65, FBE, TRL	REVISIONS <table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Date	Description				WAHPETON EXPANSION PROJECT 1" = 500' HORIZ. 1" = 200' VERT.	 1" = 500' - 22 x 34 1" = 1000' - 11 x 17	 An MDU Resources Group company Sec. 25, 36, T140N, R51W, Sec. 31, T140N, R50W, 5th P.M., Cass Co., North Dakota Sheet 1 R2
	Mark	Quantity	Description																						
1	10,636	12.75" OD, .250" WT, X65, FBE, TRL																							
2	1174	12.75" OD, .312" WT, X65, FBE w/ARO, TRL																							
3	190	12.75" OD, .375" WT, X65, FBE, TRL																							
No.	Date	Description																							



PI TABLE		
PI #	STATION	DEFLECTION
PI #20	140+80.18	00°00'
PI #21	167+26.47	00°00'
PI #22	193+73.24	00°00'
PI #23	194+96.29	91°00'R
PI #24	220+05.90	00°00'

NOTE:
See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.

- Wetlands
- Waterbodies
- Noxious Weeds
- Saline Soil

- Permanent Easement
- Temporary Workspace
- Additional Temp. Workspace
- Survey Corridor

ENVIRONMENTAL NOTES:
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LOUISVILLE, KY 40243
OFFICE (502) 254-3921
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HSE Project # 19-21

SURVEY DATUM
North Dakota North (NAD 83)(2011)
International Foot
*Distances are Grid Distances.
Combined Scale Factor = 0.99989766
Grid Dist. x 1.00010235 = Ground Dist.

Drawing Date: 01-19-2022
Drawn By: D. Smith
Checked by: J. Harned

LEGEND:

- Proposed Block Valve
- Proposed Bore
- Alignment PI
- Utility Pole
- Well
- Valve
- Alignment
- Section Line
- Quarter Line
- Fence Line
- UG Fiber Optic
- UG Electric
- Overhead Elec
- Existing Pipeline
- Dirt Road

SUMMARY of MATERIALS

Mark	Quantity	Description
1	9,370	12.75" OD, .250" WT, X65, FBE, TRL
2	630	12.75" OD, .312" WT, X65, FBE w/ARO, TRL

REVISIONS

No.	Date	Description

WAHPETON EXPANSION PROJECT

scale
1" = 500' HORIZ.
1" = 200' VERT.

WBI ENERGY TRANSMISSION
An MDU Resources Group company

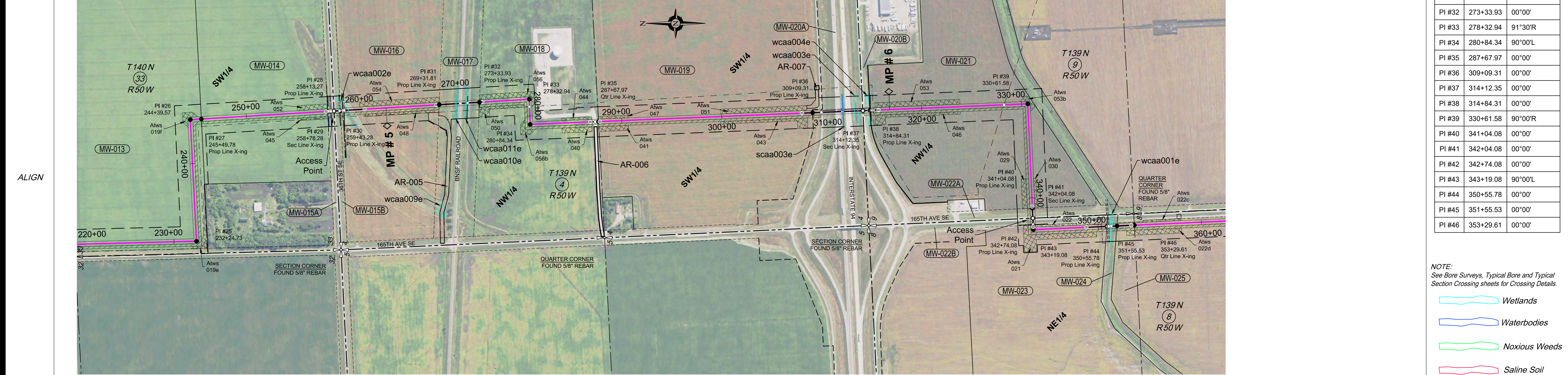
Sec. 31, 32, 33, T140N, R50W,
5th P.M., CASS Co., North Dakota

Sheet 2 R2

Co, State	SECTION 33, T140N, R50W, SECTIONS 4, 8, 9, T139N, R50W, CASS COUNTY, NORTH DAKOTA												
OWNER	MW-013	MW-014	MW-015A&B	MW-016	MW-017	MW-018	MW-019	MW-020A&B	MW-021	MW-022	MW-023	MW-024	MW-025
RODDAGE	2543.88' / 154.17 Rods	1263.49' / 76.58 Rods	130.00' / 7.88 Rods	988.53' / 59.91 Rods	402.11' / 24.37 Rods	1434.04' / 86.91 Rods	2141.34' / 129.78 Rods	575.13' / 34.86 Rods	2619.77' / 158.77 Rods	170.00' / 10.30 Rods	781.70' / 47.38 Rods	99.75' / 6.05 Rods	174.08' / 10.55 Rods

PIPE SCHMATIC													
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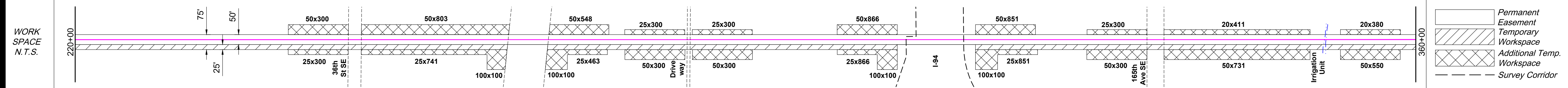
FEATURES	<p>257+98, 261+87, 269+02, 273+63, 286+86, 287+82, 308+04, 315+17, 340+89, 342+89, 348+50, 353+00, 360+00</p> <p>257+98 Begin Bore, 258+16 OHE, 258+22 Waterline, 258+25 Nustar Line, 258+46 UFO, 258+78 36th St SE, 259+35 UFO, 259+66 UFO, 259+80 UFO, 261+87 End Bore, 269+02 Begin Bore, 271+43 BNSF RR, 272+15 UFO, 273+63 End Bore, 279+08 Cenex Line, 286+86 Begin Bore, 287+34 Driveway, 287+82 End Bore, 308+04 Begin Bore, 309+98 Access Rd, 312+09 Interstate 94, 314+12 Access Rd, 314+90 UGE, 315+17 Cenex Line, 315+70 End Bore, 328+25 Cenex Line, 340+89 Begin Bore, 342+04 165th Ave SE, 342+68 UFO, 342+89 End Bore, 348+50 Begin Bore, 350+57 Culvert 14, 350+72 Culvert 14, 350+99 Ex Dm 14, 353+00 End Bore</p>												
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PI TABLE		
PI #	STATION	DEFLECTION
PI #25	232+24.73	91°30'L
PI #26	244+39.57	89°30'R
PI #27	245+49.78	00°00'
PI #28	258+13.27	00°00'
PI #29	258+78.28	00°00'
PI #30	259+43.28	00°00'
PI #31	269+31.81	00°00'
PI #32	273+33.93	00°00'
PI #33	278+32.94	91°30'R
PI #34	280+84.34	90°00'L
PI #35	287+67.97	00°00'
PI #36	309+09.31	00°00'
PI #37	314+12.35	00°00'
PI #38	314+84.31	00°00'
PI #39	330+61.58	90°00'R
PI #40	341+04.08	00°00'
PI #41	342+04.08	00°00'
PI #42	342+74.08	00°00'
PI #43	343+19.08	90°00'L
PI #44	350+55.78	00°00'
PI #45	351+55.53	00°00'
PI #46	353+29.61	00°00'

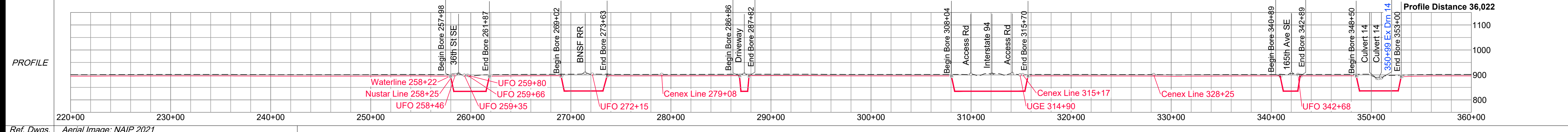
NOTE:
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- Wetlands
- Waterbodies
- Noxious Weeds
- Saline Soil



ENVIRO	Name	wcaa002e, wcaa009e, wcaa010e, wcaa011e, wcaa003e, wcaa004e, wcaa001e											
	Wetland Name	Wetland, Wetland, Wetland, Wetland, Wetland, Wetland, Wetland, Wetland, Wetland, Wetland, Wetland, Wetland, Wetland											
Miscellaneous/Comments	Approx. 175' ECD	Approx. 100' mats, Approx. 100' mats, Approx. 200' mats, Approx. 50' mats, Approx. 50' mats, Approx. 50' mats, Approx. 50' mats, Approx. 50' mats, Approx. 50' mats, Approx. 50' mats, Approx. 50' mats, Approx. 50' mats											
	HUC-12 Watershed	090202050603											

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	Mark	Quantity	Description																					
1	11,639	12.75" OD, .250" WT, X65, FBE, TRL																						
2	1595	12.75" OD, .312" WT, X65, FBE w/ARO, TRL																						
3	766	12.75" OD, .500" WT, X65, FBE w/ARO, TRL (I-94)																						
No.	Date	Description																						

Co, State	SECTIONS 28, 33, 34, T139N, R50W, SECTIONS 3, T138N, R50W, CASS COUNTY, NORTH DAKOTA										
OWNER	MW-035 NW1/4 LESS PARCELS SEC. 28, T139N, R50W 3220' Cultivated - 33' Uncultivated	MW-036 NE1/4 SEC. 28, T139N, R50W 878' Cultivated - 58' Uncultivated	MW-037 SE1/4 SEC. 28, T139N, R50W 3191' Cultivated - 71' Uncultivated	MW-038 NE1/4 SEC. 33, T139N, R50W 70' Uncultivated	MW-038A NW1/4 SEC. 34, T139N, R50W 2594' Cultivated - 33' Uncultivated	MW-038B SW1/4 SEC. 34, T139N, R50W 2613' Cultivated - 33' Uncultivated	MW-041 NW1/4 SEC. 3, T138N, R50W 2440' Cultivated - 98' Uncultivated				
RODDAGE	520+78	530+13	562+75	563+45	589+72	616+18				630+00	
PIPE SCHMATIC	500+00 ————— 630+00										

FEATURES	<p>527+91 Begin Bore</p> <p>529+32 Drain</p> <p>531+13 End Bore</p> <p>562+01 Begin Bore</p> <p>562+23 UGT</p> <p>562+75 41st St SE</p> <p>563+14 Strm Pipe</p> <p>563+23 Strm Pipe</p> <p>563+36 Strm Pipe</p> <p>563+45 166th Ave SE</p> <p>564+27 End Bore</p> <p>615+70 Begin Bore</p> <p>616+18 42nd St SE</p> <p>616+66 End Bore</p>									
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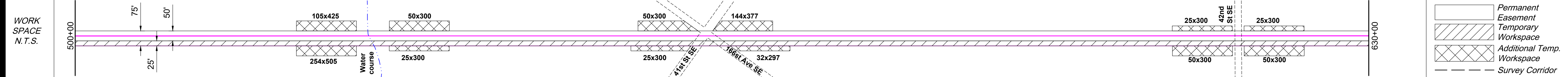
PI TABLE		
PI #	STATION	DEFLECTION
PI #60	520+77.68	00°00'
PI #61	527+91	16°30'R
PI #62	530+13.23	00°00'
PI #63	562+74.98	00°00'
PI #64	563+44.91	00°00'
PI #65	565+41.59	36°00'R
PI #66	589+71.80	00°00'
PI #67	616+18.09	00°00'



NOTE:
See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.

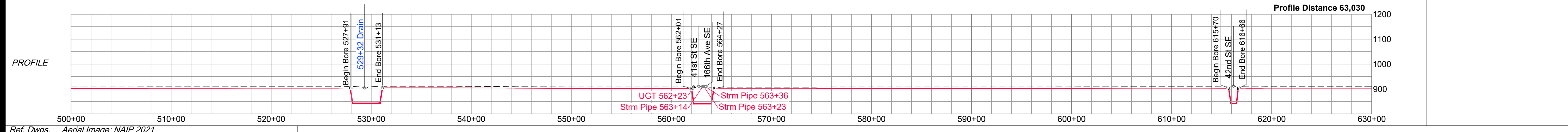
- Wetlands
- Waterbodies
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- Permanent Easement
- Temporary Workspace
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- Survey Corridor



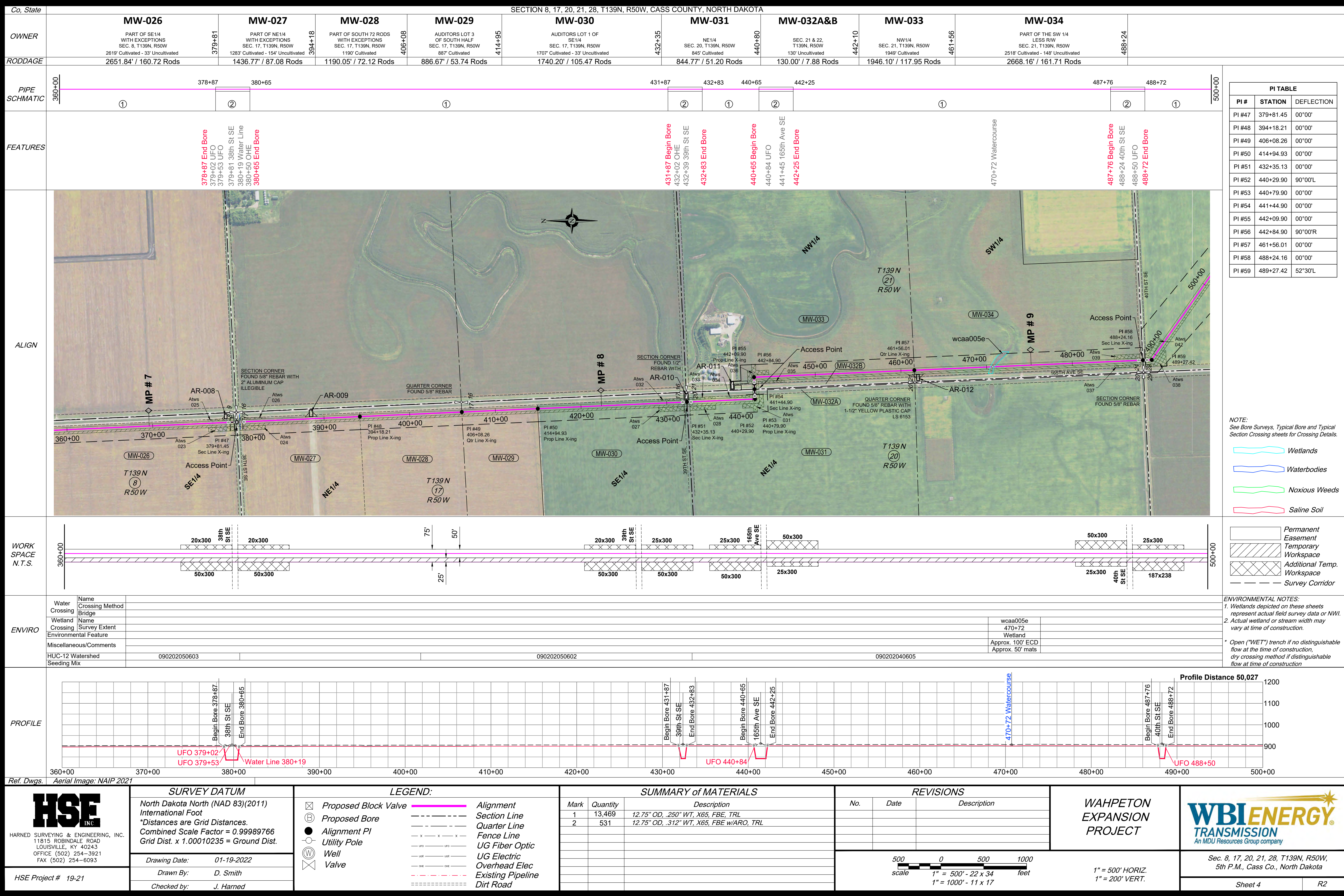
ENVIRO	Water Crossing	Name	Crossing Method	Wetland Name			Bore	Environmental Feature	Miscellaneous/Comments	HUC-12 Watershed	Seeding Mix
				DSK WL_04	wcaa006e	wcaa007e					
				DSK WL_04	wcaa006e	wcaa007e	scab001e	Minor		090202040605	
				Wetland	Wetland	Wetland					
				Approx. 150' ECD							
				Approx. 100' mats							

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Ref. Dwgs. Aerial Image: NAIP 2021

<p>HSE INC HARNED SURVEYING & ENGINEERING, INC. 11815 ROBINDALE ROAD LOUISVILLE, KY 40243 OFFICE (502) 254-3921 FAX (502) 254-6093</p> <p>HSE Project # 19-21</p>	<p>SURVEY DATUM North Dakota North (NAD 83)(2011) International Foot *Distances are Grid Distances. Combined Scale Factor = 0.99989766 Grid Dist. x 1.00010235 = Ground Dist.</p> <p>Drawing Date: 01-19-2022 Drawn By: D. Smith Checked by: J. Harned</p>	<p>LEGEND:</p> <ul style="list-style-type: none"> Proposed Block Valve Proposed Bore Alignment PI Utility Pole Well Valve 	<p>SUMMARY of MATERIALS</p> <table border="1"> <thead> <tr> <th>Mark</th> <th>Quantity</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>12,356</td> <td>12.75" OD, .250" WT, X65, FBE, TRL</td> </tr> <tr> <td>2</td> <td>644</td> <td>12.75" OD, .312" WT, X65, FBE w/ARO, TRL</td> </tr> </tbody> </table>	Mark	Quantity	Description	1	12,356	12.75" OD, .250" WT, X65, FBE, TRL	2	644	12.75" OD, .312" WT, X65, FBE w/ARO, TRL	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	No.	Date	Description				<p>WHAHPETON EXPANSION PROJECT</p> <p>1" = 500' HORIZ. 1" = 200' VERT.</p>	<p>WBI ENERGY TRANSMISSION An MDU Resources Group company</p> <p>Sec. 28, 33, T139N, R50W, Sec. 3, 4, T138N, R50W, 5th P.M., Cass Co., North Dakota</p> <p>Sheet 5 R2</p>
	Mark	Quantity	Description																		
1	12,356	12.75" OD, .250" WT, X65, FBE, TRL																			
2	644	12.75" OD, .312" WT, X65, FBE w/ARO, TRL																			
No.	Date	Description																			



PI TABLE		
PI #	STATION	DEFLECTION
PI #47	379+81.45	00°00'
PI #48	394+18.21	00°00'
PI #49	406+08.26	00°00'
PI #50	414+94.93	00°00'
PI #51	432+35.13	00°00'
PI #52	440+29.90	90°00'L
PI #53	440+79.90	00°00'
PI #54	441+44.90	00°00'
PI #55	442+09.90	00°00'
PI #56	442+84.90	90°00'R
PI #57	461+56.01	00°00'
PI #58	488+24.16	00°00'
PI #59	489+27.42	52°30'L

NOTE:
See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.

- Wetlands
- Waterbodies
- Noxious Weeds
- Saline Soil

- Permanent Easement
- Temporary Workspace
- Additional Temp. Workspace
- Survey Corridor

ENVIRONMENTAL NOTES:

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HSE INC.
HARNED SURVEYING & ENGINEERING, INC.
11815 ROBINDALE ROAD
LOUISVILLE, KY 40243
OFFICE (502) 254-3921
FAX (502) 254-6093

HSE Project # 19-21

SURVEY DATUM
North Dakota North (NAD 83)(2011)
International Foot
*Distances are Grid Distances.
Combined Scale Factor = 0.99989766
Grid Dist. x 1.00010235 = Ground Dist.

Drawing Date: 01-19-2022
Drawn By: D. Smith
Checked by: J. Harned

LEGEND:

- Proposed Block Valve
- Proposed Bore
- Alignment PI
- Utility Pole
- Well
- Valve
- Alignment
- Section Line
- Quarter Line
- Fence Line
- UG Fiber Optic
- UG Electric
- Overhead Elec
- Existing Pipeline
- Dirt Road

SUMMARY of MATERIALS

Mark	Quantity	Description
1	13,469	12.75" OD, .250" WT, X65, FBE, TRL
2	531	12.75" OD, .312" WT, X65, FBE w/ARO, TRL

REVISIONS

No.	Date	Description

500 0 500 1000
scale 1" = 500' - 22 x 34 feet
1" = 1000' - 11 x 17

WAHPETON EXPANSION PROJECT

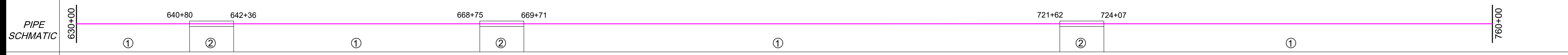
1" = 500' HORIZ.
1" = 200' VERT.

WBI ENERGY TRANSMISSION
An MDU Resources Group company

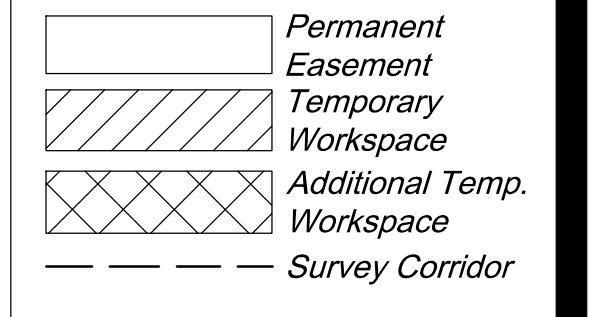
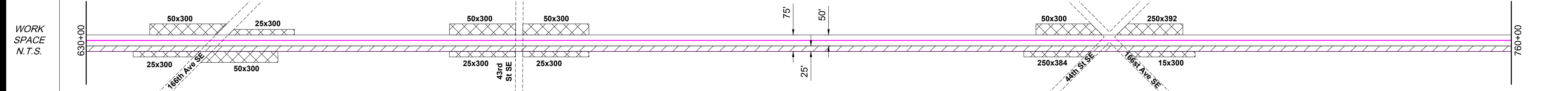
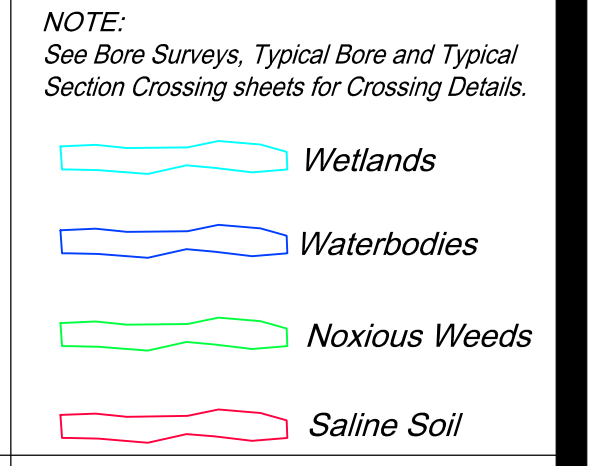
Sec. 8, 17, 20, 21, 28, T139N, R50W,
5th P.M., Cass Co., North Dakota

Sheet 4 R2

Co, State	SECTIONS 4, 9, 15, 16, T138N, R50W, CASS COUNTY, NORTH DAKOTA									
OWNER	MW-042	MW-043	MW-044	MW-045	MW-046	MW-047	MW-048	MW-049		
RODDAGE	65.79' / 3.99 Rods	1370.26' / 83.05 Rods	1329.25' / 80.56 Rods	2647.65' / 160.46 Rods	2677.45' / 162.27 Rods	60.17' / 3.65 Rods	2655.98' / 160.97 Rods	2665.36' / 161.54 Rods		

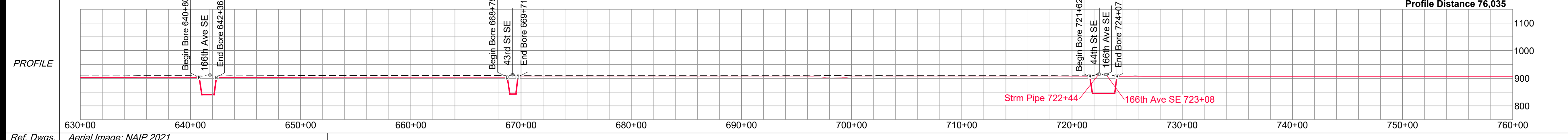


PI TABLE		
PI #	STATION	DEFLECTION
PI #68	639+95.25	45°00'R
PI #69	641+57.86	00°00'
PI #70	642+23.66	00°00'
PI #71	643+65.93	45°00'L
PI #72	655+93.92	00°00'
PI #73	669+23.17	00°00'
PI #74	695+70.82	00°30'
PI #75	721+45.74	45°00'L
PI #76	722+48.28	00°00'
PI #77	723+08.45	00°00'
PI #78	724+71.56	45°00'R
PI #79	749+64.43	1°30'L



Water Crossing	Name	Crossing Method	Bridge	Wetland Name	Survey Extent	Environmental Feature	Miscellaneous/Comments
	wcab001e				721+17	Wetland	Approx. 50' ECD Approx. 40' mats
	wcab002e				722+63	Wetland	749+69
	wcab003e				723+32	Wetland	776+21

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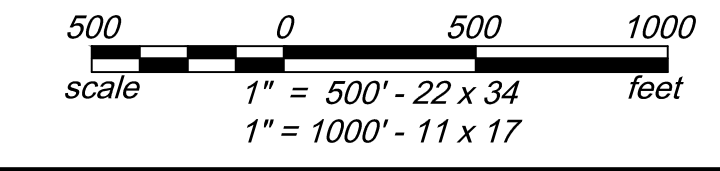
Ref. Dwgs. Aerial Image: NAIP 2021

SURVEY DATUM	
North Dakota North (NAD 83)(2011) International Foot *Distances are Grid Distances. Combined Scale Factor = 0.99989766 Grid Dist. x 1.00010235 = Ground Dist.	
Drawing Date:	01-19-2022
Drawn By:	D. Smith
Checked by:	J. Harned

LEGEND:	
⊗	Proposed Block Valve
⊕	Proposed Bore
●	Alignment PI
○	Utility Pole
⊙	Well
⊗	Valve
—	Alignment
- - -	Section Line
- · - · -	Quarter Line
- x - x - x -	Fence Line
- · - · - · - · -	UG Fiber Optic
- · - · - · - · -	UG Electric
- · - · - · - · -	Overhead Elec
- · - · - · - · -	Existing Pipeline
- · - · - · - · -	Dirt Road

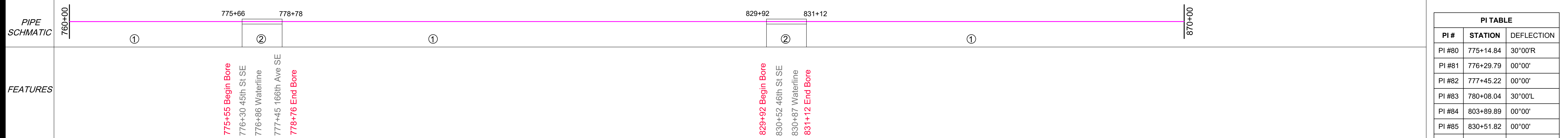
SUMMARY of MATERIALS		
Mark	Quantity	Description
1	12,503	12.75" OD, .250" WT, X65, FBE, TRL
2	497	12.75" OD, .312" WT, X65, FBE w/ARO, TRL

REVISIONS		
No.	Date	Description

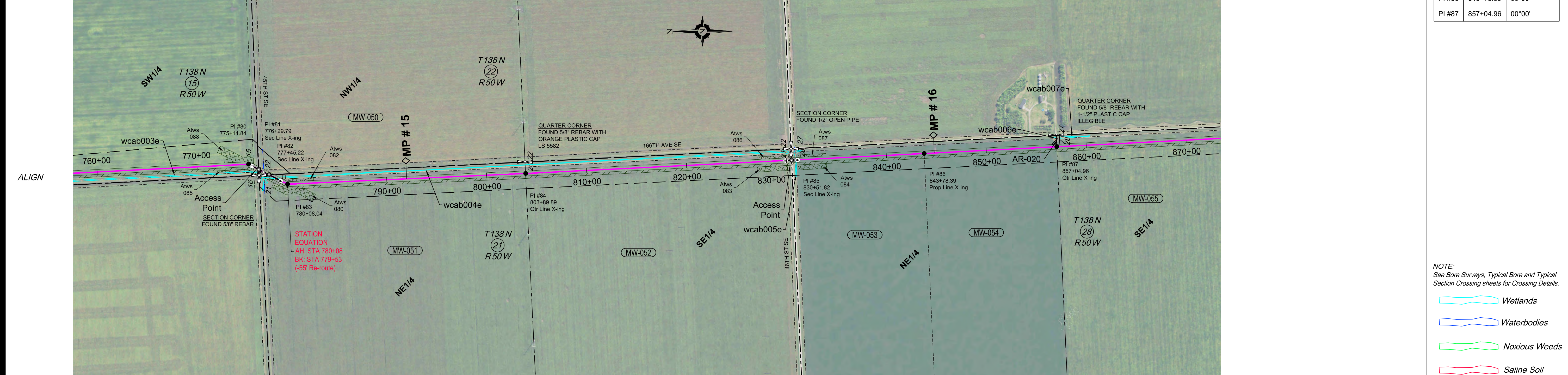


WAHPETON EXPANSION PROJECT
 1" = 500' HORIZ.
 1" = 200' VERT.

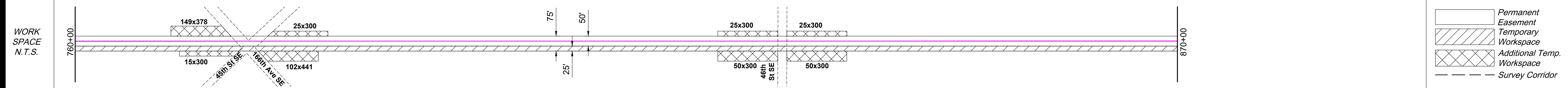
Co, State	SECTIONS 15, 21, 22, 28, T138N, R50W, CASS COUNTY, NORTH DAKOTA											
OWNER	MW-050		MW-051		MW-052		MW-053		MW-054		MW-055	
RODDAGE	115.43' / 7.00 Rods		2589.13' / 156.92 Rods		2661.93' / 161.33 Rods		1326.57' / 80.40 Rods		1326.57' / 80.40 Rods		2349.51' / 142.39 Rods	



PI #	STATION	DEFLECTION
PI #80	775+14.84	30°00'R
PI #81	776+29.79	00°00'
PI #82	777+45.22	00°00'
PI #83	780+08.04	30°00'L
PI #84	803+89.89	00°00'
PI #85	830+51.82	00°00'
PI #86	843+78.39	00°00'
PI #87	857+04.96	00°00'



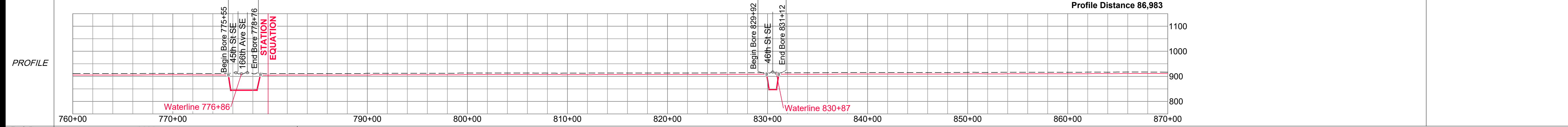
- NOTE:
See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.
- Wetlands
 - Waterbodies
 - Noxious Weeds
 - Saline Soil



- Permanent Easement
- Temporary Workspace
- Additional Temp. Workspace
- Survey Corridor

ENVIRO	Water Crossing	Name	Crossing Method	Wetland Name	Survey Extent	Environmental Feature	Miscellaneous/Comments	HUC-12 Watershed	Seeding Mix
		wcab003e	Bridge	wcab004e	723+32 - 776+21	Wetland	Approx. 50' ECD Approx. 40' mats		
		wcab005e	Bridge	wcab006e	776+93 - 830+28	Wetland	Approx. 50' ECD Approx. 40' mats	090202040605	
		wcab007e	Bridge	wcab008e	830+80 - 831+65	Wetland	Approx. 100' ECD Approx. 40' mats		
		wcab009e	Bridge	wcab010e	856+90 - 857+47	Wetland	Approx. 50' ECD Approx. 40' mats		
		wcab011e	Bridge	wcab012e	860+46 - 860+46	Wetland	Approx. 50' ECD		

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Ref. Dwgs. Aerial Image: NAIP 2021

SURVEY DATUM
North Dakota North (NAD 83)(2011)
International Foot
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Combined Scale Factor = 0.99999766
Grid Dist. x 1.00010235 = Ground Dist.

Drawing Date: 01-19-2022
Drawn By: D. Smith
Checked by: J. Harned

LEGEND:

- Proposed Block Valve
- Proposed Bore
- Alignment PI
- Utility Pole
- Well
- Valve
- Alignment
- Section Line
- Quarter Line
- Fence Line
- UG Fiber Optic
- UG Electric
- Overhead Elec
- Existing Pipeline
- Dirt Road

Mark	Quantity	Description
1	10,559	12.75" OD, .250" WT, X65, FBE, TRL
2	441	12.75" OD, .312" WT, X65, FBE w/ARO, TRL

No.	Date	Description

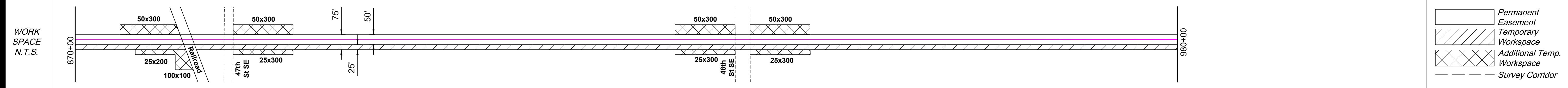
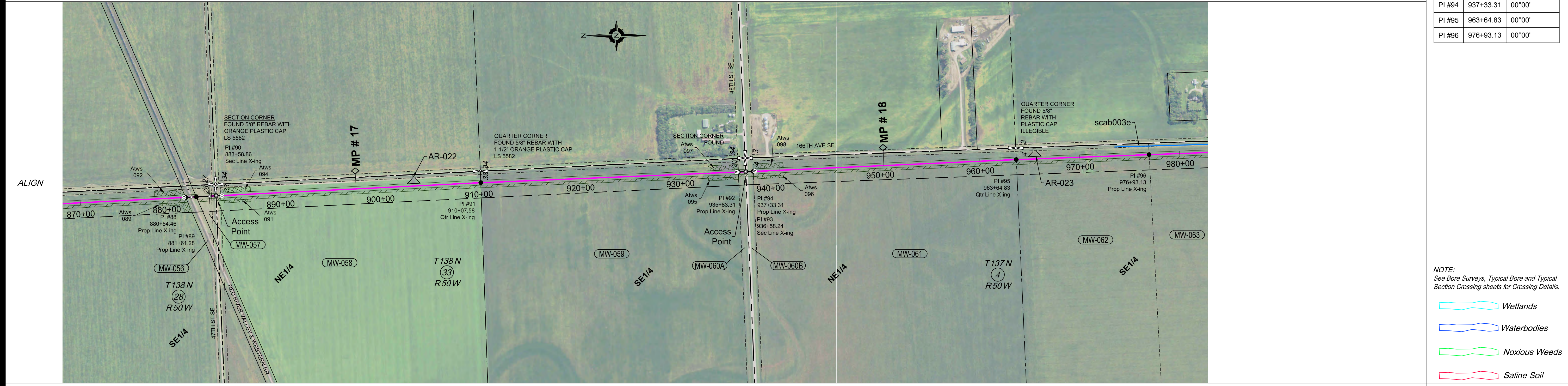
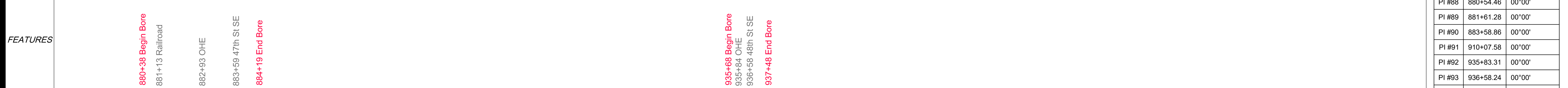
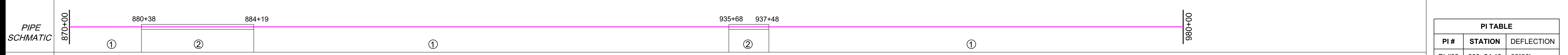
WAHPETON EXPANSION PROJECT

1" = 500' HORIZ.
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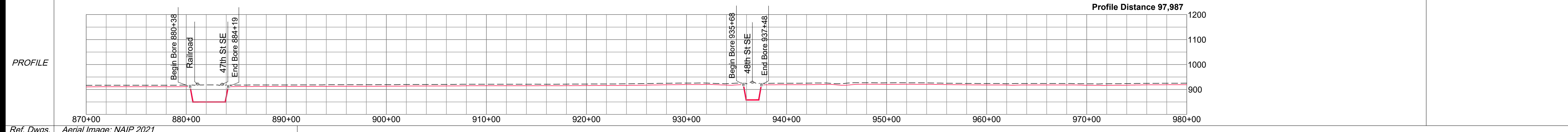
Sec. 15, 21, 22, 28, T138N, R50W,
5th P.M., Cass Co., North Dakota

Sheet 7 R2

OWNER	MW-056	MW-057	MW-058	MW-059	MW-060A&B	MW-061	MW-062	MW-063
880+54	881+61	883+59	910+08	935+83	937+33	963+65	976+93	980+00
SEC. 28, T138N, R50W 107' Uncultivated	SE1/4 LESS RW SEC. 3, T138N, R50W 198' Uncultivated	NE1/4 SEC. 33, T138N, R50W 2245' Cultivated - 304' Uncultivated	SE1/4 SEC. 33, T138N, R50W 2230' Cultivated - 346' Uncultivated	SEC. 33, T138N, R50W 150' Uncultivated	NE1/4 LESS RW SEC. 4, T137N, R50W 2378' Cultivated - 254' Uncultivated	N1/2 OF THE NE1/4 LESS RW SEC. 4, T137N, R50W 1065' Cultivated - 263' Uncultivated	S1/2 OF THE SE1/4 SEC. 4, T137N, R50W 1031' Cultivated - 263' Uncultivated	
RODDAGE	106.82' / 6.47 Rods	197.58' / 11.97 Rods	2548.72' / 160.538 Rods	2575.73' / 156.10 Rods	150.00' / 9.09 Rods	2631.52' / 159.49 Rods	1328.30' / 80.50 Rods	1294.16' / 78.43 Rods



ENVIRO	Name	Crossing Method	scab003e
Water Crossing	Bridge		
Wetland Crossing	Survey Extent		973+51
Environmental Feature	Miscellaneous/Comments		Minor
HUC-12 Watershed	Seeding Mix		090202040605



PI #	STATION	DEFLECTION
PI #88	880+54.46	00°00'
PI #89	881+61.28	00°00'
PI #90	883+58.86	00°00'
PI #91	910+07.58	00°00'
PI #92	935+83.31	00°00'
PI #93	936+58.24	00°00'
PI #94	937+33.31	00°00'
PI #95	963+64.83	00°00'
PI #96	976+93.13	00°00'

- NOTE:
See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.
- Wetlands
 - Waterbodies
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 - Saline Soil

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SURVEY DATUM
North Dakota North (NAD 83)(2011)
International Foot
*Distances are Grid Distances.
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Grid Dist. x 1.00010235 = Ground Dist.

Drawing Date: 01-19-2022
Drawn By: D. Smith
Checked by: J. Harned

LEGEND:

- Proposed Block Valve
- Proposed Bore
- Alignment PI
- Utility Pole
- Well
- Valve
- Alignment
- Section Line
- Quarter Line
- Fence Line
- UG Fiber Optic
- UG Electric
- Overhead Elec
- Existing Pipeline
- Dirt Road

Mark	Quantity	Description
1	10,439	12.75" OD, .250" WT, X65, FBE, TRL
2	561	12.75" OD, .312" WT, X65, FBE w/ARO, TRL

No.	Date	Description

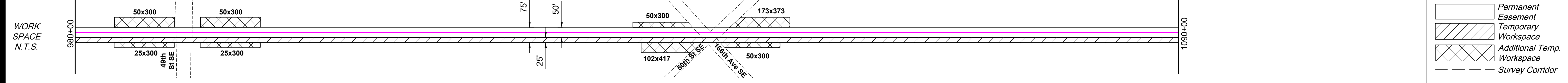
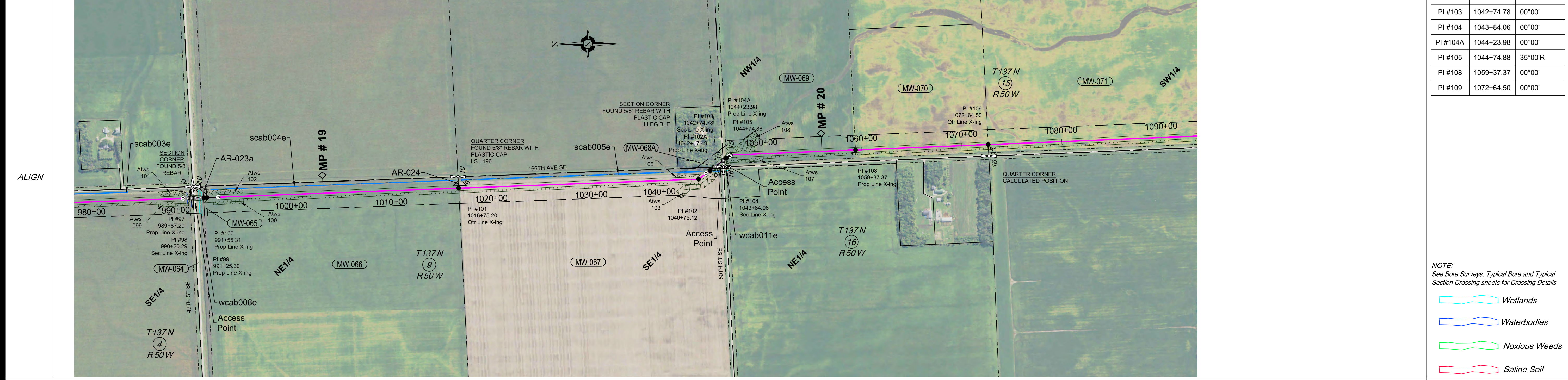
WHAHPETON EXPANSION PROJECT

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1" = 200' VERT.

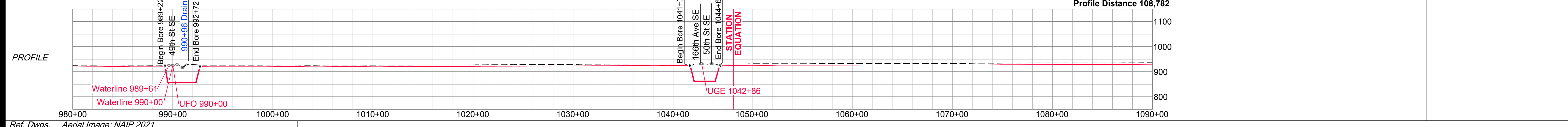
Sec. 28, 33, T138N, R50W,
Sec. 4, T137N, R50W,
5th P.M., Cass Co., North Dakota

Sheet 8 R2

OWNER	MW-064	MW-065	MW-066	MW-067	MW-068A	MW-069	MW-070	MW-071							
989+87	S1/2 OF THE SE1/4 SEC. 4, T137N, R50W 138' Uncultivated	991+25	PART OF THE NE1/4 SEC. 9, T137N, R50W 30' Uncultivated	991+55	E1/2 OF THE NE1/4 WITH EXCEPTIONS SEC. 9, T137N, R50W 2351' Cultivated - 169' Uncultivated	1016+75	SE1/4 WITH EXCEPTIONS SEC. 9, T137N, R50W 2494' Cultivated - 48' Uncultivated	1042+17	NE1/4 WITH EXCEPTIONS SEC. 16, T137N, R50W 206' Uncultivated	1044+24	N1/2NW1/4 SEC. 15, T137N, R50W 1513' Cultivated	1059+37	SW1/4 OF THE NW1/4 SEC. 15, T137N, R50W 1327' Cultivated	1072+65	SW1/4 SEC. 15, T137N, R50W 2594' Cultivated - 60' Uncultivated
RODDAGE	138.01' / 8.36 Rods	30.01' / 1.82 Rods	2519.89' / 152.72 Rods	2542.29' / 154.08 Rods	206.49' / 12.51 Rods	1513.39' / 91.72 Rods	1327.14' / 80.43 Rods	2654.39' / 160.87 Rods							



ENVIRO	Name	scab003e	scab004e	scab005e
Water Crossing	Bridge			Bore
Wetland Name	Wetland	wcab008e		
Crossing Survey Extent	Environmental Feature	973+51	983+66	991+98
Environmental Feature	Miscellaneous/Comments	Minor	Wetland	Intermediate
HUC-12 Watershed	Seeding Mix	090202040605		090202040604



Ref. Dwgs. Aerial Image: NAIP 2021

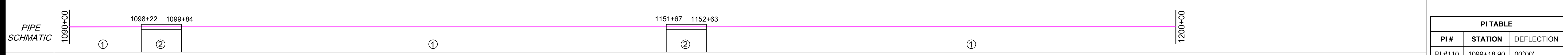
<p>HARNED SURVEYING & ENGINEERING, INC. 11815 ROBINDALE ROAD LOUISVILLE, KY 40243 OFFICE (502) 254-3921 FAX (502) 254-6093</p> <p>HSE Project # 19-21</p>	<p>SURVEY DATUM</p> <p>North Dakota North (NAD 83)(2011) International Foot *Distances are Grid Distances. Combined Scale Factor = 0.99989766 Grid Dist. x 1.00010235 = Ground Dist.</p> <p>Drawing Date: 01-19-2022 Drawn By: D. Smith Checked by: J. Harned</p>	<p>LEGEND:</p> <ul style="list-style-type: none"> Proposed Block Valve Proposed Bore Alignment PI Utility Pole Well Valve Alignment Section Line Quarter Line Fence Line UG Fiber Optic UG Electric Overhead Elec Existing Pipeline Dirt Road 	<p>SUMMARY of MATERIALS</p> <table border="1"> <thead> <tr> <th>Mark</th> <th>Quantity</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10,356</td> <td>12.75" OD, .250" WT, X65, FBE, TRL</td> </tr> <tr> <td>2</td> <td>644</td> <td>12.75" OD, .312" WT, X65, FBE w/ARO, TRL</td> </tr> </tbody> </table>	Mark	Quantity	Description	1	10,356	12.75" OD, .250" WT, X65, FBE, TRL	2	644	12.75" OD, .312" WT, X65, FBE w/ARO, TRL	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Date	Description				<p>WHAHPETON EXPANSION PROJECT</p> <p>1" = 500' HORIZ. 1" = 200' VERT.</p>	<p>WBI ENERGY TRANSMISSION An MDU Resources Group company</p> <p>Sec. 4, 9, 15, 16, T137N, R50W, 5th P.M., Cass Co., North Dakota</p> <p>Sheet 9 R2</p>
	Mark	Quantity	Description																		
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2	644	12.75" OD, .312" WT, X65, FBE w/ARO, TRL																			
No.	Date	Description																			

PI TABLE		
PI #	STATION	DEFLECTION
PI #97	989+87.29	00°00'
PI #98	990+20.29	00°00'
PI #99	991+25.30	00°00'
PI #100	991+55.31	00°00'
PI #101	1016+75.20	00°00'
PI #102	1040+75.12	35°00'L
PI #102A	1042+17.49	00°00'
PI #103	1042+74.78	00°00'
PI #104	1043+84.06	00°00'
PI #104A	1044+23.98	00°00'
PI #105	1044+74.88	35°00'R
PI #108	1059+37.37	00°00'
PI #109	1072+64.50	00°00'

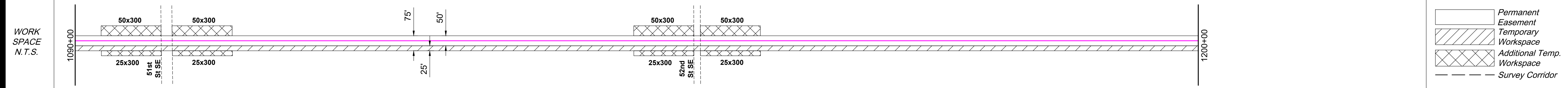
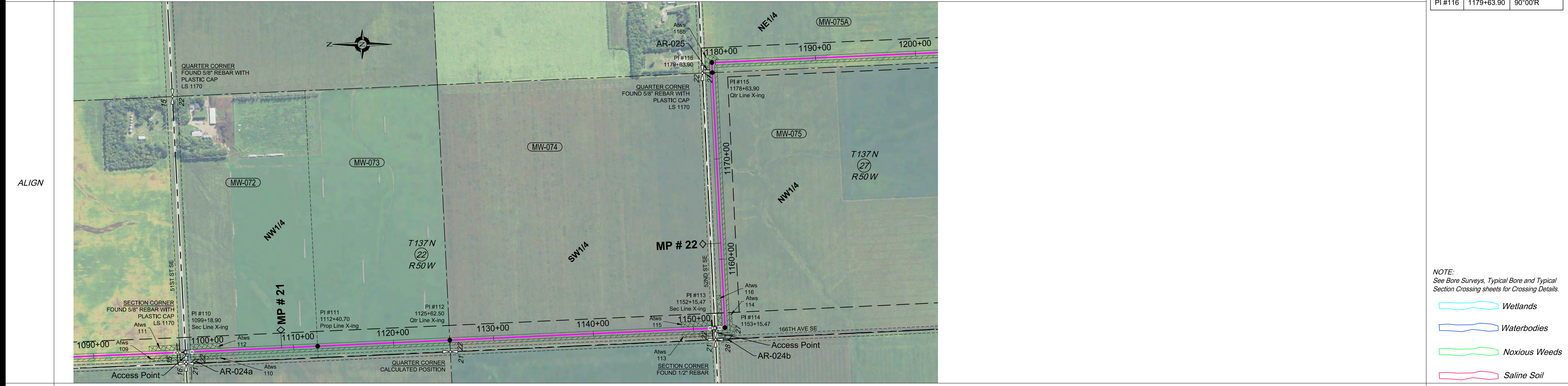
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 - Permanent Easement
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 - Additional Temp. Workspace
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2. Actual wetland or stream width may vary at time of construction.
* Open ("WET") trench if no distinguishable flow at the time of construction, dry crossing method if distinguishable flow at time of construction

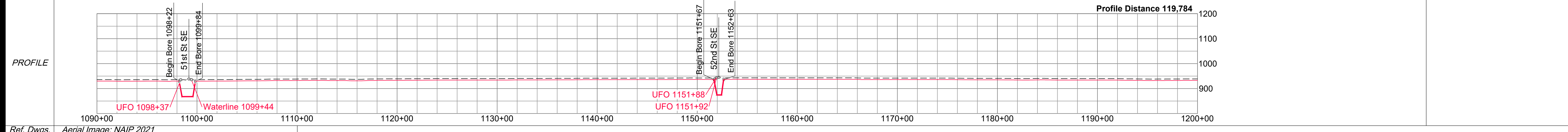
OWNER	MW-072	MW-073	MW-074	MW-075	MW-075A
RODDAGE	1321.80' / 80.11 Rods	1321.80' / 80.11 Rods	2652.97' / 160.79 Rods	2648.42' / 160.51 Rods	2649.80' / 160.59 Rods



PI #	STATION	DEFLECTION
PI #110	1099+18.90	00°00'
PI #111	1112+40.70	00°00'
PI #112	1125+62.50	00°00'
PI #113	1152+15.47	00°00'
PI #114	1153+15.47	90°00'L
PI #115	1178+63.90	00°00'
PI #116	1179+63.90	90°00'R



ENVIRO	Water Crossing	Name	
	Bridging Method		
	Wetland Name		
	Crossing Survey Extent		
	Environmental Feature		
	Miscellaneous/Comments		
	HUC-12 Watershed	090202040604	
	Seeding Mix		



<p>HARNED SURVEYING & ENGINEERING, INC. 11815 ROBINDALE ROAD LOUISVILLE, KY 40243 OFFICE (502) 254-3921 FAX (502) 254-6093</p> <p>HSE Project # 19-21</p>	<p>SURVEY DATUM</p> <p>North Dakota North (NAD 83)(2011) International Foot *Distances are Grid Distances. Combined Scale Factor = 0.999989766 Grid Dist. x 1.00010235 = Ground Dist.</p> <p>Drawing Date: 01-19-2022 Drawn By: D. Smith Checked by: J. Harned</p>	<p>LEGEND:</p> <ul style="list-style-type: none"> Proposed Block Valve Proposed Bore Alignment PI Utility Pole Well Valve Alignment Section Line Quarter Line Fence Line UG Fiber Optic UG Electric Overhead Elec Existing Pipeline Dirt Road 	<p>SUMMARY of MATERIALS</p> <table border="1"> <thead> <tr> <th>Mark</th> <th>Quantity</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10,742</td> <td>12.75" OD, .250" WT, X65, FBE, TRL</td> </tr> <tr> <td>2</td> <td>258</td> <td>12.75" OD, .312" WT, X65, FBE w/ARO, TRL</td> </tr> </tbody> </table>	Mark	Quantity	Description	1	10,742	12.75" OD, .250" WT, X65, FBE, TRL	2	258	12.75" OD, .312" WT, X65, FBE w/ARO, TRL	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Date	Description				<p>WHAHPETON EXPANSION PROJECT</p> <p>1" = 500' HORIZ. 1" = 200' VERT.</p>	<p>WBI ENERGY TRANSMISSION An MDU Resources Group company</p> <p>Sec. 22, 27, T137N, R50W, 5th P.M., Cass Co., North Dakota</p> <p>Sheet 10 R2</p>
	Mark	Quantity	Description																		
1	10,742	12.75" OD, .250" WT, X65, FBE, TRL																			
2	258	12.75" OD, .312" WT, X65, FBE w/ARO, TRL																			
No.	Date	Description																			

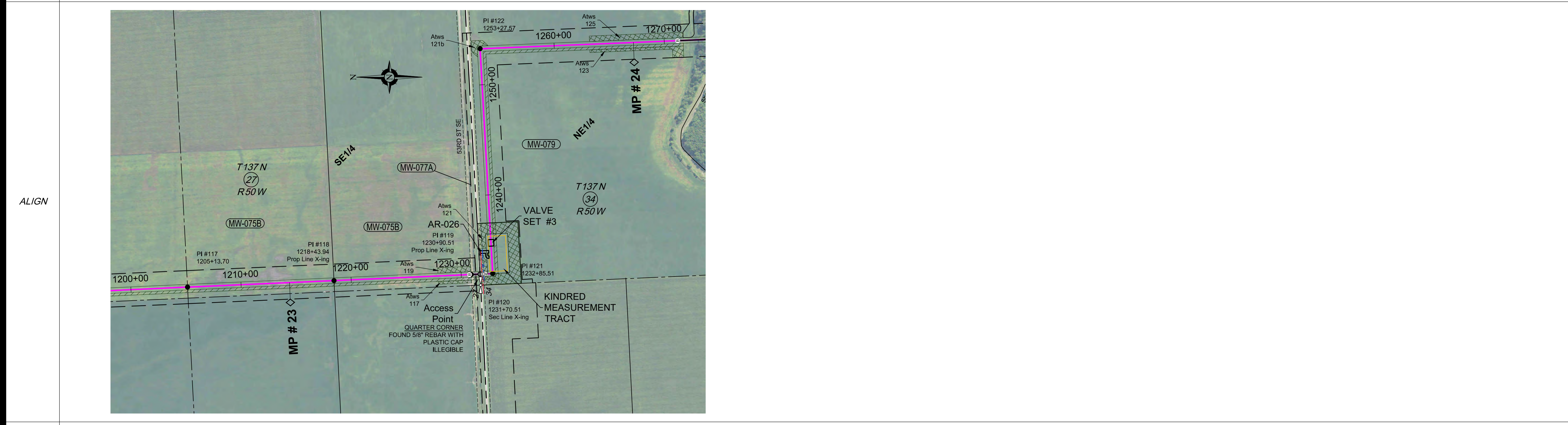
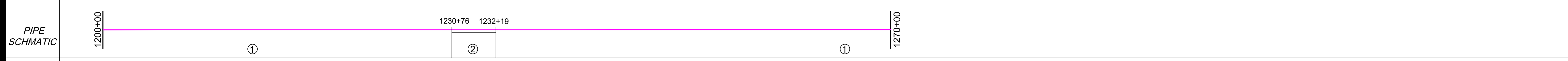
NOTE:
See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.

- Wetlands
- Waterbodies
- Noxious Weeds
- Saline Soil

Permanent Easement
Temporary Workspace
Additional Temp. Workspace
Survey Corridor

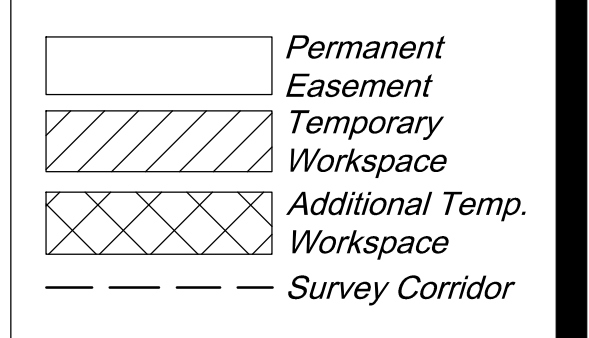
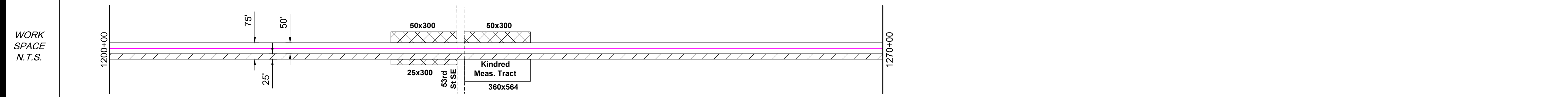
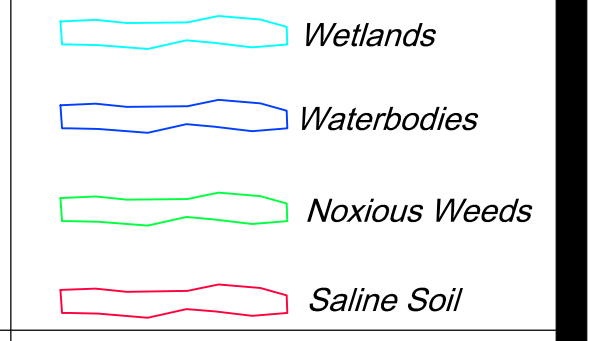
ENVIRONMENTAL NOTES:
1. Wetlands depicted on these sheets represent actual field survey data or NWI.
2. Actual wetland or stream width may vary at time of construction.
* Open ("WET") trench if no distinguishable flow at the time of construction, dry crossing method if distinguishable flow at time of construction

Co, State	NORTH DAKOTA				
OWNER	MW-075B N1/2SE1/4 SEC. 27, T137N, R50W 1330' Uncultivated	MW-075C SW1/4SE1/4 SEC. 27, T137N, R50W 1247' Uncultivated	MW-077A SOUTH 80 FEET OF THE SW1/4 SEC. 27, T137N, R50W 80' Uncultivated	MW-079 PART OF NE1/4 NORTH OF RIVER SEC. 34, T137N, R50W 4117' - 203' Uncultivated	
RODDAGE	1330.24' / 80.62 Rods	1246.57' / 75.55 Rods	80.00' / 4.85 Rods	4319.94' / 261.81 Rods	



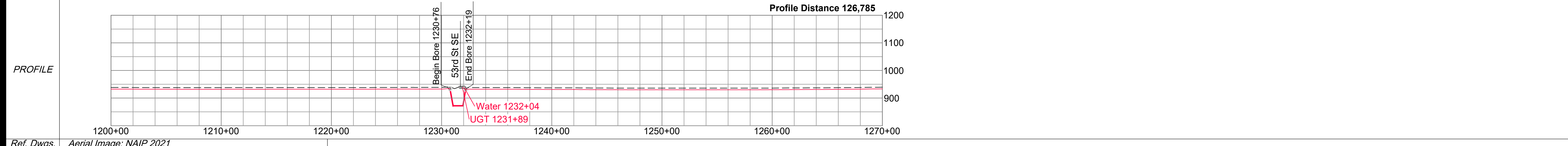
PI TABLE		
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PI #117	1205+13.70	00°00'
PI #118	1218+43.94	00°00'
PI #118	1218+43.94	00°00'
PI #119	1230+90.51	00°00'
PI #120	1231+70.51	00°00'
PI #121	1232+85.51	90°00'L
PI #122	1253+27.57	90°00'R

NOTE:
See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.



ENVIRO	Name	
	Crossing Method	
	Wetland Name	
	Crossing Survey Extent	
	Environmental Feature	
	Miscellaneous/Comments	
HUC-12 Watershed	090202040604	
Seeding Mix		

ENVIRONMENTAL NOTES:
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Ref. Dwgs. Aerial Image: NAIP 2021

SURVEY DATUM	
North Dakota North (NAD 83)(2011) International Foot *Distances are Grid Distances. Combined Scale Factor = 0.99989766 Grid Dist. x 1.00010235 = Ground Dist.	
Drawing Date:	01-19-2022
Drawn By:	D. Smith
Checked by:	J. Harned

LEGEND:	
⊠	Proposed Block Valve
⊙	Proposed Bore
●	Alignment PI
○	Utility Pole
⊕	Well
⊗	Valve
—	Alignment
- - -	Section Line
- · - · -	Quarter Line
- x - x - x -	Fence Line
- - - - -	UG Fiber Optic
- - - - -	UG Electric
- - - - -	Overhead Elec
- · - · -	Existing Pipeline
- - - - -	Dirt Road

SUMMARY of MATERIALS		
Mark	Quantity	Description
1	6,857	12.75" OD, .250" WT, X65, FBE, TRL
2	143	12.75" OD, .312" WT, X65, FBE w/ARO, TRL

REVISIONS		
No.	Date	Description

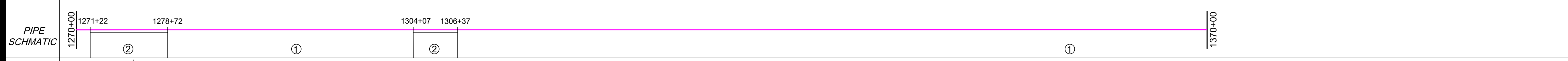
WHAHPETON EXPANSION PROJECT

1" = 500' HORIZ.
1" = 200' VERT.

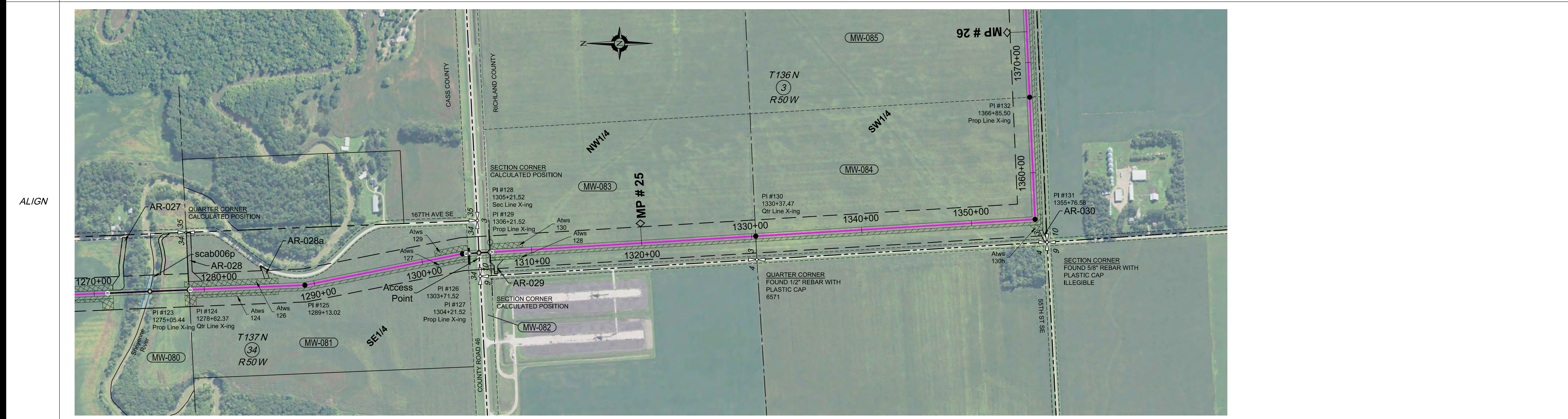
Sec. 27, 34, T137N, R50W,
5th P.M., Cass Co., North Dakota

Sheet 11 R2

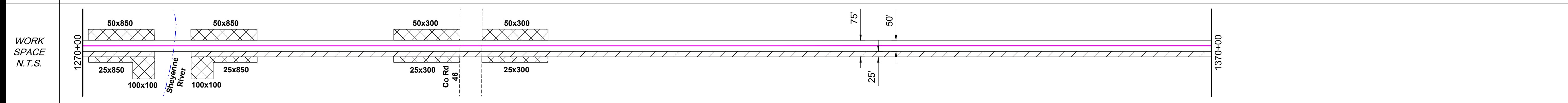
Co, State	SECTION 34, T137N, R50W, CASS COUNTY, SECTION 3, T136N, R50W, RICHLAND COUNTY, NORTH DAKOTA									
OWNER	MW-080	MW-081	MW-082	MW-083	MW-084	MW-085				
RODDAGE	356.93' / 21.63 Rods	2555.09' / 154.85 Rods	201.48' / 12.12 Rods	2416.27' / 146.44 Rods	3648.03' / 221.09 Rods	1321.51' / 80.09 Rods				



PI TABLE		
PI #	STATION	DEFLECTION
PI #123	1275+05.44	00°00'
PI #124	1278+62.37	00°00'
PI #125	1289+13.02	9°00'L
PI #126	1303+71.52	8°00'R
PI #127	1304+21.52	00°00'
PI #128	1305+21.52	00°00'
PI #129	1306+21.52	00°00'
PI #130	1330+37.47	00°00'
PI #131	1355+76.58	89°00'L
PI #132	1366+85.50	00°00'



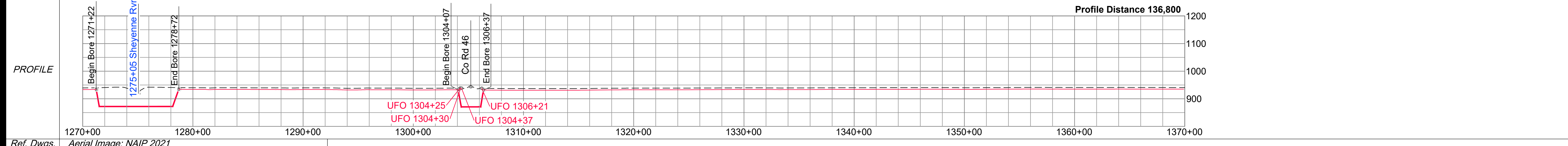
- NOTE:
See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.
- Wetlands
 - Waterbodies
 - Noxious Weeds
 - Saline Soil



- Permanent Easement
- Temporary Workspace
- Additional Temp. Workspace
- Survey Corridor

ENVIRO	Name	scab006e	
	Crossing Method	Bore	
	Wetland Name		
	Crossing Survey Extent	1275+05	
Environmental Feature	Intermediate		
Miscellaneous/Comments			
HUC-12 Watershed	090202040604		
Seeding Mix			

ENVIRONMENTAL NOTES:
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Ref. Dwgs. Aerial Image: NAIP 2021

SURVEY DATUM	
North Dakota North (NAD 83)(2011) International Foot *Distances are Grid Distances. Combined Scale Factor = 0.99989766 Grid Dist. x 1.00010235 = Ground Dist.	
Drawing Date:	01-19-2022
Drawn By:	D. Smith
Checked by:	J. Harned

LEGEND:	
	Proposed Block Valve
	Proposed Bore
	Alignment PI
	Utility Pole
	Well
	Valve
	Alignment
	Section Line
	Quarter Line
	Fence Line
	UG Fiber Optic
	UG Electric
	Overhead Elec
	Existing Pipeline
	Dirt Road

SUMMARY of MATERIALS		
Mark	Quantity	Description
1	9,020	12.75" OD, .250" WT, X65, FBE, TRL
2	980	12.75" OD, .312" WT, X65, FBE w/ARO, TRL

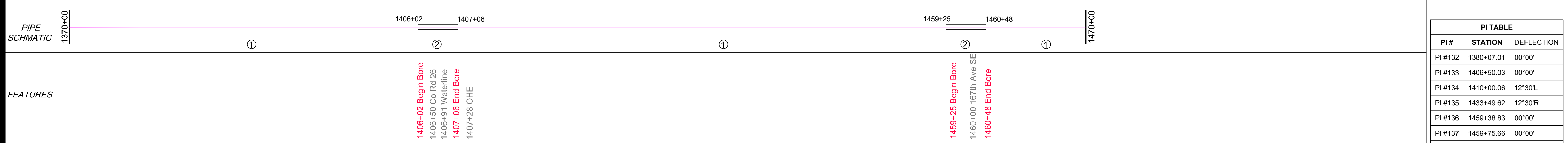
REVISIONS		
No.	Date	Description

WHAHPETON EXPANSION PROJECT

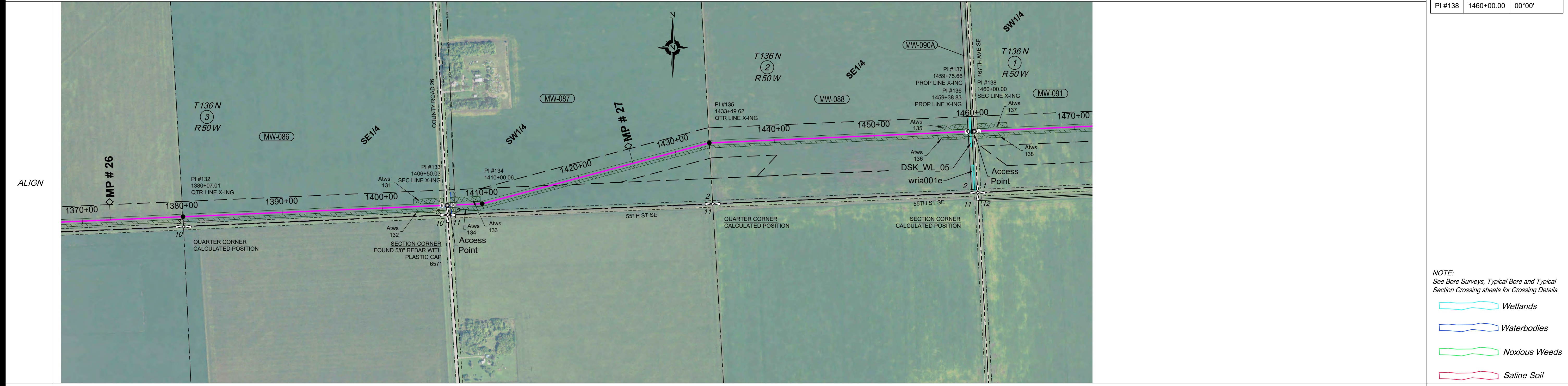
1" = 500' HORIZ.
1" = 200' VERT.

Sec. 34, T137N, R50W, Cass County
Sec. 3, T136N, R50W, Richland County
5th P.M., North Dakota
Sheet 12 R2

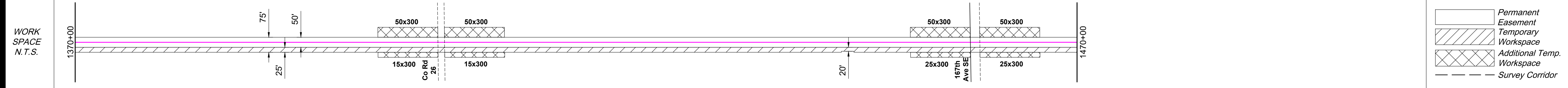
Co, State	SECTIONS 1, 2, 3, T136N, R50W, RICHLAND COUNTY, NORTH DAKOTA					
OWNER	1378+59	MW-086	MW-087	MW-088	MW-090A	MW-091
RODDAGE		SE 1/4, EXCEPT 1.5 AC DRAIN SEC. 3, T136N, R50W 2610' Cultivated - 33' Uncultivated 2643.02' / 160.18 Rods	SW1/4, WITH EXCEPTIONS SEC. 2, T136N, R50W 2667' Cultivated - 33' Uncultivated 2699.59' / 163.61 Rods	SE1/4, WITH EXCEPTIONS SEC. 2, T136N, R50W 2590' Cultivated - 24' Uncultivated 2613.54' / 158.40 Rods	3.10 AC DRAIN IN SE1/4 SEC. 2, T136N, R50W 37' Uncultivated 36.83' / 2.23 Rods	SW1/4 OF THE SW1/4 SEC. 1, T136N, R50W 1300' Cultivated - 33' Uncultivated 1332.62' / 80.76 Rods



PI TABLE		
PI #	STATION	DEFLECTION
PI #132	1380+07.01	00°00'
PI #133	1406+50.03	00°00'
PI #134	1410+00.06	12°30'L
PI #135	1433+49.62	12°30'R
PI #136	1459+38.83	00°00'
PI #137	1459+75.66	00°00'
PI #138	1460+00.00	00°00'

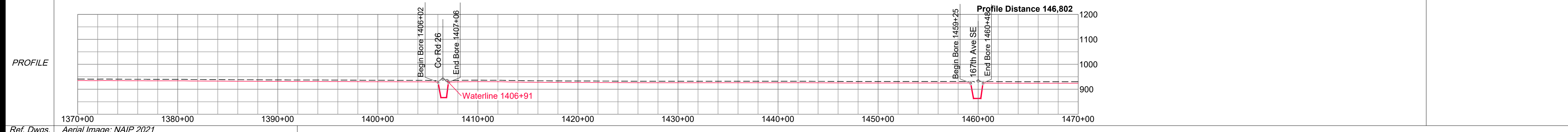


- NOTE:
See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.
- Wetlands
 - Waterbodies
 - Noxious Weeds
 - Saline Soil
 - Permanent Easement
 - Temporary Workspace
 - Additional Temp. Workspace
 - Survey Corridor



ENVIRO	Water Crossing	Name: DSK WL 05	Bridge Method: 1459+61 Wetland
	Wetland Crossing	Name: DSK WL 05	Survey Extent: Approx. 150' ECD
	Environmental Feature	Approx. 100' mats	
	Miscellaneous/Comments	090201051005	
	HUC-12 Watershed Seeding Mix		

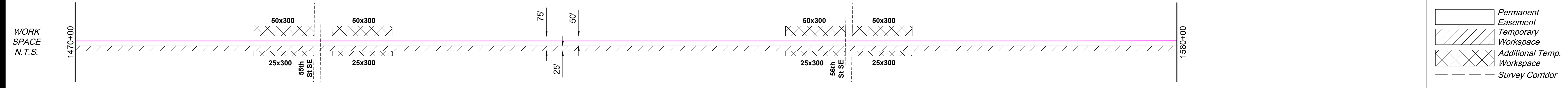
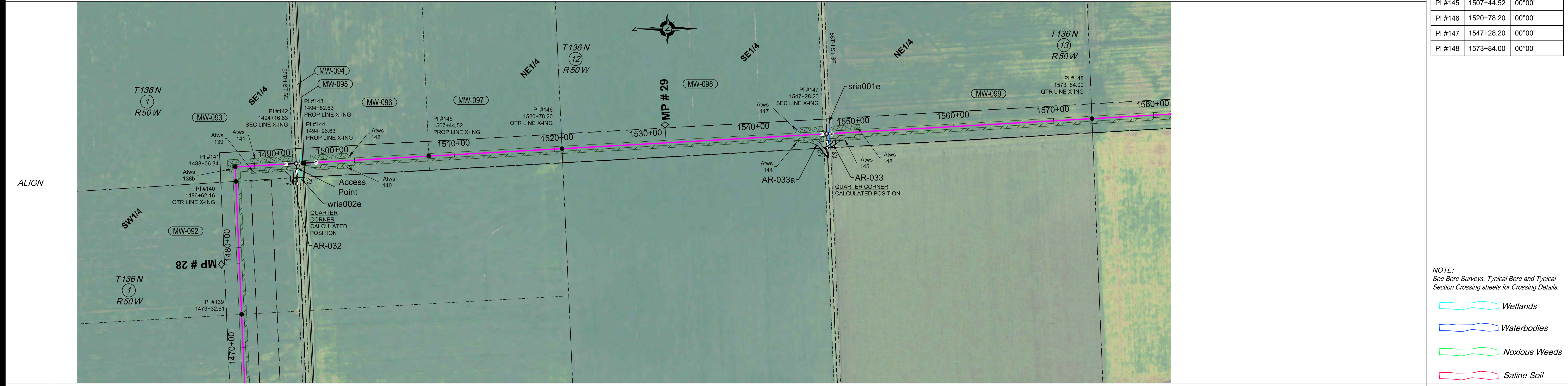
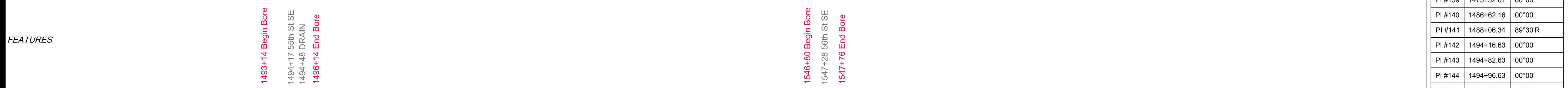
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<p>HARNED SURVEYING & ENGINEERING, INC. 11815 ROBINDALE ROAD LOUISVILLE, KY 40243 OFFICE (502) 254-3921 FAX (502) 254-6093</p>	<p>SURVEY DATUM North Dakota North (NAD 83)(2011) International Foot *Distances are Grid Distances. Combined Scale Factor = 0.99989766 Grid Dist. x 1.00010235 = Ground Dist.</p>		<p>LEGEND:</p> <ul style="list-style-type: none"> Proposed Block Valve Proposed Bore Alignment PI Utility Pole Well Valve Alignment Section Line Quarter Line Fence Line UG Fiber Optic UG Electric Overhead Elec Existing Pipeline Dirt Road 	<p>SUMMARY of MATERIALS</p> <table border="1"> <thead> <tr> <th>Mark</th> <th>Quantity</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>9,773</td> <td>12.75" OD, .250" WT, X65, FBE, TRL</td> </tr> <tr> <td>2</td> <td>227</td> <td>12.75" OD, .312" WT, X65, FBE w/ARO, TRL</td> </tr> </tbody> </table>	Mark	Quantity	Description	1	9,773	12.75" OD, .250" WT, X65, FBE, TRL	2	227	12.75" OD, .312" WT, X65, FBE w/ARO, TRL	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Date	Description				<p>WHAHPETON EXPANSION PROJECT</p> <p>1" = 500' HORIZ. 1" = 200' VERT.</p>	<p>500 0 500 1000 scale 1" = 500' - 22 x 34 feet 1" = 1000' - 11 x 17</p>	<p>WBI ENERGY TRANSMISSION An MDU Resources Group company</p>
	Mark	Quantity			Description																		
1	9,773	12.75" OD, .250" WT, X65, FBE, TRL																					
2	227	12.75" OD, .312" WT, X65, FBE w/ARO, TRL																					
No.	Date	Description																					
<p>HSE Project # 19-21</p> <p>Drawing Date: 01-19-2022 Drawn By: D. Smith Checked by: J. Harned</p>	<p>Sec. 1, 2, 3, T136N, R50W, 5th P.M., Richland Co., North Dakota</p> <p>Sheet 13 R2</p>																						

OWNER	MW-092 E1/2 OF THE SW1/4 SEC. 1, T136N, R50W 1330' Cultivated	MW-093 SE1/4, WITH EXCEPTIONS SEC. 1, T136N, R50W 751' Cultivated - 33' Uncultivated	MW-094 N1/2 OF THE NE1/4 WITH EXCEPTIONS SEC. 12, T136N, R50W 66' Uncultivated	MW-095 S1/4 OF N80° OF THE N1/2 OF THE NE1/4 SEC. 12, T136N, R50W 14' Uncultivated	MW-096 N1/2 OF THE NE1/4 WITH EXCEPTIONS SEC. 12, T136N, R50W 1248' Cultivated	MW-097 S1/2 OF THE NE1/4 SEC. 12, T136N, R50W 1334' Cultivated	MW-098 SE1/4 SEC. 12, T136N, R50W 2650' Cultivated	MW-099 NE1/4, WITH EXCEPTIONS SEC. 13, T136N, R50W 2596' Cultivated - 60' Uncultivated
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RODDAGE	1329.54' / 80.58 Rods	754.47' / 45.73 Rods	66.00' / 4.00 Rods	14.00' / 0.85 Rods	1247.88' / 75.63 Rods	1333.69' / 80.83 Rods	2650.00' / 160.61 Rods	2655.80' / 160.96 Rods
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ENVIRO	Water Crossing	Name: sria001e	Bridge Method: Bore
	Wetland Crossing	Name: wria002e	Survey Extent: 1494+48
ENVIRO	Environmental Feature	Wetland	Approx. 150' ECD
	Miscellaneous/Comments		Approx. 50' mats
HUC-12 Watershed		090201051005	
Seeding Mix			

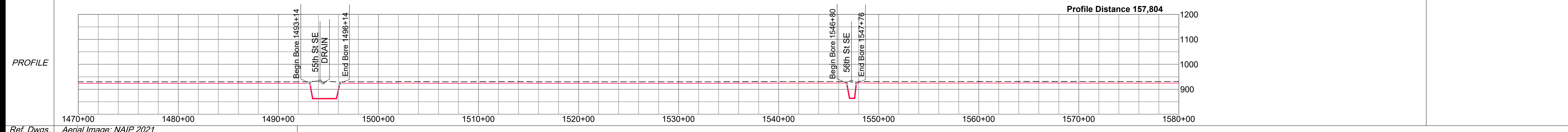
PI TABLE		
PI #	STATION	DEFLECTION
PI #139	1473+32.61	00°00'
PI #140	1486+62.16	00°00'
PI #141	1488+06.34	89°30'R
PI #142	1494+16.63	00°00'
PI #143	1494+82.63	00°00'
PI #144	1494+96.63	00°00'
PI #145	1507+44.52	00°00'
PI #146	1520+78.20	00°00'
PI #147	1547+28.20	00°00'
PI #148	1573+84.00	00°00'

NOTE:
See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.

- Wetlands
- Waterbodies
- Noxious Weeds
- Saline Soil

- Permanent Easement
- Temporary Workspace
- Additional Temp. Workspace
- Survey Corridor

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Ref. Dwgs. Aerial Image: NAIP 2021

 HARNED SURVEYING & ENGINEERING, INC. 11815 ROBINDALE ROAD LOUISVILLE, KY 40243 OFFICE (502) 254-3921 FAX (502) 254-6093	SURVEY DATUM North Dakota North (NAD 83)(2011) International Foot *Distances are Grid Distances. Combined Scale Factor = 0.99989766 Grid Dist. x 1.00010235 = Ground Dist.	LEGEND: [Symbol] Proposed Block Valve [Symbol] Proposed Bore [Symbol] Alignment PI [Symbol] Utility Pole [Symbol] Well [Symbol] Valve	[Symbol] Alignment [Symbol] Section Line [Symbol] Quarter Line [Symbol] Fence Line [Symbol] UG Fiber Optic [Symbol] UG Electric [Symbol] Overhead Elec [Symbol] Existing Pipeline [Symbol] Dirt Road	SUMMARY of MATERIALS <table border="1"> <thead> <tr> <th>Mark</th> <th>Quantity</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10,604</td> <td>12.75" OD, .250" WT, X65, FBE, TRL</td> </tr> <tr> <td>2</td> <td>396</td> <td>12.75" OD, .312" WT, X65, FBE w/ARO, TRL</td> </tr> </tbody> </table>	Mark	Quantity	Description	1	10,604	12.75" OD, .250" WT, X65, FBE, TRL	2	396	12.75" OD, .312" WT, X65, FBE w/ARO, TRL	REVISIONS <table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Date	Description				WAHPETON EXPANSION PROJECT	 An MDU Resources Group company
	Mark	Quantity	Description																			
1	10,604	12.75" OD, .250" WT, X65, FBE, TRL																				
2	396	12.75" OD, .312" WT, X65, FBE w/ARO, TRL																				
No.	Date	Description																				
HSE Project # 19-21	Drawing Date: 01-19-2022 Drawn By: D. Smith Checked by: J. Harned	Scale: 1" = 500' HORIZ. 1" = 200' VERT.	Sec. 1, 12, 13, T136N, R50W, 5th P.M., Richland Co., North Dakota Sheet 14 R2																			