



1250 West Century Avenue
Mailing Address:
P.O. Box 5601
Bismarck, ND 58506-5601
(701) 530-1600

February 8, 2023

Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, N.E., Room 1A
Washington, D.C. 20426

Re: OEP/DG2E/Gas Branch 4
WBI Energy Transmission, Inc.
Wahpeton Expansion Project
Docket No. CP22-466-000

Dear Ms. Bose:

WBI Energy Transmission, Inc. (WBI Energy), herewith submits revised alignment sheets, as referenced in WBI Energy's January 27, 2023 response to the environmental information requests of the Office of Energy Projects of the Federal Energy Regulatory Commission (Commission) received on January 20, 2023 in the above referenced docket.

Pursuant to 18 CFR § 385.2010 of the Commission's regulations, copies of responses are being served to each person whose name appears on the official service list for this proceeding.

Any questions regarding this filing should be addressed to the undersigned at (701) 530-1576.

Sincerely,

/s/ Andrew Bates

Andrew Bates
Supervisor, Regulatory Affairs

Attachments

cc: via email

David Hanobic, FERC Project Manager
Dawn Ramsey, FERC
Douglas Mooneyhan, Stantec
Lavinia DiSanto, Stantec
Official Service List

CERTIFICATE OF SERVICE

I hereby certify that I have this day served the foregoing document upon each person designated on the official service list compiled by the Secretary in this proceeding.

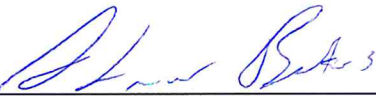
Dated this 8th day of February 2023.

By /s/ Andrew Bates
Andrew Bates
Supervisor, Regulatory Affairs
WBI Energy Transmission, Inc.
1250 West Century Avenue
Bismarck, ND 58503
Telephone: (701) 530-1576


STATE OF NORTH DAKOTA)
COUNTY OF BURLEIGH)

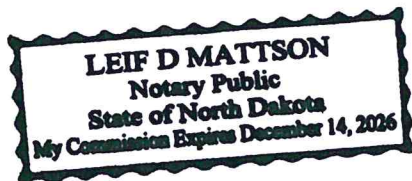
I, Andrew Bates, being first duly sworn, do hereby depose and say that I am the Supervisor, Regulatory Affairs for WBI Energy Transmission, Inc.; that I have read the foregoing document; that I know the contents thereof; that I am authorized to execute such document; and that all such statements and matters set forth therein are true and correct to the best of my knowledge, information and belief.

Dated this 8 day of February 2023.

By 
Andrew Bates
Supervisor, Regulatory Affairs

Subscribed and sworn to before me this 8th day of February 2023.


Leif D. Mattson, Notary Public
Burleigh County, North Dakota
My Commission Expires: 12/14/2026



*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>

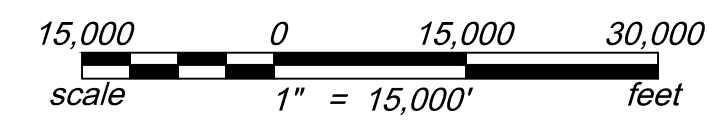
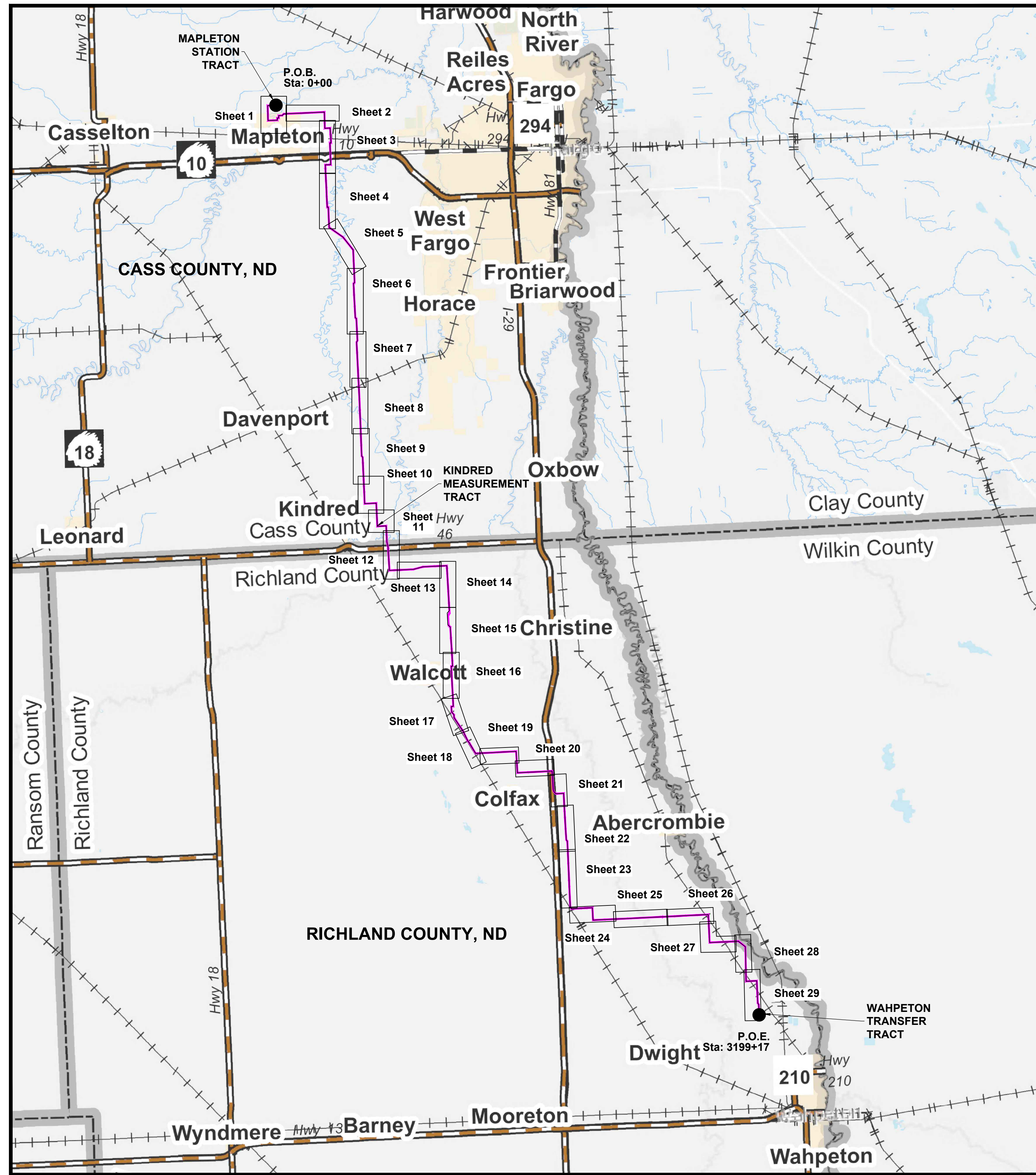


HARNED SURVEYING & ENGINEERING, INC.
11815 ROBINDALE ROAD
LOUISVILLE, KY 40243
OFFICE (502) 254-3921
FAX (502) 254-6093

WAHPETON EXPANSION PROJECT

Cass County, North Dakota
Richland County, North Dakota

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Sheet 1	Sta 1+00 - 120+00
Sheet 2	Sta 120+00 - 220+00
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Sheet 8	Sta 870+00 - 980+00
Sheet 9	Sta 980+00 - 1090+00
Sheet 10	Sta 1090+00 - 1200+00
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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

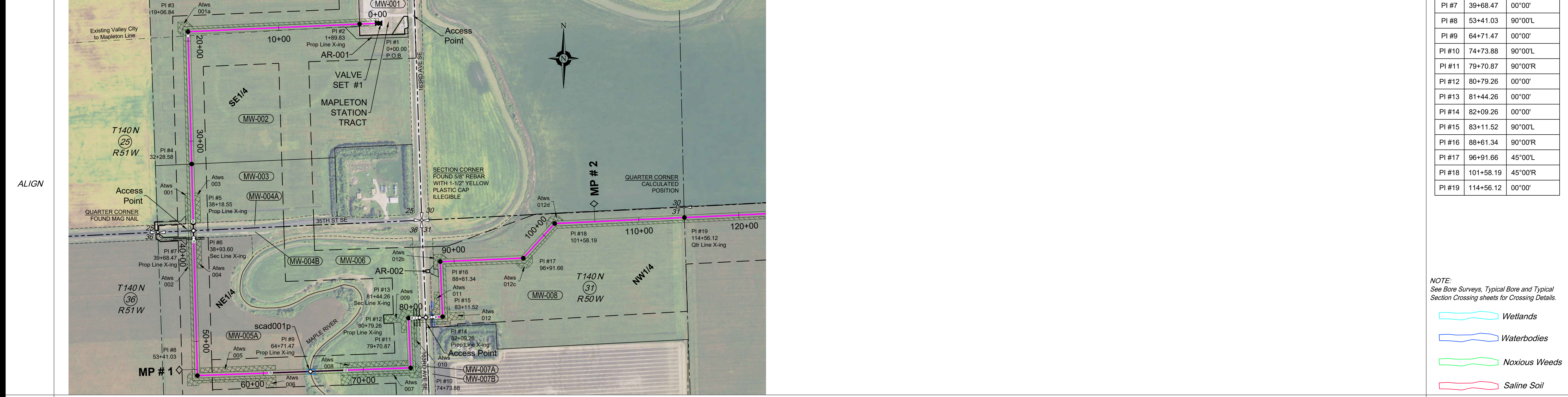
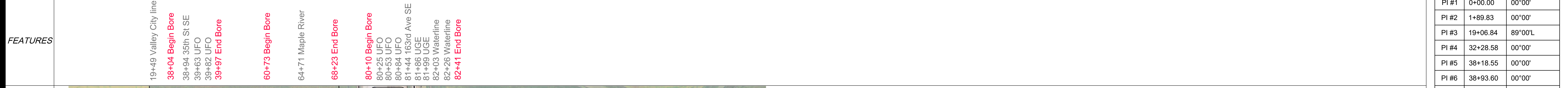
HSE INC.
HARNED SURVEYING & ENGINEERING, INC.
11815 ROBINDALE ROAD
LOUISVILLE, KY 40243
OFFICE (502) 254-3921
FAX (502) 254-6093

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



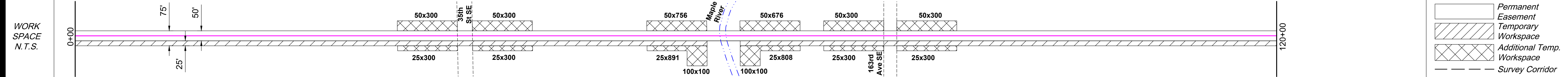
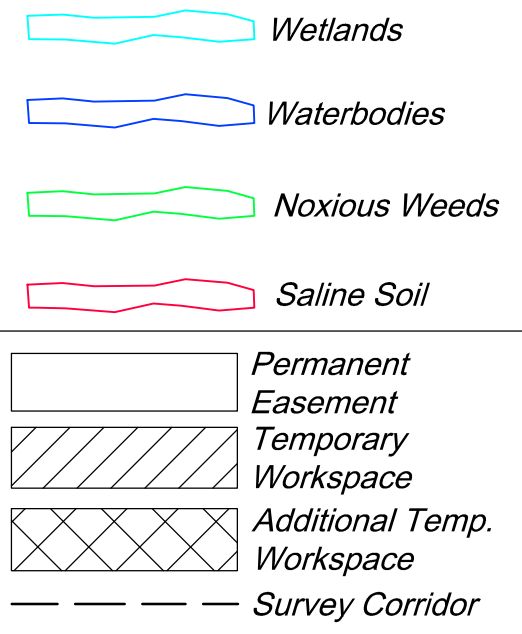
Know what's below
Call before you dig.
MT - 1-800-424-5555
ND - 1-800-795-0555

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



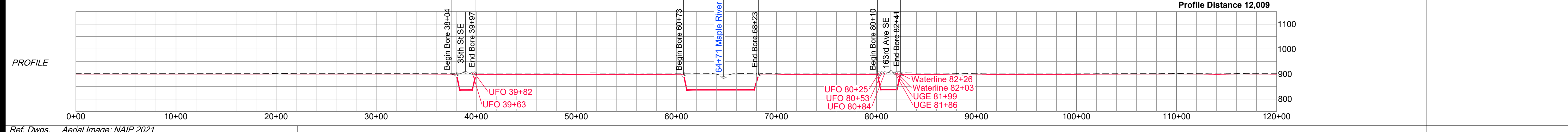
PI #	STATION	DEFLECTION
PI #1	0+00.00	00°00'
PI #2	1+89.83	00°00'
PI #3	19+06.84	89°00'L
PI #4	32+28.58	00°00'
PI #5	38+18.55	00°00'
PI #6	38+93.60	00°00'
PI #7	39+68.47	00°00'
PI #8	53+41.03	90°00'L
PI #9	64+71.47	00°00'
PI #10	74+73.88	90°00'L
PI #11	79+70.87	90°00'R
PI #12	80+79.26	00°00'
PI #13	81+44.26	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.



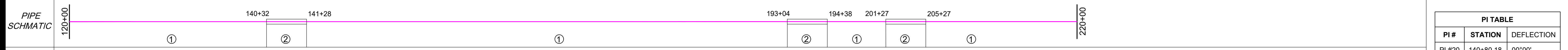
ENVIRO	Water Crossing	Name: scad001p	Method: Bore
Wetland Name	64+71	Intermediate	
Environmental Feature	Approx. 150' ECD		
Miscellaneous/Comments	Approx. 100' mats		
HUC-12 Watershed	090202050704		
Seeding Mix			

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



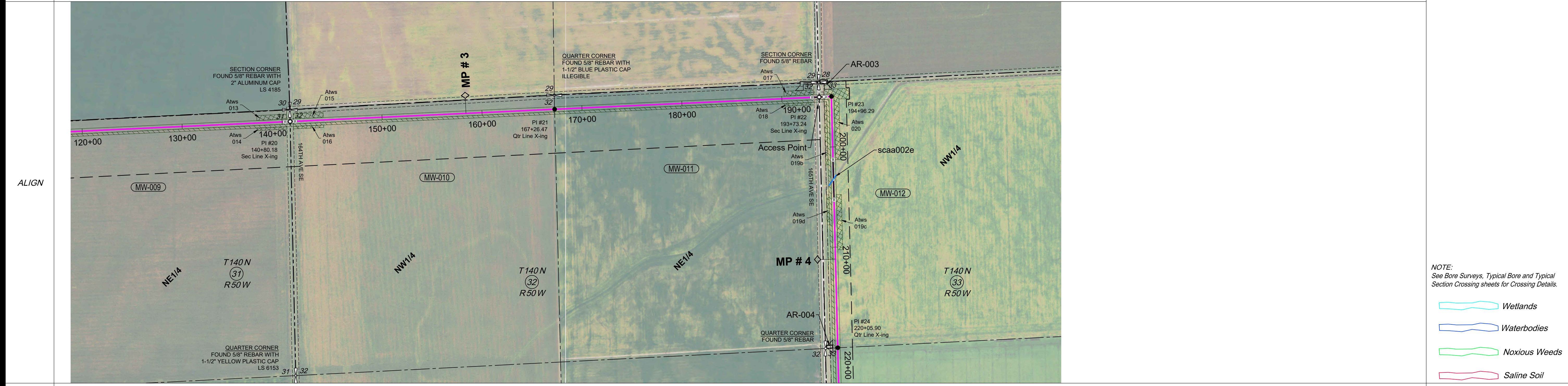
<p>HARNED SURVEYING & ENGINEERING, INC. 11815 ROBINDALE ROAD LOUISVILLE, KY 40243 OFFICE (502) 254-3921 FAX (502) 254-6093</p> <p>HSE Project # 19-21</p>	<p>SURVEY DATUM</p> <p>North Dakota North (NAD 83)(2011) International Foot *Distances are Grid Distances. Combined Scale Factor = 0.99989766 Grid 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>10,636</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	<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>1" = 500' - 22 x 34 1" = 1000' - 11 x 17</p>	<p>WBI ENERGY TRANSMISSION An MDU Resources Group company</p>	<p>Sec. 25, 36, T140N, R51W, Sec. 31, T140N, R50W, 5th P.M., Cass Co., North Dakota</p> <p>Sheet 1 R2</p>
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No.	Date	Description																								

Co, State	SECTIONS 31, 32, 33, T140N, R50W, CASS COUNTY, NORTH DAKOTA			
OWNER	MW-009 NE1/4 SEC. 31, T140N, R50W 2591' Cultivated - 33' Uncultivated 2624.06' / 159.03 Rods	MW-010 NW1/4 SEC. 32, T140N, R50W 2613' Cultivated - 34' Uncultivated 2646.29' / 160.38 Rods	MW-011 NE1/4 SEC. 32, T140N, R50W 2597' Cultivated - 50' Uncultivated 2646.78' / 160.41 Rods	MW-012 NW1/4 SEC. 33, T140N, R50W 2558' Cultivated - 75' Uncultivated 2632.65' / 159.55 Rods

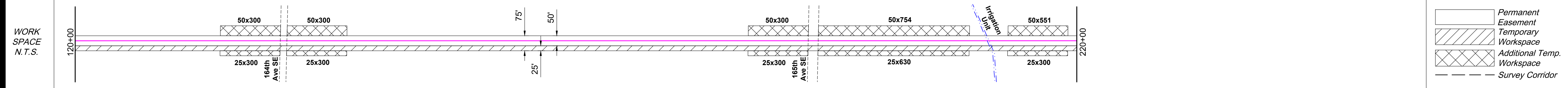


FEATURES	140+32 Begin Bore 140+80 164th Ave SE 141+28 End Bore	193+04 Begin Bore 193+73 165th Ave SE 194+21 Cenex Line 194+38 End Bore	201+27 Begin Bore 203+27 Irr Unit 205+27 End Bore
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PI TABLE		
PI #	STATION	DEFLECTION
PI #20	140+80.18	00°00'
PI #21	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'



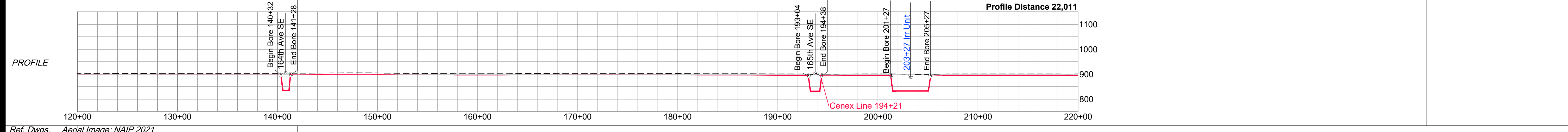
- NOTE:
See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.
- Wetlands
 - Waterbodies
 - Noxious Weeds
 - Saline Soil



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

ENVIRO	Water Crossing Name	scaa002e
	Water Crossing Method	Bore
	Wetland Name	Yes
	Environmental Feature	203+27 Intermediate
Miscellaneous/Comments	Approx. 150' ECD Approx. 50' mats	
HUC-12 Watershed	090202050704	090202050603
Seeding Mix		

ENVIRONMENTAL NOTES:
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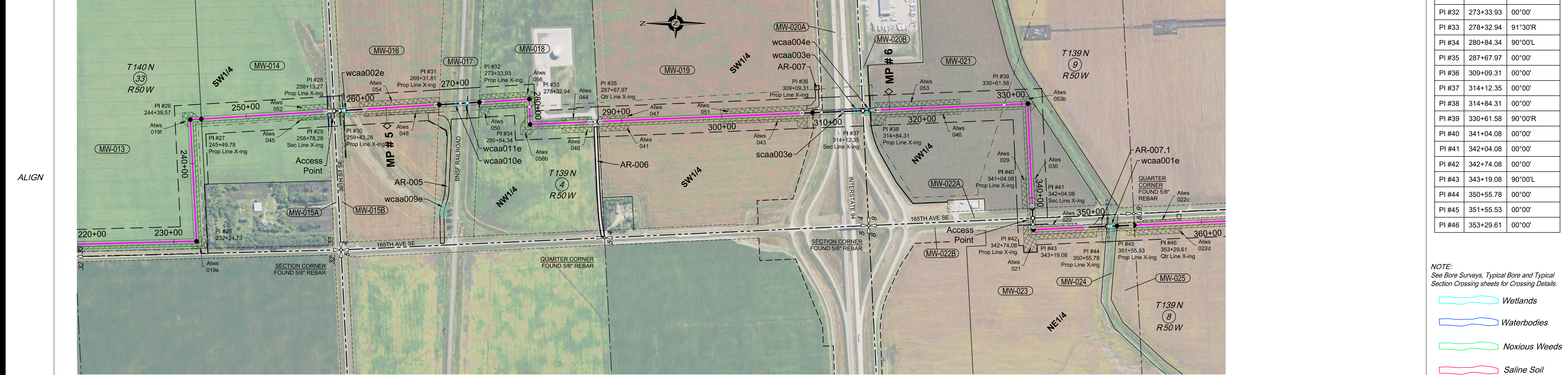


 HARNED SURVEYING & ENGINEERING, INC. 11815 ROBINDALE ROAD LOUISVILLE, KY 40243 OFFICE (502) 254-3921 FAX (502) 254-6093 HSE Project # 19-21	SURVEY DATUM North Dakota North (NAD 83)(2011) International Foot *Distances are Grid Distances. Combined Scale Factor = 0.99989766 Grid Dist. x 1.00010235 = Ground 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>9,370</td> <td>12.75" OD, .250" WT, X65, FBE, TRL</td> </tr> <tr> <td>2</td> <td>630</td> <td>12.75" OD, .312" WT, X65, FBE w/ARO, TRL</td> </tr> </tbody> </table>	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 <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				WHAHPETON EXPANSION PROJECT 1" = 500' HORIZ. 1" = 200' VERT.	 An MDU Resources Group company Sec. 31, 32, 33, T140N, R50W, 5th P.M., CASS Co., North Dakota Sheet 2 R2
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No.	Date	Description																			

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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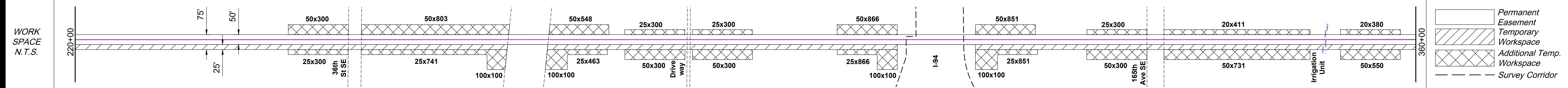
FEATURES	<p>257+98, 261+87, 269+02, 273+63, 286+86, 287+82, 308+04, 315+17, 340+89, 342+89, 348+50, 353+00, 360+00</p> <p>257+98 Begin Bore, 258+16 OHE, 258+22 Waterline, 258+25 Nustar Line, 258+46 UFO, 258+78 36th St SE, 259+35 UFO, 259+66 UFO, 259+80 UFO, 261+87 End Bore, 269+02 Begin Bore, 271+43 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 #	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'

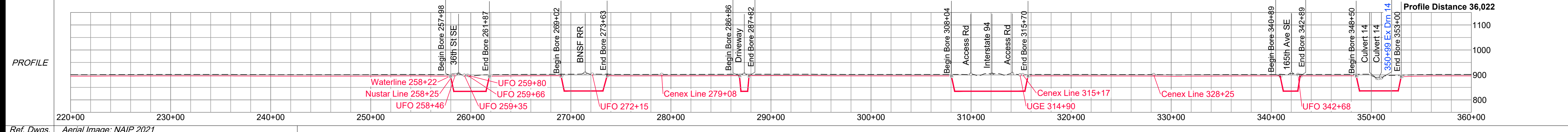
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- Wetlands
- Waterbodies
- Noxious Weeds
- Saline Soil

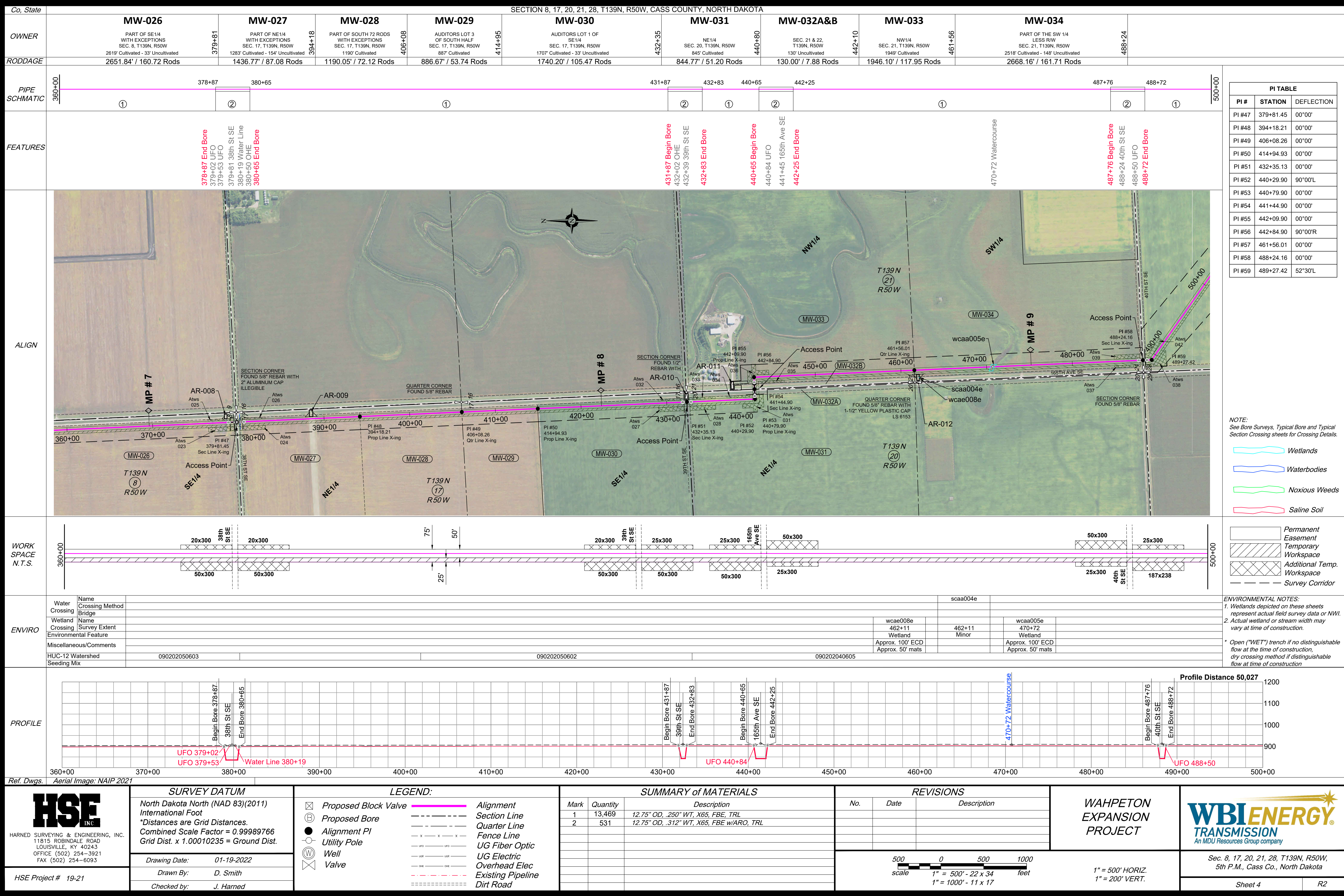


ENVIRO	Water Crossing	Name	Bridge	Wetland Name	Wetland	Environmental Feature	Miscellaneous/Comments	HUC-12 Watershed	Seeding Mix
		wcaa002e		wcaa009e	Wetland	Wetland	Approx. 175' ECD	Approx. 100' mats	
		wcaa010e		wcaa011e	Wetland	Wetland	Approx. 100' ECD	Approx. 100' mats	
		scaa003e	Bore	wcaa003e	Minor	Wetland	Approx. 100' ECD	Approx. 50' mats	
				wcaa004e	Wetland	Wetland	Approx. 100' ECD	Approx. 50' mats	
				wcaa001e	Wetland	Wetland	Approx. 100' ECD	Approx. 50' mats	
									090202050603

ENVIRONMENTAL NOTES:
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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																						



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:
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

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

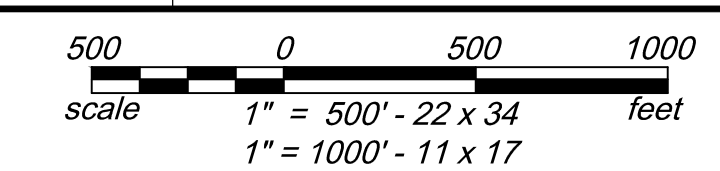
HSE INC.
HARNED SURVEYING & ENGINEERING, INC.
11815 ROBINDALE ROAD
LOUISVILLE, KY 40243
OFFICE (502) 254-3921
FAX (502) 254-6093

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.

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

HSE Project # 19-21



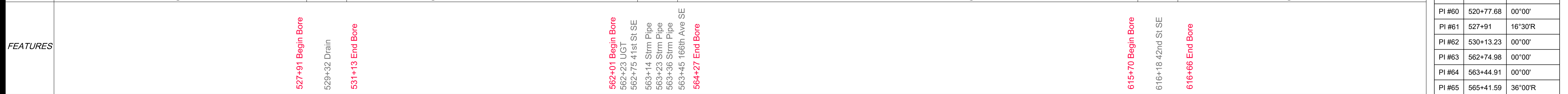
WAHPETON EXPANSION PROJECT

WBI ENERGY TRANSMISSION
An MDU Resources Group company

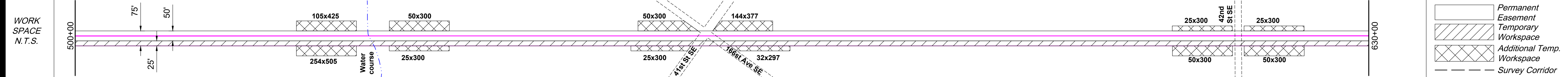
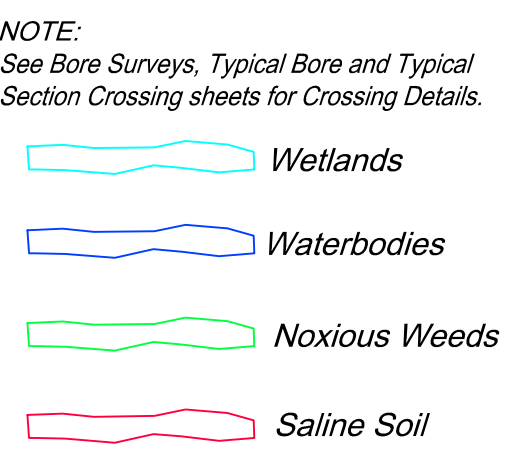
Sec. 8, 17, 20, 21, 28, T139N, R50W,
5th P.M., Cass Co., North Dakota

Sheet 4 R2

Co, State	MW-035	MW-036	MW-037	MW-038	MW-038A	MW-038B	MW-041
OWNER	NW1/4 LESS PARCELS SEC. 28, T139N, R50W 3220' Cultivated - 33' Uncultivated	NE1/4 SEC. 28, T139N, R50W 878' Cultivated - 58' Uncultivated	SE1/4 SEC. 28, T139N, R50W 3191' Cultivated - 71' Uncultivated	NE1/4 SEC. 33, T139N, R50W 70' Uncultivated	NW1/4 SEC. 34, T139N, R50W 2594' Cultivated - 33' Uncultivated	SW1/4 SEC. 34, T139N, R50W 2613' Cultivated - 33' Uncultivated	NW1/4 SEC. 3, T138N, R50W 2440' Cultivated - 98' Uncultivated
RODDAGE	3253.52' / 197.18 Rods	935.55' / 56.70 Rods	3261.75' / 197.68 Rods	69.93' / 4.24 Rods	2626.89' / 159.21 Rods	2646.29' / 160.38 Rods	2539.77' / 153.93 Rods

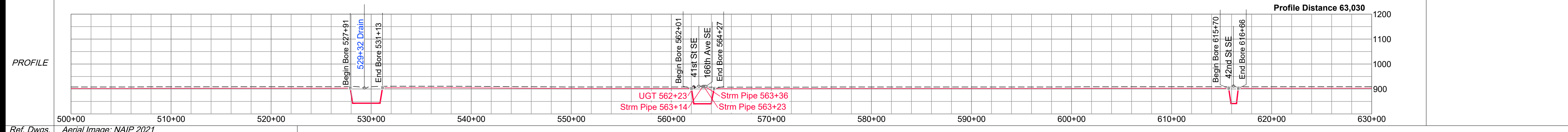


PI #	STATION	DEFLECTION
PI #60	520+77.68	00°00'
PI #61	527+91	16°30'R
PI #62	530+13.23	00°00'
PI #63	562+74.98	00°00'
PI #64	563+44.91	00°00'
PI #65	585+41.59	36°00'R
PI #66	589+71.80	00°00'
PI #67	616+18.09	00°00'



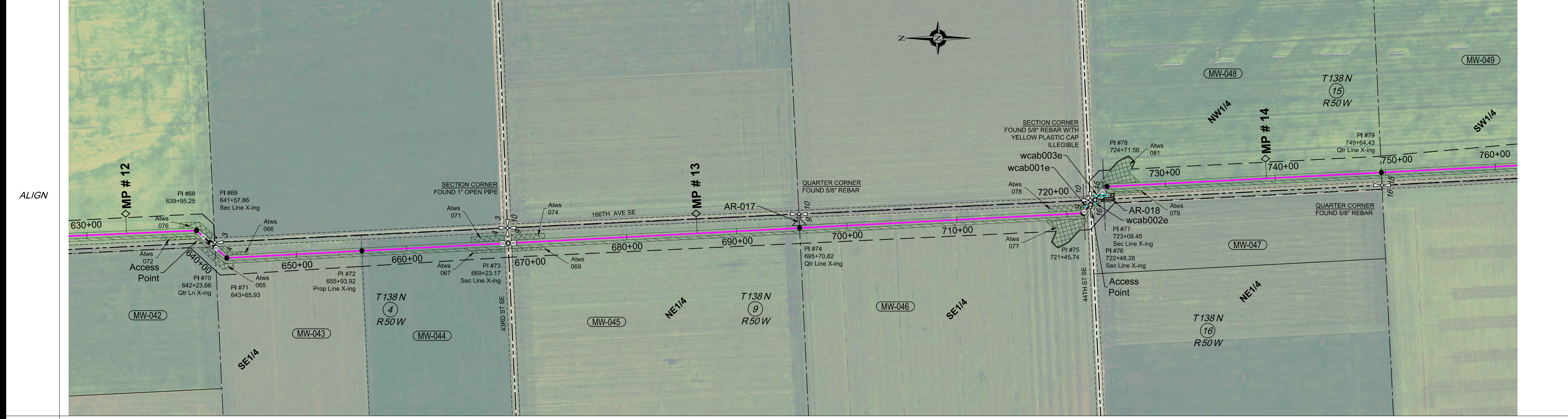
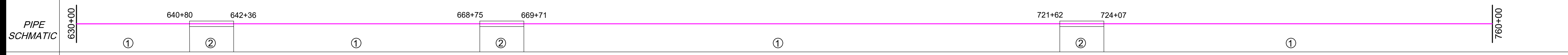
ENVIRO	Name	Crossing Method	Wetland Name	Crossing Survey Extent	Environmental Feature	Miscellaneous/Comments	HUC-12 Watershed	Seeding Mix
	scab001e	Bore	wcaa006e	529+32	Wetland	Approx. 150' ECD	090202040605	
	scae002i	Bore		567+07	Minor			
	scab002e			616+46	Minor			

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



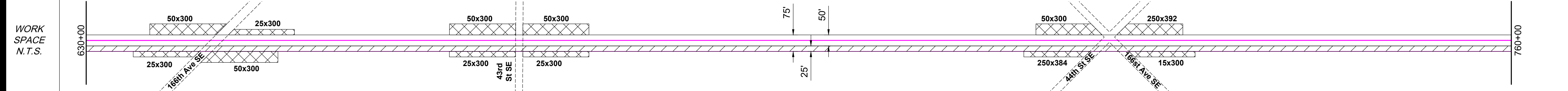
<p>HARNED SURVEYING & ENGINEERING, INC. 11815 ROBINDALE ROAD LOUISVILLE, KY 40243 OFFICE (502) 254-3921 FAX (502) 254-6093</p> <p>HSE Project # 19-21</p>	<p>SURVEY DATUM North Dakota North (NAD 83)(2011) International Foot *Distances are Grid Distances. Combined Scale Factor = 0.99989766 Grid Dist. x 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																				

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

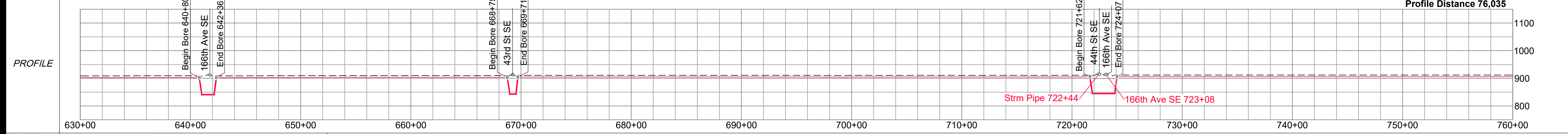
- NOTE:
See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.
- Wetlands
 - Waterbodies
 - Noxious Weeds
 - Saline Soil



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

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

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	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

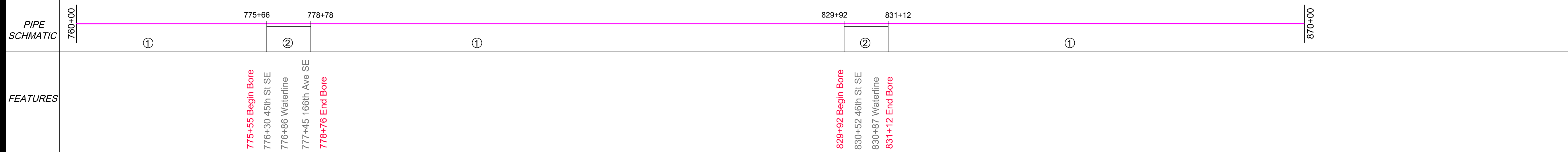
WHAHPETON EXPANSION PROJECT

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

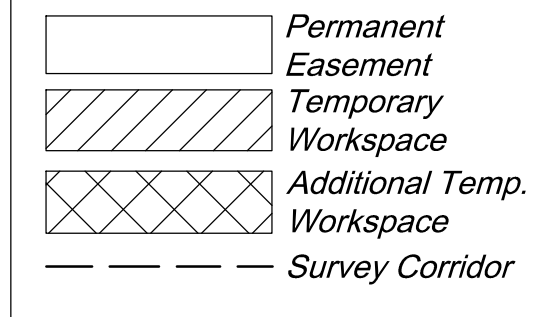
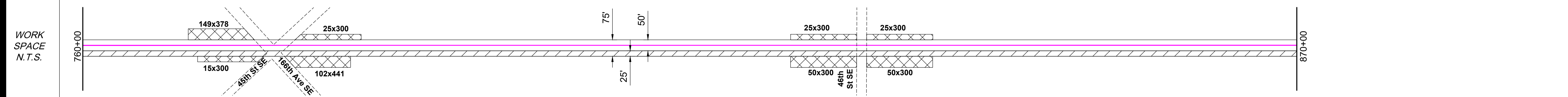
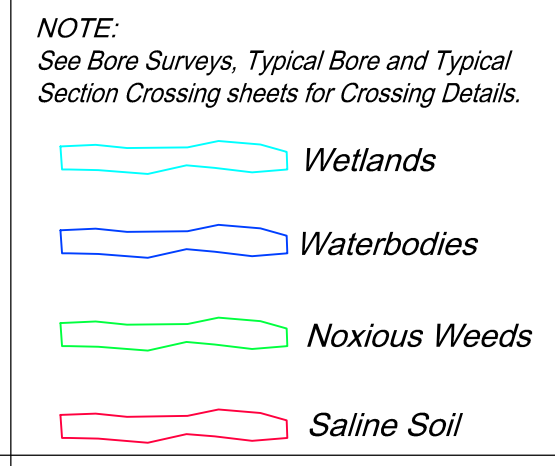
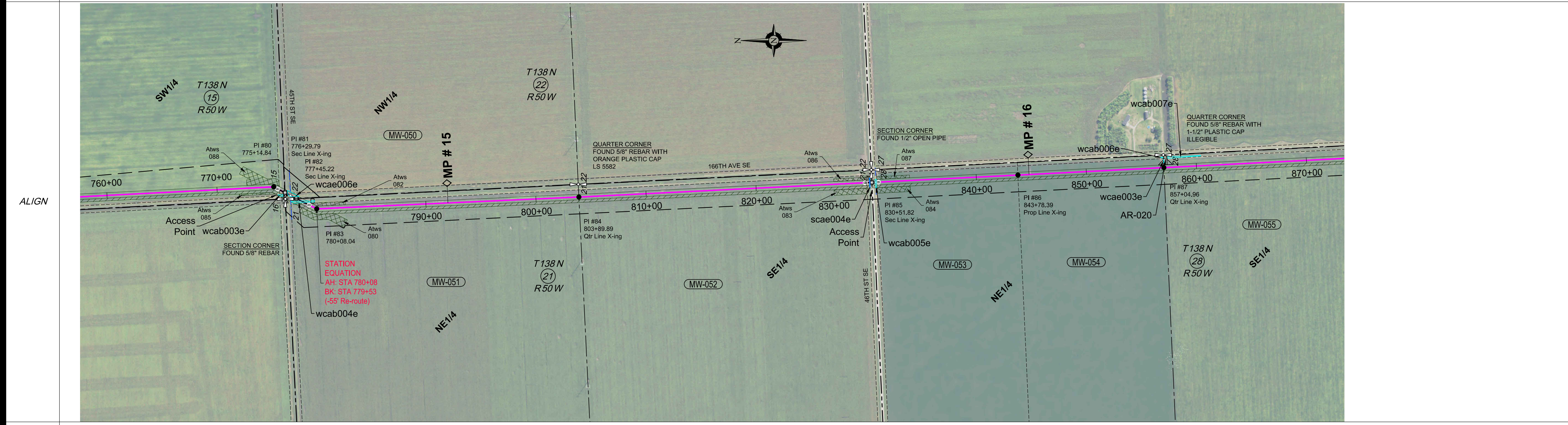
Sec. 4, 9, 15, 16, T138N, R50W,
5th P.M., Cass Co., North Dakota

Sheet 6 R2

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	

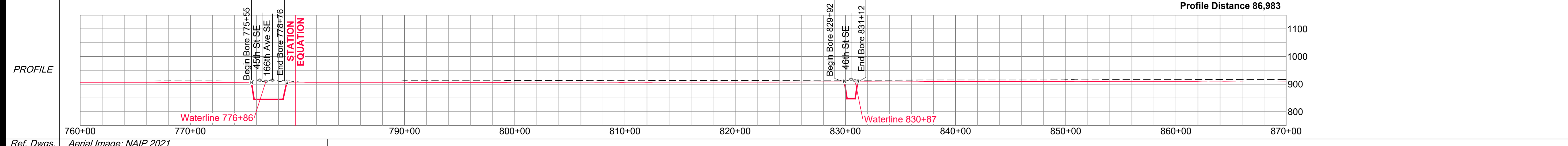


PI #	STATION	DEFLECTION
PI #80	775+14.84	30°00'R
PI #81	776+29.79	00°00'
PI #82	777+45.22	00°00'
PI #83	780+08.04	30°00'L
PI #84	803+89.89	00°00'
PI #85	830+51.82	00°00'
PI #86	843+78.39	00°00'
PI #87	857+04.96	00°00'



Water Crossing	Name	Bridge Method	Wetland Name	Survey Extent	Environmental Feature	Miscellaneous/Comments	HUC-12 Watershed	Seeding Mix
	wcab003e	Bridge	wcae0006e	776+16	Wetland	Approx. 50' ECD	090202040605	
	wcae0006e	Bridge	wcae0006e	778+86	Wetland	Approx. 50' ECD		
	wcab004e	Bridge	wcae0004e	778+06	Wetland	Approx. 50' ECD		
	scae004e	Bore	wcae0005e	830+32	Wetland	Approx. 100' ECD		
			wcae0005e	830+89	Wetland	Approx. 40' mats		
			wcae0006e	856+90	Wetland	Approx. 50' ECD		
			wcae0003e	857+04	Wetland	Approx. 50' ECD		
			wcab007e	857+47	Wetland	Approx. 50' ECD		
				860+46	Wetland	Approx. 50' ECD		

ENVIRONMENTAL NOTES:
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 * 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

SURVEY DATUM	
North Dakota North (NAD 83)(2011) International Foot *Distances are Grid Distances. Combined Scale Factor = 0.99998766 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	10,559	12.75" OD, .250" WT, X65, FBE, TRL
2	441	12.75" OD, .312" WT, X65, FBE w/ARO, TRL

REVISIONS		
No.	Date	Description

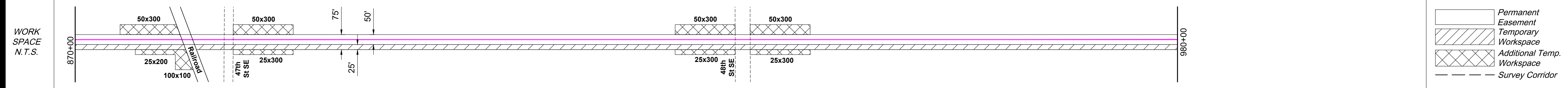
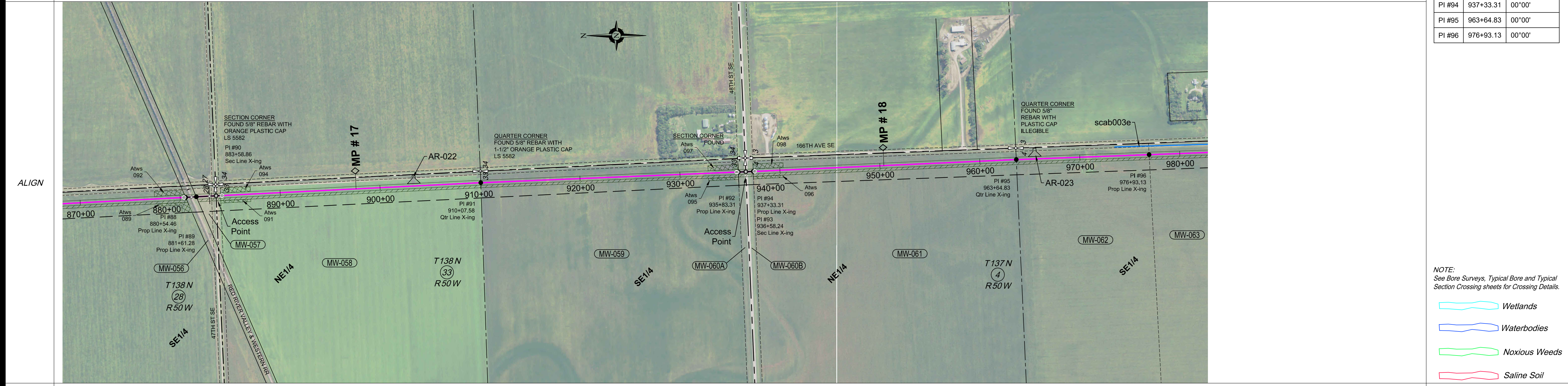
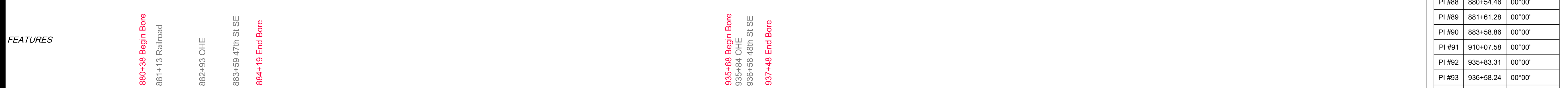
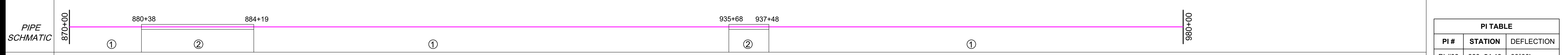
WAHPETON EXPANSION PROJECT

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

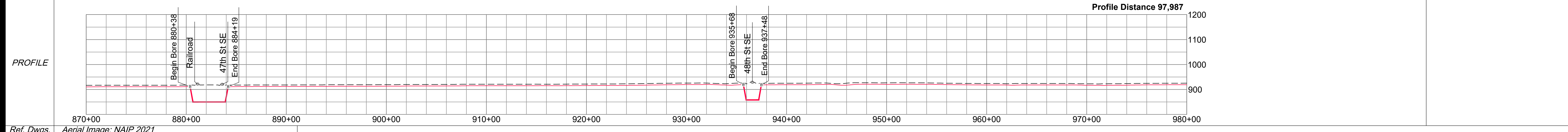
Sec. 15, 21, 22, 28, T138N, R50W, 5th P.M., Cass Co., North Dakota

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	
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			983+66
Miscellaneous/Comments			Minor
HUC-12 Watershed			
Seeding Mix			



HARNED SURVEYING & ENGINEERING, INC.
11815 ROBINDALE ROAD
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
- x - x - x - Fence Line
- - - UG Fiber Optic
- - - UG Electric
- - - Overhead Elec
- · - Existing Pipeline
- - - Dirt Road

SUMMARY of MATERIALS

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

REVISIONS

No.	Date	Description

WHAHPETON EXPANSION PROJECT

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

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

WBI ENERGY TRANSMISSION
An MDU Resources Group company

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

Sheet 8 R2

PI TABLE		
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
 - Noxious Weeds
 - Saline Soil

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

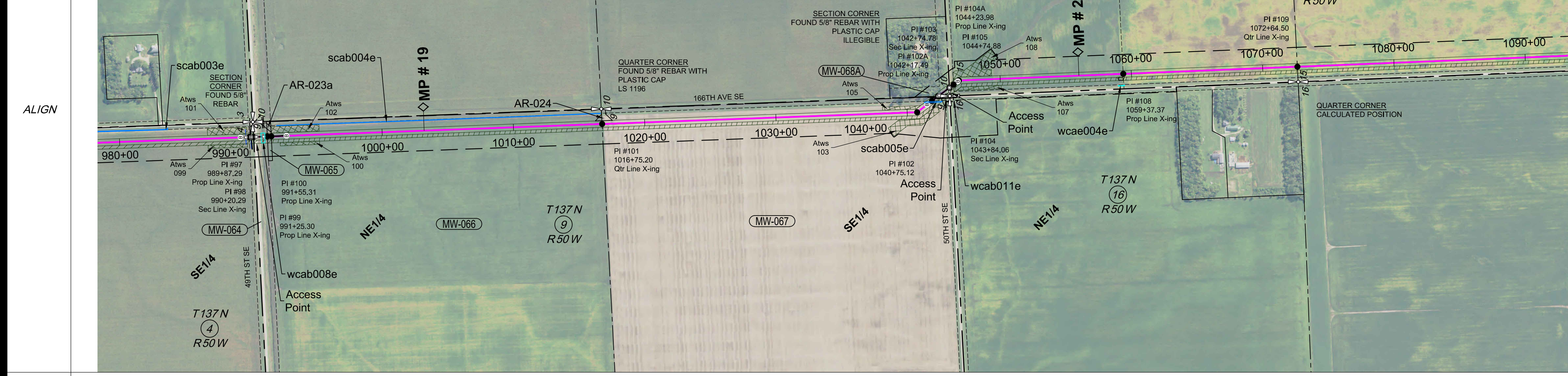
ENVIRONMENTAL NOTES:

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- Actual wetland or stream width may vary at time of construction.

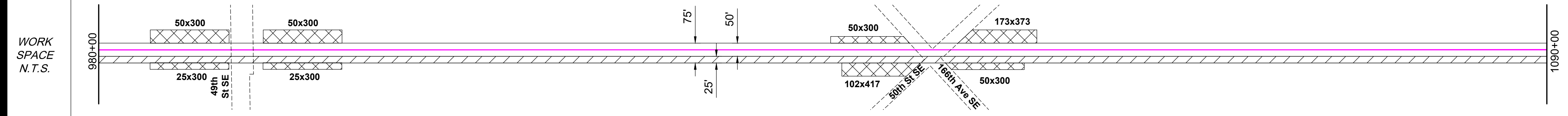
* Open ("WET") trench if no distinguishable flow at the time of construction, dry crossing method if distinguishable flow at time of construction

Co, State	SECTIONS 4, 9, 15, 16, T137N, R50W, CASS COUNTY, NORTH DAKOTA										
OWNER	989+87	MW-064	MW-065	MW-066	MW-067	MW-068A	MW-069	MW-070	MW-071	1072+65	1090+00
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			
PIPE SCHMATIC	980+00	989+22	992+72			1042+86	1043+82				
FEATURES	<p>989+22 Begin Bore</p> <p>989+61 Waterline</p> <p>990+00 Waterline</p> <p>990+00 UFO</p> <p>990+02 OHE</p> <p>990+41 49th St SE</p> <p>990+96 Drain</p> <p>992+72 End Bore</p> <p>1041+71 Begin Bore</p> <p>1042+75 166th Ave SE</p> <p>1042+86 UGE</p> <p>1043+84 50th St SE</p> <p>1044+65 End Bore</p>										

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'

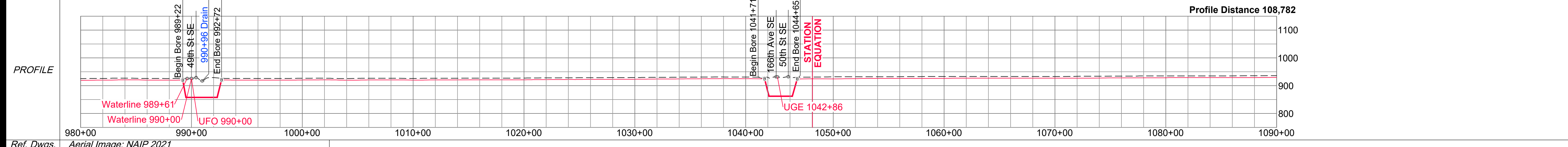


- NOTE:
See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.
- Wetlands
 - Waterbodies
 - Noxious Weeds
 - Saline Soil
 - Permanent Easement
 - Temporary Workspace
 - Additional Temp. Workspace
 - Survey Corridor



ENVIRO	Water Crossing	Name	Crossing Method	scab003e		scab004e		scab005e		wcae004e	
				973+51	983+66	991+98	1016+67	1017+07	1043+09	1059+19	1072+65
	Wetland	Wetland	Bridge	Minor	Wetland	Intermediate	Intermediate	Intermediate	Wetland	Wetland	Wetland
	Environmental Feature			Minor	Wetland	Intermediate	Intermediate	Intermediate	Wetland	Wetland	Wetland
	Miscellaneous/Comments			Approx. 150' ECD	Approx. 50' mats				Approx. 150' ECD	Approx. 50' mats	
	HUC-12 Watershed			090202040605					090202040604		
	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.	
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	10,356	12.75" OD, .250" WT, X65, FBE, TRL
2	644	12.75" OD, .312" WT, X65, FBE w/ARO, TRL

REVISIONS		
No.	Date	Description

WHAHPETON EXPANSION PROJECT

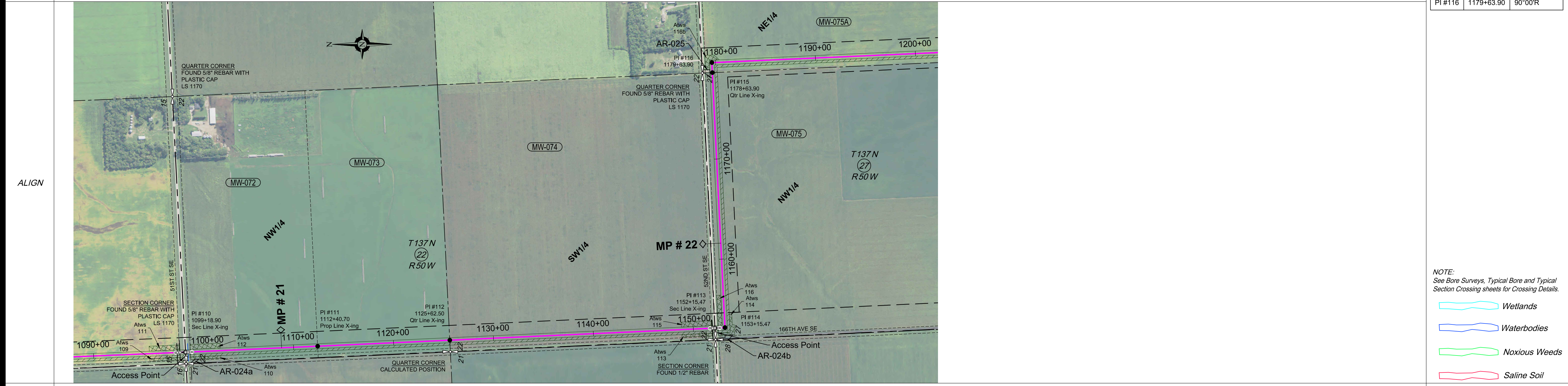
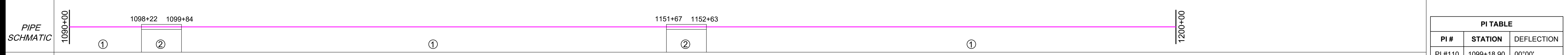
1" = 500' HORIZ.
1" = 200' VERT.

WBI ENERGY TRANSMISSION
An MDU Resources Group company

Sec. 4, 9, 15, 16, T137N, R50W,
5th P.M., Cass Co., North Dakota

Sheet 9 R2

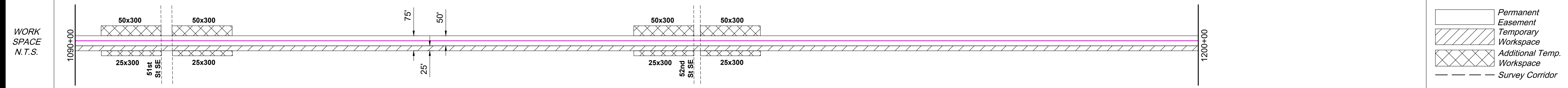
Co, State	SECTIONS 22, 27, T137N, R50W, CASS COUNTY, NORTH DAKOTA					
OWNER	1099+19	MW-072	MW-073	MW-074	MW-075	MW-075A
	N1/2NW1/4 SEC. 22, T137N, R50W 1289' Cultivated - 33' Uncultivated	S1/2 OF THE NW1/4 SEC. 22, T137N, R50W 1322' Cultivated	SW1/4 SEC. 22, T137N, R50W 2620' Cultivated - 33' Uncultivated	PART OF THE NW1/4 SEC. 27, T137N, R50W 2615' Cultivated - 33' Uncultivated	NE1/4 SEC. 27, T137N, R50W 2650' Cultivated	
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 TABLE		
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

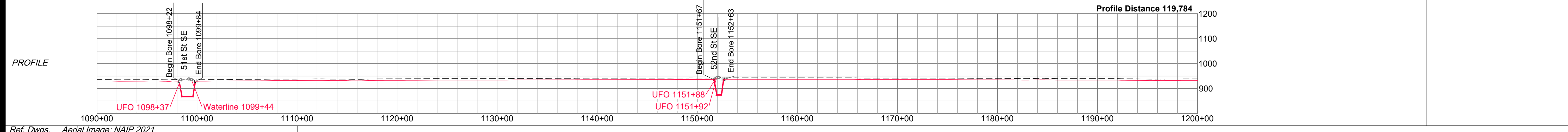
NOTE:
See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.

- Wetlands
- Waterbodies
- Noxious Weeds
- Saline Soil



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

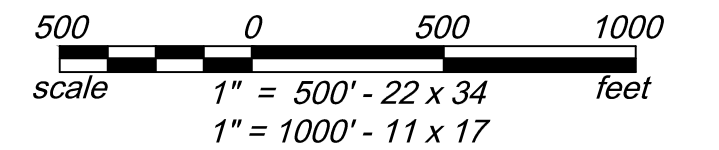
HSE Project # 19-21

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

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

SUMMARY of MATERIALS		
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

REVISIONS		
No.	Date	Description



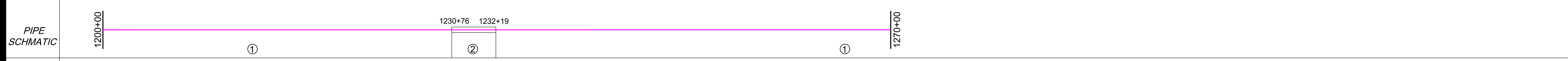
WAHPETON EXPANSION PROJECT

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

Sec. 22, 27, T137N, R50W,
5th P.M., Cass Co., North Dakota

Sheet 10 R2

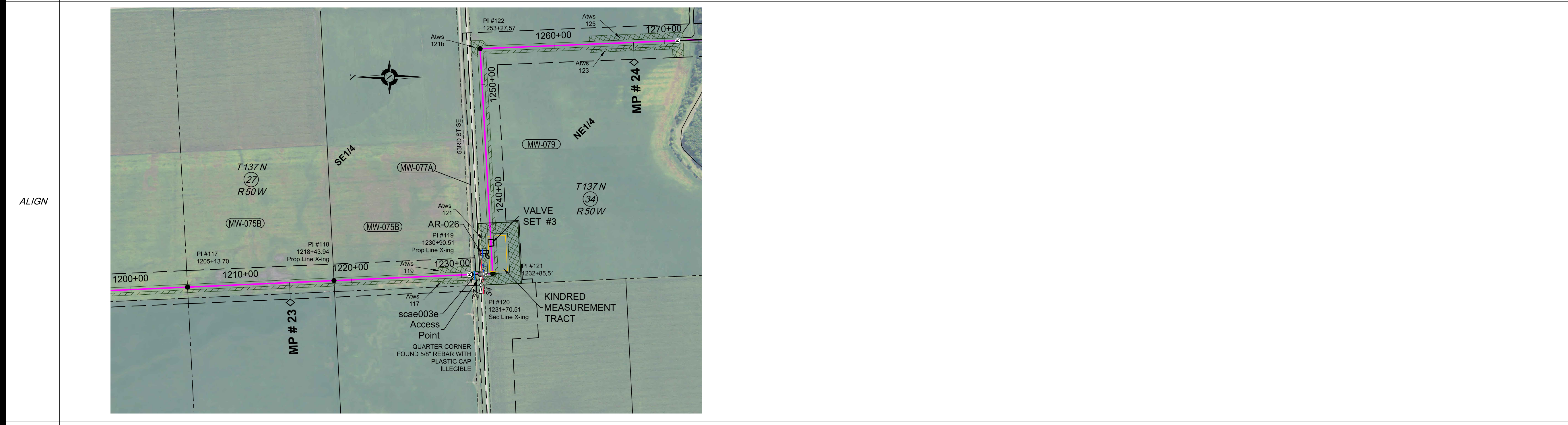
Co, State	SECTIONS 27, 34, T137N, R50W, CASS COUNTY, NORTH DAKOTA				
OWNER	MW-075B N1/2SE1/4 SEC. 27, T137N, R50W 1330' Uncultivated	MW-075C SW1/4SE1/4 SEC. 27, T137N, R50W 1247' Uncultivated	MW-077A SOUTH 80 FEET OF THE SW1/4 SEC. 27, T137N, R50W 80' Uncultivated	MW-079 PART OF NE1/4 NORTH OF RIVER 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		
PI #	STATION	DEFLECTION
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

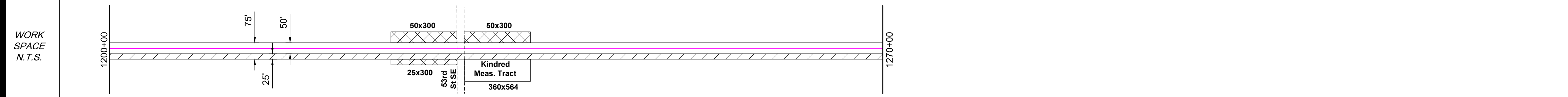
FEATURES

1230+76 Begin Bore
1231+71 53rd St. SE
1231+89 UGT
1232+04 Water
1232+19 End Bore



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

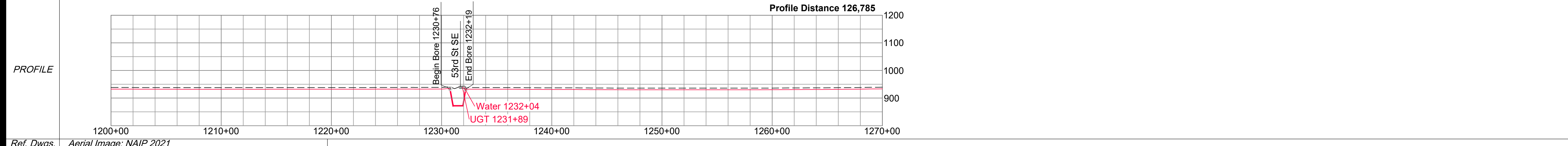
- Wetlands
- Waterbodies
- Noxious Weeds
- Saline Soil



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

ENVIRO	Name	scae003e
	Crossing Method	Bore
	Wetland Name	
	Crossing Survey Extent	1231+18
	Environmental Feature	Minor
	Miscellaneous/Comments	
HUC-12 Watershed	090202040604	
Seeding Mix		

ENVIRONMENTAL NOTES:
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* 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

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	6,857	12.75" OD, .250" WT, X65, FBE, TRL
2	143	12.75" OD, .312" WT, X65, FBE w/ARO, TRL

REVISIONS

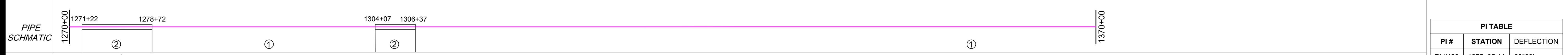
No.	Date	Description

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

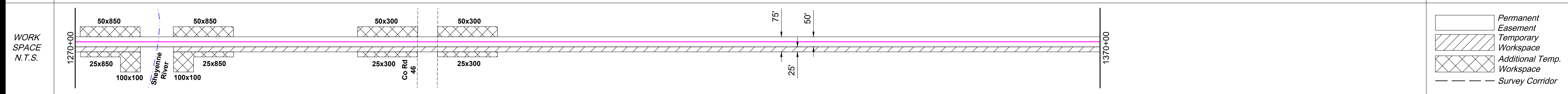
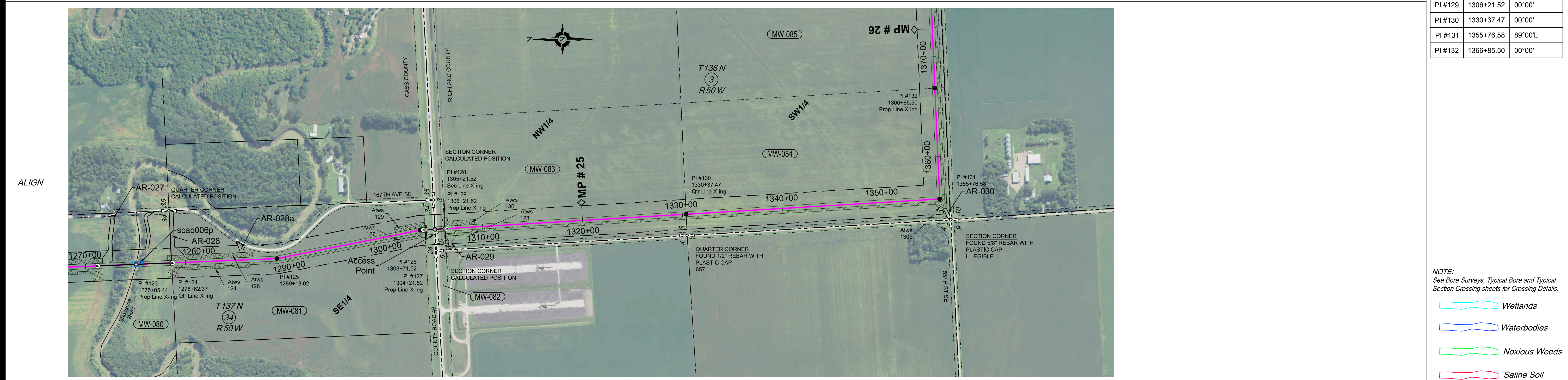
WAHPETON EXPANSION PROJECT

Sec. 27, 34, T137N, R50W, 5th P.M., Cass Co., North Dakota
Sheet 11 R2

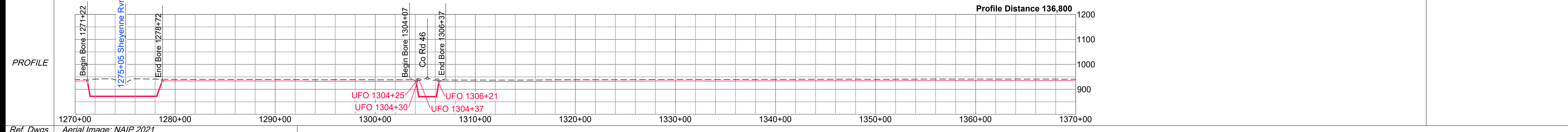
OWNER	MW-080	MW-081	MW-082	MW-083	MW-084	MW-085
1275+05	PART OF NE1/4 SOUTH OF RIVER SEC. 34, T137N, R50W 261' Cultivated - 93' Uncultivated	E1/2 OF THE SE1/4 SEC. 34, T137N, R50W 2555' Cultivated	SEC. 3, T136N, R50W 201' Uncultivated	GOVT LOT 4 & SW1/4 OF THE NW1/4 EXCEPT HIGHWAY SEC. 3, T136N, R50W 2416' Cultivated	W1/2 OF THE SW1/4 SEC. 3, T136N, R50W 3648' Cultivated	E1/2 OF THE SW1/4 SEC. 3, T136N, R50W 1322' Cultivated
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



FEATURES	PI TABLE		
	PI #	STATION	DEFLECTION
1271+22 Begin Bore	PI #123	1275+05.44	00°00'
1275+05 Sheyenne Rvr	PI #124	1278+62.37	00°00'
1278+72 End Bore	PI #125	1289+13.02	9°00'L
1304+07 Begin Bore	PI #126	1303+71.52	8°00'R
1304+25 UFO	PI #127	1304+21.52	00°00'
1304+30 UFO	PI #128	1305+21.52	00°00'
1304+37 UFO	PI #129	1306+21.52	00°00'
1305+22 Co Rd 46	PI #130	1330+37.47	00°00'
1306+21 UFO	PI #131	1355+76.58	89°00'L
1306+26 OHE	PI #132	1366+85.50	00°00'
1306+37 End Bore	PI #133	1366+85.50	00°00'



ENVIRO	Name	scab006p
	Crossing Method	Bore
Wetland	Name	
	Crossing	Survey Extent
Environmental Feature	Survey Extent	1275+05
	Environmental Feature	Intermediate
Miscellaneous/Comments	HUC-12 Watershed	090202040604
	Seeding Mix	090201051005



HARNED SURVEYING & ENGINEERING, INC.
11815 ROBINDALE ROAD
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
- x - x - x - Fence Line
- - - UFO
- - - UG Electric
- - - OHE
- · - 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.

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

WBI ENERGY TRANSMISSION
An MDU Resources Group company

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

Sheet 12 R2

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

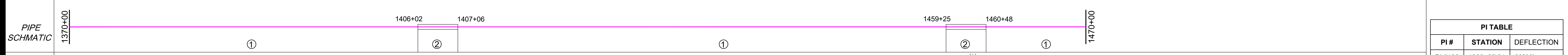
- Wetlands
- Waterbodies
- Noxious Weeds
- Saline Soil
- Permanent Easement
- Temporary Workspace
- Additional Temp. Workspace
- Survey Corridor

ENVIRONMENTAL NOTES:

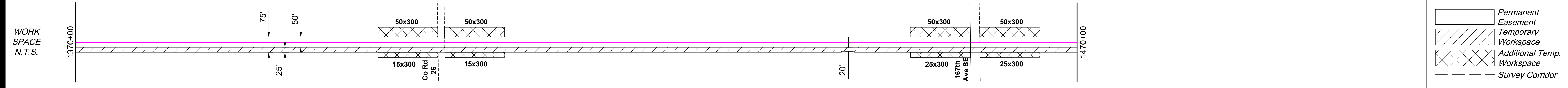
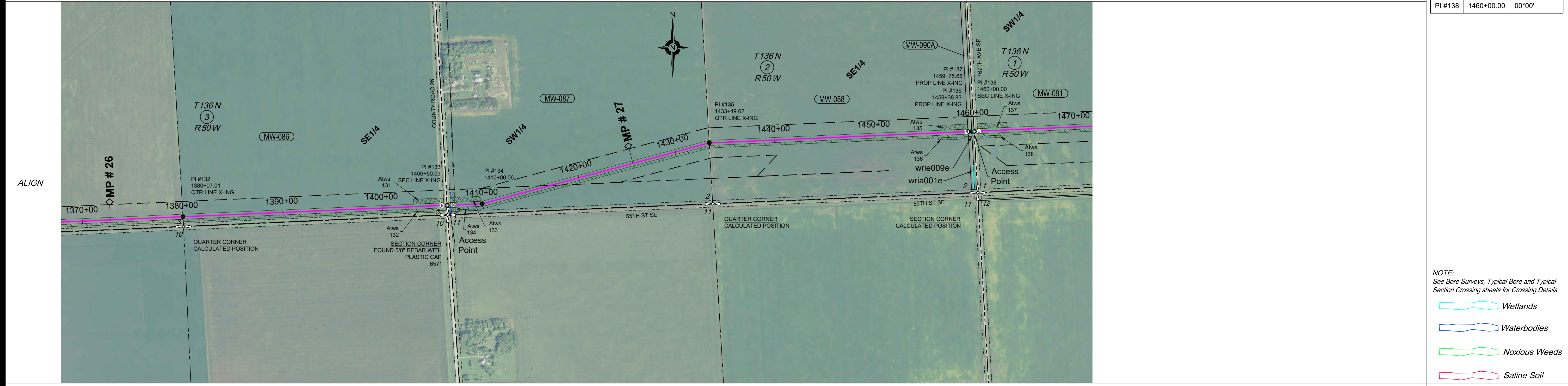
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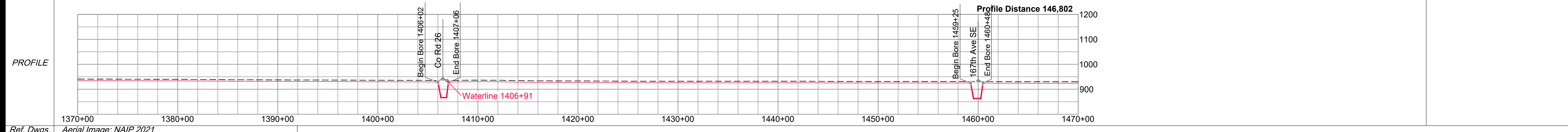
Co, State										
OWNER	1378+59	MW-086 SE 1/4, EXCEPT 1.5 AC DRAIN SEC. 3, T136N, R50W 2610' Cultivated - 33' Uncultivated 2643.02' / 160.18 Rods	1405+02	MW-087 SW1/4, WITH EXCEPTIONS SEC. 2, T136N, R50W 2667' Cultivated - 33' Uncultivated 2699.59' / 163.61 Rods	1433+50	MW-088 SE1/4, WITH EXCEPTIONS SEC. 2, T136N, R50W 2590' Cultivated - 24' Uncultivated 2613.54' / 158.40 Rods	1459+39	MW-090A 3.10 AC DRAIN IN SE1/4 SEC. 2, T136N, R50W 37' Uncultivated 36.83' / 2.23 Rods	1460+00	MW-091 SW1/4 OF THE SW1/4 SEC. 1, T136N, R50W 1300' Cultivated - 33' Uncultivated 1332.62' / 80.76 Rods
RODDAGE										



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'



ENVIRO	Water Crossing	Name			
	Water Crossing	Bridge			
	Wetland Crossing	Name			
	Wetland Crossing	Survey Extent			
	Environmental Feature				
Miscellaneous/Comments					
HUC-12 Watershed					090201051005
Seeding Mix					



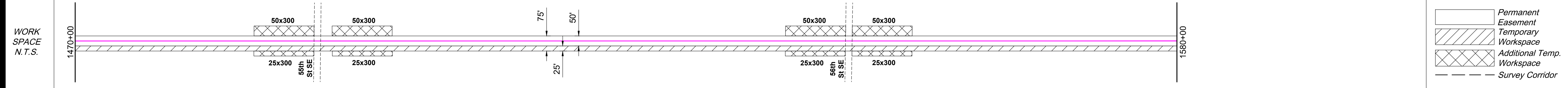
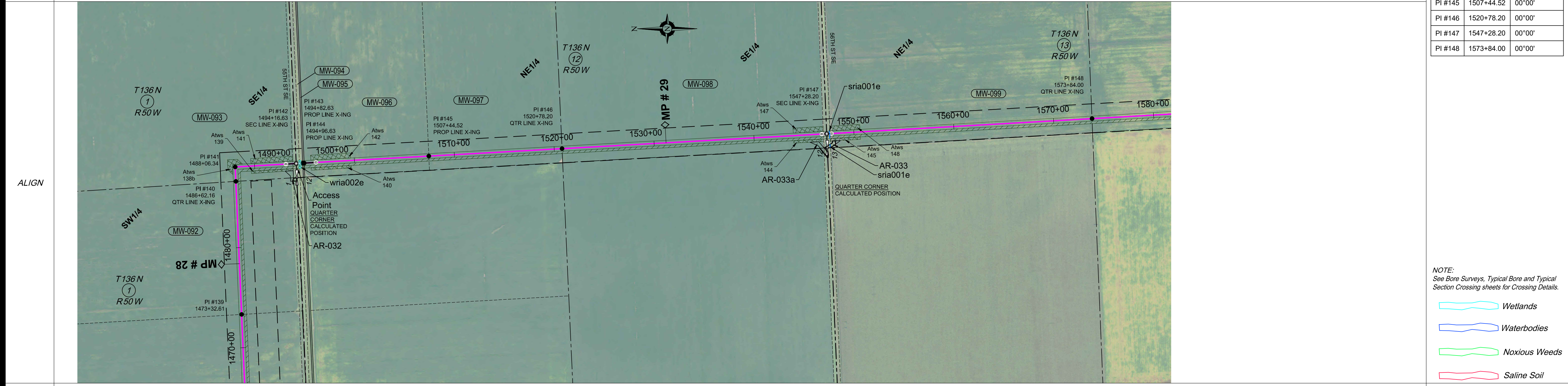
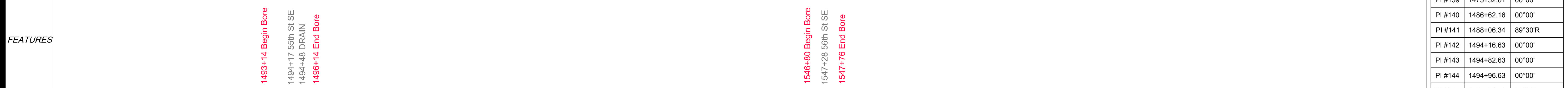
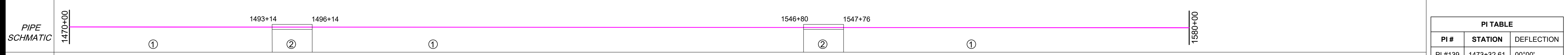
<p>HARNED SURVEYING & ENGINEERING, INC. 11815 ROBINDALE ROAD LOUISVILLE, KY 40243 OFFICE (502) 254-3921 FAX (502) 254-6093</p> <p>HSE Project # 19-21</p>	<p>SURVEY DATUM</p> <p>North Dakota North (NAD 83)(2011) International Foot *Distances are Grid Distances. Combined Scale Factor = 0.99989766 Grid 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>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>WBI ENERGY TRANSMISSION An MDU Resources Group company</p> <p>Sec. 1, 2, 3, T136N, R50W, 5th P.M., Richland Co., North Dakota</p> <p>Sheet 13 R2</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																			

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

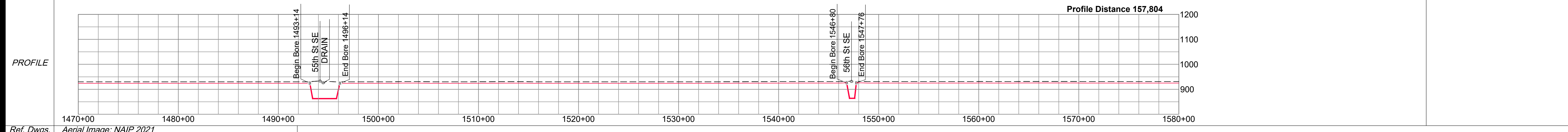
- Wetlands
- Waterbodies
- Noxious Weeds
- Saline Soil
- Permanent Easement
- Temporary Workspace
- Additional Temp. Workspace
- Survey Corridor

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

OWNER	MW-092	MW-093	MW-094	MW-095	MW-096	MW-097	MW-098	MW-099
	E1/2 OF THE SW1/4 SEC. 1, T136N, R50W 1330' Cultivated	SE1/4, WITH EXCEPTIONS SEC. 1, T136N, R50W 751' Cultivated - 33' Uncultivated	N1/2 OF THE NE1/4 WITH EXCEPTIONS SEC. 12, T136N, R50W 66' Uncultivated	S1/4 OF N80° OF THE N1/2 OF THE NE1/4 SEC. 12, T136N, R50W 14' Uncultivated	N1/2 OF THE NE1/4 WITH EXCEPTIONS SEC. 12, T136N, R50W 1248' Cultivated	S1/2 OF THE NE1/4 SEC. 12, T136N, R50W 1334' Cultivated	SE1/4 SEC. 12, T136N, R50W 2650' Cultivated	NE1/4, WITH EXCEPTIONS SEC. 13, T136N, R50W 2596' Cultivated - 60' Uncultivated
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

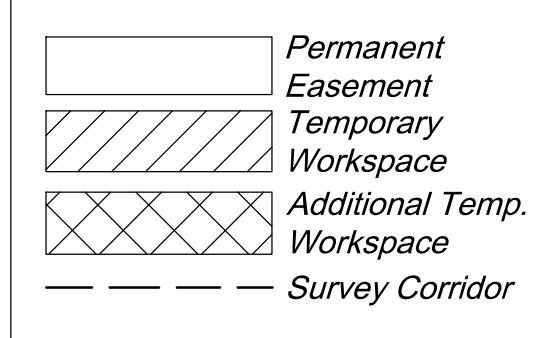
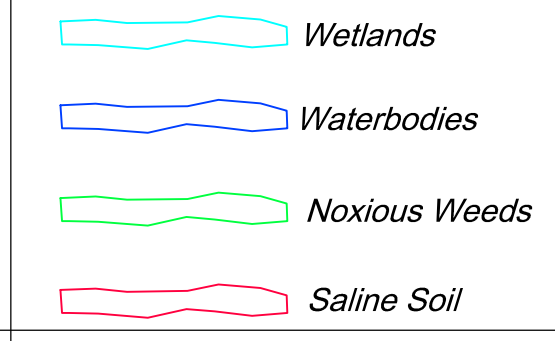


ENVIRO	Name	Crossing Method	Bore	Name	Survey Extent	Environmental Feature	Miscellaneous/Comments	HUC-12 Watershed	Seeding Mix	090201051005
	sria001e	Bore		wria002e	1494+48	Wetland	Approx. 150' ECD Approx. 50' mats			



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.



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

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	10,604	12.75" OD, .250" WT, X65, FBE, TRL
2	396	12.75" OD, .312" WT, X65, FBE w/ARO, TRL

REVISIONS		
No.	Date	Description

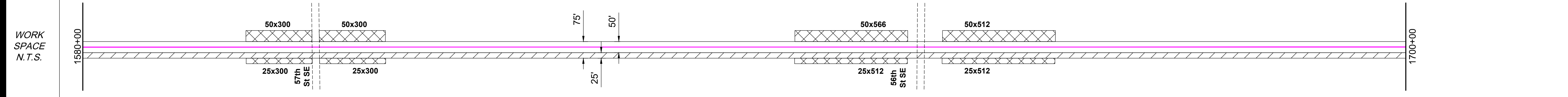
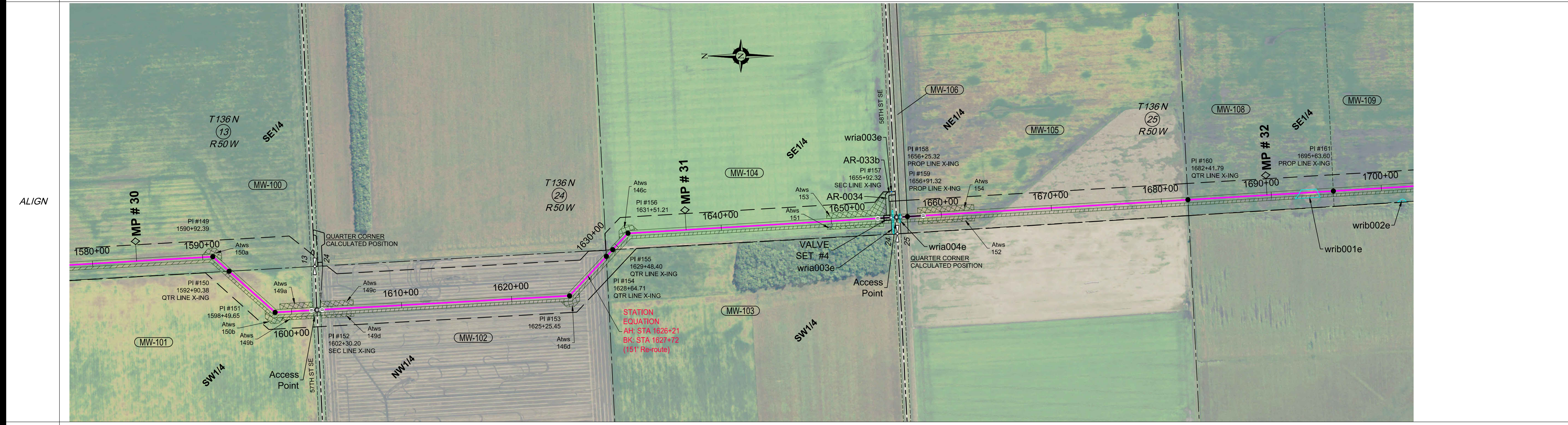
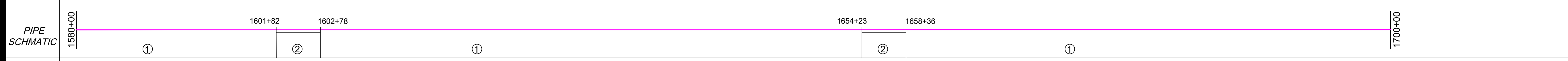
Wahpeton Expansion Project

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

Sec. 1, 12, 13, T136N, R50W,
5th P.M., Richland Co., North Dakota

Sheet 14 R2

OWNER	MW-100 SE1/4, WITH EXCEPTIONS SEC. 13, T136N, R50W 1906' Cultivated	MW-101 WITH EXCEPTIONS SEC. 13, T136N, R50W 883' Cultivated - 57' Uncultivated	MW-102 E1/2 OF THE NW1/4 SEC. 24, T136N, R50W 2750' Cultivated - 33' Uncultivated	MW-103 SW1/4 SEC. 24, T136N, R50W 84' Cultivated	MW-104 SE1/4, WITH EXCEPTIONS SEC. 24, T136N, R50W 2594' Cultivated - 50' Uncultivated	MW-106 SEC. 24, T136N, R50W 66' Uncultivated	MW-105 NE1/4, WITH EXCEPTIONS SEC. 24, T136N, R50W 2550' Cultivated	MW-108 N1/2 OF THE SE1/4, WITH EXCEPTIONS SEC. 25, T136N, R50W 1322' Cultivated	MW-109 S1/2 OF THE SE1/4, WITH EXCEPTIONS SEC. 25, T136N, R50W 1291' Cultivated - 33' Uncultivated
RODDAGE	1906.38' / 115.54 Rods	939.82' / 56.96 Rods	2783.01' / 168.67 Rods	83.69' / 5.07 Rods	2643.92' / 160.24 Rods	66.00' / 4.00 Rods	2550.47' / 154.57 Rods	1321.81' / 80.11 Rods	1323.75' / 80.23 Rods

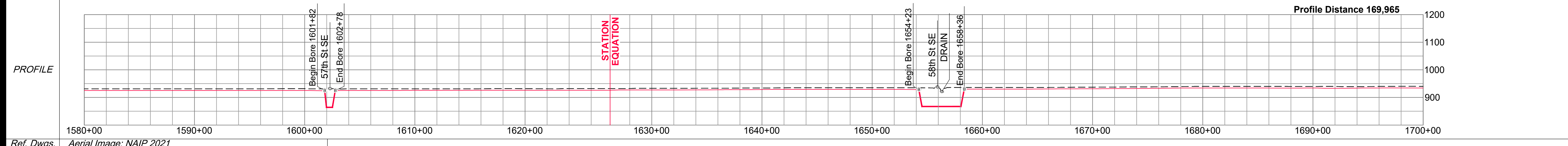


ENVIRO	Name							
	Water Crossing	Bridge						
	Wetland Crossing	Survey Extent						
	Environmental Feature	Miscellaneous/Comments						
HUC-12 Watershed	Seeding Mix							

PI #	STATION	DEFLECTION
PI #149	1590+92.39	45°00'R
PI #150	1592+90.38	00°00'
PI #151	1598+49.65	45°00'L
PI #152	1602+30.20	00°00'
PI #153	1625+25.45	43°30'L
PI #154	1628+64.71	00°00'
PI #155	1629+48.40	00°00'
PI #156	1631+51.21	43°30'R
PI #157	1655+92.32	00°00'
PI #158	1656+25.32	00°00'
PI #159	1656+91.32	00°00'
PI #160	1682+41.79	00°00'
PI #161	1695+63.60	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:
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

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

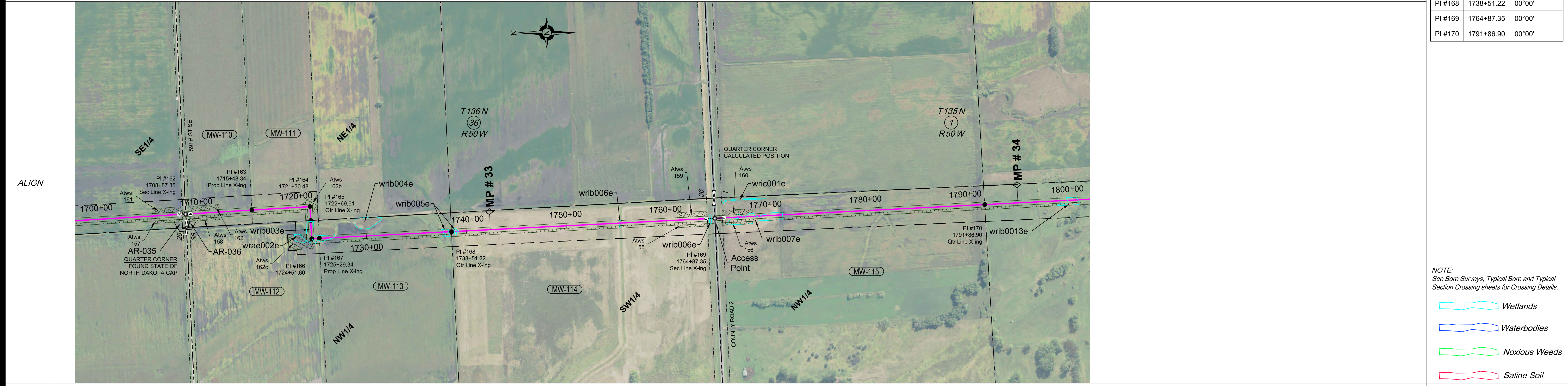
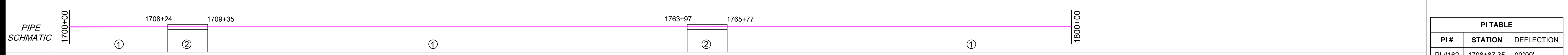
SUMMARY of MATERIALS		
Mark	Quantity	Description
1	11,491	12.75" OD, .250" WT, X65, FBE, TRL
2	509	12.75" OD, .312" WT, X65, FBE w/ARO, TRL

REVISIONS		
No.	Date	Description

WAHPETON EXPANSION PROJECT

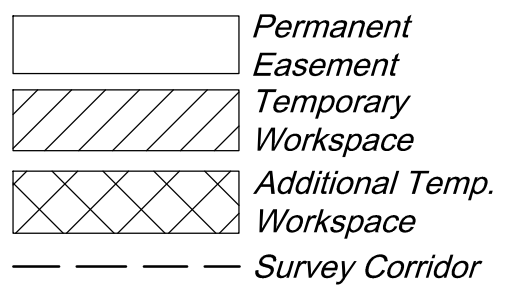
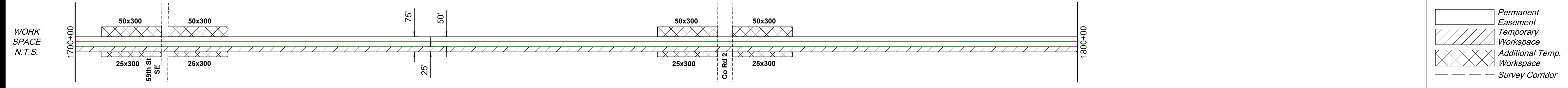
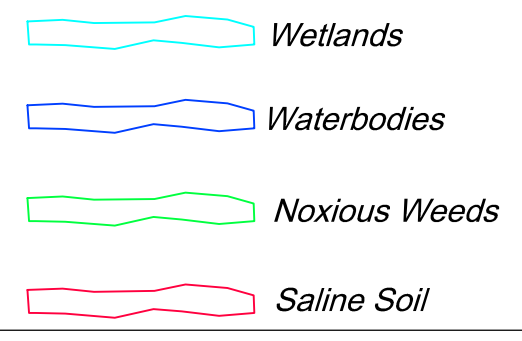
1" = 500' HORIZ.
1" = 200' VERT.

OWNER	MW-110	MW-111	MW-112	MW-113	MW-114	MW-115
1708+87	N1/2 OF THE N1/2, OF THE NE1/4 SEC. 36, T136N, R50W 628' Cultivated - 33' Uncultivated	S1/2 OF THE N1/2, OF THE NE1/4 SEC. 36, T136N, R50W 721' Cultivated	N1/2 OF THE NW1/4 SEC. 36, T136N, R50W 260' Uncultivated	S1/2 OF THE NW1/4, WITH EXCEPTIONS, SEC. 36, T136N, R50W 929' Cultivated - 393' Uncultivated	SW1/4, WITH EXCEPTIONS SEC. 36, T136N, R50W 2529' Cultivated - 107' Uncultivated	GOVT LOT 3 & SE1/4 OF THE NW1/4 SEC. 1, T135N, R50W 2625' Cultivated - 75' Uncultivated
RODDAGE	660.99' / 40.06 Rods	721.17' / 43.71 Rods	259.83' / 15.75 Rods	1321.87' / 80.11 Rods	2636.14' / 159.77 Rods	2699.55' / 163.61 Rods



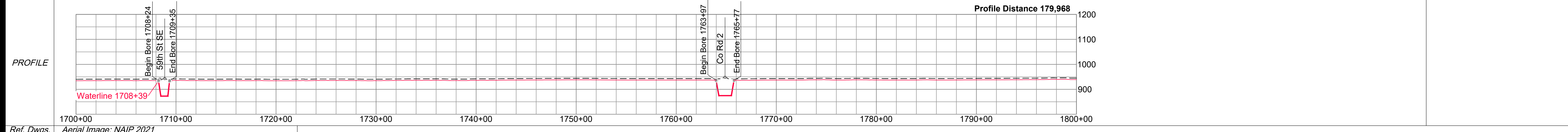
PI TABLE		
PI #	STATION	DEFLECTION
PI #162	1708+87.35	00°00'
PI #163	1715+48.34	00°00'
PI #164	1721+30.48	90°30'R
PI #165	1722+69.51	00°00'
PI #166	1724+51.60	90°00'L
PI #167	1725+29.34	00°00'
PI #168	1738+51.22	00°00'
PI #169	1764+87.35	00°00'
PI #170	1791+86.90	00°00'

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



ENVIRO	Name	Crossing Method	Bridge	Wetland Name	Survey Extent	Environmental Feature	Miscellaneous/Comments	HUC-12 Watershed	Seeding Mix
	wrae002e				1724+37	Wetland	Approx. 200' ECD Approx. 425' mats		
	wrib003e				1722+82	Wetland	Approx. 200' ECD Approx. 425' mats		
	wrib004e				1726+72 1728+94	Wetland	Approx. 200' ECD		
	wrib005e				1731+56 1737+68	Wetland	Approx. 100' ECD Approx. 75' mats	090201051005	
	wrib006e				1755+39 1764+42 1767+12	Wetland	Approx. 200' ECD Approx. 80' mats		
	wrib007e				1771+65 1765+59	Wetland	Approx. 100' ECD Approx. 600' mats		
	wric001e				1770+00	Wetland			
	wrib013e				1800+15 1801+18	Wetland	Approx. 100' ECD Approx. 125' mats		

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



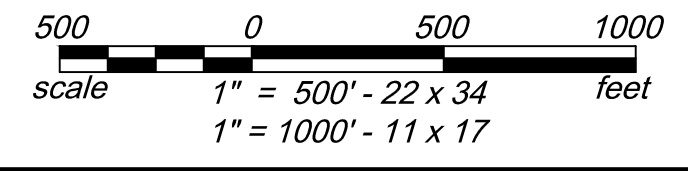
Ref. Dwgs. Aerial Image: NAIP 2021

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	9,709	12.75" OD, .250" WT, X65, FBE, TRL
2	291	12.75" OD, .312" WT, X65, FBE w/ARO, TRL

REVISIONS		
No.	Date	Description



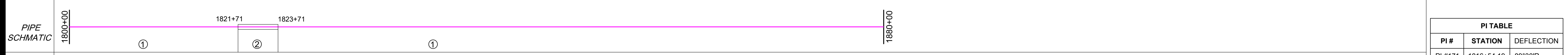
WAHPETON EXPANSION PROJECT

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

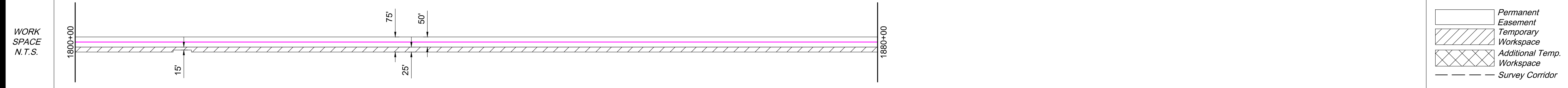
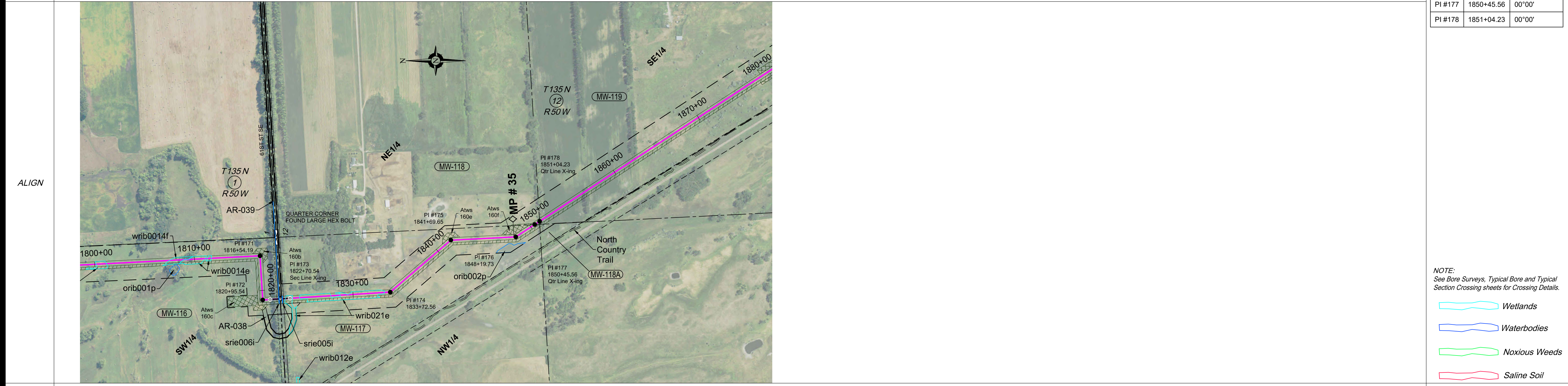
Sec. 36, T136N, R50W,
Sec. 1, T135N, R50W,
5th P.M., Richland Co., North Dakota

Sheet 16 R2

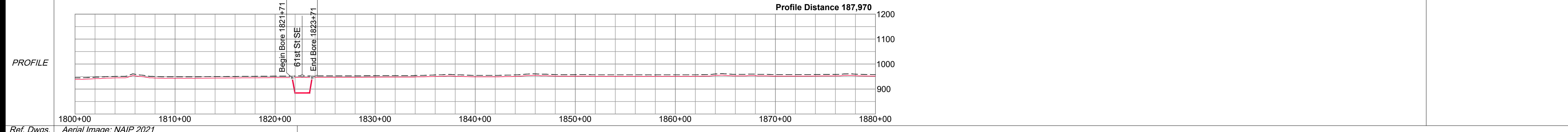
OWNER	MW-116 SW1/4, EXCEPT RAILROAD SEC. 1, T135N, R50W 713' Cultivated - 2371' Uncultivated 3083.64' / 186.89 Rods	MW-117 PART OF NW1/4 LYING NE OF RAILROAD SEC. 12, T135N, R50W 1036' Cultivated - 1739' Uncultivated 2775.02' / 168.18 Rods	MW-118 NE1/4, WITH EXCEPTIONS SEC. 12, T135N, R50W 59' Uncultivated 58.67' / 3.56 Rods	MW-119 SE1/4 LYING EAST OF RAILROAD SEC. 12, T135N, R50W 1037' Cultivated - 1997' Uncultivated 3033.52' / 183.85 Rods
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PI #	STATION	DEFLECTION
PI #171	1816+54.19	89°30'R
PI #172	1820+95.54	90°00'L
PI #173	1822+70.54	00°00'
PI #174	1833+72.56	37°00'L
PI #175	1841+69.65	38°00'R
PI #176	1848+19.73	30°30'L
PI #177	1850+45.56	00°00'
PI #178	1851+04.23	00°00'



ENVIRO	Name	Crossing Method	Bridge	Wetland Name	Survey Extent	Environmental Feature	Miscellaneous/Comments	HUC-12 Watershed	Seeding Mix
	orib001p								
	wrib014f								
	wrib014e								
	orib002p								
	srie006i								
	srie005i								
	wrib012e								
	wrib021e								
	orib002p								



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
- x - x - x - Fence Line
- · · · UG Fiber Optic
- · · · UG Electric
- · · · Overhead Elec
- · · · Existing Pipeline
- · · · Dirt Road

SUMMARY of MATERIALS

Mark	Quantity	Description
1	7,800	12.75" OD, .250" WT, X65, FBE, TRL
2	200	12.75" OD, .312" WT, X65, FBE w/ARO, TRL

REVISIONS

No.	Date	Description

WHAHPETON EXPANSION PROJECT

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

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

WBI ENERGY TRANSMISSION
An MDU Resources Group company

Sec. 1, 12, T135N, R50W,
5th P.M., Richland Co., North Dakota

Sheet 17 R2

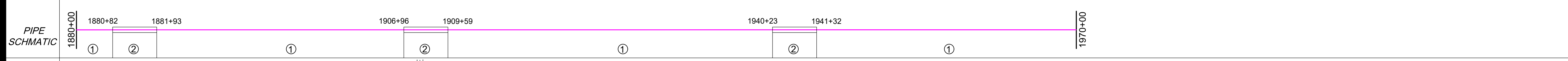
NOTE:
See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.

- 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	SECTION 13, T135N, R50W, SECTIONS 18, 19, T135N, R49W, RICHLAND COUNTY, NORTH DAKOTA				
OWNER	MW-120 NE1/4 LYING EAST OF RAILROAD WITH EXCEPTIONS SEC. 13, T135N, R50W 2683' Uncultivated	MW-121 GOVT LOT 2 & SE1/4 OF THE NE1/4 SEC. 18, T135N, R49W 210' Uncultivated	MW-123 PART OF THE SW1/4 SEC. 18, T135N, R49W 739' Uncultivated	MW-124 GOVT LOTS 3-4 & E1/2 OF THE SW1/4 WITH EXCEPTIONS SEC. 18, T135N, R49W 2308' Uncultivated	MW-125 ALL LYING EAST OF RAILROAD WITH EXCEPTIONS SEC. 19, T135N, R49W 3507' Cultivated - 619' Uncultivated
RODDAGE	2682.54' / 162.58 Rods	209.85' / 12.72 Rods	739.49' / 44.82 Rods	2308.01' / 139.88 Rods	4126.49' / 250.27 Rods



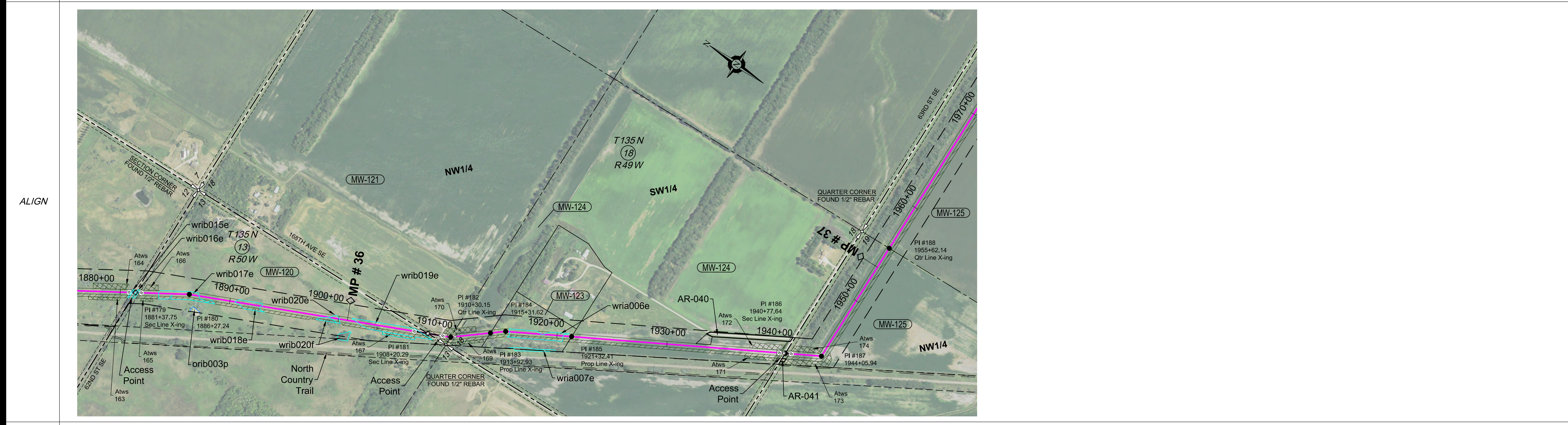
FEATURES

1880+82 1881+93
1881+38 62nd St SE
1881+93 End Bore

1906+96 1909+59
1906+20 168th Ave SE
1909+34 Driveway
1909+59 End Bore
1910+70 Fence

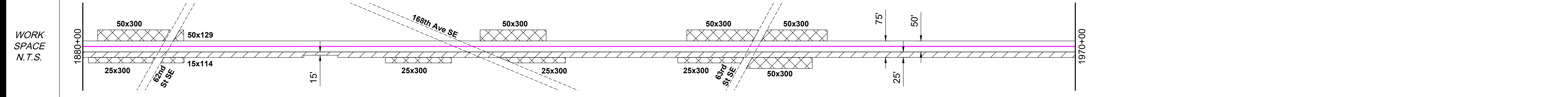
1940+23 1941+32
1940+32 Fence
1940+64 63rd St SE
1941+32 End Bore

PI TABLE		
PI #	STATION	DEFLECTION
PI #179	1881+37.75	00°00'
PI #180	1886+27.24	7°30'R
PI #181	1908+20.29	00°00'
PI #182	1910+30.15	15°30'L
PI #183	1913+92.93	00°00'
PI #184	1915+31.62	10°30'R
PI #185	1921+32.41	00°00'
PI #186	1940+77.64	00°00'
PI #187	1944+05.94	62°30'L
PI #188	1955+62.14	00°00'



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

- Wetlands
- Waterbodies
- Noxious Weeds
- Saline Soil



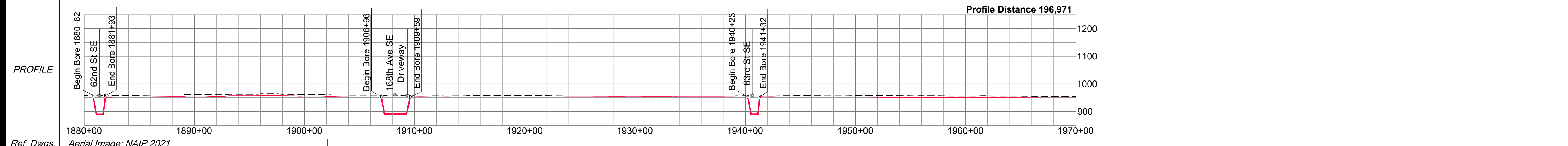
- Permanent Easement
- Temporary Workspace
- Additional Temp. Workspace
- Survey Corridor

ENVIRO	Water Crossing Name	Crossing Method	Well Name																	
			wrib015e	wrib016e	wrib017e	wrib018e	wrib020f	wrib020e	wrib019e	wria006e	wria007e									
			1881+08	1801+53	1883+48	1887+16	1896+73	1890+50	1892+92	1897+92	1901+36	1899+08	1901+18	1901+68	1909+47	1915+68	1926+90	1915+71	1919+96	
			Wetland	Wetland	Wetland	Wetland	Pond	Wetland	Wetland	Wetland	Wetland	Wetland	Wetland	Wetland	Wetland	Wetland	Wetland	Wetland	Wetland	
			Approx. 100' ECD	Approx. 100' ECD	Approx. 100' ECD	Approx. 400' mats	Approx. 100' ECD	Approx. 275' mats	Approx. 50' ECD	Approx. 40' mats	Approx. 200' mats	Approx. 100' ECD	Approx. 100' ECD	Approx. 625' mats	Approx. 100' ECD	Approx. 500' mats				
			HUC-12 Watershed			090201051005			090201051004			090201051004								
			Seeding Mix																	

ENVIRONMENTAL NOTES:

- Wetlands depicted on these sheets represent actual field survey data or NWI.
- 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.

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	8,518	12.75" OD, .250" WT, X65, FBE, TRL
2	482	12.75" OD, .312" WT, X65, FBE w/ARO, TRL

REVISIONS

No.	Date	Description

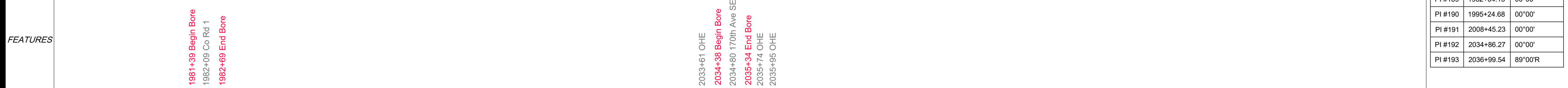
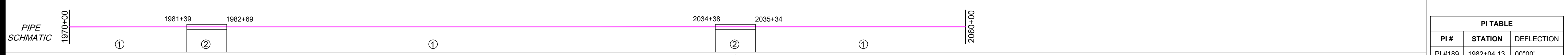
Scale: 1" = 500' HORIZ.
1" = 200' VERT.

WAHPETON EXPANSION PROJECT

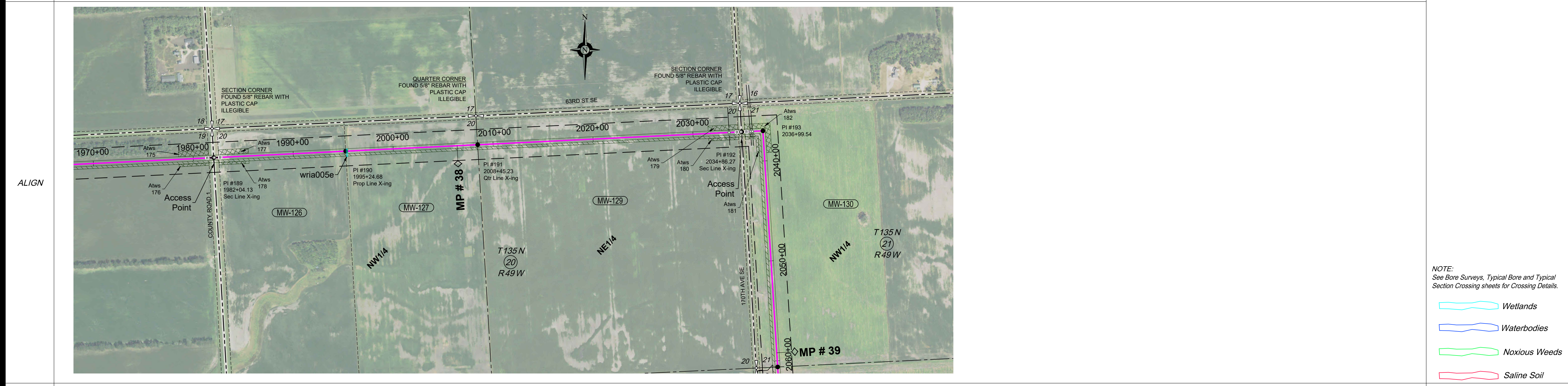
Sec. 13, T135N, R50W,
Sec. 18, 19, T135N, R49W,
5th P.M., Richland Co., North Dakota

Sheet 18 R2

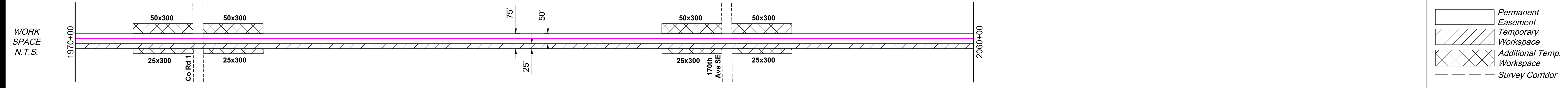
OWNER	1982+04	MW-126 W1/2 OF THE W1/2 SEC. 20, T135N, R49W 1288' Cultivated - 33' Uncultivated	1995+25	MW-127 E1/2 OF THE W1/2, WITH EXCEPTIONS SEC. 20, T135N, R49W 1321' Cultivated	2008+45	MW-129 NE1/4 SEC. 20, T135N, R49W 2608' Cultivated - 33' Uncultivated	2034+86	MW-130 W1/2 OF THE NW1/4 SEC. 21, T135N, R49W 2542' Cultivated - 33' Uncultivated	2060+00
RODDAGE		1320.55' / 80.03 Rods		1320.55' / 80.03 Rods		2641.04' / 160.06 Rods		2575.35' / 156.08 Rods	



PI TABLE		
PI #	STATION	DEFLECTION
PI #189	1982+04.13	00°00'
PI #190	1995+24.68	00°00'
PI #191	2008+45.23	00°00'
PI #192	2034+86.27	00°00'
PI #193	2036+99.54	89°00'R



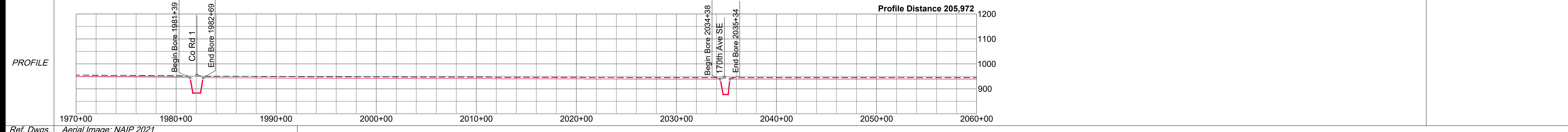
- NOTE:
See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.
- Wetlands
 - Waterbodies
 - Noxious Weeds
 - Saline Soil



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

ENVIRO	Water Crossing	Name	
		Crossing Method	Bridge
	Wetland Crossing	Name	wria005e
		Survey Extent	1995+37
	Environmental Feature	Wetland	
	Miscellaneous/Comments		Approx. 100' ECD Approx. 40' mats
	HUC-12 Watershed		090201051004
	Seeding Mix		

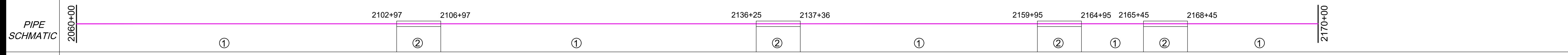
ENVIRONMENTAL NOTES:
1. Wetlands depicted on these sheets represent actual field survey data or NWI.
2. Actual wetland or stream width may vary at time of construction.
* Open ("WET") trench if no distinguishable flow at the time of construction, dry crossing method if distinguishable flow at time of 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	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: <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 	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>8,774</td> <td>12.75" OD, .250" WT, X65, FBE, TRL</td> </tr> <tr> <td>2</td> <td>226</td> <td>12.75" OD, .312" WT, X65, FBE w/ARO, TRL</td> </tr> </tbody> </table>	Mark	Quantity	Description	1	8,774	12.75" OD, .250" WT, X65, FBE, TRL	2	226	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				WHAHPETON EXPANSION PROJECT	 1" = 500' HORIZ. 1" = 200' VERT.	 An MDU Resources Group company
	Mark	Quantity	Description																			
1	8,774	12.75" OD, .250" WT, X65, FBE, TRL																				
2	226	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	Sec. 20, 21, T135N, R49W, 5th P.M., Richland Co., North Dakota Sheet 19 R2																				

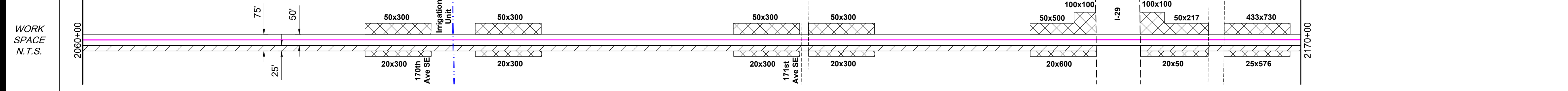
Co, State	SECTIONS 21, 22, 27, T135N, R49W, RICHLAND COUNTY, NORTH DAKOTA																				
OWNER	2060+62	MW-131 SW1/4 SEC. 21, T135N, R49W 4981' Cultivated			2110+42	MW-132 S1/2 OF THE S1/2 OF THE SE1/4 SEC. 21, T135N, R49W 2592' Cultivated - 53' Uncultivated			2136+88	MW-133 SW1/4, WITH EXCEPTIONS SEC. 22, T135N, R49W 2324' Cultivated - 33' Uncultivated		2160+45	MW-140 SEC. 22, T135N, R49W 400' Uncultivated		2164+45	MW-135 SE1/4 EXC 1-29 ROW SEC. 22, T135N, R49W 200' Cultivated		2166+44	MW-137 S7/8 OF N108.5' LESS E33' & W116.8' OF NE1/4 SEC. 27, T135N, R49W 108' Uncultivated		2167+53
RODDAGE	4980.78' / 301.87 Rods		2645.44' / 160.33 Rods			2356.79' / 142.84 Rods		400.04' / 24.24 Rods		199.69' / 12.10 Rods		108.26' / 6.68 Rods									



PI TABLE		
PI #	STATION	DEFLECTION
PI #194	2060+61.63	00°00'
PI #195	2086+10.22	89°30'L
PI #196	2110+42.40	00°00'
PI #197	2136+87.85	00°00'
PI #198	2160+44.64	00°00'
PI #199	2163+28.17	00°00'
PI #200	2164+44.67	00°00'
PI #201	2165+44.68	89°30'R
PI #202	2166+44.36	00°00'
PI #203	2167+52.62	00°00'

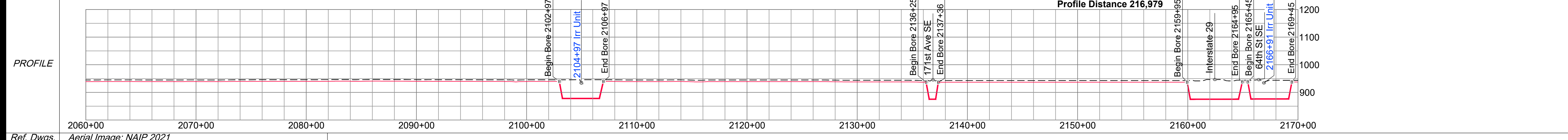
NOTE:
See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.

- Wetlands
- Waterbodies
- Noxious Weeds
- Saline Soil



ENVIRO	Water Crossing	Name	sria002e	090201051004
	Bridge	Crossing Method	Bore	
ENVIRO	Wetland Crossing	Name	sric002p	090201051003
	Survey Extent	Environmental Feature	Bore	
ENVIRO	Miscellaneous/Comments		2166+91	
	HUC-12 Watershed		Intermediate	
	Seeding Mix			

ENVIRONMENTAL NOTES:
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* 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

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	9,589	12.75" OD, .250" WT, X65, FBE, TRL
2	911	12.75" OD, .312" WT, X65, FBE w/ARO, TRL
3	500	12.75" OD, .500" WT, X65, FBE, TRL

REVISIONS		
No.	Date	Description

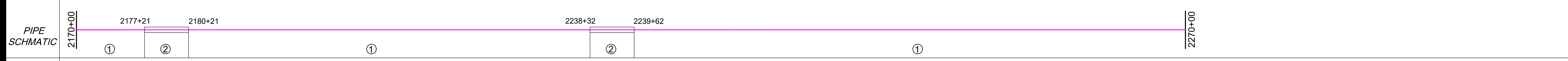
WAHPETON EXPANSION PROJECT

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

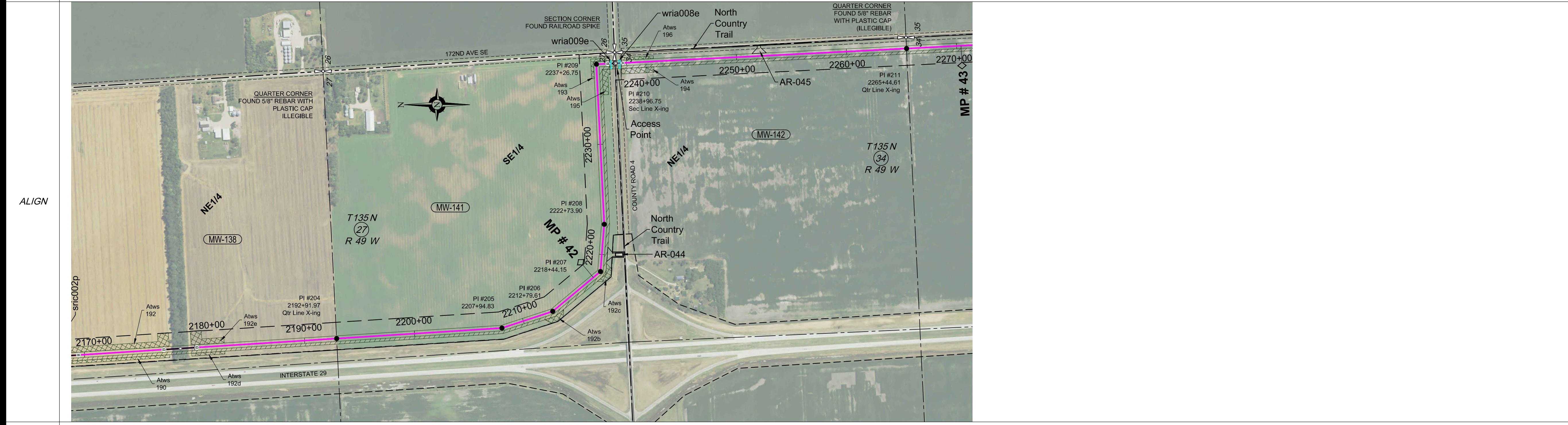
Sec. 21, 22, 27, T135N, R49W,
5th P.M., Richland Co., North Dakota

Sheet 20 R2

Co, State: MW-138, MW-141, MW-142
 OWNER: NE 1/4 EXC 4.49A DRN, 6.62A 1-29 ROW & 10.89A SEC. 27, T135N, R49W 2387' Cultivated - 152' Uncultivated 2539.35' / 153.90 Rods
 SE 1/4 EXC 1-29 ROW SEC. 27, T135N, R49W 4572' Cultivated - 33' Uncultivated 4604.78' / 279.08 Rods
 NE 1/4 EXC 1-29 ROW & 6.61A SEC. 34, T135N, R49W 2568' Cultivated - 80' Uncultivated 2647.85' / 160.48 Rods



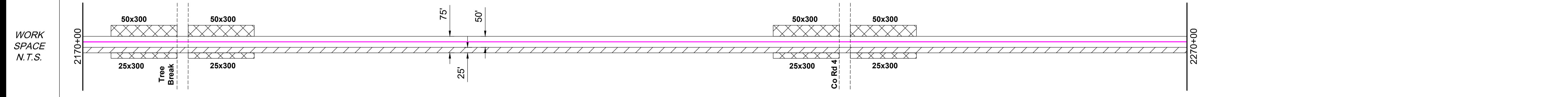
FEATURES: 2177+21 Begin Bore, 2178+71 Shelter Belt, 2180+21 End Bore, 2238+32 Begin Bore, 2238+50 UFO, 2238+97 Co Rd 4, 2239+04 Trail, 2239+52 OHE, 2239+62 End Bore



PI TABLE		
PI #	STATION	DEFLECTION
PI #204	2192+91.97	00°00'
PI #205	2207+94.83	14°30'L
PI #206	2212+79.61	21°30'L
PI #207	2218+44.15	45°30'L
PI #208	2222+73.90	7°30'L
PI #209	2237+26.75	90°00'R
PI #210	2238+96.75	00°00'
PI #211	2265+44.61	00°00'

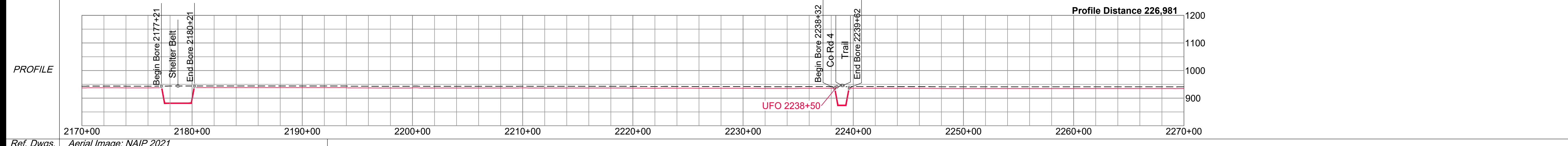
NOTE: See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.

- Wetlands
- Waterbodies
- Noxious Weeds
- Saline Soil



Water Crossing	Name	Crossing Method
	wria009e	Bridge
	wria008e	Bridge
Wetland	Name	Crossing Survey Extent
	wria009e	2238+59
	wria008e	2238+38
Environmental Feature	Wetland	Environmental Feature
	Wetland	Wetland
Miscellaneous/Comments	Approx. 100' ECD	Approx. 100' ECD
	Approx. 40' mats	Approx. 40' mats
HUC-12 Watershed	090201051003	
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	9,570	12.75" OD, .250" WT, X65, FBE, TRL
2	430	12.75" OD, .312" WT, X65, FBE w/ARO, TRL

REVISIONS

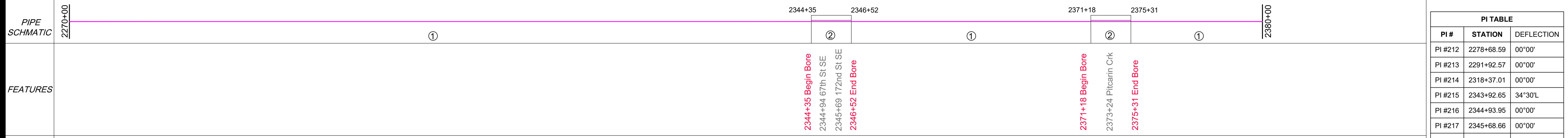
No.	Date	Description

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

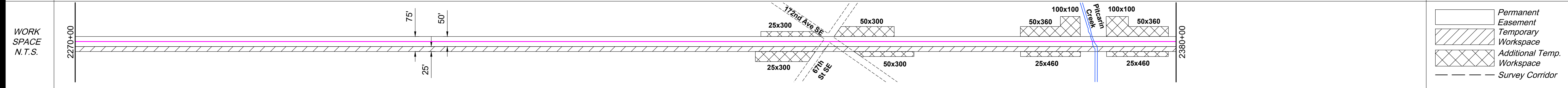
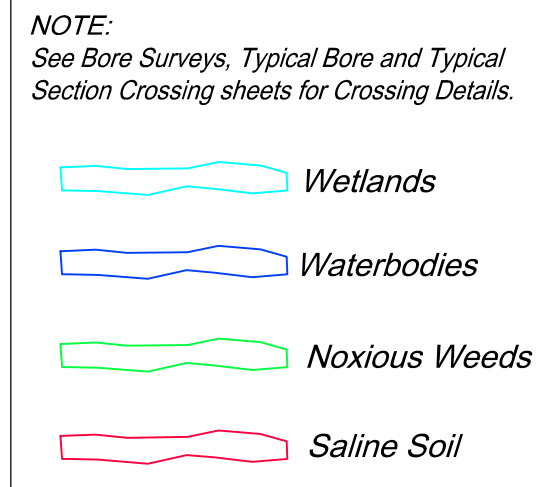
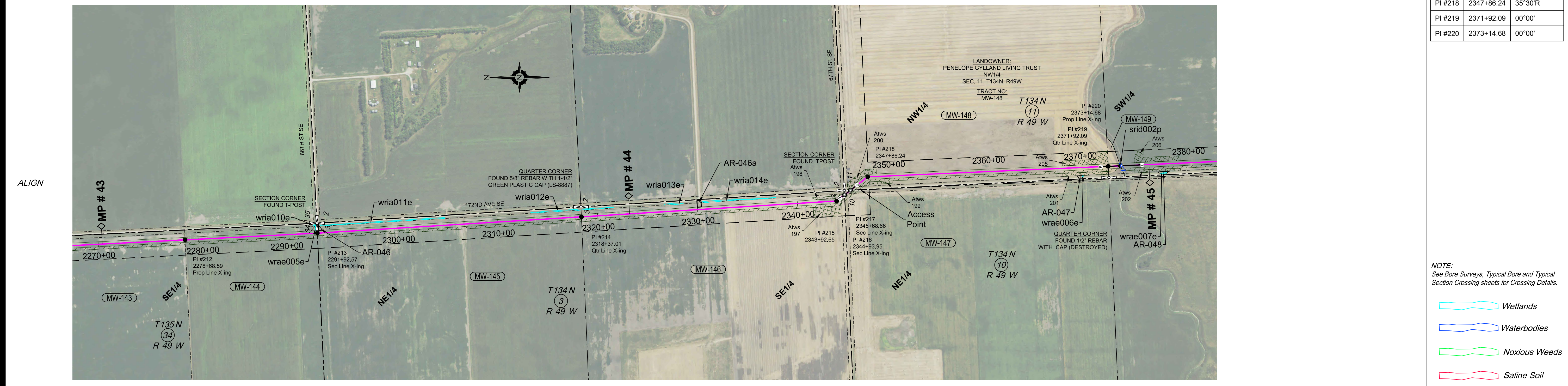
WAHPETON EXPANSION PROJECT

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

Co, State	SECTION 34, T135N, R49W, SECTIONS 3, 10, 11, T134N, R49W, RICHLAND COUNTY, NORTH DAKOTA									
OWNER	MW-143	MW-144	MW-145	MW-146	MW-147	MW-148	MW-149			
RODDAGE	1323.98' / 80.24 Rods	1323.98' / 80.24 Rods	2644.45' / 160.27 Rods	2656.94' / 161.03 Rods	74.716' / 4.52 Rods	2623.43' / 159.00 Rods	122.59' / 7.43 Rods			

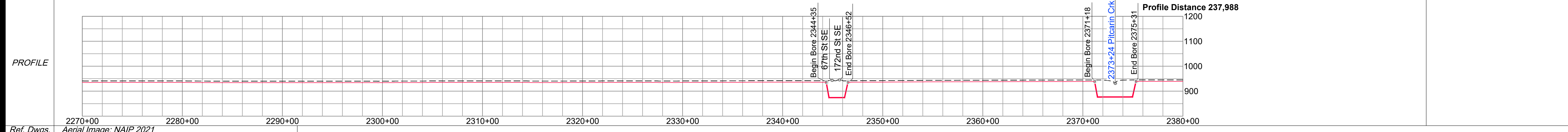


PI TABLE		
PI #	STATION	DEFLECTION
PI #212	2278+68.59	00°00'
PI #213	2291+92.57	00°00'
PI #214	2318+37.01	00°00'
PI #215	2343+92.65	34°30'L
PI #216	2344+93.95	00°00'
PI #217	2345+68.66	00°00'
PI #218	2347+86.24	35°30'R
PI #219	2371+92.09	00°00'
PI #220	2373+14.68	00°00'



ENVIRO	Water Crossing		Wetland										Miscellaneous/Comments	
	Name	Method	wria010e	wrae005e	wria011e	wria012e	wria013e	wria014e	wrae006e	wrae007e				
	Bridge		Wetland	Wetland	Wetland	Wetland	Wetland	Wetland	Wetland	Intermediate	Wetland			
	Survey Extent		2291+71	2291+76	2292+22	2304+72	2313+36	2321+63	2326+71	2328+63	2330+38	2337+88	2373+34	2377+45
	Environmental Feature		Wetland	Wetland	Wetland	Wetland	Wetland	Wetland	Wetland	Wetland	Wetland	Intermediate	Wetland	
	HUC-12 Watershed		090201051003										090201051002	
	Seeding Mix													

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Ref. Dwgs. Aerial Image: NAIP 2021

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 = 0.99999766
 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

SUMMARY of MATERIALS		
Mark	Quantity	Description
1	10,370	12.75" OD, .250" WT, X65, FBE, TRL
2	430	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

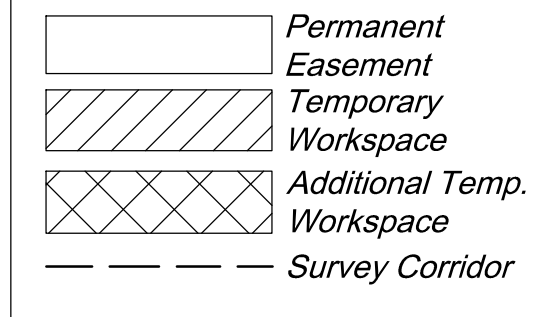
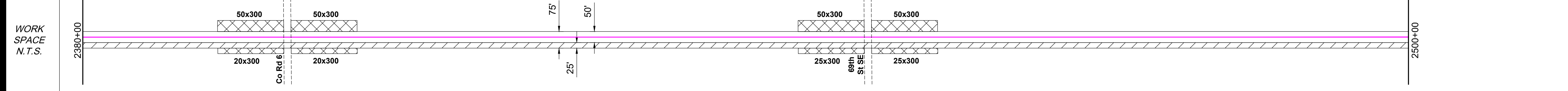
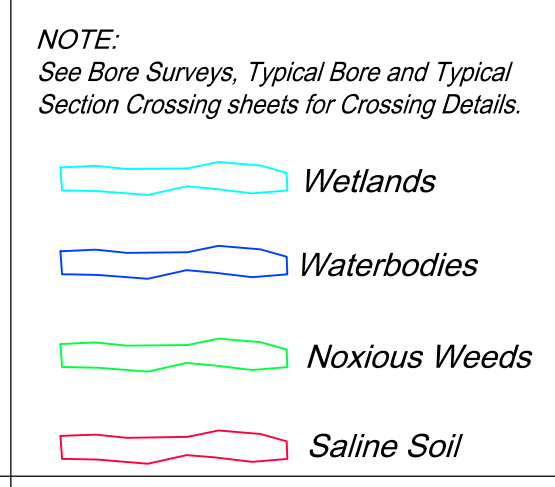
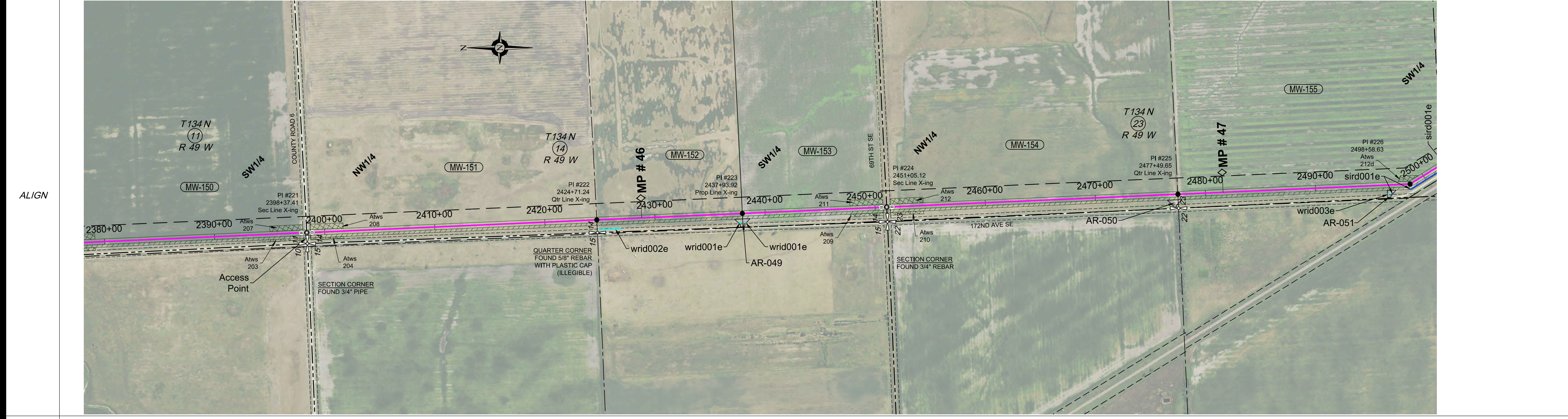
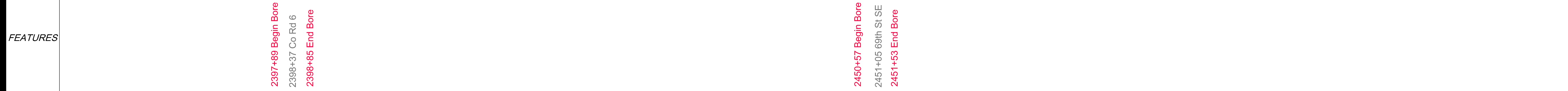
Sec. 34, T135N, R49W,
 Sec. 3, 10, 11, T134N, R49W,
 5th P.M., Richland Co., North Dakota

Sheet 22 R2

Co, State	SECTIONS 11, 14, 23, T134N, R49W, RICHLAND COUNTY, NORTH DAKOTA					
OWNER	MW-150	MW-151	MW-152	MW-153	MW-154	MW-155
RODDAGE	SW1/4, WITH EXCEPTIONS SEC. 11, T134N, R49W 2490' Cultivated - 33' Uncultivated 2522.73' / 152.89 Rods	NW1/4 SEC. 14, T134N, R49W 2601' Cultivated - 33' Uncultivated 2633.83' / 159.63 Rods	N 1/2 OF THE SW1/4 SEC. 14, T134N, R49W 1323' Cultivated 1322.68' / 80.16 Rods	S 1/2 OF THE SW1/4 SEC. 14, T134N, R49W 1278' Cultivated - 353' Uncultivated 1311.20' / 79.47 Rods	NW1/4 SEC. 23, T134N, R49W 2510' Cultivated - 135' Uncultivated 2644.53' / 160.28 Rods	SW1/4 EXC 1-29 ROW SEC. 23, T134N, R49W 4821' Cultivated - 73' Uncultivated 4894.17' / 296.62 Rods

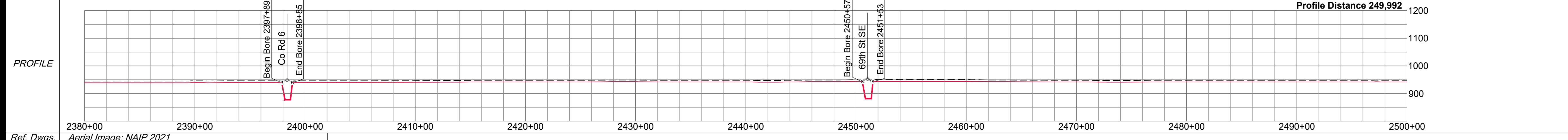


PI TABLE		
PI #	STATION	DEFLECTION
PI #221	2398+37.41	00°00'
PI #222	2424+71.24	00°00'
PI #223	2437+93.92	00°00'
PI #224	2451+05.12	00°00'
PI #225	2477+49.65	00°00'
PI #226	2498+58.63	29°00'L



ENVIRO	Name	Crossing Method	Wetland Name	Survey Extent	Environmental Feature	Miscellaneous/Comments	HUC-12 Watershed	Seeding Mix	srid001e open-cut
			wrid002e		Wetland		090201051002		
			wrid001e		Wetland	Approx. 50' ECD	090201051001		
			wrid003e		Wetland	Approx. 50' ECD			Minor

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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

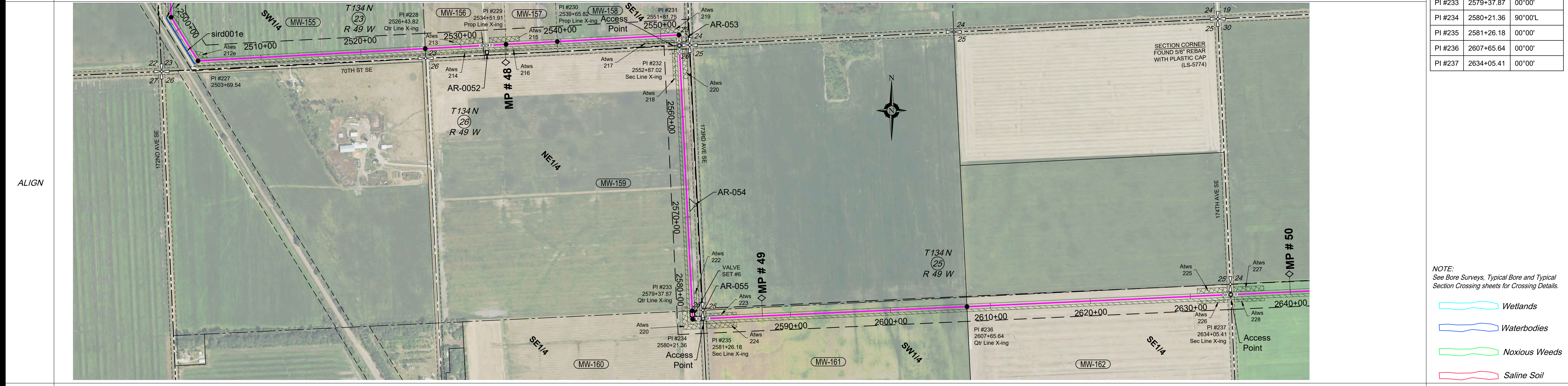
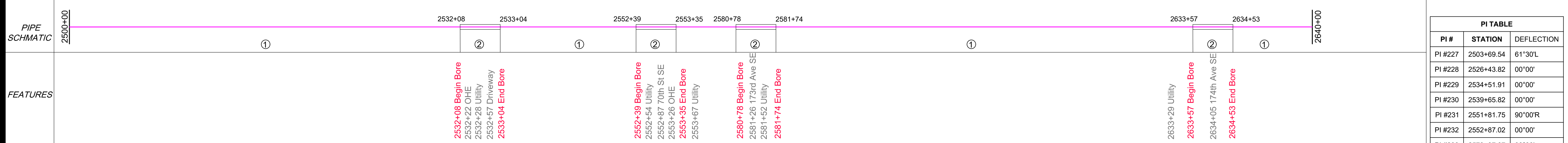
SUMMARY of MATERIALS		
Mark	Quantity	Description
1	11,808	12.75" OD, .250" WT, X65, FBE, TRL
2	192	12.75" OD, .312" WT, X65, FBE w/ARO, TRL

REVISIONS		
No.	Date	Description

WAHPETON EXPANSION PROJECT

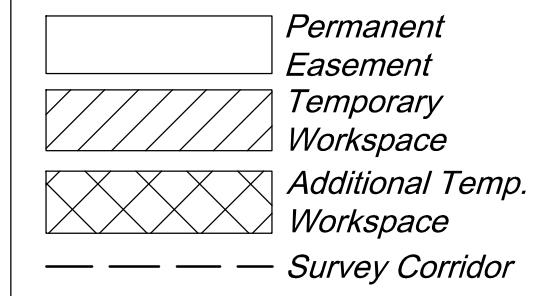
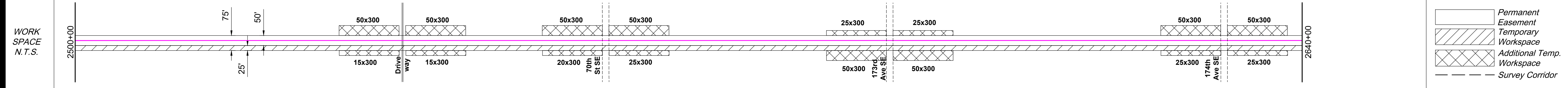
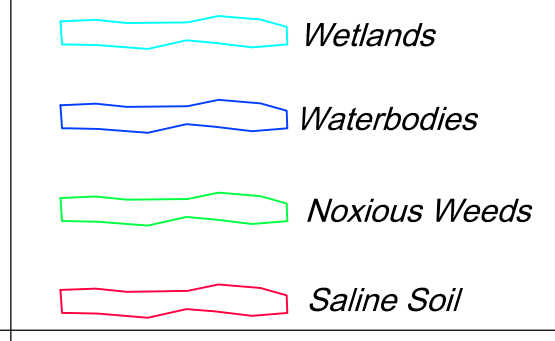
1" = 500' HORIZ.
1" = 200' VERT.

Co, State	SECTIONS 23, 25, 26, T134N, R49W, RICHLAND COUNTY, NORTH DAKOTA											
OWNER	MW-155	MW-156	MW-157	MW-158	MW-159	MW-160	MW-161	MW-162				
RODDAGE	SW1/4 EXC 1-29 ROW SEC. 23, T134N, R49W 4771' Cultivated - 73' Uncultivated	PART OF THE SE1/4 SEC. 23, T134N, R49W 781' Cultivated - 27' Uncultivated	W1/2 OF THE SE1/4 WITH EXCEPTIONS 514' Cultivated	E1/2 SE1/4 SEC. 23, T134N, R49W 1235' Cultivated - 86' Uncultivated	NE1/4 SEC. 26, T134N, R49W 2616' Cultivated - 33' Uncultivated	SE1/4, WITH EXCEPTIONS SEC. 26, T134N, R49W 155' Cultivated - 33' Uncultivated	SW1/4 SEC. 25, T134N, R49W 2606' Cultivated - 33' Uncultivated	SE1/4 SEC. 25, T134N, R49W 2607' Cultivated - 33' Uncultivated				
PIPE SCHMATIC	2500+00 ————— 2532+08 ————— 2533+04 ————— 2552+39 ————— 2553+35 ————— 2580+78 ————— 2581+74 ————— 2633+57 ————— 2634+53 ————— 2640+00											



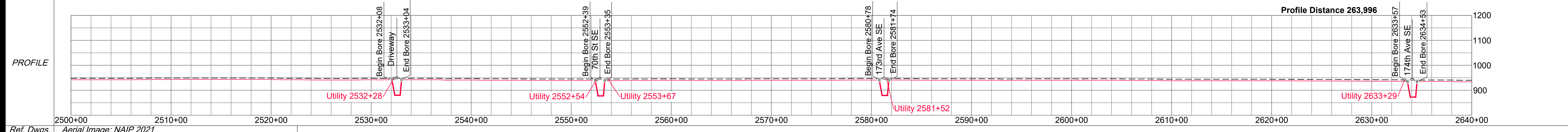
PI TABLE		
PI #	STATION	DEFLECTION
PI #227	2503+69.54	61°30'L
PI #228	2526+43.82	00°00'
PI #229	2534+51.91	00°00'
PI #230	2539+65.82	00°00'
PI #231	2551+81.75	90°00'R
PI #232	2552+87.02	00°00'
PI #233	2579+37.87	00°00'
PI #234	2580+21.36	90°00'L
PI #235	2581+26.18	00°00'
PI #236	2607+65.64	00°00'
PI #237	2634+05.41	00°00'

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



ENVIRO	Name	
	Crossing Method	Bridge
Wetland	Name	
	Crossing	Survey Extent
Environmental Feature		
	Miscellaneous/Comments	
HUC-12 Watershed Seeding Mix		
090201051001		

ENVIRONMENTAL NOTES:
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* Open ("WET") trench if no distinguishable flow at the time of construction, dry crossing method if distinguishable flow at time of construction



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

SUMMARY of MATERIALS

Mark	Quantity	Description
1	13,616	12.75" OD, .250" WT, X65, FBE, TRL
2	384	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.

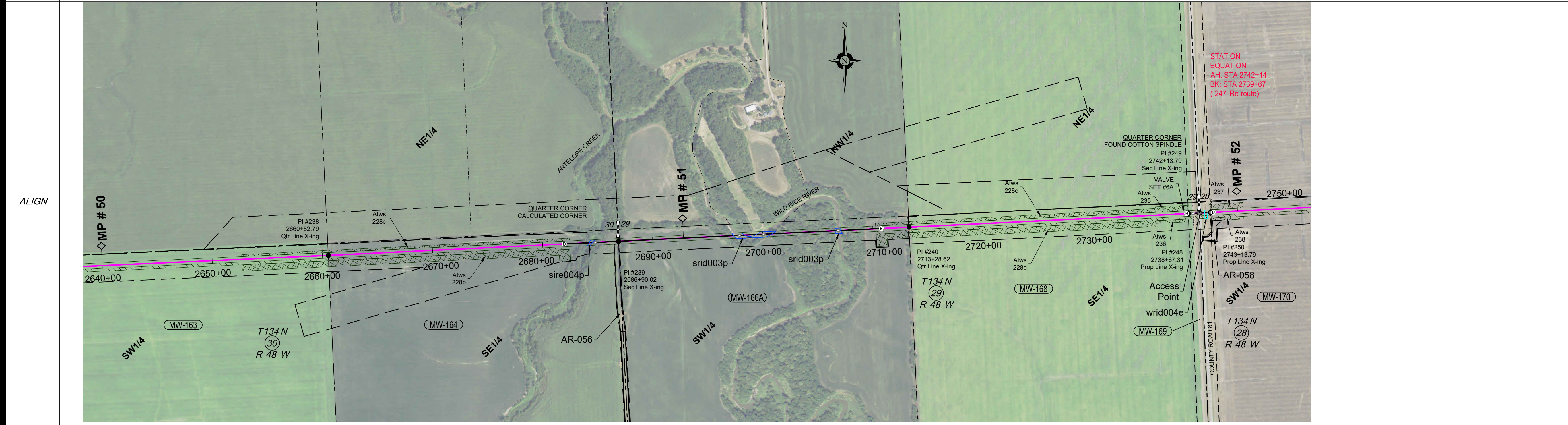
Sec. 23, 25, 26, T134N, R49W,
5th P.M., Richland Co., North Dakota

Sheet 24 R2

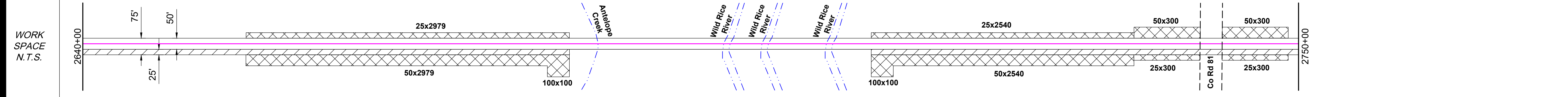
Co, State	SECTIONS 28, 29, 30, T134N, R48W, RICHLAND COUNTY, NORTH DAKOTA											
OWNER	MW-163		MW-164		MW-166A		MW-168		MW-169		MW-170	
RODDAGE	2647.37' / 160.45 Rods		2637.29' / 158.84 Rods		2638.59' / 159.92 Rods		2538.69' / 153.86 Rods		200.01' / 12.12 Rods		1880.01' / 113.94 Rods	



PI TABLE		
PI #	STATION	DEFLECTION
PI #238	2660+52.79	00°00'
PI #239	2686+90.02	00°00'
PI #240	2713+28.62	00°00'
PI #248	2738+67.31	00°00'
PI #249	2742+13.79	00°00'
PI #250	2743+13.79	00°00'



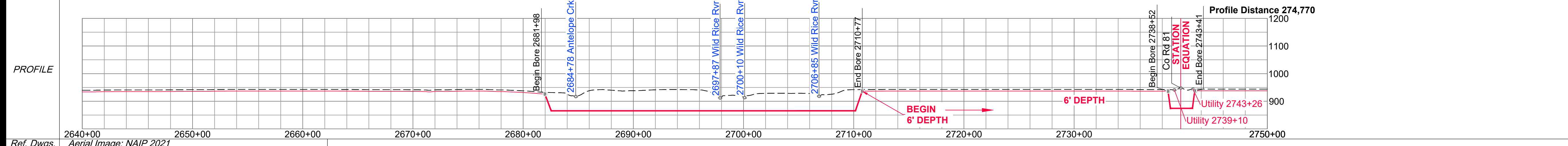
- NOTE:
See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.
- Wetlands
 - Waterbodies
 - Noxious Weeds
 - Saline Soil



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

ENVIRO	Water Crossing	Name	Crossing Method	Bore			wrid004e
				BORE	BORE	BORE	
	Wetland	Antelope Creek	BORE	srie004p	srid003p	srid003p	wrid004e
	Wetland	Wild Rice River	BORE	srie004p	srid003p	srid003p	2742+21
	Wetland	Wild Rice River	BORE	srie004p	srid003p	srid003p	Wetland
	Wetland	Wild Rice River	BORE	srie004p	srid003p	srid003p	Approx. 50' ECD
	Wetland	Wild Rice River	BORE	srie004p	srid003p	srid003p	Approx. 40' mats
	Miscellaneous/Comments			2684+34 Intermediate	2698+85 Major	2706+86 Major	
	HUC-12 Watershed	090201051001	090201050906	090201050907			090201050805
	Seeding Mix						090201040401

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.

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	7,632	12.75" OD, .250" WT, X65, FBE, TRL
2	3,368	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

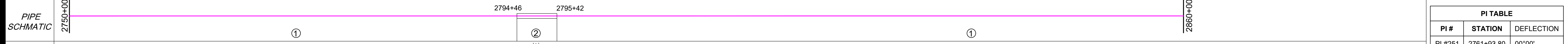
WAHPETON EXPANSION PROJECT

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

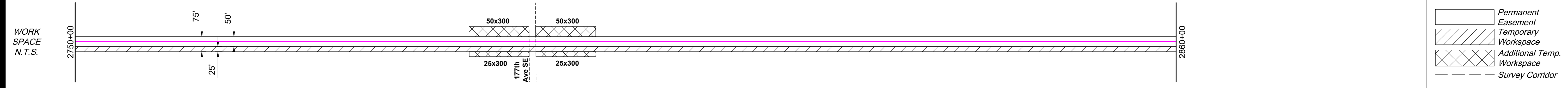
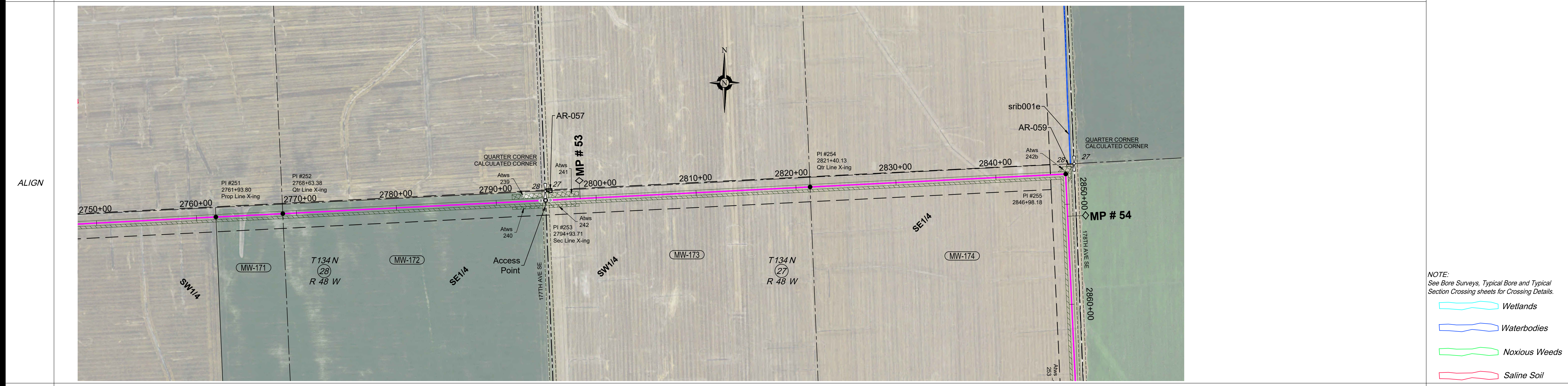
Sec. 28, 29, 30, T134N, R48W,
5th P.M., Richland Co., North Dakota

Sheet 25 R2

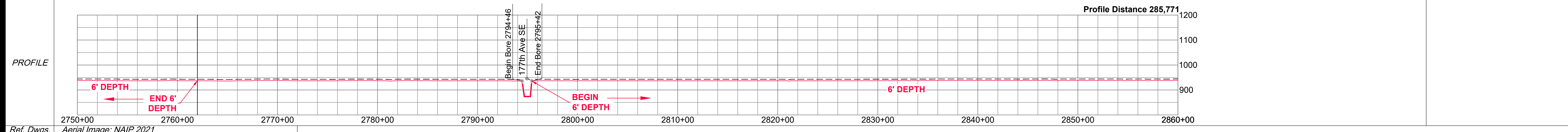
OWNER	MW-171	MW-172	MW-173	MW-174
	PART OF THE SW1/4 SEC. 28, T134N, R48W 660' Cultivated	SE1/4 SEC. 28, T134N, R48W 2607' Cultivated - 33' Uncultivated	SW1/4 SEC. 27, T134N, R48W 2597' Cultivated - 33' Uncultivated	SE1/4 SEC. 27, T134N, R48W 5045' Cultivated - 66' Uncultivated
RODDAGE	660.01' / 40.00 Rods	2639.89' / 159.99 Rods	2646.43' / 160.39 Rods	5110.67' / 309.74 Rods



PI #	STATION	DEFLECTION
PI #251	2761+93.80	00°00'
PI #252	2768+63.38	00°00'
PI #253	2794+93.71	00°00'
PI #254	2821+40.13	00°00'
PI #255	2846+98.18	90°00'R

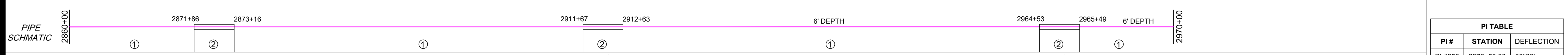


Water Crossing	Name	Crossing Method	Station
	srib001e	Bridge	
Wetland	Name	Survey Extent	Station
		Ditch	3046+23
Environmental Feature			Approx. 50' ECD
Miscellaneous/Comments			
HUC-12 Watershed			090201040401
Seeding Mix			

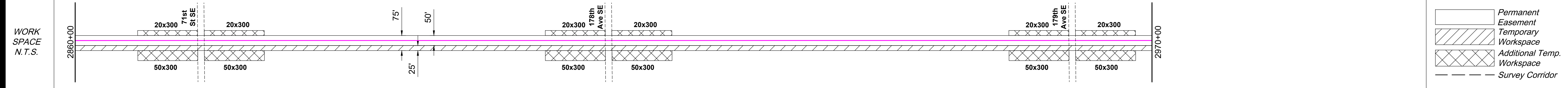
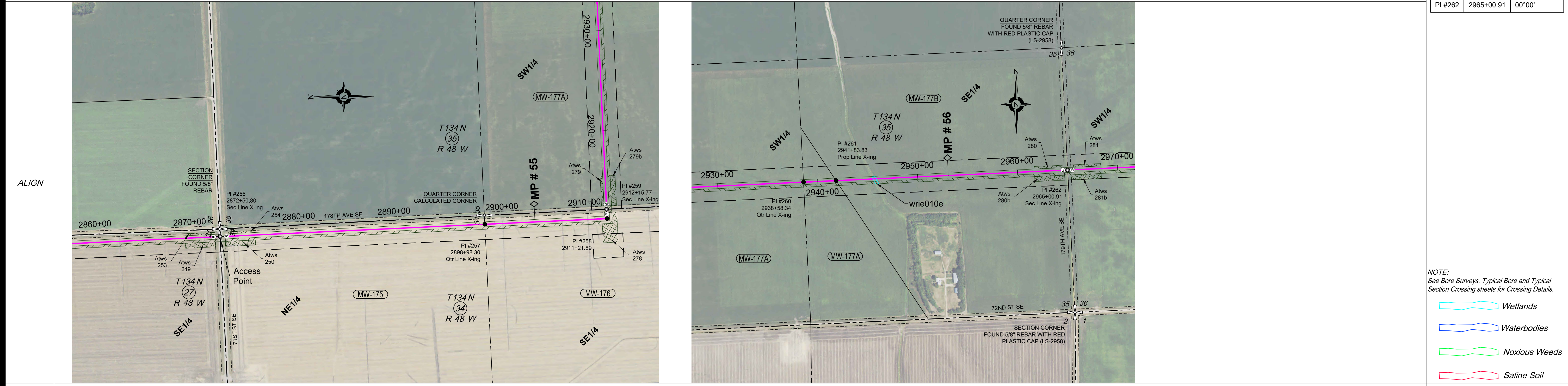


<p>HARNED SURVEYING & ENGINEERING, INC. 11815 ROBINDALE ROAD LOUISVILLE, KY 40243 OFFICE (502) 254-3921 FAX (502) 254-6093</p> <p>HSE Project # 19-21</p>	<p>SURVEY DATUM</p> <p>North Dakota North (NAD 83)(2011) International Foot *Distances are Grid Distances. Combined Scale Factor = 0.99989766 Grid 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>10,904</td> <td>12.75" OD, .250" WT, X65, FBE, TRL</td> </tr> <tr> <td>2</td> <td>96</td> <td>12.75" OD, .312" WT, X65, FBE w/ARO, TRL</td> </tr> </tbody> </table>	Mark	Quantity	Description	1	10,904	12.75" OD, .250" WT, X65, FBE, TRL	2	96	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. 27, 28, T134N, R48W, 5th P.M., Richland Co., North Dakota</p> <p>Sheet 26 R2</p>
	Mark	Quantity	Description																		
1	10,904	12.75" OD, .250" WT, X65, FBE, TRL																			
2	96	12.75" OD, .312" WT, X65, FBE w/ARO, TRL																			
No.	Date	Description																			
<p>Scale: 1" = 500' - 22 x 34 feet 1" = 1000' - 11 x 17 feet</p>			<p>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</p>																		

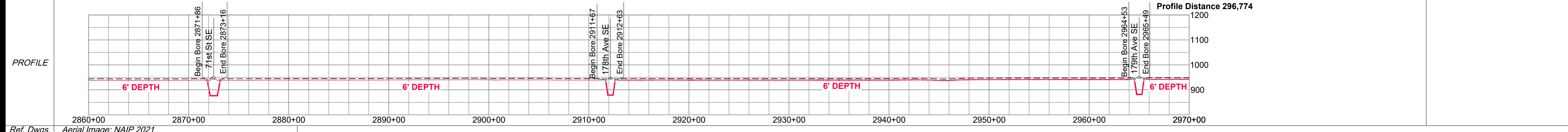
OWNER	2872+51	MW-175 NE1/4 SEC. 34, T134N, R48W 2615' Cultivated - 33' Uncultivated 2647.50' / 160.46 Rods	2898+98	MW-176 SE1/4 SEC. 34, T134N, R48W 1284' Cultivated - 33' Uncultivated 1317.48' / 79.85 Rods	2912+16	MW-177A ALL LYING WEST OF RAILROAD SEC. 35, T134N, R48W 2610' Cultivated - 33' Uncultivated 2642.57' / 160.16 Rods	2938+58	MW-177A ALL LYING WEST OF RAILROAD SEC. 35, T134N, R48W 325' Cultivated 325.49' / 19.73 Rods	2941+84	MW-177B ALL LYING EAST OF RAILROAD WITH EXCEPTIONS SEC. 35, T134N, R48W 2284' Cultivated - 33' Uncultivated 2317.08' / 140.43 Rods	2965+01
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FEATURES	PI TABLE		
	PI #	STATION	DEFLECTION
	PI #256	2872+50.80	00°00'
	PI #257	2898+98.30	00°00'
	PI #258	2911+21.89	90°00'L
	PI #259	2912+15.77	00°00'
	PI #260	2938+58.34	00°00'
	PI #261	2941+83.83	00°00'
	PI #262	2965+00.91	00°00'

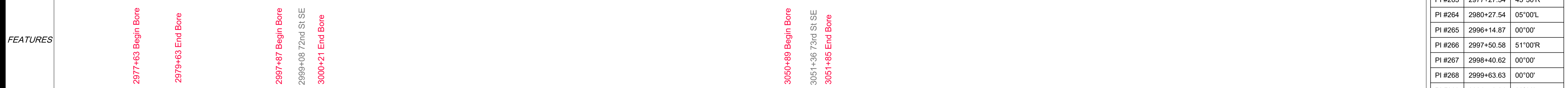
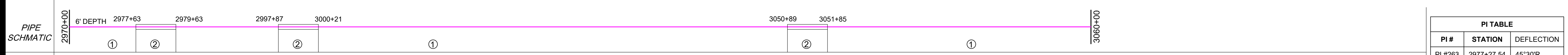


ENVIRO	Water Crossing	Name: Bridge	Method: Bridge
	Wetland Crossing	Name: wrie010e	Survey Extent: 2845+74
	Environmental Feature	Wetland	
	Miscellaneous/Comments	Approx. 50' ECD Approx. 40' mats	
	HUC-12 Watershed	090201040401	
	Seeding Mix	090201050805	



<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 	<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>10,678</td> <td>12.75" OD, .250" WT, X65, FBE, TRL</td> </tr> <tr> <td>2</td> <td>322</td> <td>12.75" OD, .312" WT, X65, FBE w/ARO, TRL</td> </tr> </tbody> </table>	Mark	Quantity	Description	1	10,678	12.75" OD, .250" WT, X65, FBE, TRL	2	322	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>WHA PETON EXPANSION PROJECT</p> <p>Scale: 1" = 500' HORIZ. 1" = 200' VERT.</p>	<p>WBI ENERGY TRANSMISSION An MDU Resources Group company</p> <p>Sec. 27, 34, 35, T134N, R48W, 5th P.M., Richland Co., North Dakota</p> <p>Sheet 27 R2</p>
	Mark	Quantity	Description																		
1	10,678	12.75" OD, .250" WT, X65, FBE, TRL																			
2	322	12.75" OD, .312" WT, X65, FBE w/ARO, TRL																			
No.	Date	Description																			

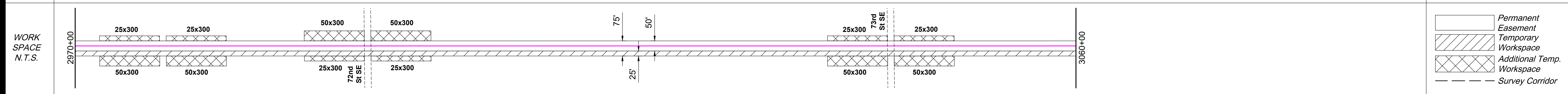
OWNER	MW-177C NW1/4 - SW1/4, GOVT LOTS 1-4 EXCEPT GRAHAM'S CROSSING 3340' Cultivated	MW-177D PART OF GOVT LOTS 1 SEC. 1, T133N, R48W 123' Uncultivated	MW-177E SW1/4 - NE1/4, GOVT LOTS 1-2 WITH EXCEPTIONS SEC. 1, T133N, R48W 2509' Cultivated	MW-177F W1/2-SE1/4 SEC. 1, T133N, R48W 2632' Cultivated - 33' Uncultivated	MW-177G N1/2-NE1/4 SEC. 12, T133N, R48W 1287' Cultivated - 33' Uncultivated
RODDAGE	3339.70' / 202.41 Rods	123.01' / 7.46 Rods	2508.61' / 152.04 Rods	2664.76' / 161.50 Rods	1320.02' / 80.00 Rods



PI TABLE		
PI #	STATION	DEFLECTION
PI #263	2977+27.54	45°30'R
PI #264	2980+27.54	05°00'L
PI #265	2996+14.87	00°00'
PI #266	2997+50.58	51°00'R
PI #267	2998+40.62	00°00'
PI #268	2999+63.63	00°00'
PI #269	3024+72.24	00°00'
PI #270	3051+37.00	00°00'
PI #272	3076+76.11	91°30'L
PI #273	3101+18.95	90°00'R

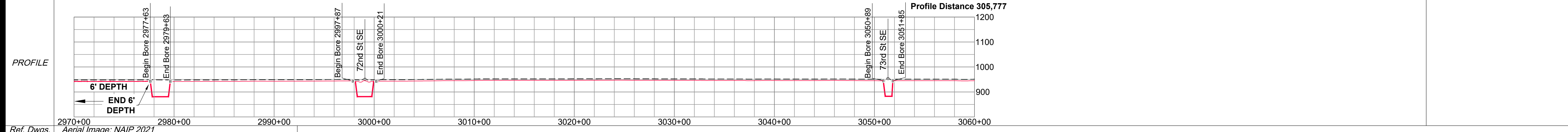
NOTE:
See Bore Surveys, Typical Bore and Typical Section Crossing sheets for Crossing Details.

- Wetlands
- Waterbodies
- Noxious Weeds
- Saline Soil



ENVIRO	Name	srie001e
	Crossing Method	Bore
Wetland	Name	
	Crossing	Survey Extent
Environmental Feature		3051+67
		Minor
Miscellaneous/Comments		
HUC-12 Watershed		090201050805
Seeding Mix		

ENVIRONMENTAL NOTES:
1. Wetlands depicted on these sheets represent actual field survey data or NWI.
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* 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 = 0.999989766
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	8470	12.75" OD, .250" WT, X65, FBE
2	530	12.75" OD, .312" WT, X65, FBE w/ARO

REVISIONS

No.	Date	Description

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

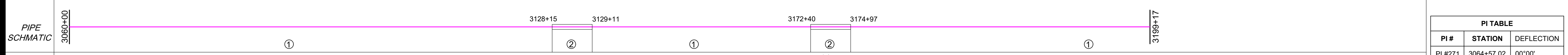
WAHPETON EXPANSION PROJECT

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

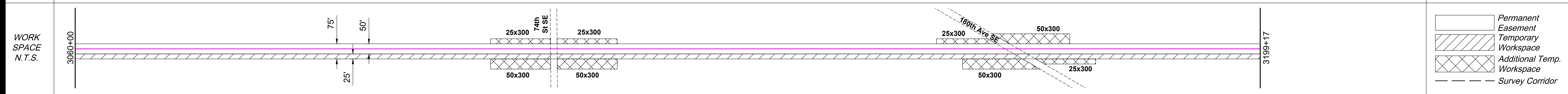
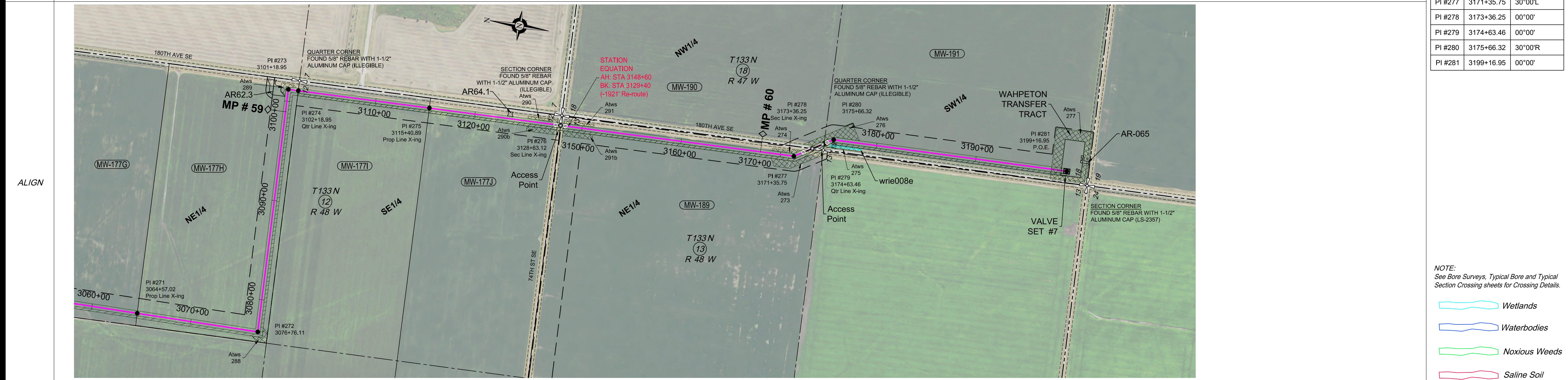
Sec. 36, T134N, R48W,
Sec. 1, 12, T133N, R48W,
5th P.M., Richland Co., North Dakota

Sheet 28 R2

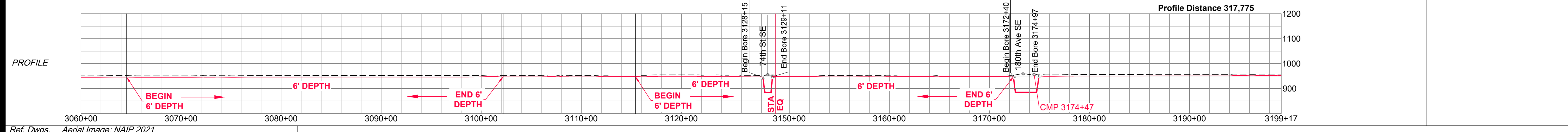
OWNER	MW-177G N1/2-NE1/4 SEC. 12, T133N, R48W 2865' Cultivated - 136' Uncultivated	MW-177H S1/2-NE1/4 SEC. 12, T133N, R48W 3762' Cultivated	MW-177I N1/2-SE1/4 SEC. 12, T133N, R48W 1322' Cultivated	MW-177J S1/2-SE1/4 SEC. 12, T133N, R48W 1254' Cultivated - 68' Uncultivated	MW-189 NE1/4 SEC. 13, T133N, R48W 4993' Cultivated - 33' Uncultivated	MW-190 EXCEPT ABANDONED RAILROAD PLUS ABANDONED RAILROAD SEC. 18, T133N, R47W 127' Uncultivated	MW-191 sw1/4 SEC. 18, T133N, R47W 2553' Cultivated
RODDAGE	2999.07' / 181.76 Rods	3761.93' / 228.00 Rods	1321.94' / 80.12 Rods	1322.23' / 80.14 Rods	2552.19' / 154.68 Rods	127.21' / 7.71 Rods	2553.49' / 154.76 Rods



PI #	STATION	DEFLECTION
PI #271	3064+57.02	00°00'
PI #272	3076+76.11	91°30'L
PI #273	3101+18.95	90°00'R
PI #274	3102+18.95	00°00'
PI #275	3115+40.89	00°00'
PI #276	3128+63.12	90°00'R
PI #277	3171+35.75	30°00'L
PI #278	3173+36.25	00°00'
PI #279	3174+63.46	00°00'
PI #280	3175+66.32	30°00'R
PI #281	3199+16.95	00°00'



Water Crossing	Name	Bridge Method	Wetland Name	Survey Extent	Environmental Feature	Miscellaneous/Comments
	wrie008e			3175+10 - 3178+57	Wetland	Approx. 50' ECD



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HSE Project # 19-21

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
- x - x - x - Fence Line
- - - UG Fiber Optic
- - - UG Electric
- - - Overhead Elec
- - - Existing Pipeline
- - - Dirt Road

SUMMARY of MATERIALS

Mark	Quantity	Description
1	11,643	12.75" OD, .250" WT, X65, FBE
2	353	12.75" OD, .312" WT, X65, FBE w/ARO

REVISIONS

No.	Date	Description

WHAHPETON EXPANSION PROJECT

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

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

WBI ENERGY TRANSMISSION
An MDU Resources Group company

Sec. 13, 14, T133N, R48W,
Sec. 18, T133N, R47W
5th P.M., Richland Co., North Dakota

Sheet 29 R2

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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