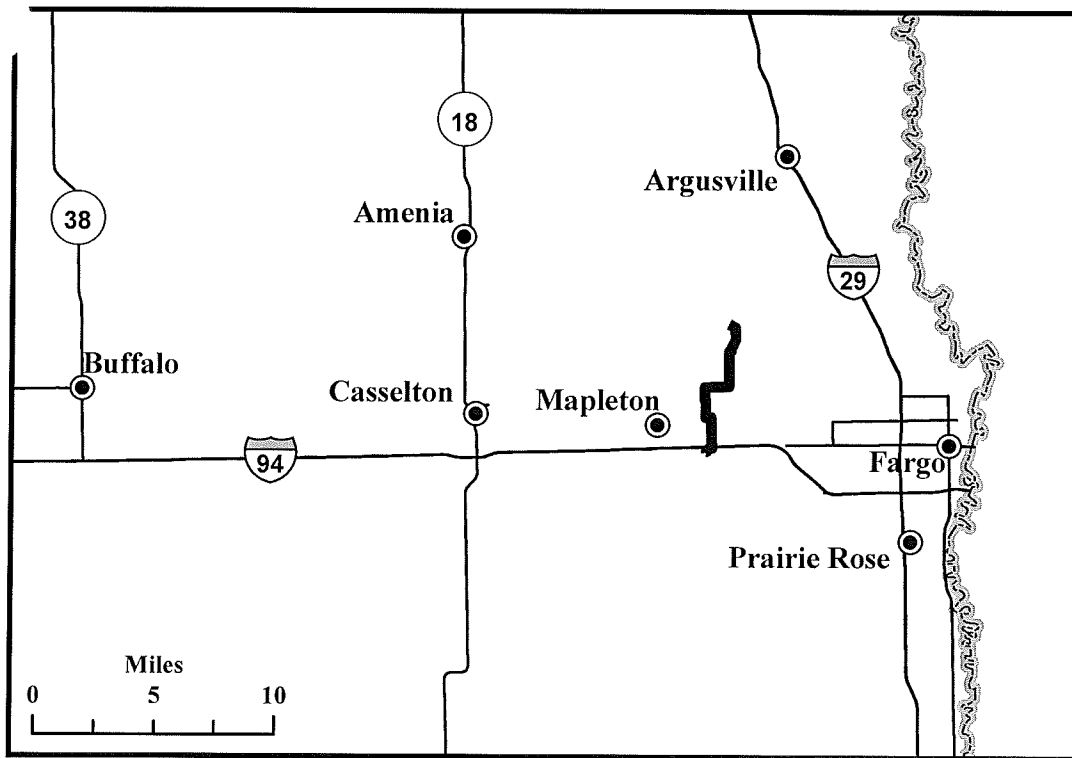
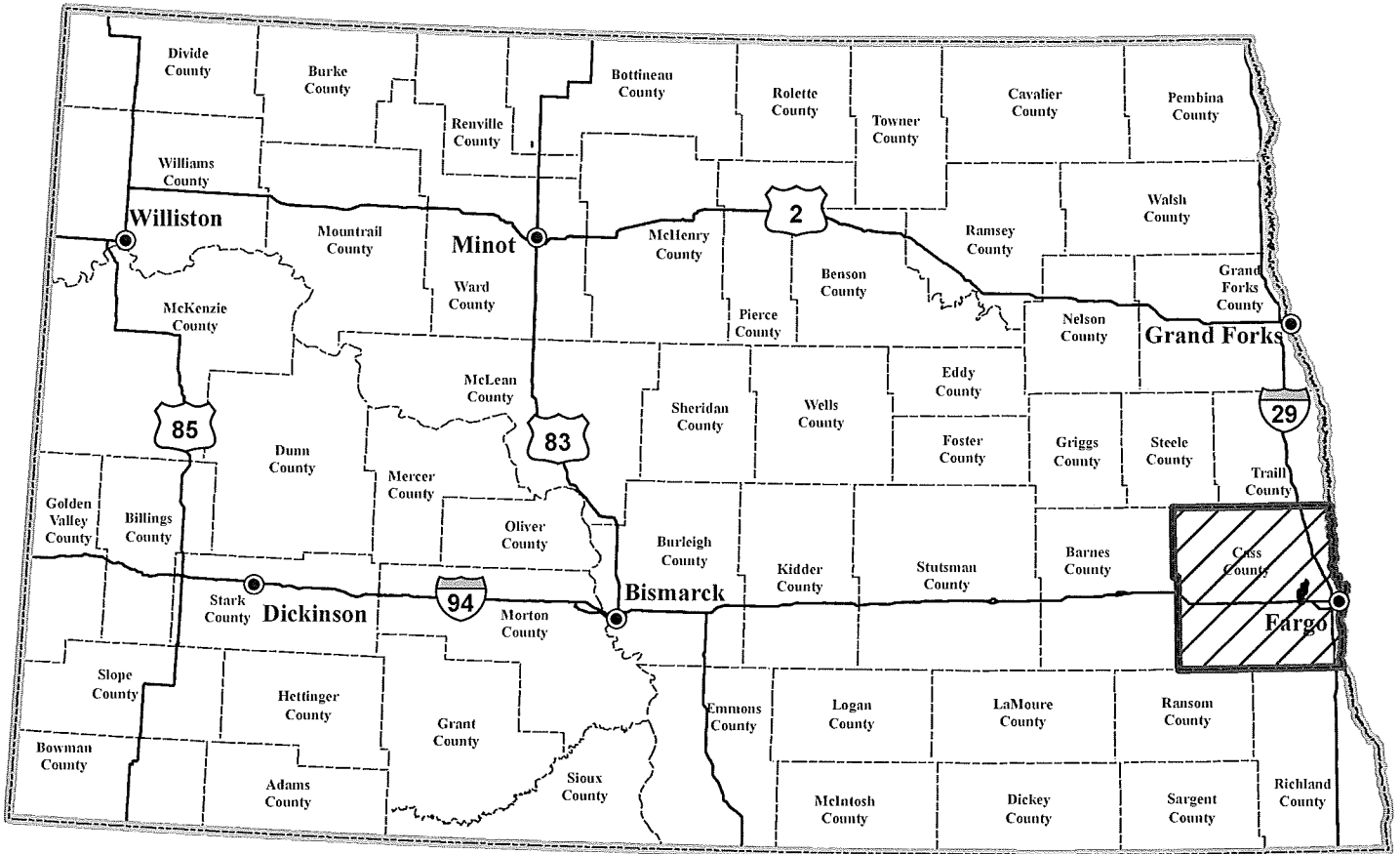


APPENDIX A
Project Overview Maps and Engineering Drawings



NUSTAR AND CENEX SYSTEM INTERCONNECT



PROPOSED CENEX FARGO TERMINAL
NUSTAR FARGO PUMP STATION

CENEX 8" LAUREL PIPELINE

PROPOSED LAUREL
INTERCONNECT PIPELINE

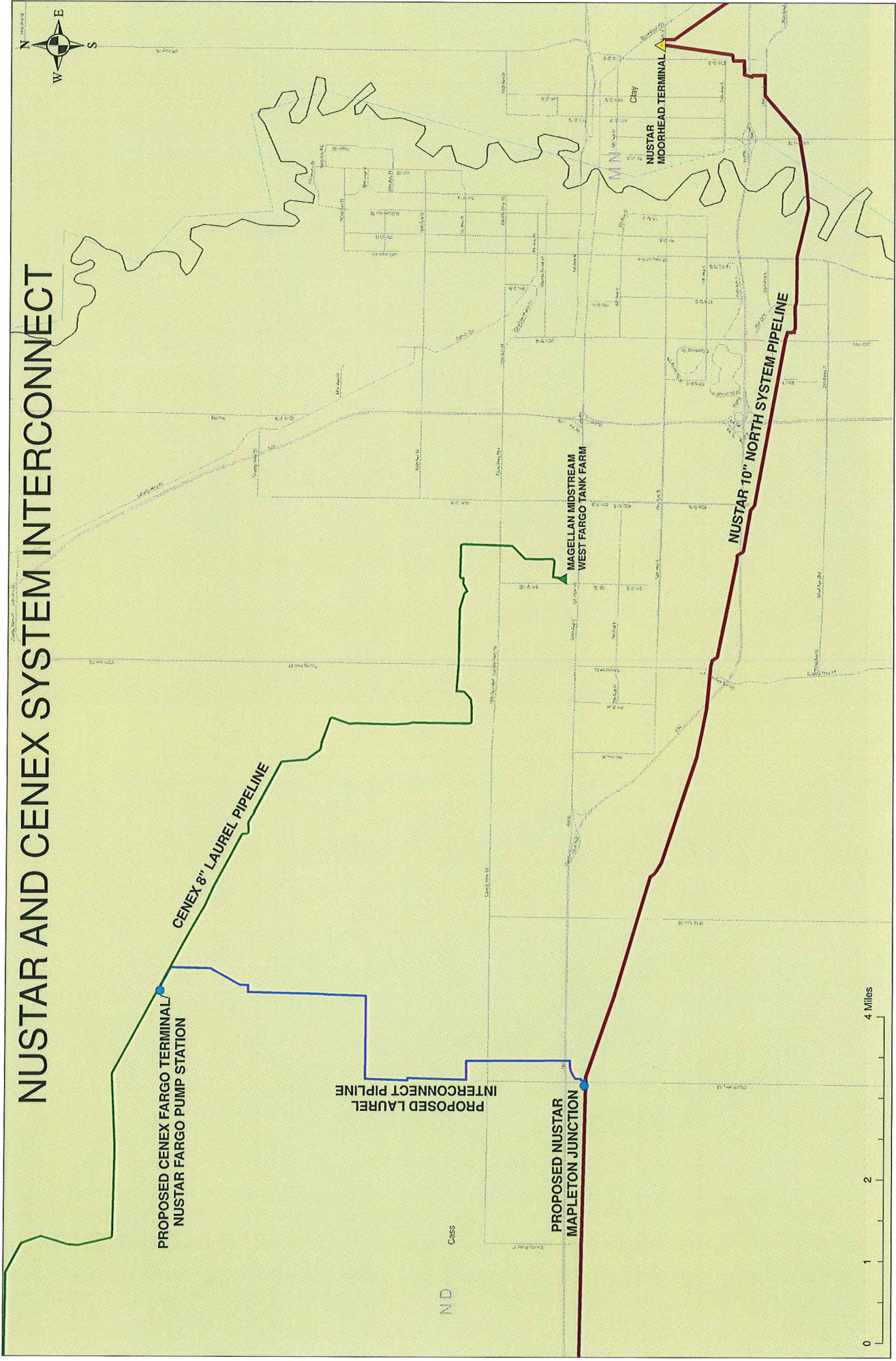
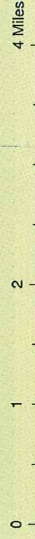
PROPOSED NUSTAR
MAPLETON JUNCTION

MASELLAN MIDSTREAM
WEST FARGO TANK FARM

NUSTAR
MOORHEAD TERMINAL

NUSTAR 10" NORTH SYSTEM PIPELINE

N D



NUSTAR AND CENEX SYSTEM INTERCONNECT



PROPOSED CENEX FARGO TERMINAL/
NUSTAR FARGO PUMP STATION

CENEX 8" LAUREL PIPELINE

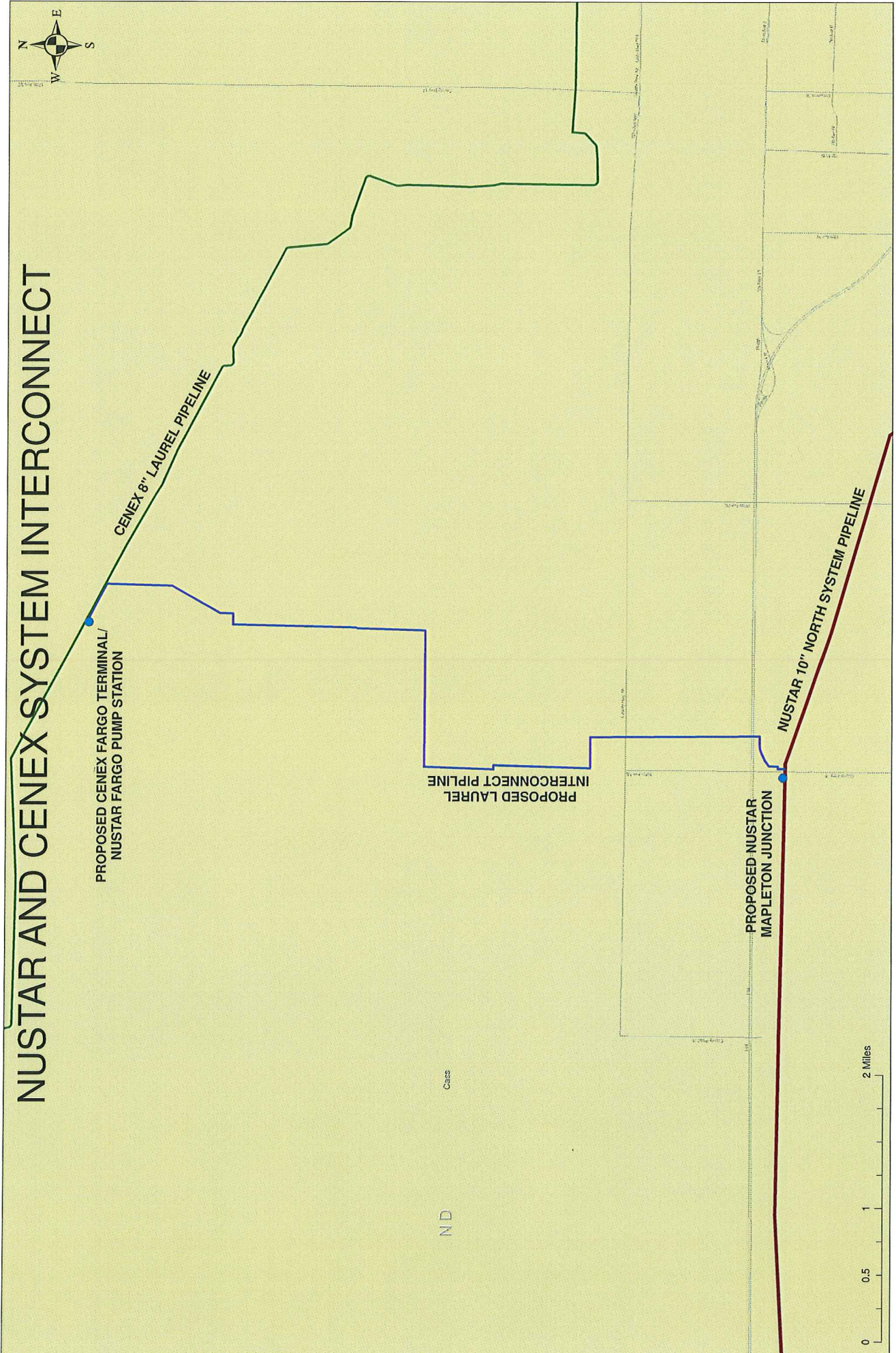
PROPOSED LAUREL
INTERCONNECT PIPELINE

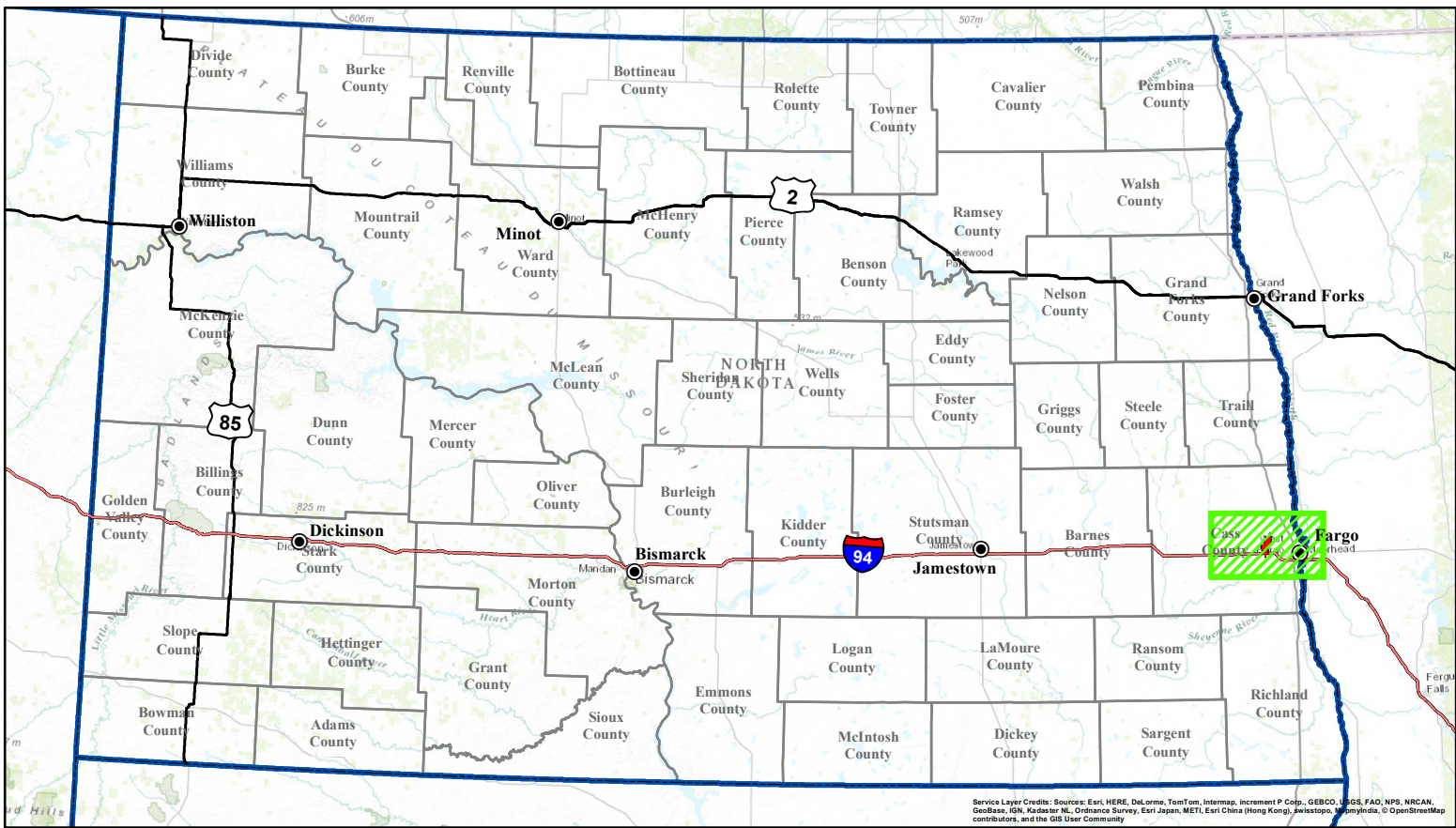
PROPOSED NUSTAR
MAPLETON JUNCTION

NUSTAR 10" NORTH SYSTEM PIPELINE

ND







Cass





Service Layer Credits: Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), Swisstopo, Mapbox India, © OpenStreetMap contributors, and the GIS User Community

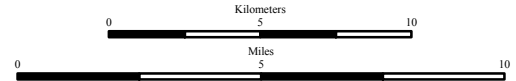
Laurel Interconnect Pipeline Project

-  City
-  Proposed Route
-  Interstate Highway
-  U.S. Highway
-  County Boundary
-  State Boundary



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Fax: 701.258.5957
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Base Map: Topographic Map
Source: ESRI ArcGIS online service
T. 140N, R. 50W & T. 139N, R. 50W
Cass County, North Dakota



Projection: NAD 1983 UTM Zone 14N

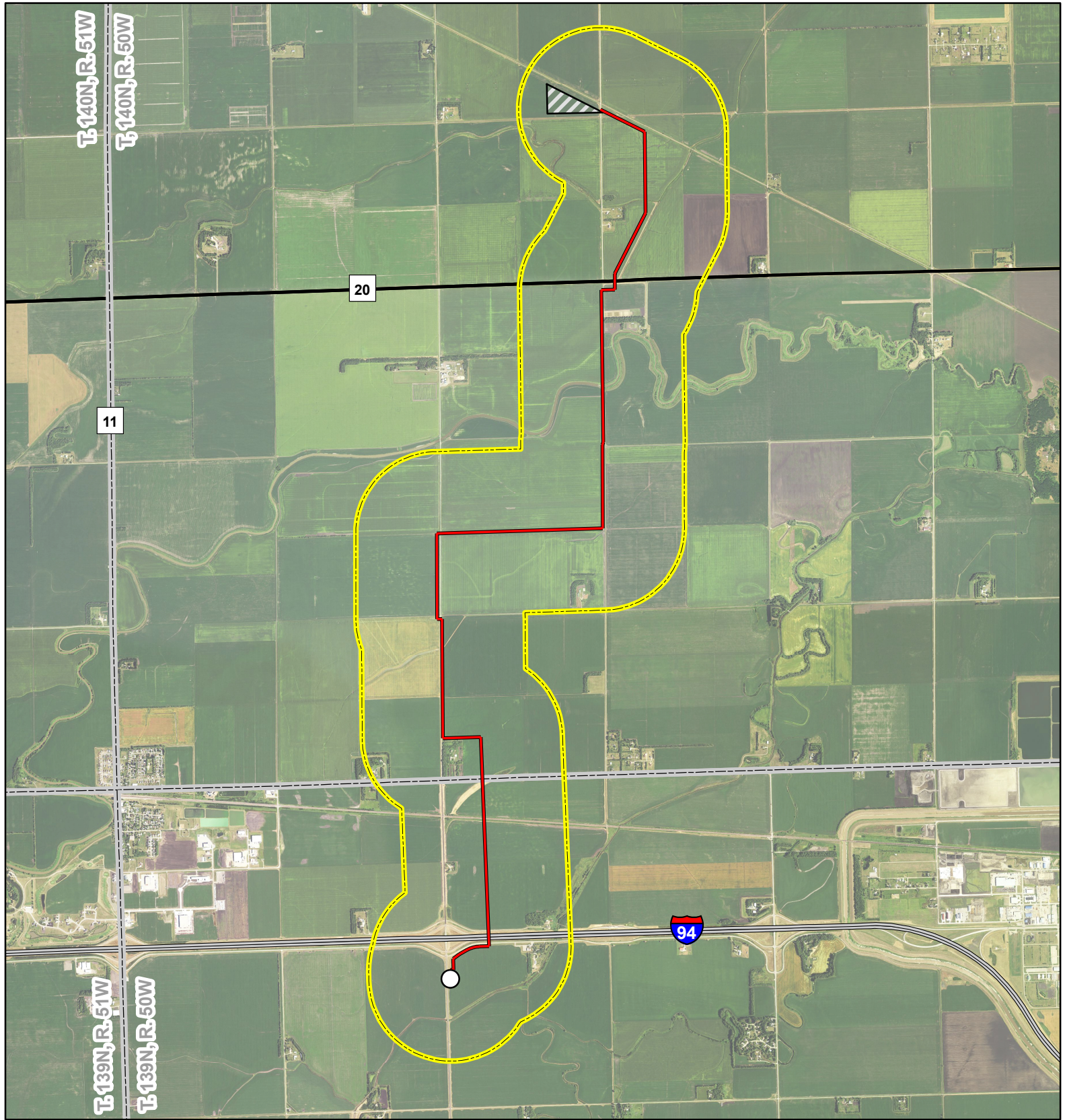









Fig. 2: Laurel Interconnect Pipeline Project

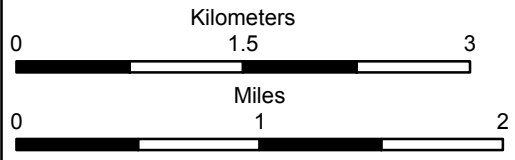
-  Proposed Mapleton Junction Site
-  Proposed Route
-  Interstate Highway
-  County Highway
-  Proposed Cenex Fargo Terminal
-  Study Area
-  Township/Range Boundary

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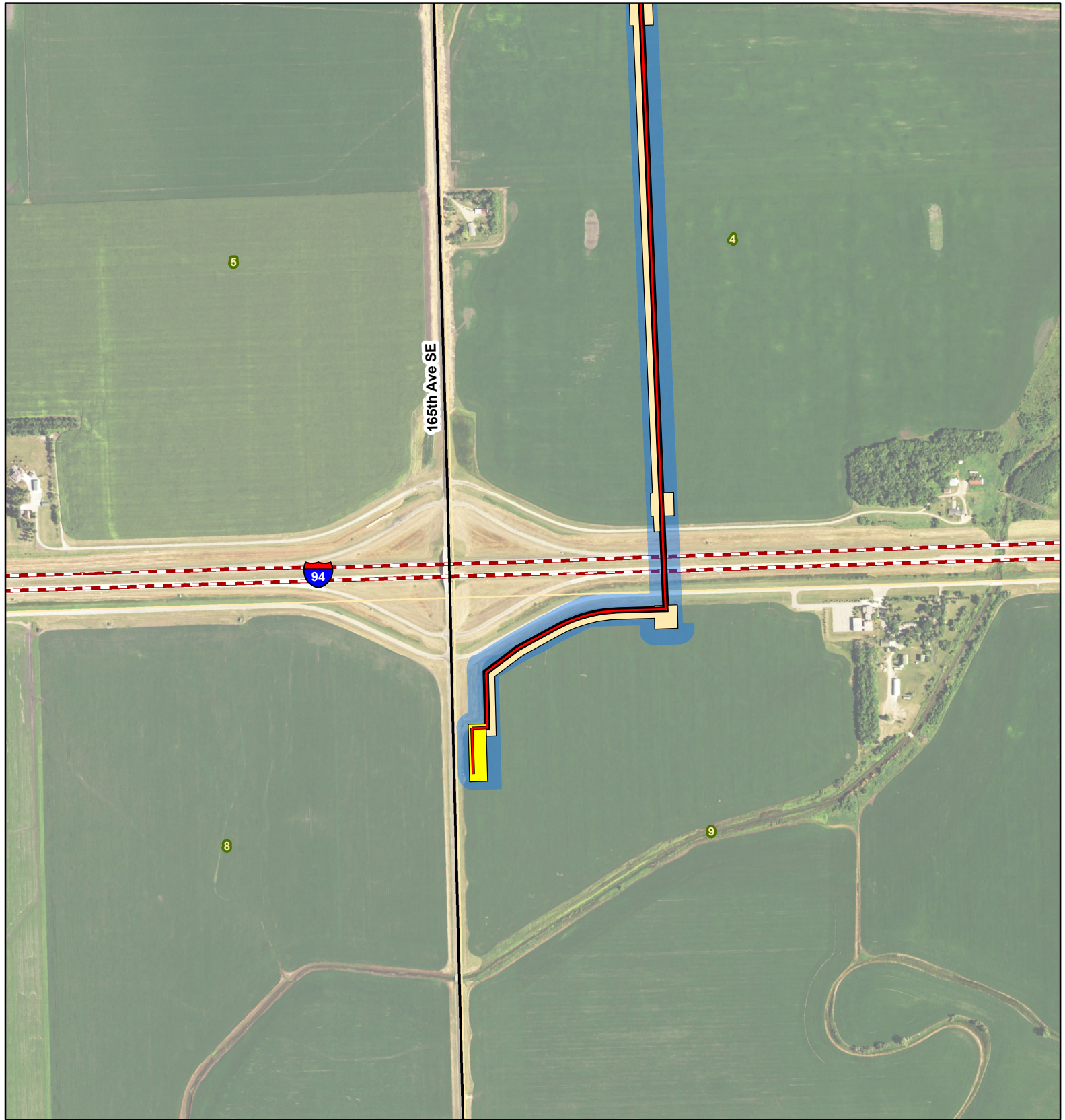
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Base Map: 2014 Aerial Imagery
 Source: USDA/FSA -
 Aerial Photography Field Office
 Casselton SE (1976), Mapleton (1976),
 West Fargo North (1976),
 T. 139N, R. 50W & T. 140N, R. 50W
 Cass County, North Dakota

Projection: NAD 1983 UTM Zone 14N





Laurel Interconnect Pipeline Project - Exclusion and Avoidance Area

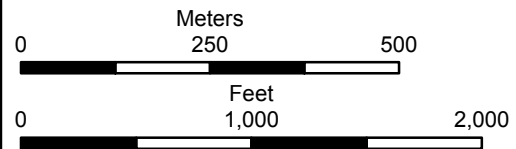
- Proposed Route
- - - Maple River
- - - Interstate Highway
- County Highway
- Existing Road
- Permanent ROW
- Temporary Workspace
- Proposed Mapleton Junction Site
- Proposed Corridor
- Proposed Cenex Fargo Terminal
- Township/Range Boundary
- Section Boundary



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Base Map: 2014 Aerial Imagery
Source: USDA/FSA -
Aerial Photography Field Office
Quadrangle: Casselton SE (1976)
and Mapleton (1976)
Township/Range: T. 139N, R. 50W

Cass County, North Dakota
Projection: NAD 1983 UTM Zone 14N





Laurel Interconnect Pipeline Project - Exclusion and Avoidance Area

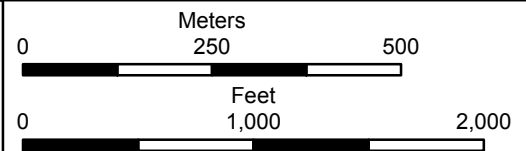
- Proposed Route
- - - Maple River
- - - Interstate Highway
- County Highway
- Existing Road
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- Temporary Workspace
- Proposed Mapleton Junction Site
- Proposed Corridor
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- Township/Range Boundary
- Section Boundary



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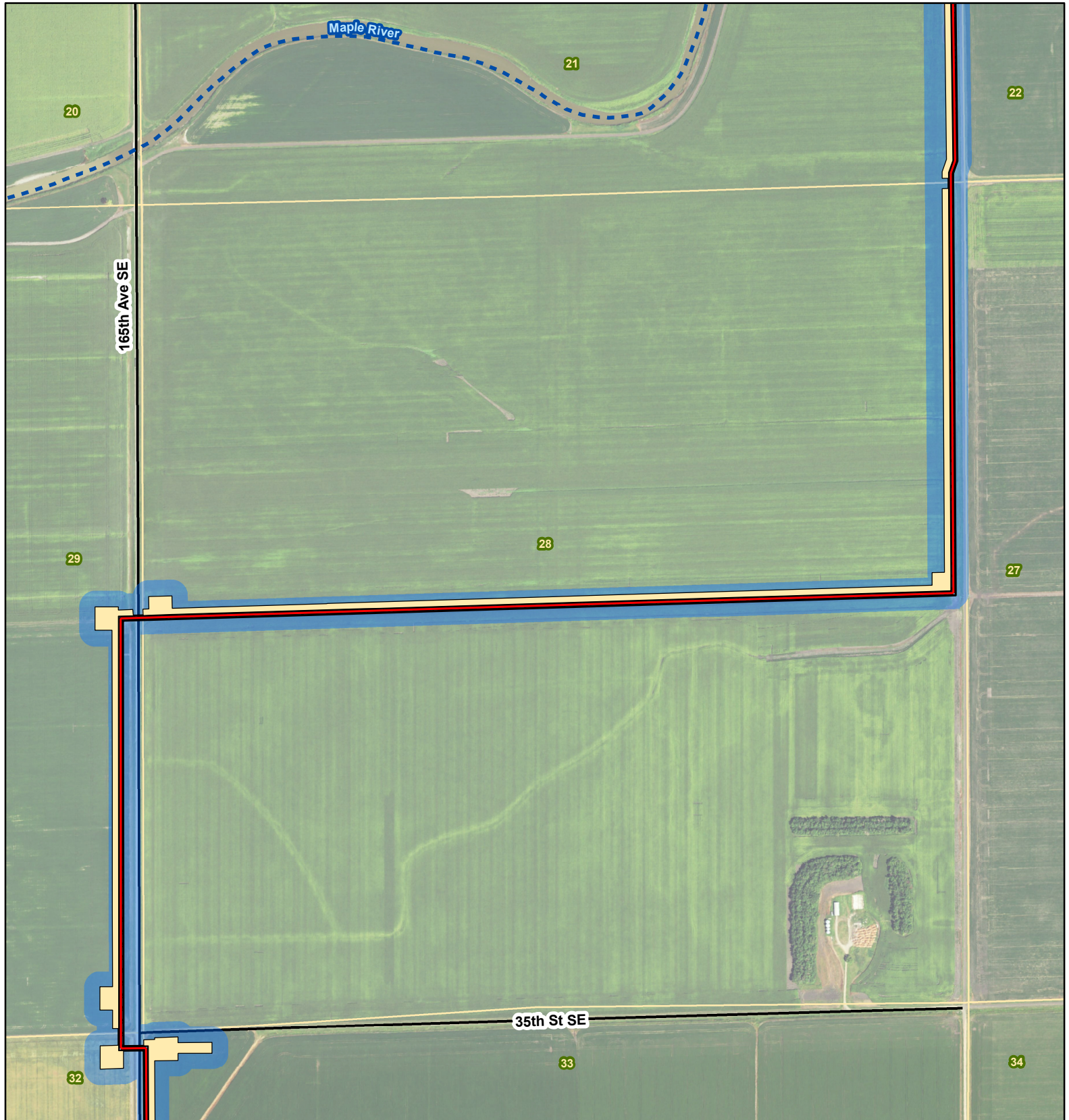
www.swca.com



Base Map: 2014 Aerial Imagery
Source: USDA/FSA -
Aerial Photography Field Office
Quadrangle: Mapleton (1976)

Township/Range: T. 139N, R. 50W
and T. 140N, R. 50W
Cass County, North Dakota
Projection: NAD 1983 UTM Zone 14N





Laurel Interconnect Pipeline Project - Exclusion and Avoidance Area

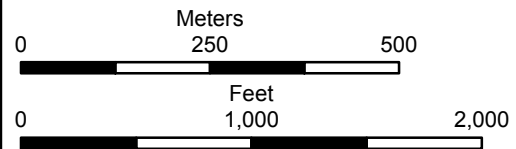
- Proposed Route
- - - Maple River
- - - Interstate Highway
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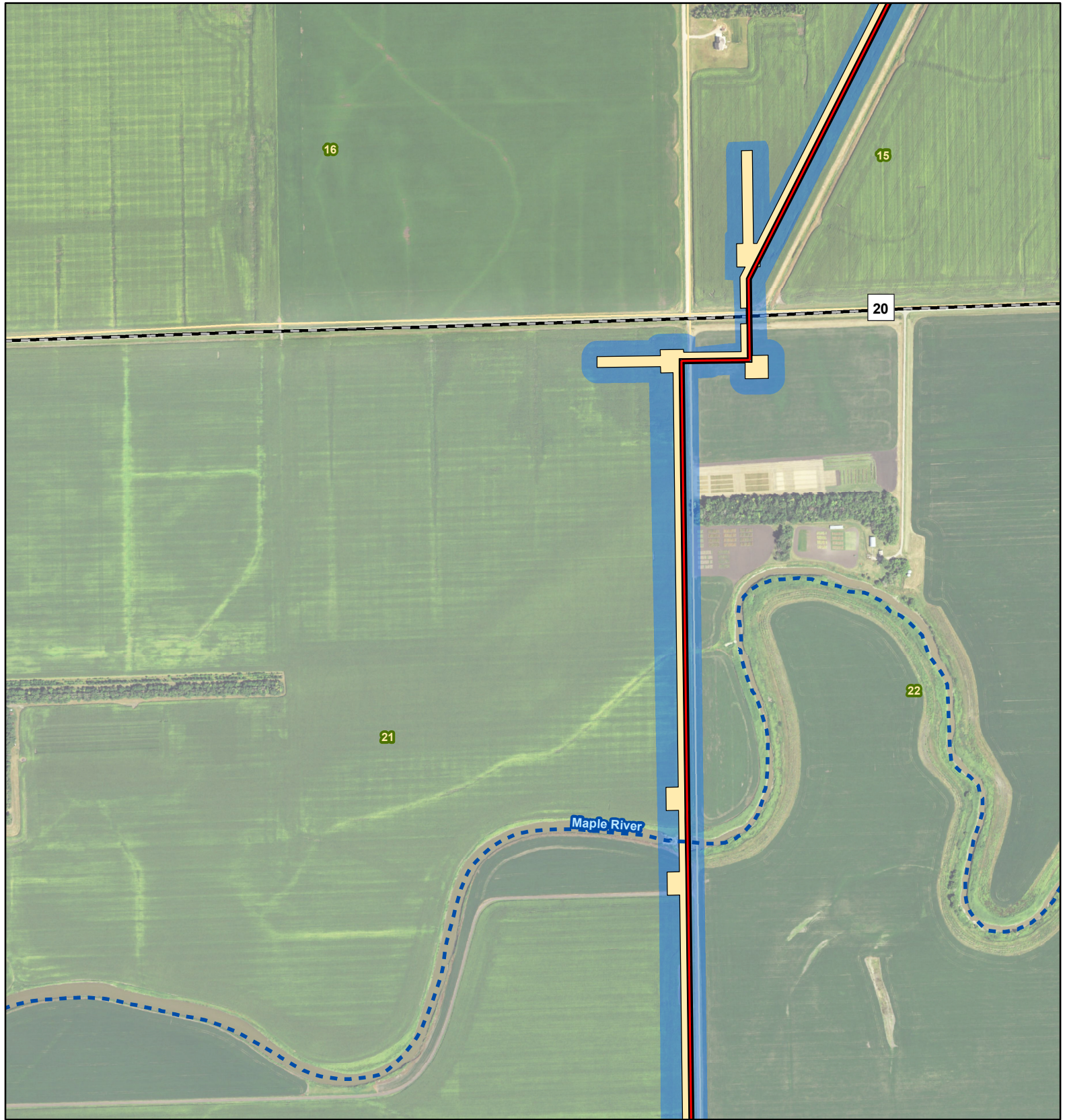
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Base Map: 2014 Aerial Imagery
Source: USDA/FSA -
Aerial Photography Field Office
Quadrangle: Mapleton (1976)
and West Fargo North (1976)
Township/Range: T. 140N, R. 50W

Cass County, North Dakota
Projection: NAD 1983 UTM Zone 14N





Laurel Interconnect Pipeline Project - Exclusion and Avoidance Area

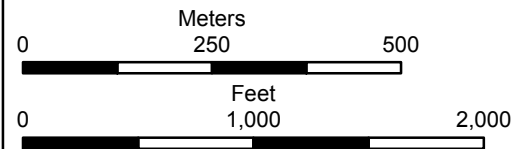
- | | |
|---------------------|---------------------------------|
| Proposed Route | Proposed Corridor |
| Maple River | Proposed Cenex Fargo Terminal |
| Interstate Highway | Township/Range Boundary |
| County Highway | Section Boundary |
| Existing Road | Section Boundary |
| Permanent ROW | Proposed Mapleton Junction Site |
| Temporary Workspace | |



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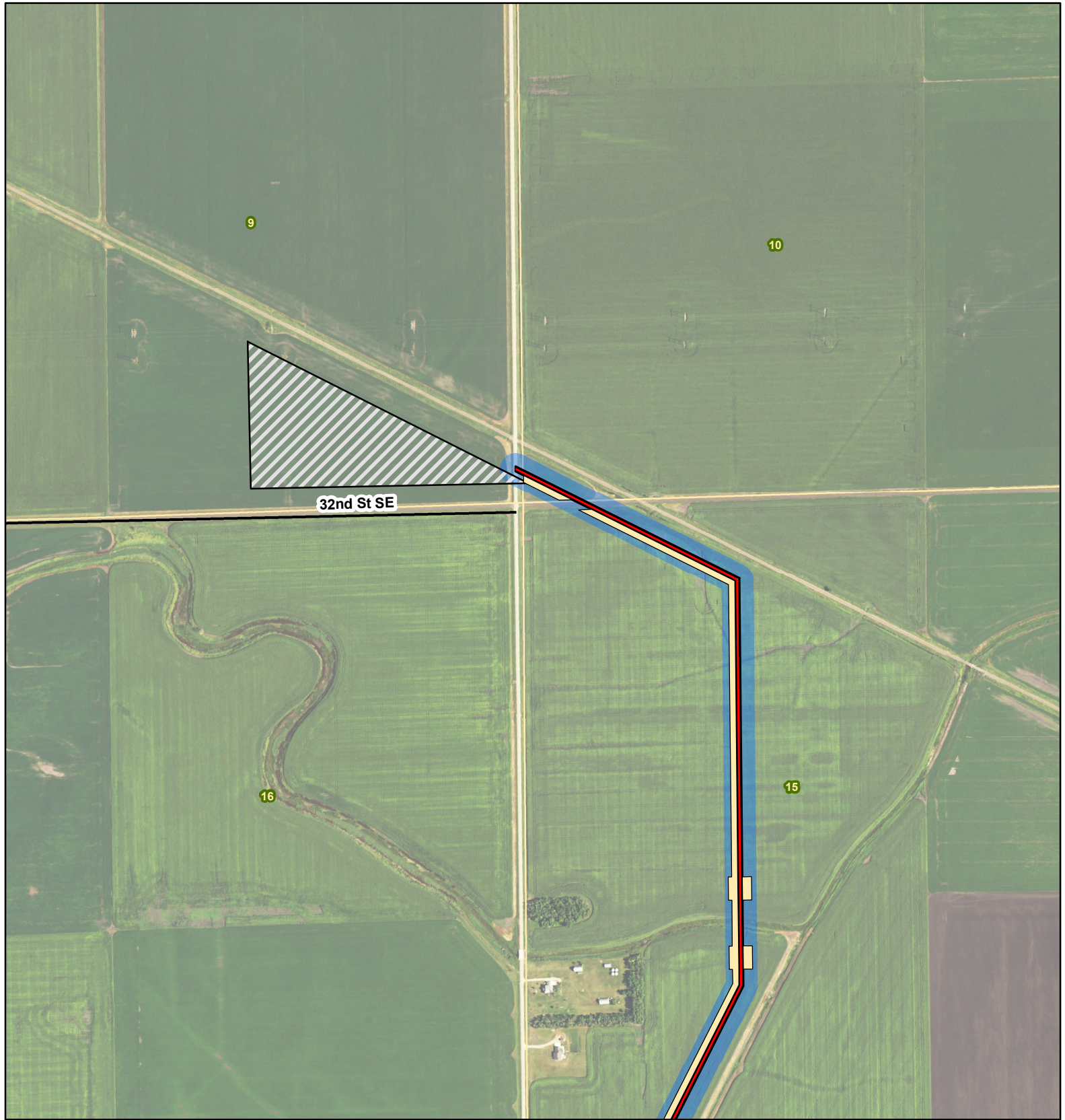
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Source: USDA/FSA -
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Quadrangle: West Fargo North (1976)

Township/Range: T. 140N, R. 50W

Cass County, North Dakota

Projection: NAD 1983 UTM Zone 14N





Laurel Interconnect Pipeline Project - Exclusion and Avoidance Area

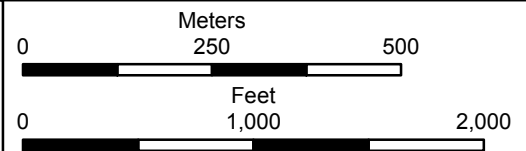
- | | |
|---------------------------------|-------------------------------|
| Proposed Route | Proposed Corridor |
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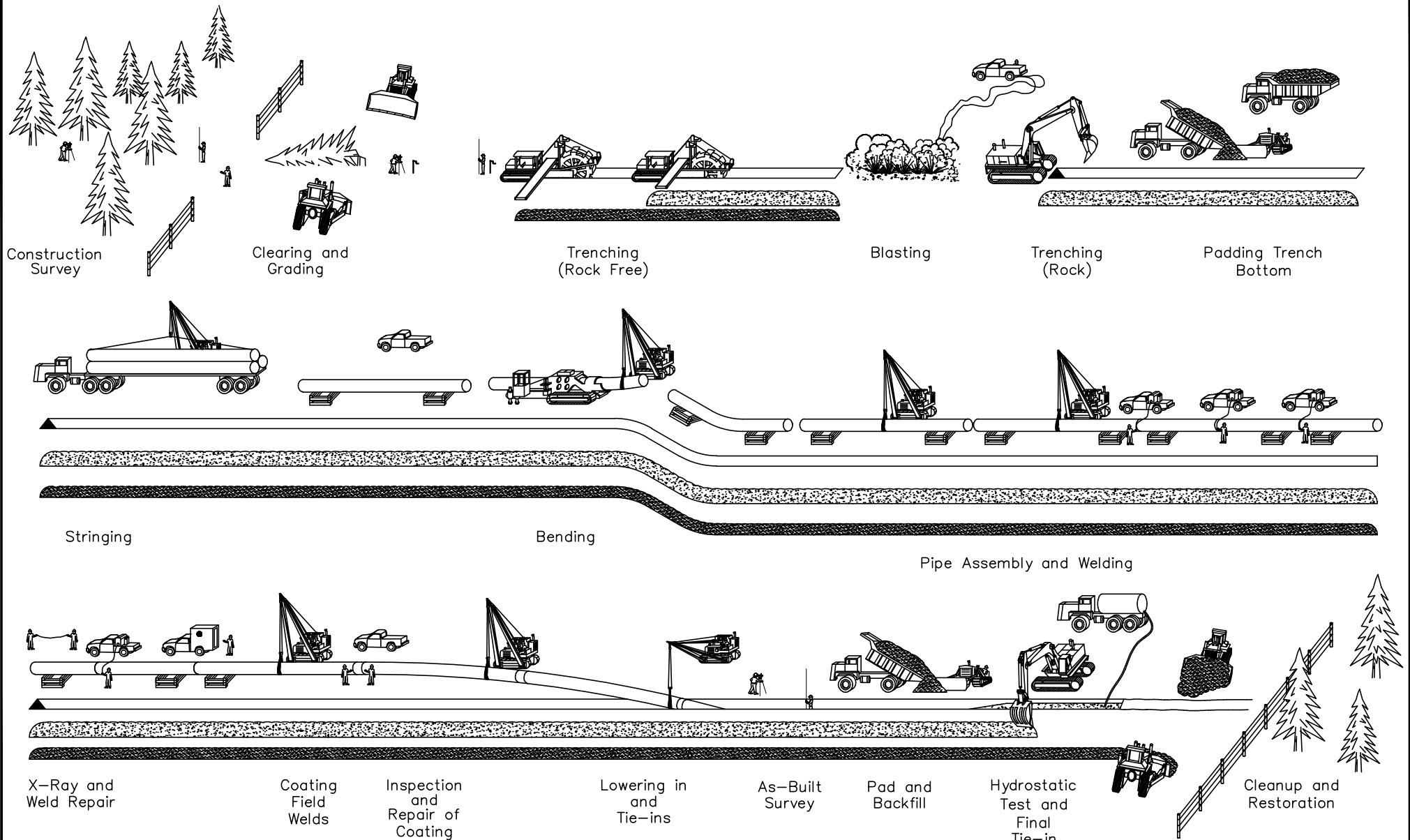


Base Map: 2014 Aerial Imagery
Source: USDA/FSA -
Aerial Photography Field Office
Quadrangle: West Fargo North (1976)

Township/Range: T. 140N, R. 50W

Cass County, North Dakota
Projection: NAD 1983 UTM Zone 14N





Construction Survey

Clearing and Grading

Trenching (Rock Free)

Blasting

Trenching (Rock)

Padding Trench Bottom

Stringing

Bending

Pipe Assembly and Welding

X-Ray and Weld Repair

Coating Field Welds

Inspection and Repair of Coating

Lowering in and Tie-ins

As-Built Survey

Pad and Backfill

Hydrostatic Test and Final Tie-in

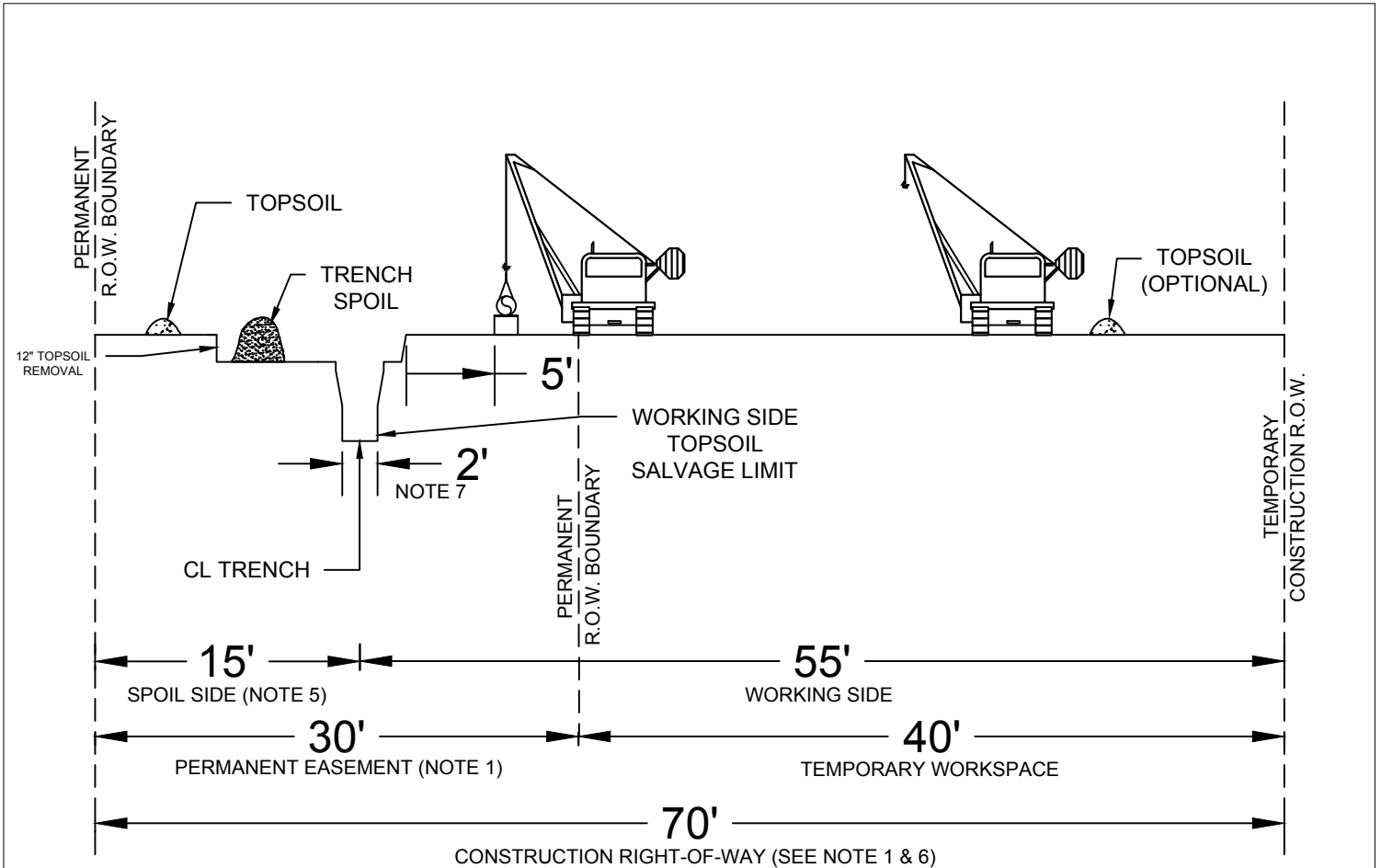
Cleanup and Restoration

						Laurel Refined Products Pipeline	
						PIPELINE CONSTRUCTION SEQUENCE	
						CASS COUNTY	
						NORTH DAKOTA	
						DATE: _____	
						DRAWN BY: _____	
						CHECKED BY: _____	
						DATE: _____	
						DRAWING NUMBER: _____	
						SHEET NO.: _____	
						REV: _____	

REV LEVEL	DATE	BY	DESCRIPTION	CK	APP

REVISIONS

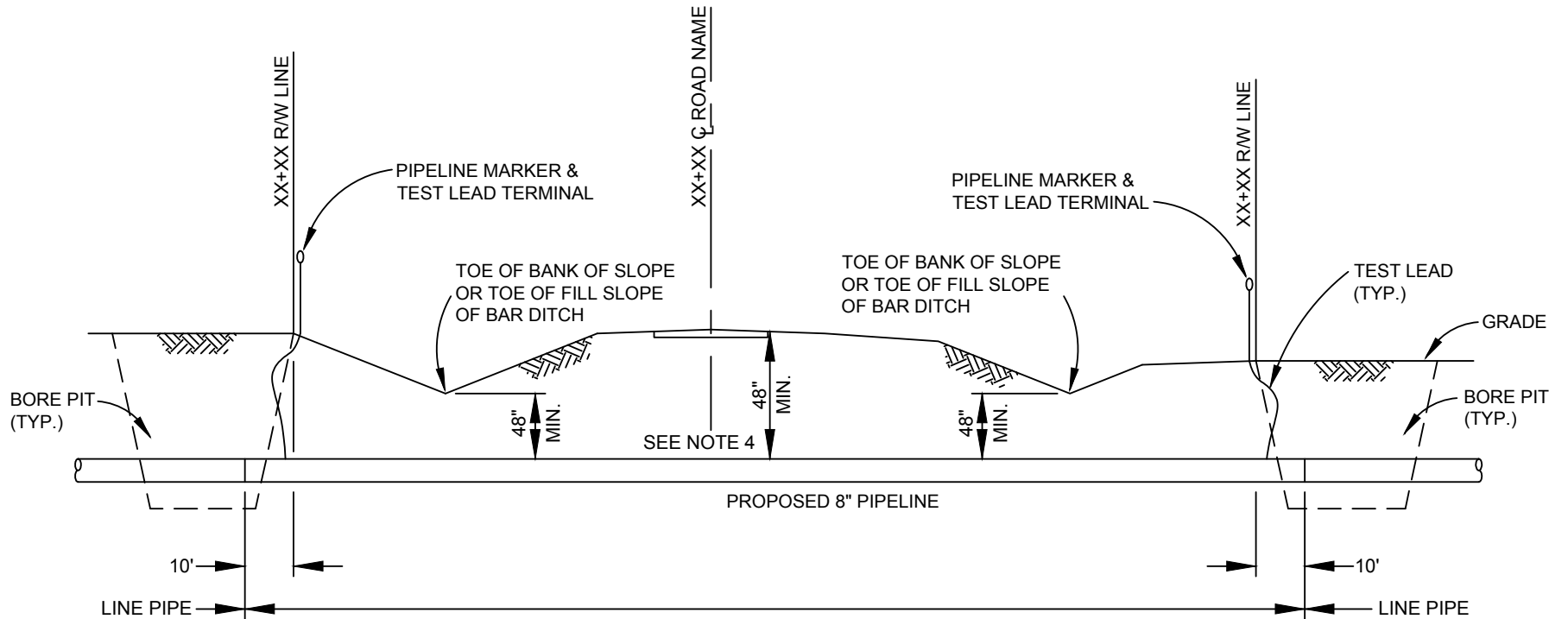
CONSTRUCTION RIGHT-OF-WAY TYPICAL



PROFILE
NOT TO SCALE

NOTES:

1. CONSTRUCTION RIGHT-OF-WAY WILL TYPICALLY BE 70' WIDE CONSISTING OF 30' OF PERMANENT EASEMENT AND 40' OF TEMPORARY WORKSPACE. EXTRA TEMPORARY WORKSPACE WILL BE NECESSARY AT MAJOR ROAD, RAIL, RIVER CROSSINGS AND OTHER SPECIAL CIRCUMSTANCES, AS REQUIRED. CERTAIN SITUATIONS MAY REQUIRE A NARROWER WIDTH.
2. THIS DRAWING REFLECTS "TRENCH AND SPOIL SIDE" TOPSOIL STRIPPING PROCEDURE. SALVAGE TOPSOIL OVER TRENCH AND UNDER THE SPOIL PILE AT LOCATION IDENTIFIED ON THE CONSTRUCTION ALIGNMENT SHEETS, OR AS DIRECTED BY THE COMPANY INSPECTOR. DEPTH OF TOPSOIL STRIPPING IS NOT TO EXCEED 12".
3. STOCKPILE TOPSOIL AS SHOW OR IN ANY CONFIGURATION APPROVED BY THE COMPANY INSPECTOR. KEEP TOPSOIL AND SPOIL PILES CLEAN OF ALL CONSTRUCTION DEBRIS. MAINTAIN A MINIMUM OF 12" OF SEPARATION BETWEEN TOPSOIL AND TRENCH SPOIL PILES. ENSURE THAT TOPSOIL AND TRENCH SPOIL DO NOT MIX.
4. LEAVE GAPS IN TOPSOIL AND SPOIL PILES AT OBVIOUS DRAINAGES. DO NOT PUSH UPLAND SOILS INTO CREEKS OR WETLANDS. DO NOT USE TOPSOIL FOR PADDING. AVOID SCALPING VEGETATED GROUND SURFACE WHEN BACKFILLING TOPSOIL AND SPOILS PILES.
5. THE OFFSET FROM EXISTING PIPELINE, WHERE APPLICABLE, WILL BE 25', BUT MAY BE INCREASED OR DECREASED DEPENDING ON THE SITE SPECIFIC CONSTRUCTION REQUIREMENTS.
6. TEMPORARILY SUSPEND TOPSOIL HANDLING OPERATION DURING EXCESSIVELY WINDY CONDITIONS UNTIL MITIGATIVE MEASURES TO MINIMIZE WIND EROSION CAN BE IMPLEMENTED.
7. BOTTOM OF TRENCH WIDTH WILL BE AN AVERAGE OF 2' (TYPICAL). HOWEVER, UNDER CERTAIN CIRCUMSTANCES, THE TRENCH MAY BE A MAXIMUM OF 10' WIDE.
8. TOPSOIL AND TRENCH SPOIL RELATIVE POSITIONS CAN, AS DIRECTED BY THE COMPANY INSPECTOR, BE REVERSED.



IMPROVED UNCASSED ROAD - CROSSING BORING METHOD

NOTES:

1. DESIGN FACTOR: IN ACCORDANCE WITH ALIGNMENT SHEETS
2. 100% X-RAY INSPECT ALL WELDS ON CARRIER PIPE IN ACCORDANCE WITH API STANDARD 1104 AND CONTRACT DOCUMENTS.
3. CONTRACTOR TO SLICK BORE CARRIER PIPE WITH A PROCEDURE SUBMITTED BY CONTRACTOR AND APPROVED BY THE COMPANY.
4. MINIMUM DEPTH OF COVER UNDER ROAD TO TOP OF PIPE SHALL BE 4'-0" OR SHALL CONFORM TO THE ROAD CROSSING PERMIT, WHICHEVER IS GREATER. ROAD CROSSING PIPE TO EXTEND 10' BEYOND ON EITHER SIDE OF DESIGNATED ROAD RIGHT-OF-WAY.
5. CATHODIC TEST STATION TO BE INSTALLED (IF REQUIRED), SEE CST-P-1085-B030.
6. PIPELINE MARKER TO BE INSTALLED PER DRAWING STD-P-0100-A200 AND STD-P-0100-A205.
7. PIPELINE MARKER & TEST STATIONS TO BE INSTALLED ON ROW LINE NEXT TO FENCE IF POSSIBLE.
8. CARRIER PIPE IS TO BE COATED WITH APPROVED EXTERNAL PROTECTIVE COATING, SEE ENGINEERING SECTION #M8380.
9. CROSSING TO BE AS NEAR TO 90° TO THE CENTERLINE OF ROADWAY AS PRACTICAL.
10. CONTRACTOR TO COMPLY TO THE SPECIFICATION REQUIREMENTS.

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REV LEVEL	DATE	BY	DESCRIPTION	CK	APP

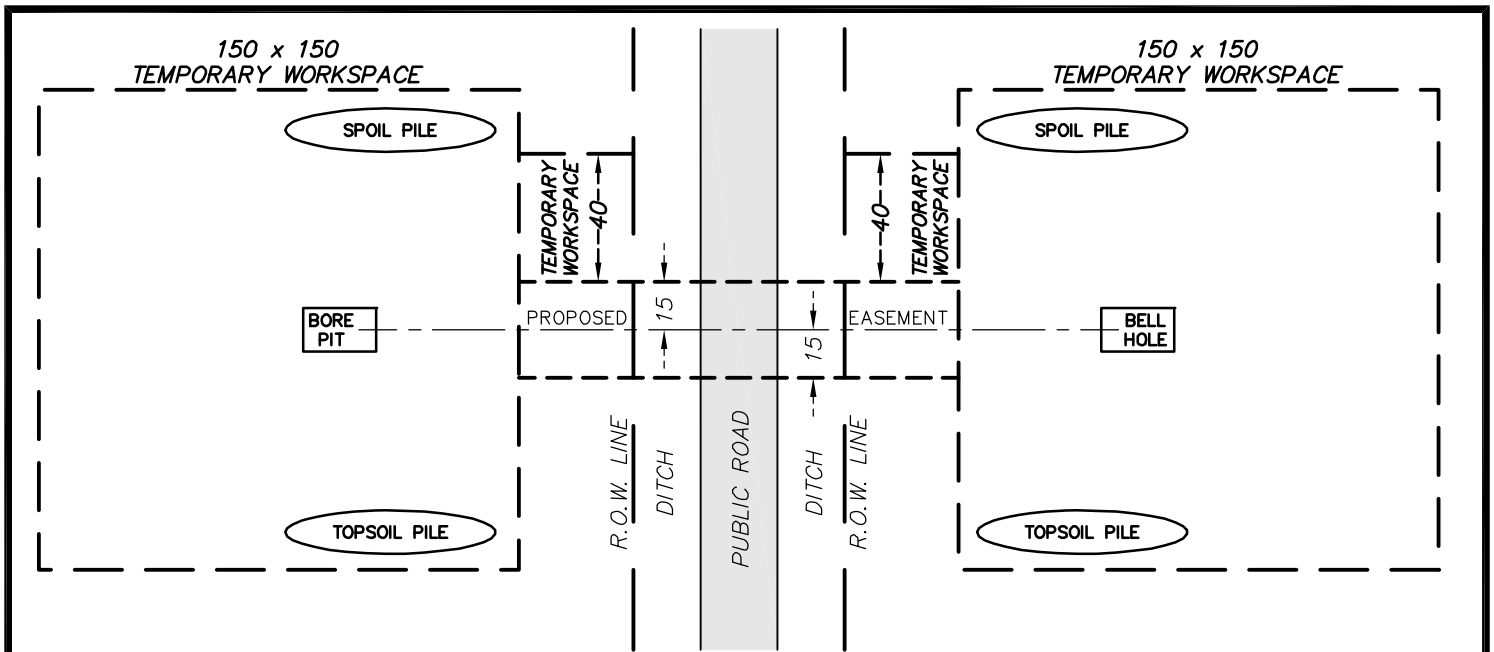
REVISIONS

LAUREL REFINED PRODUCTS PIPELINE

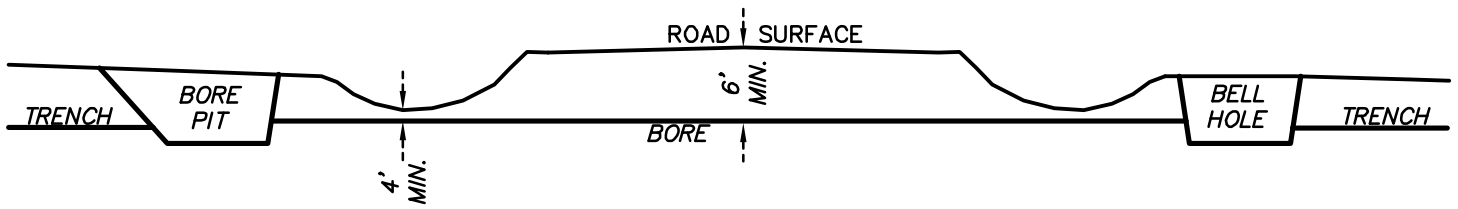
BORED ROAD CROSSING

CASS COUNTY

DATE: _____ PROJECT DATE: _____ DRAWN BY: _____ CHECK NO: _____ DESIGNING NUMBER: _____ NORTH DAKOTA SHEET NO.: _____ REV: _____



PLAN



PROFILE

NOTES:

1. PROTECTIVE LAYER SHALL BE USED ON PAVED ROAD SURFACES TO PREVENT DAMAGE FROM TRACKED EQUIPMENT.
2. IF NECESSARY, INSTALL TEMPORARY CULVERT AND FILL IN BORROW PIT.
3. MAINTAIN EXISTING VEGETATION IN BORROW PITS. STRIPPING SHOULD BE LIMITED TO THE AREA OF TEMPORARY CROSSING. PROVIDE SEDIMENT CONTROLS IN ACCORDANCE WITH STORM WATER MANAGEMENT PLAN.
4. ELEVATION OF BORE PIT AND BELL HOLE FLOORS TO BE ADJUSTED TO PROVIDE MINIMUM COVER BELOW ROADWAY AND BORROW PITS.
5. THIS DETAIL HAS BEEN PREPARED FOR ENVIRONMENTAL REVIEW PURPOSES ONLY.



PIPELINE OPERATING PARTNERSHIP, L.P.

TYPICAL ROAD CROSSING
LAUREL 8 INCH PIPELINE
BORE

CASS COUNTY

NORTH DAKOTA

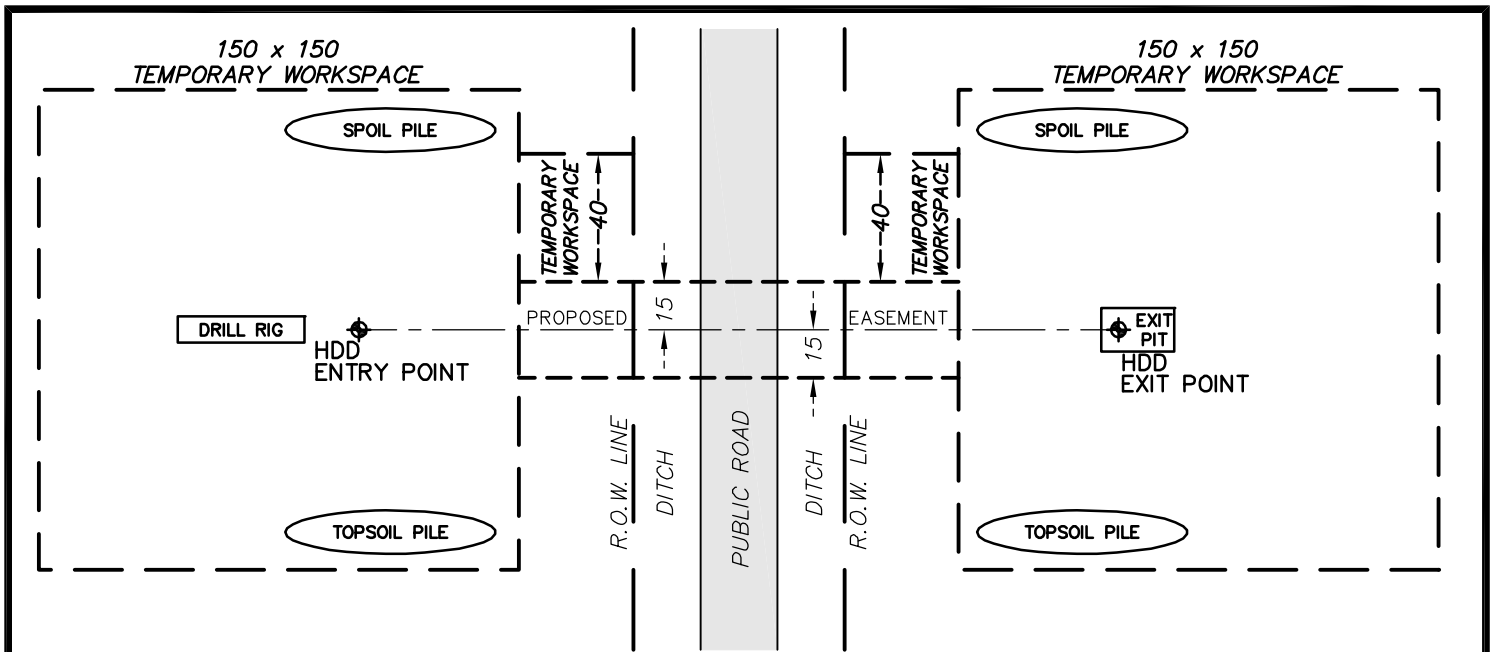


1229 Tyler Street NE, Suite 100
Minneapolis, Minnesota 55413
PHONE: (612) 466-3300
FAX: (612) 466-3383
WWW.EFNSURVEY.COM

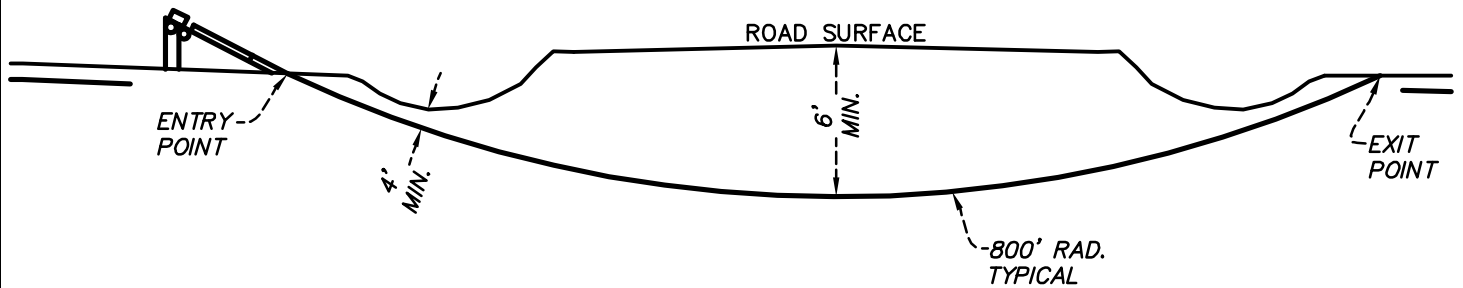
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Land surveyors since 1872

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IMAGERY DATE:	DRAWN BY: KTB	CLIENT PROJECT NO: 4501408861
SURVEY BY:	DRAWING DATE: 8/18/15	EFN PROJECT NO.: 36198
DWG BY: EFN	APPROVED:	SCALE: NOT TO SCALE
CHECKED BY:		SHEET: 1 OF 1



PLAN



PROFILE

NOTES:

1. PROTECTIVE LAYER SHALL BE USED ON PAVED ROAD SURFACES TO PREVENT DAMAGE FROM TRACKED EQUIPMENT.
2. IF NECESSARY, INSTALL TEMPORARY CULVERT AND FILL IN BORROW PIT.
3. MAINTAIN EXISTING VEGETATION IN BORROW PITS. STRIPPING SHOULD BE LIMITED TO THE AREA OF TEMPORARY CROSSING. PROVIDE SEDIMENT CONTROLS IN ACCORDANCE WITH STORM WATER MANAGEMENT PLAN.
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5. THIS DETAIL HAS BEEN PREPARED FOR ENVIRONMENTAL REVIEW PURPOSES ONLY.



PIPELINE OPERATING PARTNERSHIP, L.P.

TYPICAL ROAD CROSSING
LAUREL 8 INCH PIPELINE
HORIZONTAL DIRECTIONAL DRILL

CASS COUNTY

NORTH DAKOTA

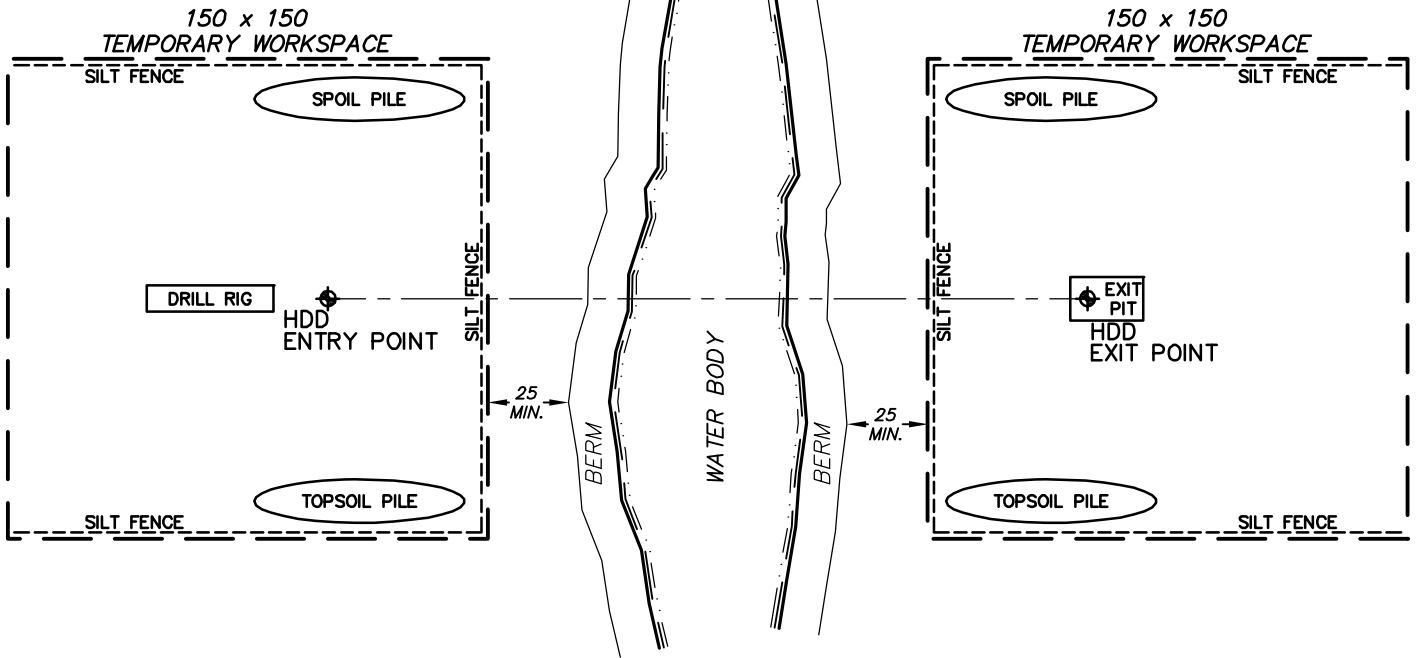


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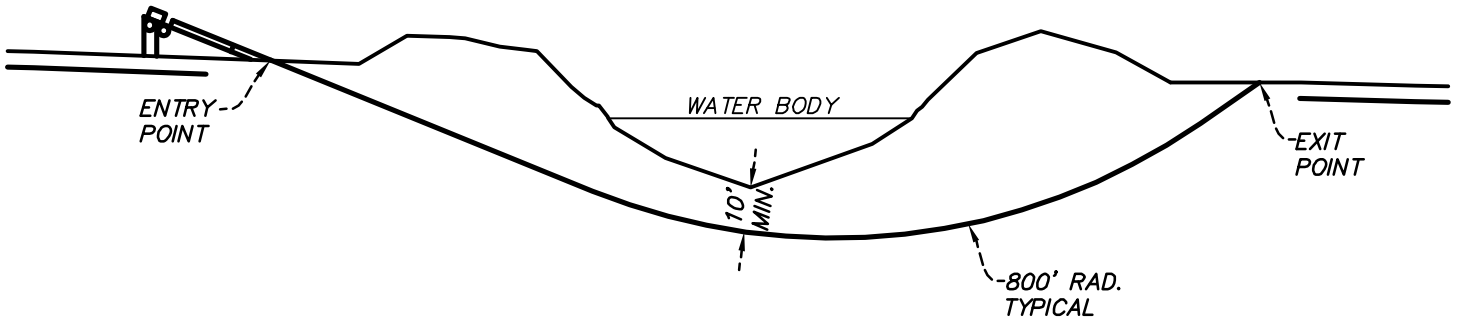
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SURVEY BY:	DRAWING DATE: 8/18/15	EFN PROJECT NO.: 36198
DWG BY: EFN	APPROVED:	SCALE: NOT TO SCALE
CHECKED BY:		SHEET: 1 OF 1



PLAN



PROFILE

NOTES:

1. WORKSPACE WILL BE A MINIMUM OF 25 FEET FROM BERM TOE.
2. ENSURE THAT ONLY BENTONITE BASED DRILLING MUD IS USED. DO NOT ALLOW THE USE OF ANY ADDITIVES TO THE DRILLING MUD WITHOUT THE APPROVAL OF COMPANY'S INSPECTOR.
3. INSTALL SUITABLE DRILLING MUD TANKS OR SUMPS TO PREVENT CONTAMINATION OF WATERCOURSE.
4. INSTALL BERM DOWN SLOPE FROM THE DRILL ENTRY AND ANTICIPATED EXIT POINTS TO CONTAIN ANY RELEASE OF DRILLING MUD.
5. DISPOSE OF DRILLING MUD IN ACCORDANCE WITH THE APPROPRIATE REGULATORY AUTHORITY REQUIREMENTS.
6. THIS DETAIL HAS BEEN PREPARED FOR ENVIRONMENTAL REVIEW PURPOSES ONLY.



PIPELINE OPERATING PARTNERSHIP, L.P.

TYPICAL WATER BODY CROSSING
LAUREL 8 INCH PIPELINE
HORIZONTAL DIRECTIONAL DRILL

CASS COUNTY

NORTH DAKOTA

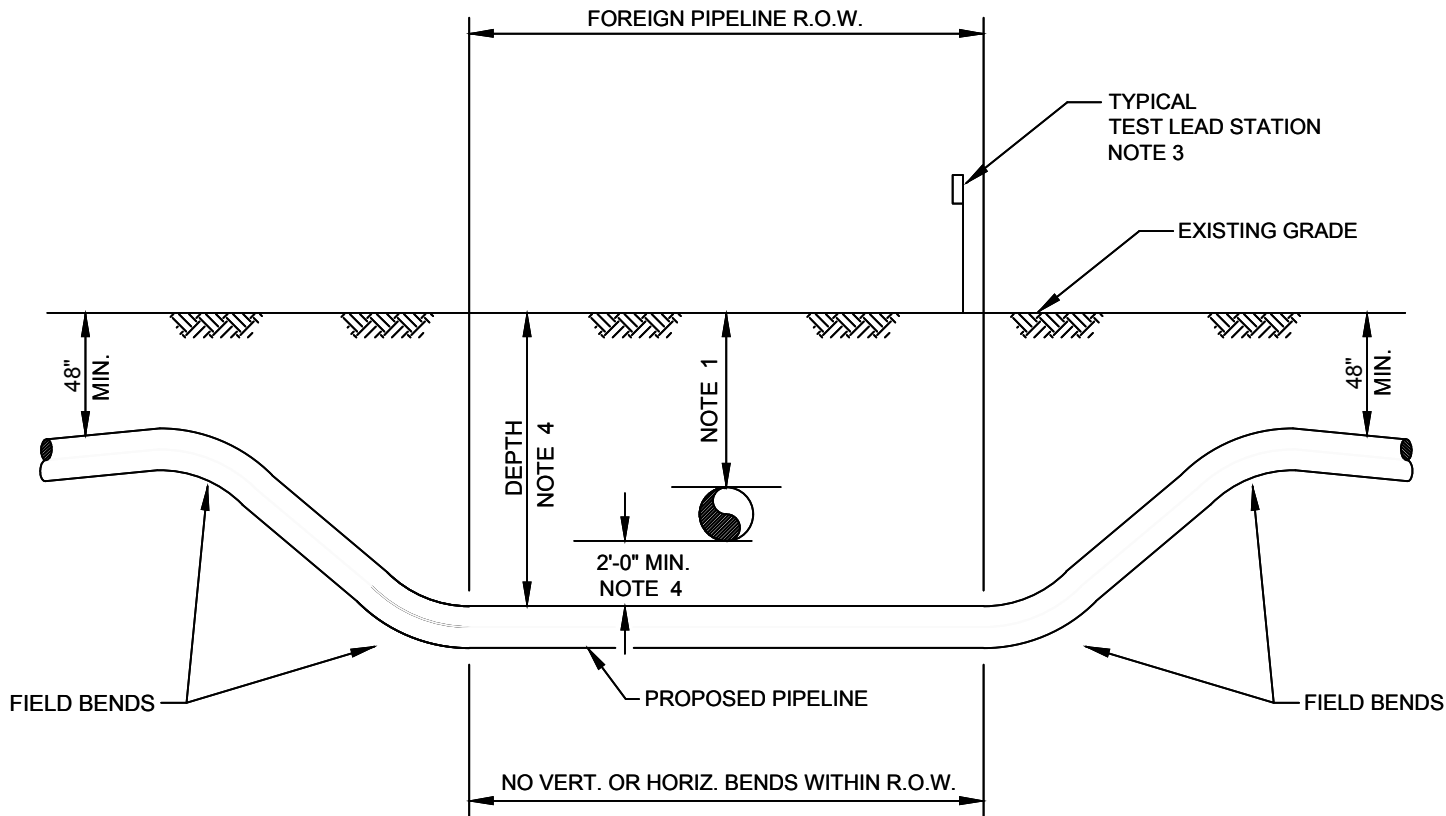


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DWG BY: EFN	APPROVED:	SCALE: NOT TO SCALE
CHECKED BY:		SHEET: 1 OF 1



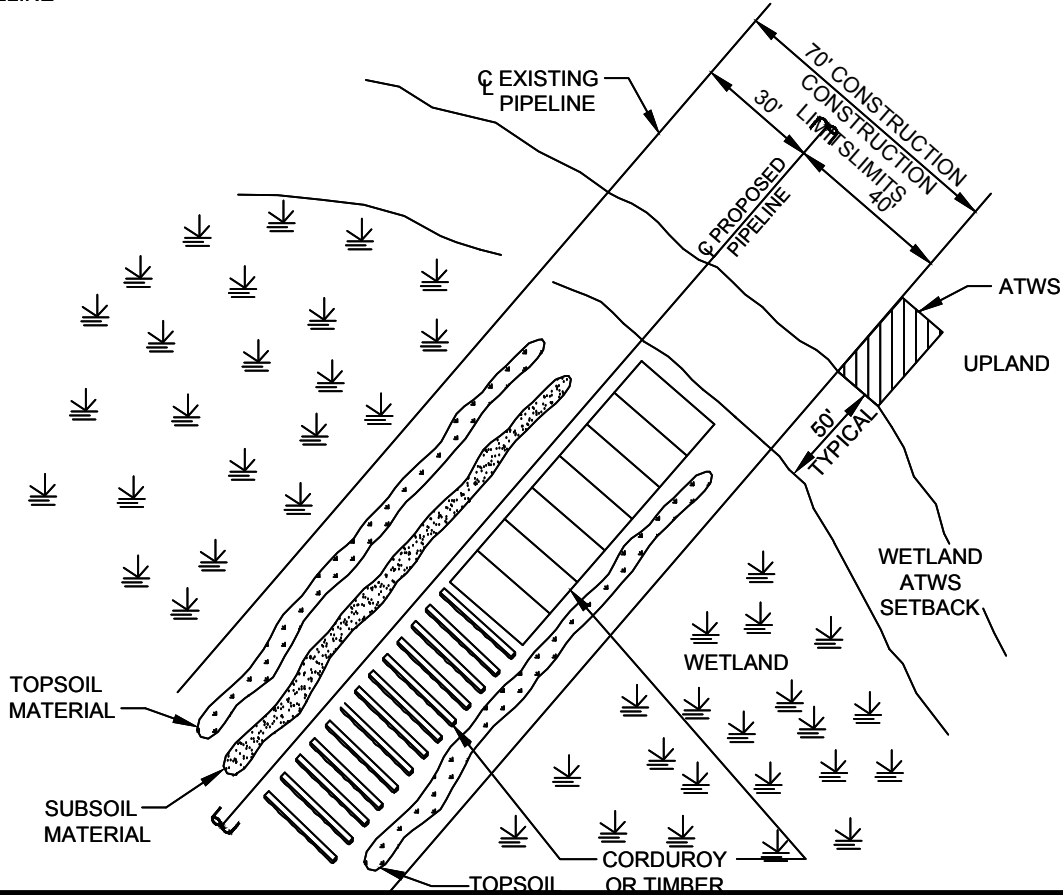
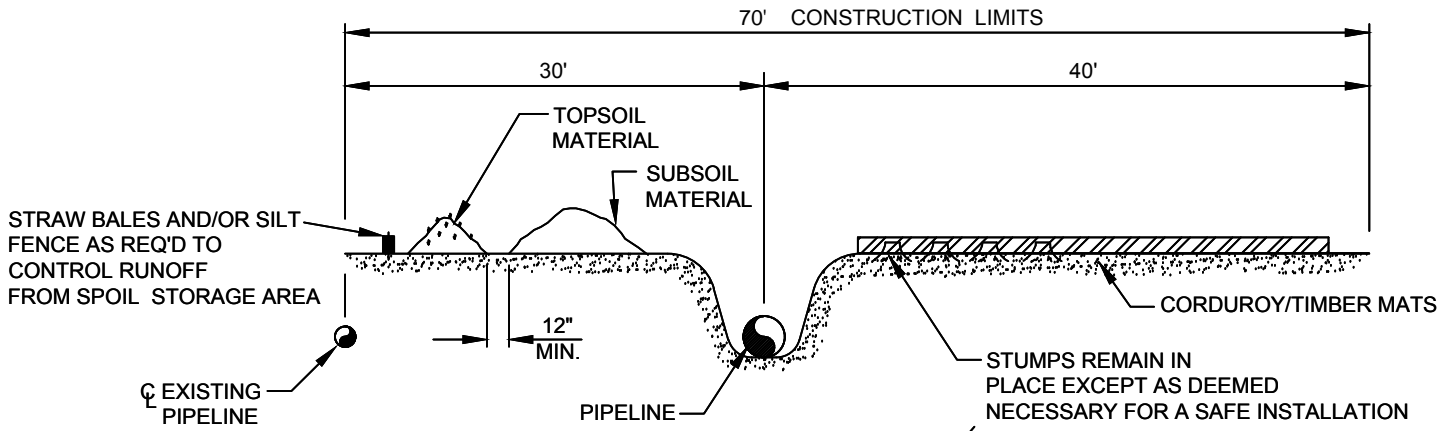
CROSS SECTION OF FOREIGN P/L R.O.W.

NOTES:

1. FOREIGN PIPELINE LOCATIONS & DEPTHS TO BE DETERMINED BY ELECTRONIC MEANS IN ADVANCE OF PIPELINE CONSTRUCTION AND CONFIRMED BY CAREFULLY EXPOSING BY HAND DIGGING WITHIN 24" IN ANY DIRECTION FROM THE PIPELINE.
2. OWNER OF FOREIGN PIPELINE(S) SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF EXCAVATION OF CROSSING.
3. TEST LEAD STATION TO BE INSTALLED WHERE PRACTICAL AT THE NEAREST FENCE, HEDGE ROW OR FIELD EDGE, AND WHERE READILY ACCESSIBLE. INSTALL COMPANY-SUPPLIED PERMANENT REFERENCE CELL AND EXTEND CELL LEAD TO TEST LEAD STATION.
4. DEPTH OF PIPELINE INCLUDING 2'-0" MIN. CLEARANCE SHALL BE MAINTAINED FOR ALL FULL ANGULAR WIDTH OF FOREIGN PIPELINE R.O.W.
5. PROPOSED PIPELINE MAY CROSS ABOVE THE FOREIGN PIPELINE(S) ONLY WHERE REQUESTED BY OR APPROVED BY FOREIGN OWNER IN WRITING.

REV. LEVEL	DATE	BY	DESCRIPTION	CK.	APP.

REVISIONS

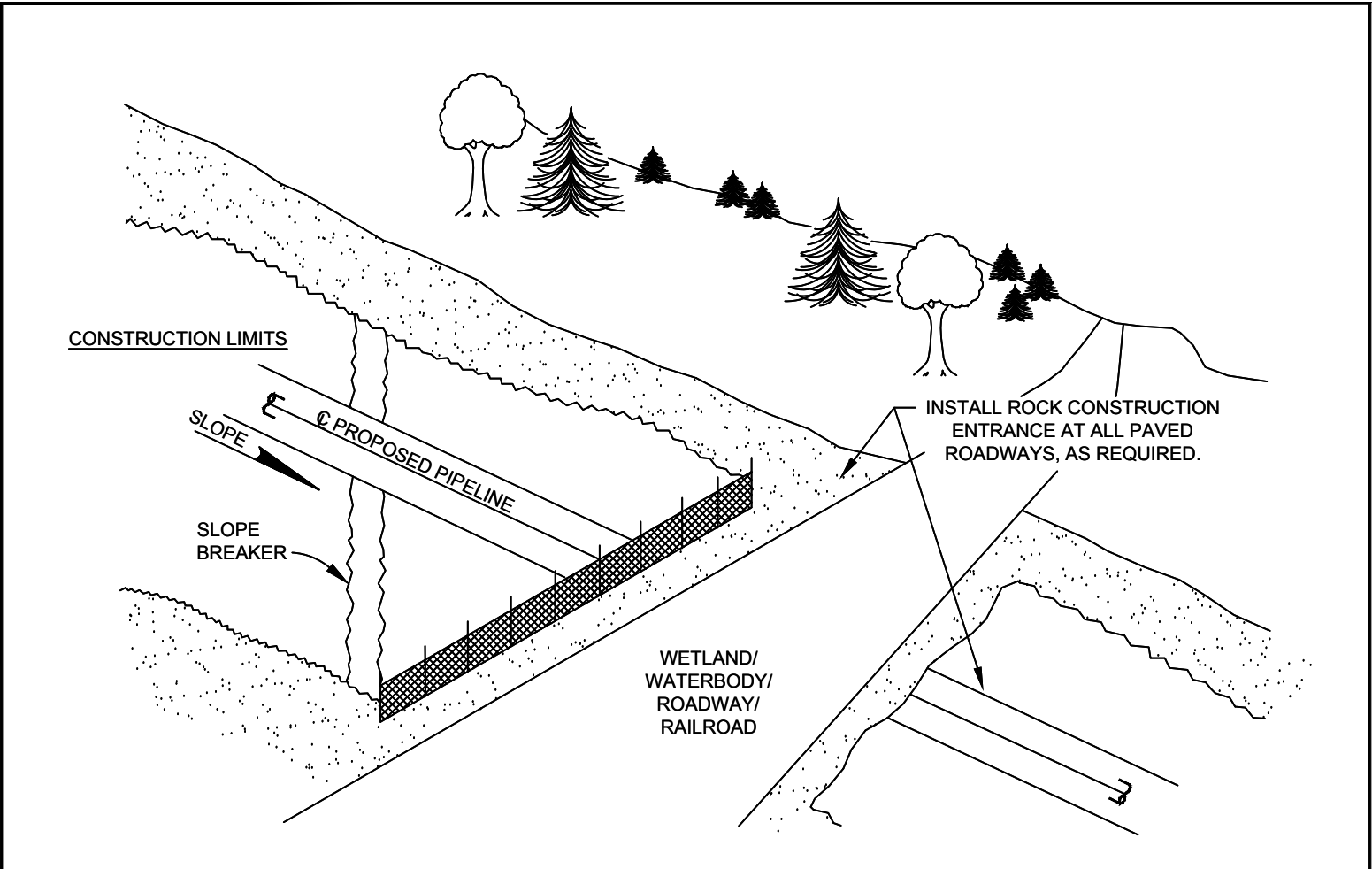


(OPTIONAL)

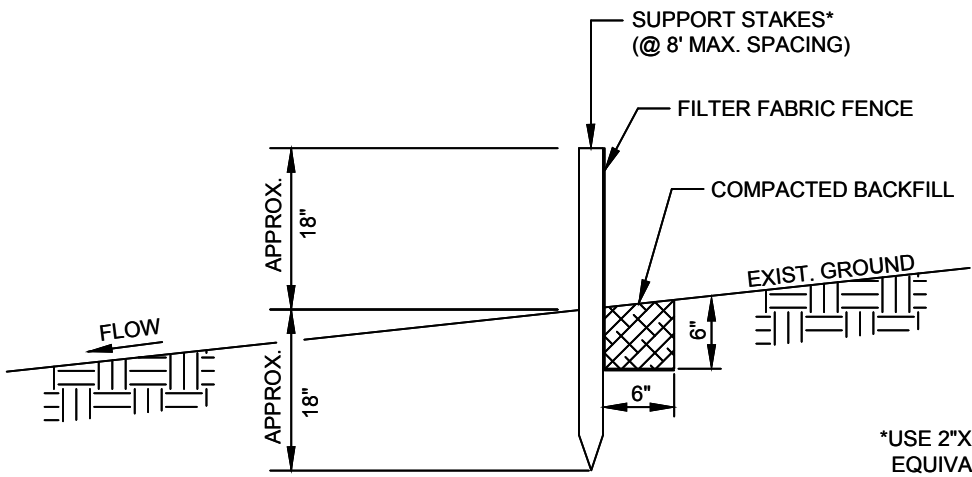
NOTES:

1. SEGREGATE TOPSOIL FROM THE AREA DISTURBED BY TRENCHING, EXCEPT IN AREAS WHERE STANDING WATER IS PRESENT OR SOILS ARE SATURATED OR FROZEN.
2. RE-SEED WITH ANNUAL RYEGRASS @ 40 LBS/ACRE (NOT TO EXCEED 48 LBS/ACRE) IN ALL AREAS WITHOUT STANDING WATER UNLESS ALTERNATIVES HAVE BEEN APPROVED BY MANAGING AGENCY.
3. NO FERTILIZER OR LIME SHALL BE USED.
4. INSTALL TRENCH PLUGS & WATERBAR ON BOTH SIDES OF WETLAND IF THE HYDROLOGICAL CONDITIONS WOULD DRAIN THE WETLAND.
5. DO NOT USE LIQUID MULCH BINDERS WITHIN 100' OF WETLANDS OR WATERBODIES.
6. IT IS ACCEPTABLE FOR E&S BMPs TO BE TEMPORARILY REMOVED FROM EQUIPMENT CROSSING PATHWAYS DURING PERIODS OF ACTIVE CONSTRUCTION IF THESE CONTROLS WILL BE PROPERLY REINSTALLED AT THE END OF EACH WORK DAY.
7. WETLAND MATS WILL BE PERMANENTLY REMOVED AFTER CLEAN UP/RESTORATION
8. MATS WILL BE 12' WIDE AND LENGTH IS DEPENDENT ON THE WETLAND CROSSING LENGTH FROM START TO END.

			TYPICAL WETLAND CONSTRUCTION
REVISIONS	DATE	BY	DESCRIPTION
REV LEVEL	DATE	BY	DESCRIPTION
CK	APP	DATE	REV



NOTES:



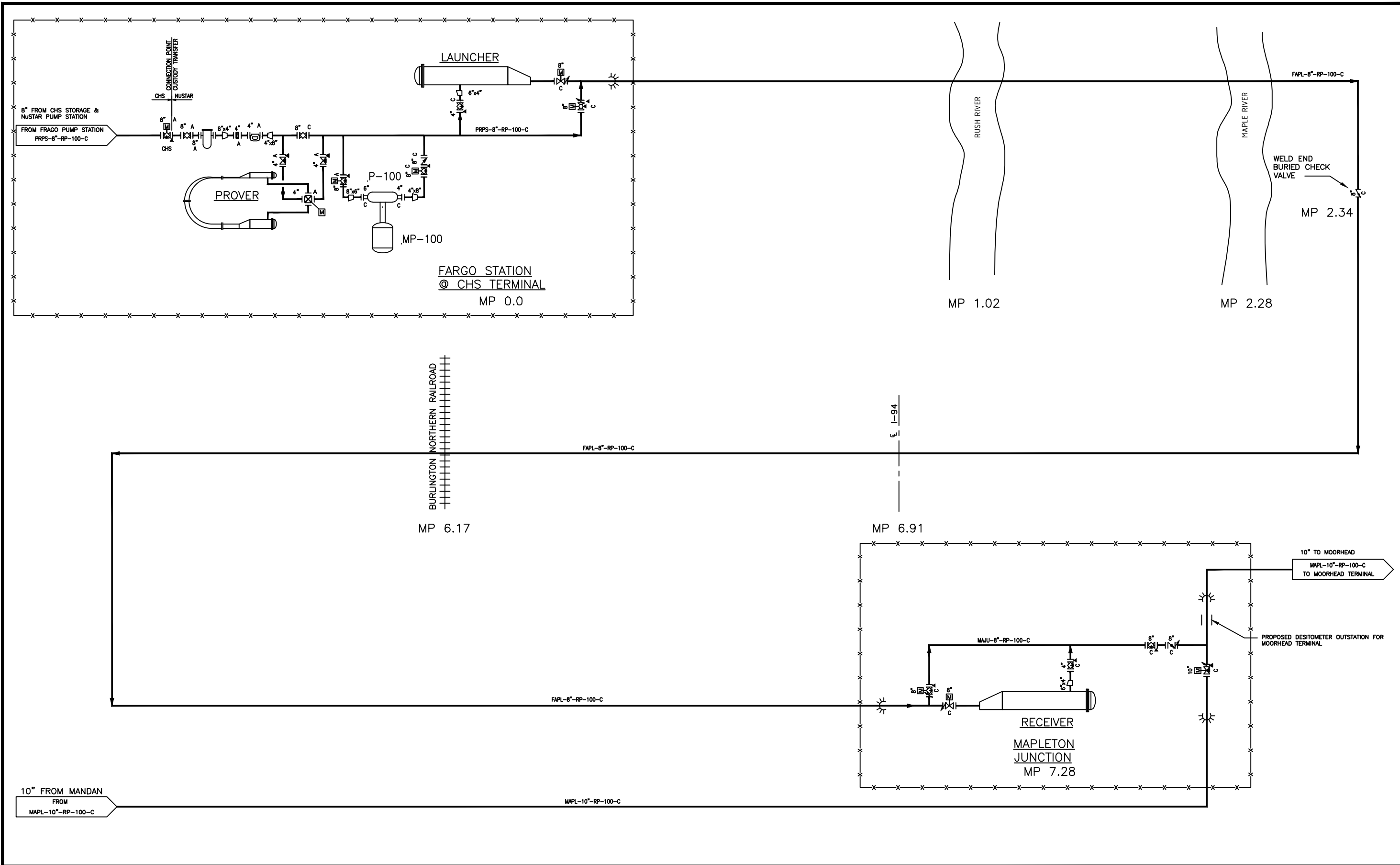
*USE 2"X2" WOOD OR EQUIVALENT STEEL STAKES

PERMANENT STABILIZATION IS DEFINED AS MINIMUM, UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION.

								TYPICAL STANDARD 18" SILT FENCE INSTALLATION (SHEET 1 OF 2)			
REV	LEVEL	DATE	BY	DESCRIPTION	CK	APP	DATE	REV	DATE	BY	DESCRIPTION
REVISIONS											

Friday, August 28, 2015 7:23:45 AM

V:\AFC\CENTRAL EAST REGION\NSPL-(North System Pipeline)\FAPL-(FARGO PIPELINE Binch)\03_Process\12 - Piping & Instrument Diagram\FAPL-12-001.dwg



NOTES:
1)

REFERENCE DRAWINGS:

NO.	REVISION	BY	DATE	APR
E	ADDED VALVES BOTH SIDES OF MAPLE RIVER	MEK	8-7-15	
D	ADDED EQUIPMENT TO PROSPER STATION	MEK	7-22-15	
H	REMOVED BLOCK VALVES BOTH SIDES OF MAPLE RIVER	MEK	8-28-15	
G	RENAME PIPELINE FROM LAUREL TO FARGO	MEK	8-26-15	
F	RENAMED CHS TERMINAL & ADDED MILE POSTS TO BLOCK VALVES SITES	MEK	6-17-15	DS

NuStar
Energy L.P.

19003 IH-10 WEST
San Antonio, Texas 78257
Tel: (210) 918-2000
1-800-866-9060

PROJECT LOCATION: CASS COUNTY, NORTH DAKOTA
DRAWN BY: MEK **DATE:** 6-17-15
CHECKED: DS **DATE:**
APPROVED: DS **DATE:**
SCALE: NONE

8" FARGO PIPELINE P&ID
ORIGINAL PROJECT NO. CE_00232
DRAWING NO. FAPL-12-001 **REV.** H