

APPENDIX A

Project Overview Maps and Engineering Drawings

Study Area Map

Proposed Route Map and Identified Exclusion and Avoidance Areas

Pipeline Construction Sequence

ROW Construction Schematic

Typical ROW Plan and Profile Details

Typical Conventional Road Bore Detail

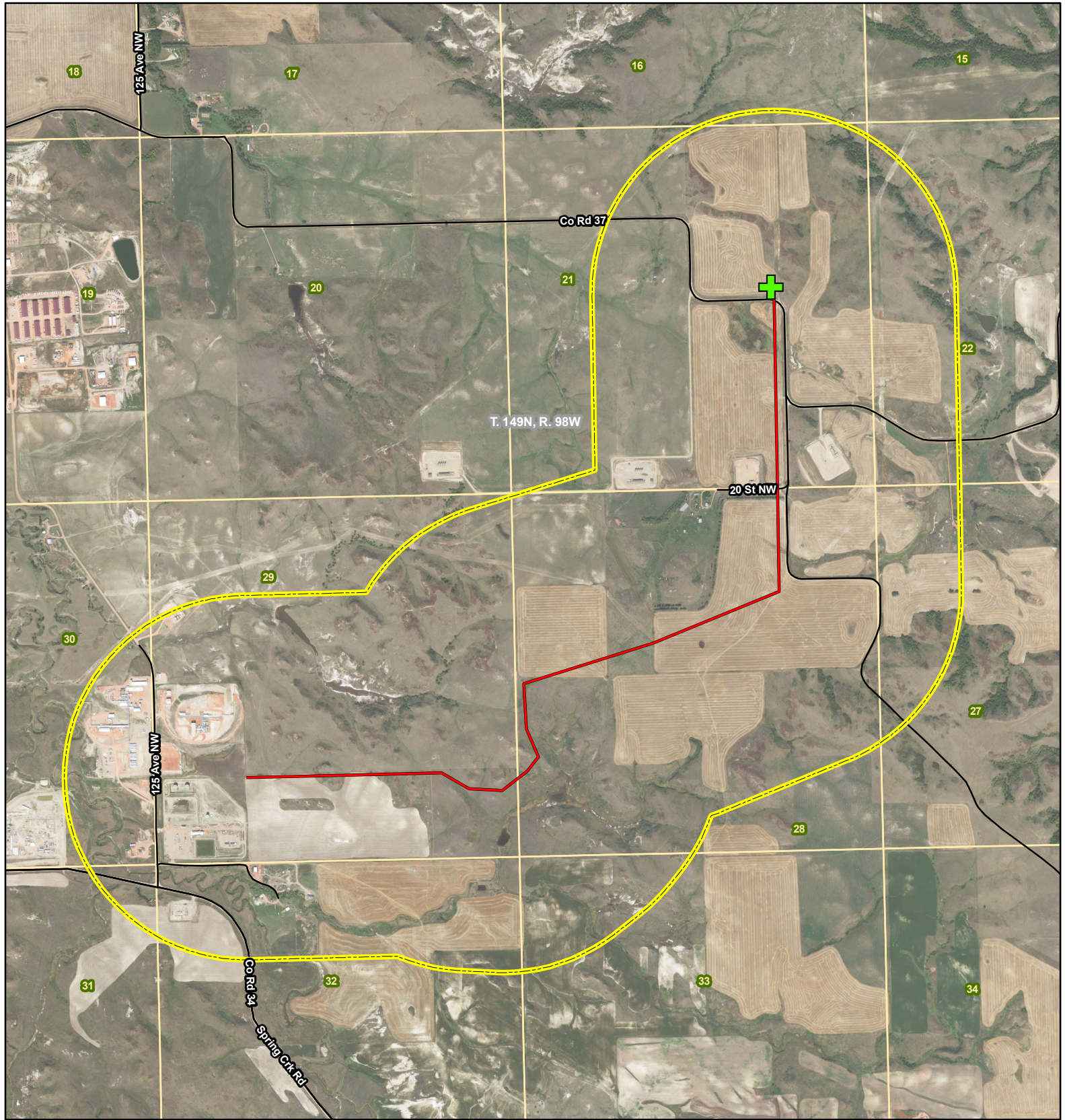
Typical Foreign Pipeline Crossing Detail

Typical Wetland Construction






Typical Strawbale Installation Detail

Typical Silt Fence Installation Detail

Typical Fiber Roll/Filter Sock Installation Detail



Legend

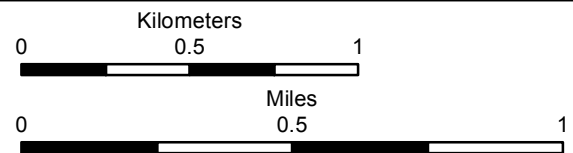
-  Proposed Gas Plant Location
-  Existing Road
-  Proposed Transmission Pipeline
-  1.0-mile Study Area
-  Section Boundary



116 North 4th Street
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Bismarck, ND 58501

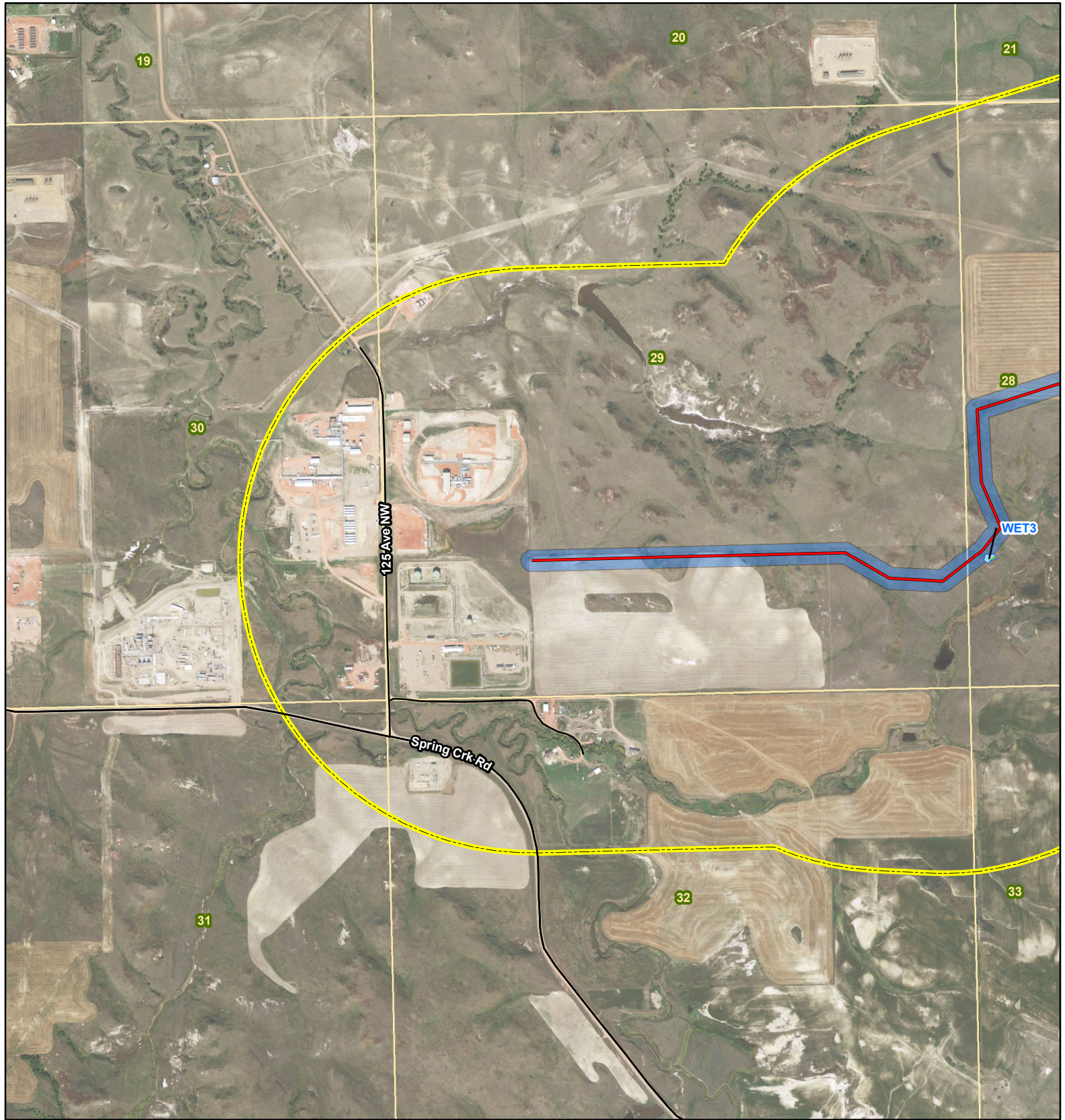
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




Base Map: 2015 Aerial Imagery
Source: USDA/FSA -
Aerial Photography Field Office
Quadrangle: Teepee Buttes (1995),
Lone Butte NW (1995)
T. 149N, R. 98W
McKenzie County, North Dakota
Projection: NAD 1983 UTM Zone 13N





Legend

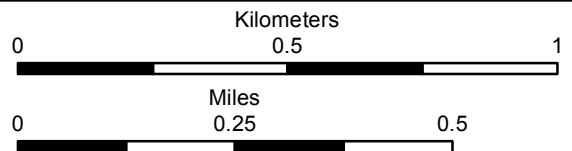
-  Proposed Residue Gas and NGL Pipelines
-  Existing Road
-  Wetland
-  Survey Area
-  1.0-mile Study Area
-  Section Boundary



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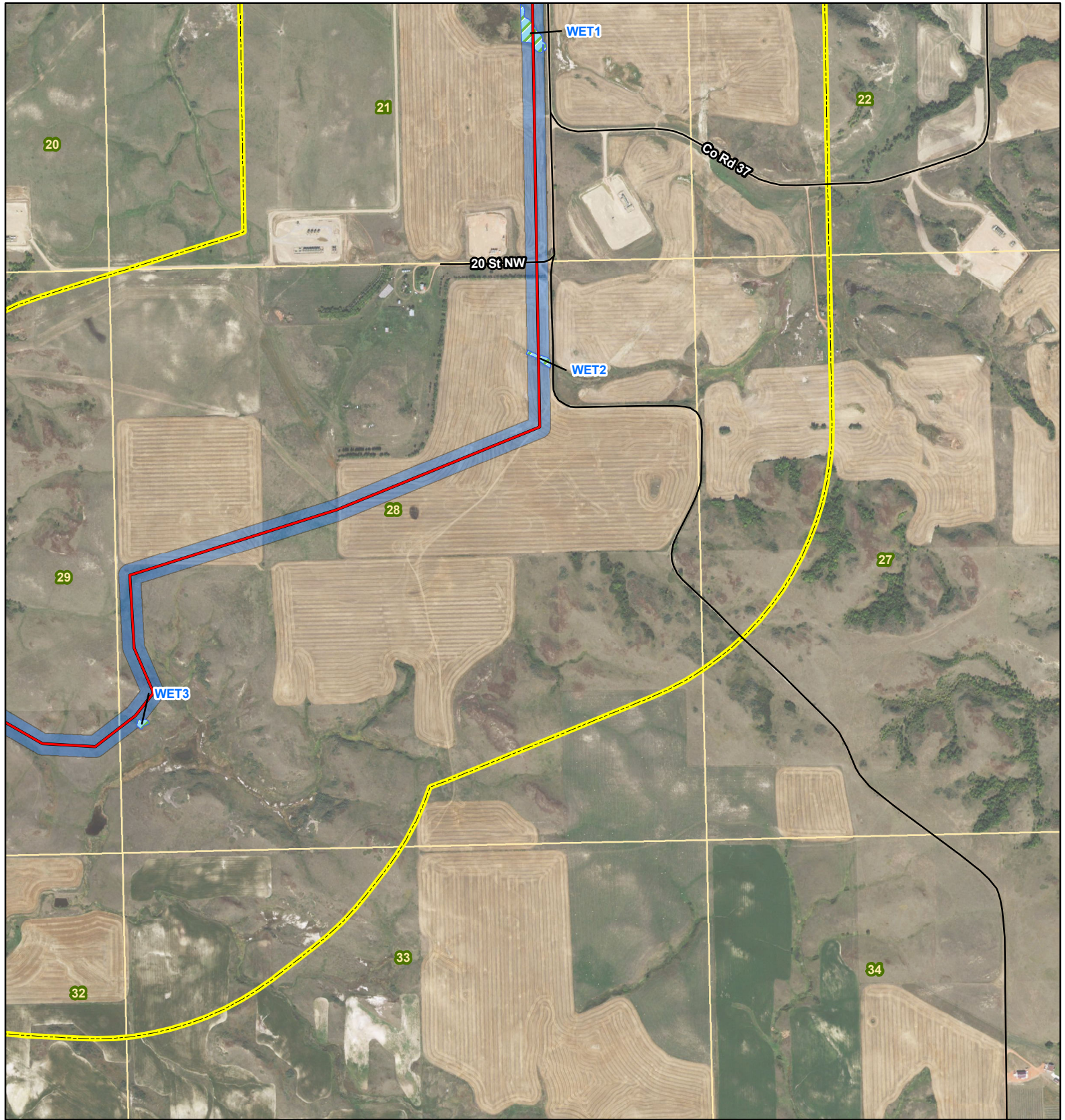
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Base Map: 2015 Aerial Imagery
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Quadrangle: Tepee Buttes (1995), Lone Butte NW (1995)
Township/Range: T. 149N, R. 98W
McKenzie County, North Dakota

Projection: NAD 1983 UTM Zone 13N





Legend

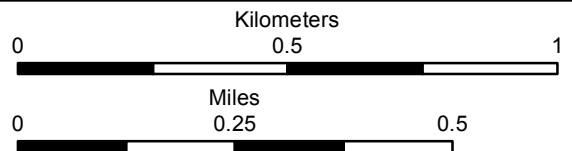
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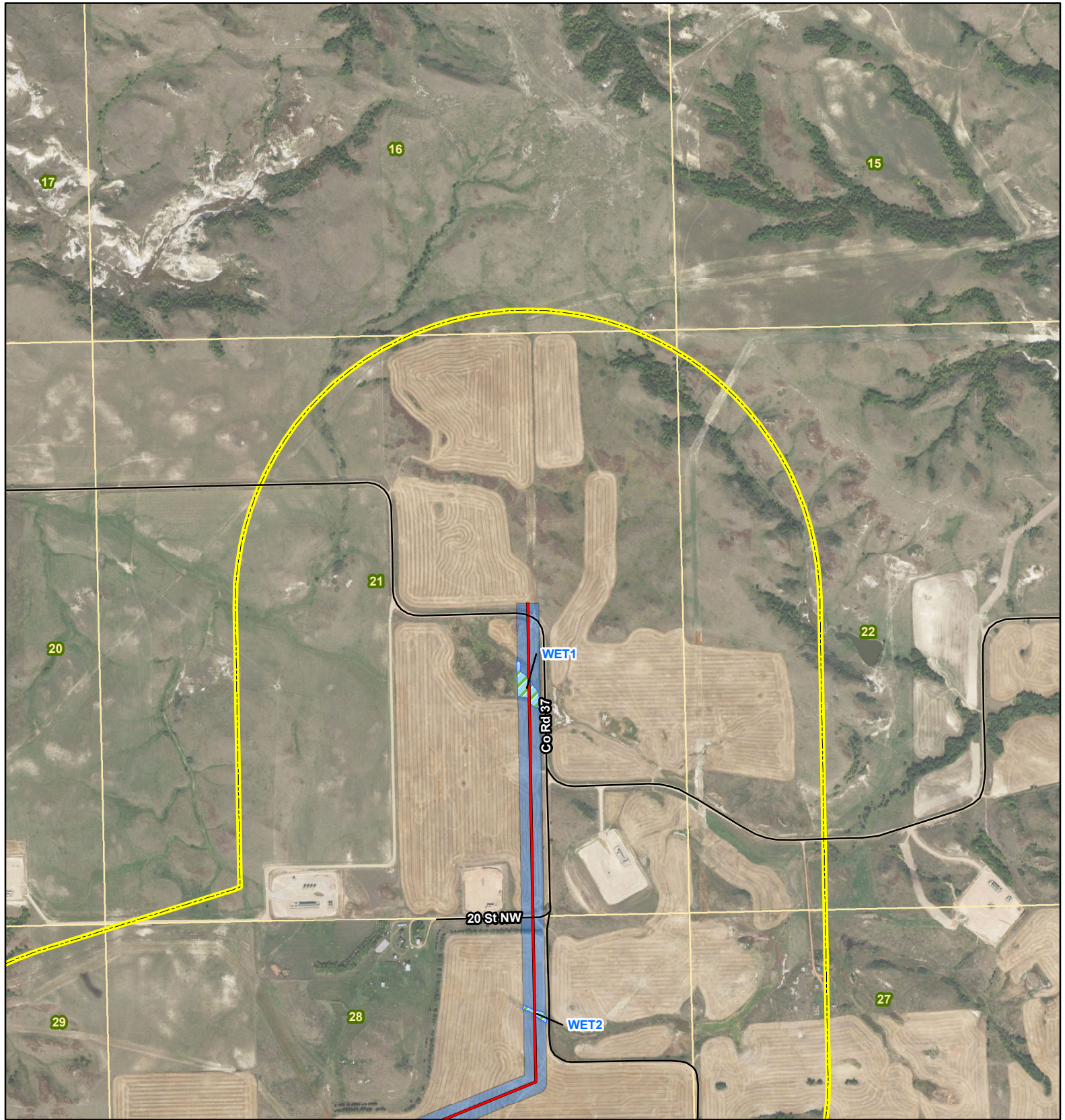


Base Map: 2015 Aerial Imagery
Source: USDA/FSA - Aerial Photography Field Office
Quadrangle: Lone Butte NW (1995)







Township/Range: T. 149N, R. 98W
McKenzie County, North Dakota

Projection: NAD 1983 UTM Zone 13N





Legend

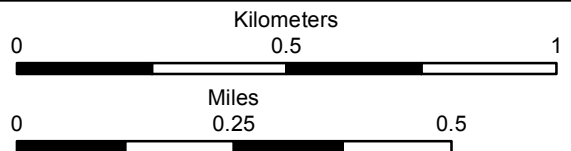
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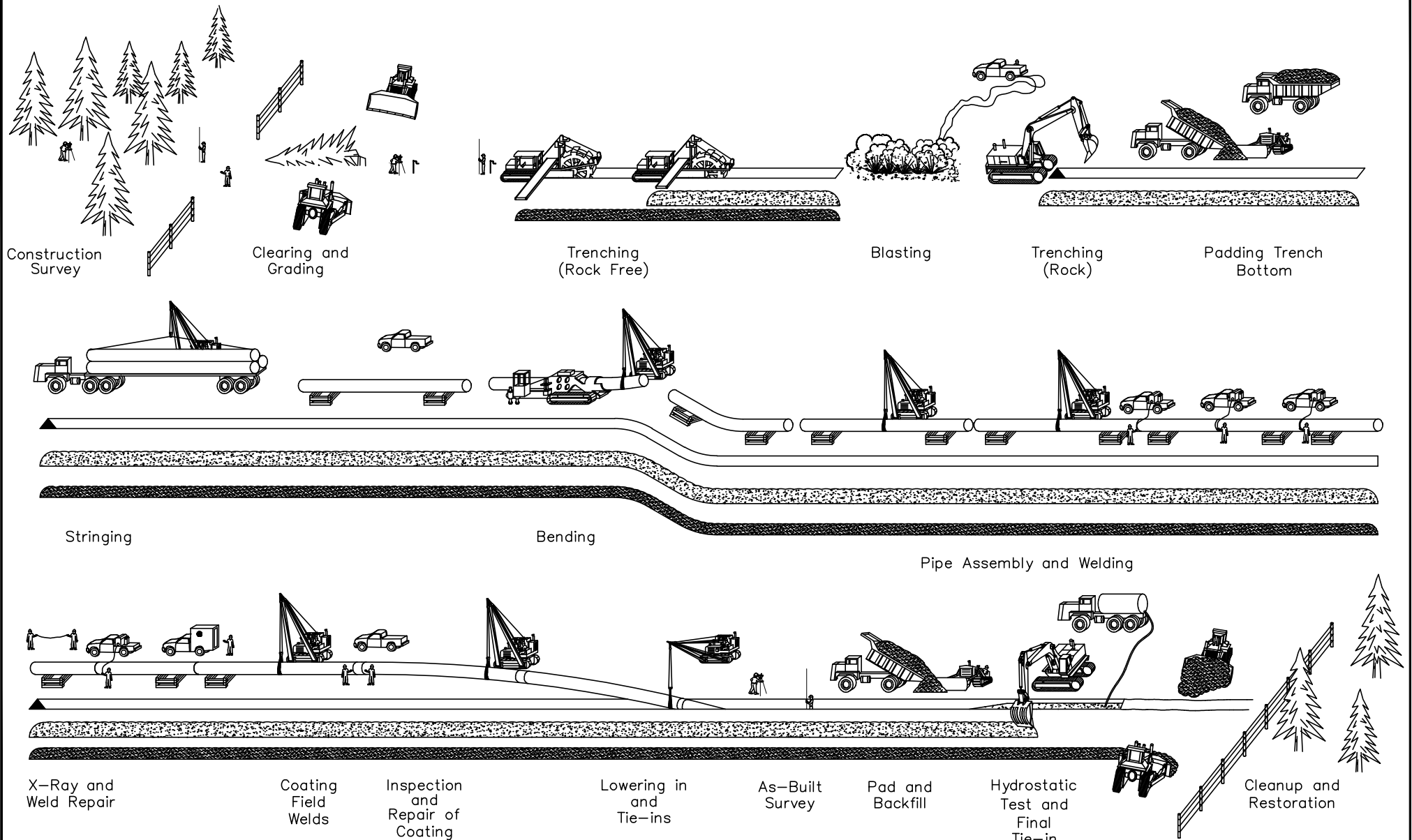


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Quadrangle: Lone Butte NW (1995)

Township/Range: T. 149N, R. 98W
McKenzie County, North Dakota

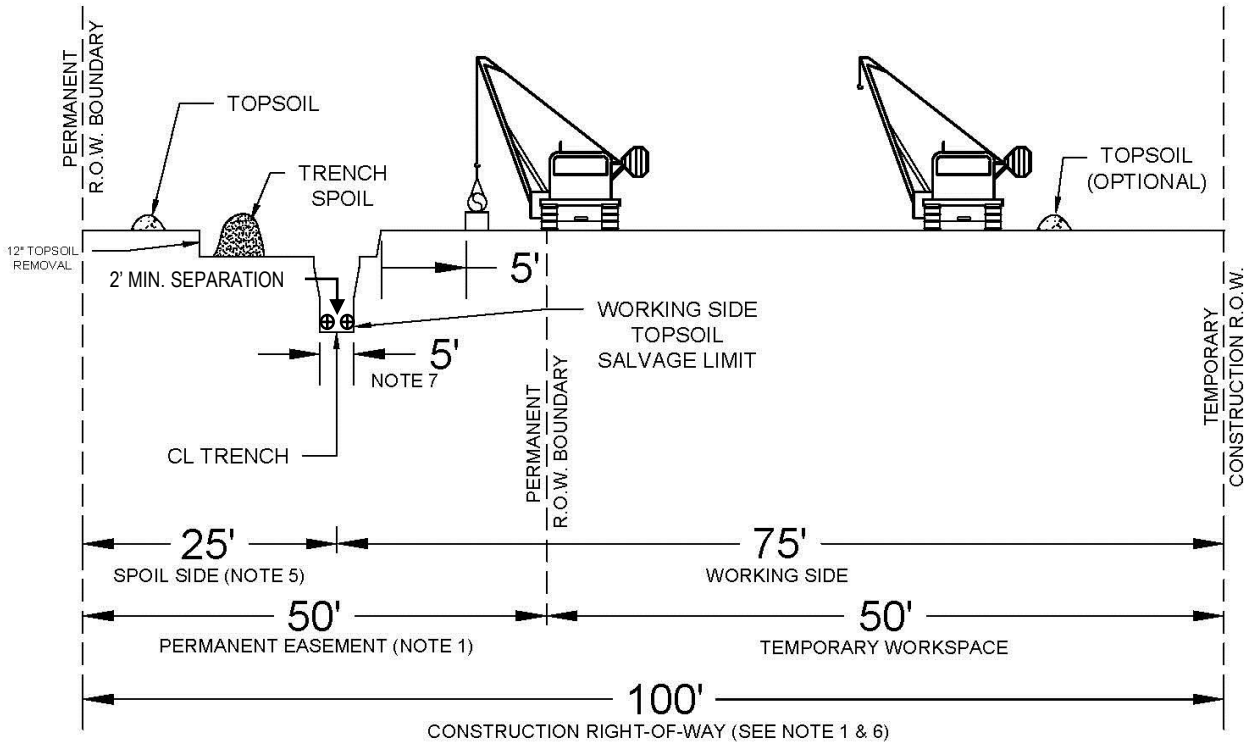
Projection: NAD 1983 UTM Zone 13N





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	REV LEVEL	DATE	BY	DESCRIPTION	CK	APP	<p>MCKENZIE COUNTY</p> <p>DATE: _____ PROJECT DATE: _____ LOCAL NO: _____ ORDERING NUMBER: _____ NORTH DAKOTA</p> <p>DRAWN BY: _____ SHEET NO: _____ REV: _____</p>	
	REVISIONS							

CONSTRUCTION RIGHT-OF-WAY TYPICAL

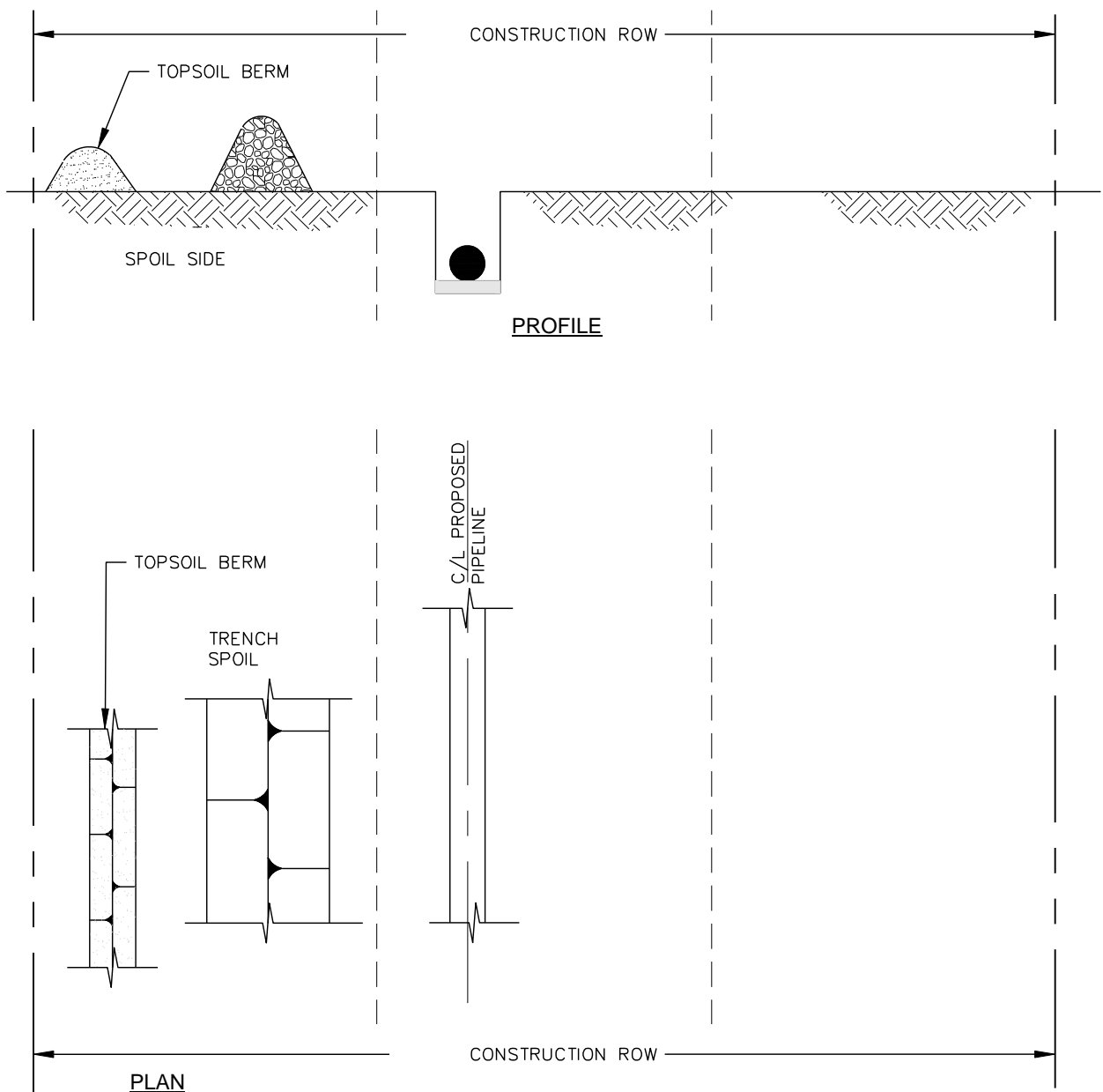


PROFILE
NOT TO SCALE

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 5' (TYPICAL) AND UP TO A MAXIMUM OF 10' UNDER CERTAIN CIRCUMSTANCES. PIPELINES SHALL HAVE A MINIMUM SEPARATION OF 2'.
8. TOPSOIL AND TRENCH SPOIL RELATIVE POSITIONS CAN, AS DIRECTED BY THE COMPANY INSPECTOR, BE REVERSED.

TYPICAL ROW PLAN & PROFILE DETAILS



TYPICAL ROW-PLAN & PROFILE NOTES


APPLICATION:

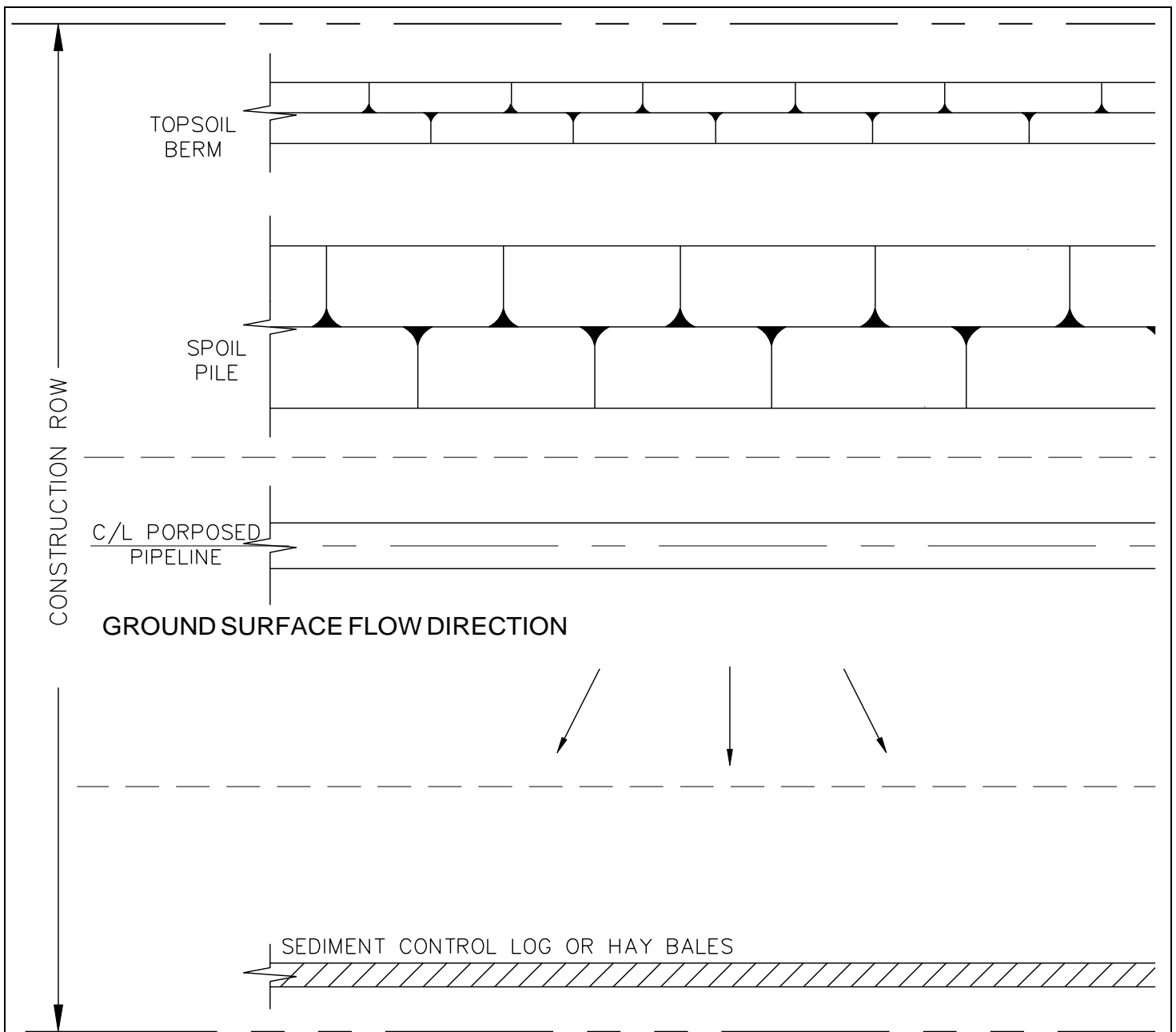
THESE STANDARD PRACTICES ARE USED FOR THE TYPICAL CONSTRUCTION ACTIVITIES PERFORMED WHILE INSTALLING NEW PIPELINE THROUGH TRENCHING AND BORING AND CONSTRUCTION ACTIVITIES.

GENERAL PRACTICES:

1. BMPS SHOULD BE PLACED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
2. STOCKPILES SHOULD BE PLACED UP-GRADE OF THE TRENCH UTILIZING THE TRENCH ITSELF AS A BMP.
3. VEGETATIVE BUFFERS SHOULD BE PRESERVED AND UTILIZED AS A BMP WHENEVER POSSIBLE.
4. PAVED SURFACES IMPACTED BY THE SITE WILL BE SWEEPED OF SOIL/ SCRAPED AS NEEDED.
5. PIPELINE ROW AND WORKING SPACE IS 60 FOOT ROW AND AN ADDITIONAL WORK SPACE OF 20 FEET ON EACH SIDE.
PIPELINE ROW AND WORKING SPACE IS A 60 FOOT ROW AND AN ADDITIONAL WORK SPACE OF 40 FEET.

NOT TO SCALE

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DATE:				



TYPICAL ROW-PLAN & PROFILE NOTES

APPLICATION:

THESE STANDARD PRACTICES ARE USED FOR THE TYPICAL CONSTRUCTION ACTIVITIES PERFORMED WHILE INSTALLING NEW PIPELINE THROUGH TRENCHING AND BORING AND CONSTRUCTION ACTIVITIES.

GENERAL PRACTICES:

1. BMPS SHOULD BE PLACED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
2. STOCKPILES SHOULD BE PLACED UP-GRAIENT OF THE TRENCH UTILIZING THE TRENCH ITSELF AS A BMP.
3. VEGETATIVE BUFFERS SHOULD BE PRESERVED AND UTILIZED AS A BMP WHENEVER POSSIBLE.
4. PAVED SURFACES IMPACTED BY THE SITE WILL BE SWEEPED OF SOIL/ SCRAPED AS NEEDED.

NOTE:

TYPICAL BMP DETAIL FOR USE WHEN GROUND SURFACE FLOW DIRECTION IS DOWN-GRADIENT FROM PIPELINE TRENCH AND SOIL STOCKPILES
 NOT TO SCALE

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CONSTRUCTION ROW

TOPSOIL
BERM

SPOIL
PILE

C/L PROPOSED
PIPELINE

GROUND SURFACE FLOW DIRECTION

TYPICAL ROW-PLAN & PROFILE NOTES

APPLICATION:

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GENERAL PRACTICES:

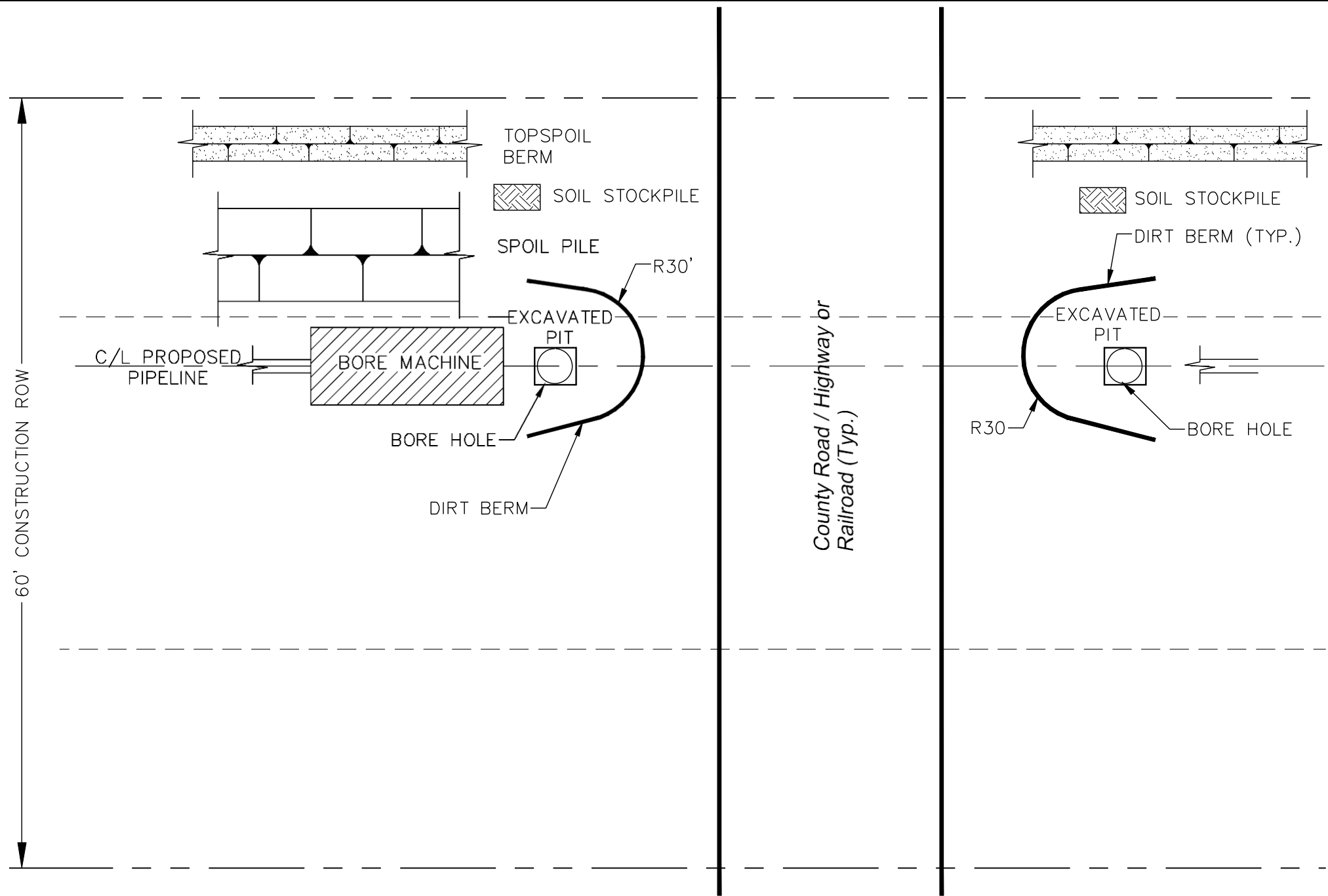
1. BMPS SHOULD BE PLACED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
2. STOCKPILES SHOULD BE PLACED UP-GRADIENT OF THE TRENCH UTILIZING THE TRENCH ITSELF AS A BMP.
3. VEGETATIVE BUFFERS SHOULD BE PRESERVED AND UTILIZED AS A BMP WHENEVER POSSIBLE.
4. PAVED SURFACES IMPACTED BY THE SITE WILL BE SWEEPED OF SOIL / SCRAPED AS NEEDED.

NOTE:

TYPICAL BMP DETAIL FOR USE WHEN GROUND SURFACE FLOW DIRECTION IS TOWARDS THE PIPELINE TRENCH.

NOT TO SCALE

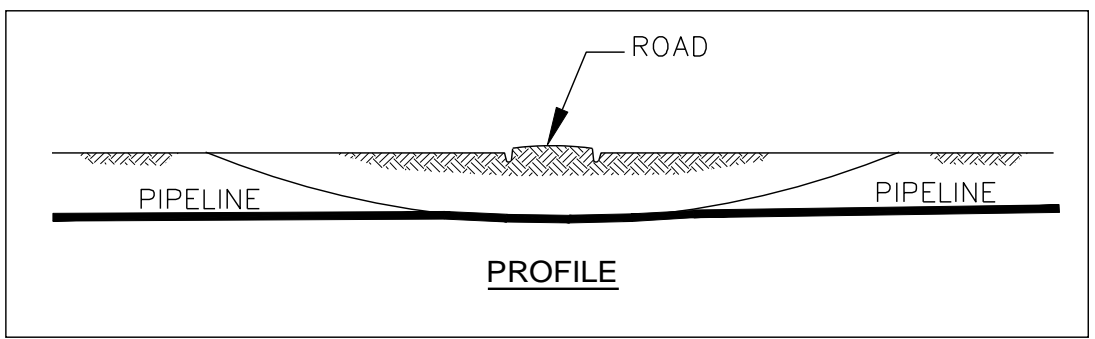
PROJECT NO:	TYPICAL BMP DURING CONSTRUCTION	 116 NORTH 4TH STREET SUITE 200 BISMARCK, ND 58501 TEL 701.258.6622 FAX 701.258.5957	DETAIL
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TYPICAL BMP FOR BORED ROAD CROSSING NOTES
APPLICATION:
 THESE STANDARD PRACTICES ARE USED FOR THE TYPICAL CONSTRUCTION ACTIVITIES PERFORMED WHILE INSTALLING NEW PIPELINE USING HORIZONTAL DIRECT DRILLING TECHNIQUES.

- GENERAL PRACTICES:**
1. BMPs SHOULD BE PLACED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
 2. EXCAVATION PITS WILL REMAIN OPEN WITH PERIMETER ORANGE FENCING FOR THE DURATION OF THE BORING ACTIVITY.
 3. STOCKPILES SHOULD BE PLACED UP-GRADE OF THE TRENCH UTILIZING THE TRENCH ITSELF AS A BMP.
 4. VEGETATIVE BUFFERS SHOULD BE PRESERVED AND UTILIZED AS A BMP WHENEVER POSSIBLE.
 5. PAVED SURFACES IMPACTED BY THE SITE WILL BE SWEEPED OF SOIL/ SCRAPED AS NEEDED.

NOTE:
 IF ROAD CROSSING IS PAVED, INSTALL VEHICLE STABILIZED CONSTRUCTION ENTRANCE BMP AT ACCESS POINTS TO PREVENT TRACKING OF DIRT/MUD ONTO PAVEMENT.



NOT TO SCALE

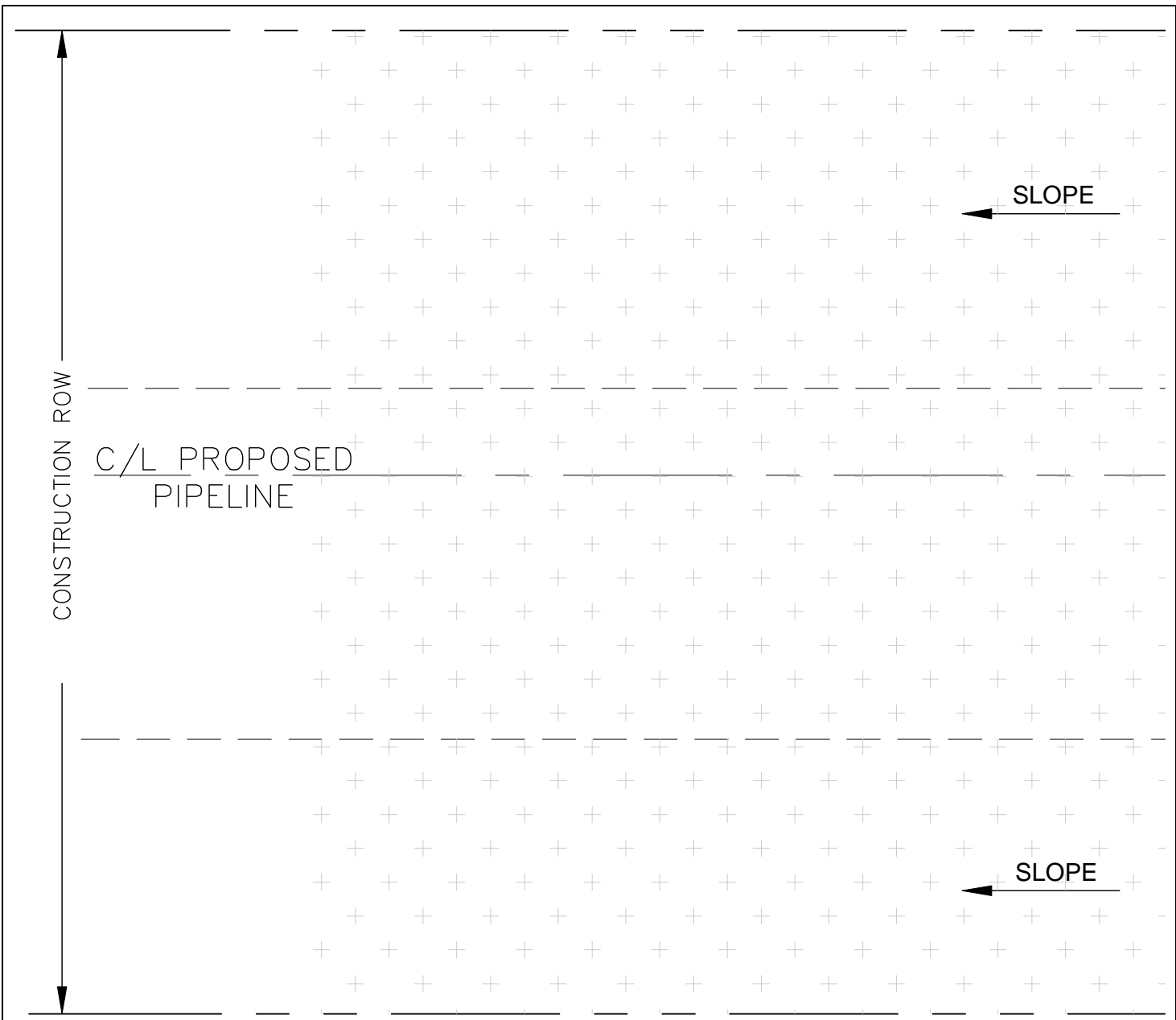
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TYPICAL BMP FOR BORED ROAD AND RAILROAD CROSSINGS



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DETAIL
4 OF 6



TYPICAL BMP FOR POST CONSTRUCTION STABILIZATION NOTES

APPLICATION:

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GENERAL PRACTICES:

1. BMPS SHOULD BE PLACED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
2. STOCKPILES SHOULD BE PLACED UP-GRADE OF THE TRENCH UTILIZING THE TRENCH ITSELF AS A BMP.
3. VEGETATIVE BUFFERS SHOULD BE PRESERVED AND UTILIZED AS A BMP WHENEVER POSSIBLE.
4. PAVED SURFACES IMPACTED BY THE SITE WILL BE SWEEPED OF SOIL/ SCRAPED AS NEEDED.

LEGEND



SEED AND MULCH WITH CRIMP STRAW

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PROJECT NO:	TYPICAL BMP FOR POST-CONSTRUCTION STABILIZATION ON SLOPES OF 3:1 OR GREATER	 ENVIRONMENTAL CONSULTANTS Sound Science. Creative Solutions.®	116 NORTH 4TH STREET SUITE 200 BISMARCK, ND 58501 TEL 701.258.6622 FAX 701.258.5957	DETAIL
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SURFACE ROUGHENING INSTALLATION NOTES

- 1. SURFACE ROUGHENING SHOULD BE PROVIDED ON ALL FINISHED GRADES.
- 2. DISTURBED SURFACES SHALL BE ROUGHENED USING TILLING EQUIPMENT.

SURFACE ROUGHENING MAINTENANCE NOTES

- 1. VEHICLES AND EQUIPMENT SHOULD BE CONFINED TO ACCESS DRIVES NEAR THE EDGE OF THE RIGHT-OF-WAY AND NOT DRIVE OVER AREAS THAT HAVE BEEN SURFACE ROUGHENED.

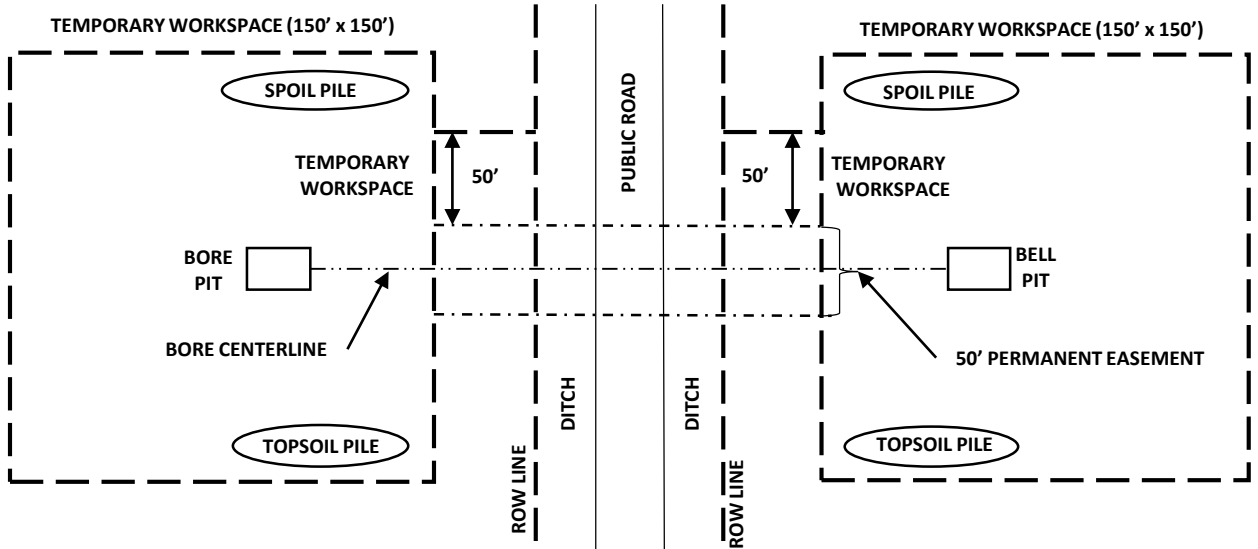


SURFACE ROUGHENING

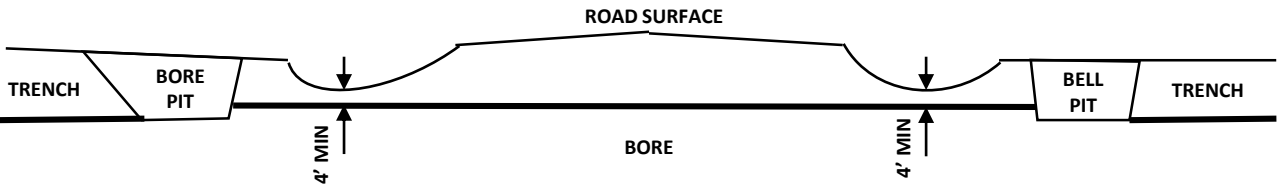
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PROJECT NO:	SURFACE ROUGHENING		116 NORTH 4TH STREET SUITE 200 BISMARCK, ND 58501 TEL 701.258.6622 FAX 701.258.5957	DETAIL
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PLAN



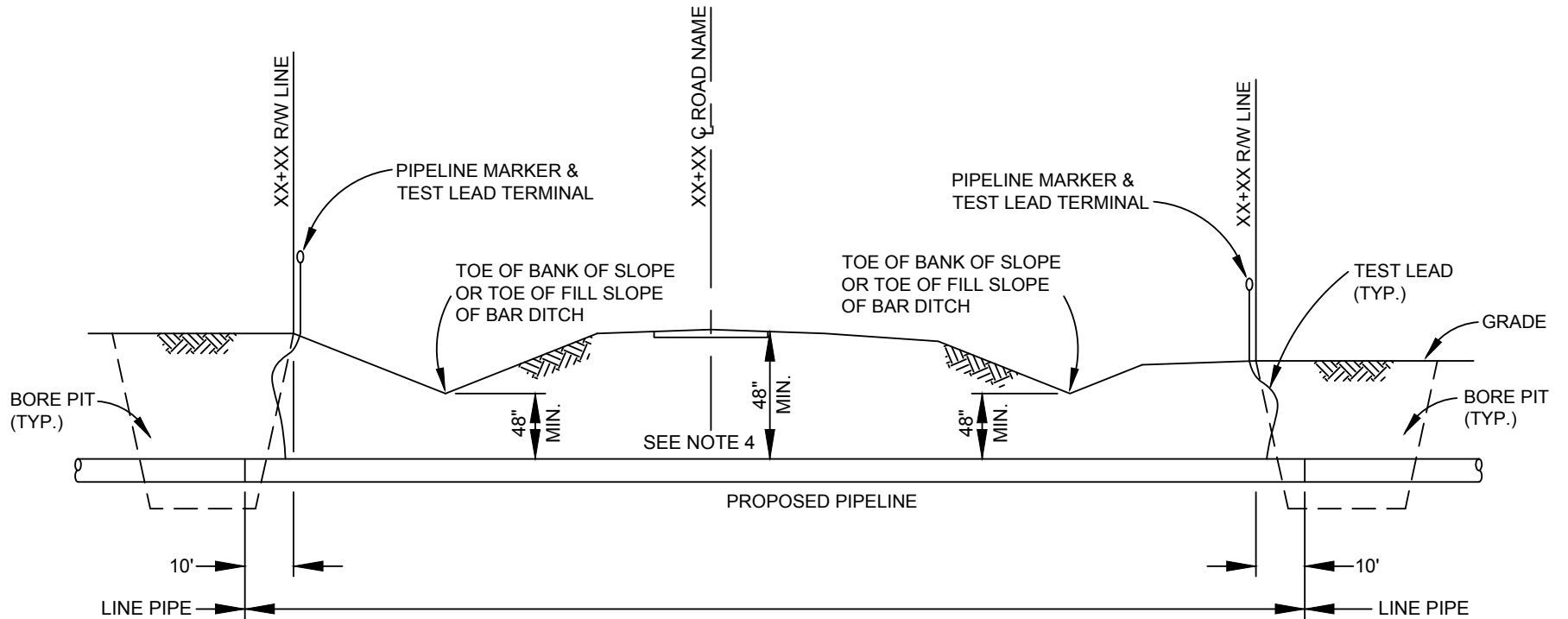
PROFILE



NOTES:

1. A PROTECTIVE LAYER (E.G., TIRES, WOODEN MATS, ETC.) SHALL BE PLACED ON PAVED ROAD SURFACES TO PREVENT DAMAGE FROM TRACKED EQUIPMENT.
2. IF NECESSARY, INSTALL TEMPORARY CULVERT AND FILL IN ROADSIDE DITCH.
3. MAINTAIN EXISTING VEGETATION IN ROADSIDE DITCHES; STRIPPING SHOULD BE LIMITED TO THE AREA OF THE TEMPORARY CROSSING.
4. PROVIDE SEDIMENT CONTROLS IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN.
5. THE FLOOR ELEVATIONS OF THE BORE PIT AND BELL HOLE SHALL BE ADJUSTED TO PROVIDE THE MINIMUM COVER BELOW ROADWAY AND ROADSIDE DITCHES.

NOT TO SCALE



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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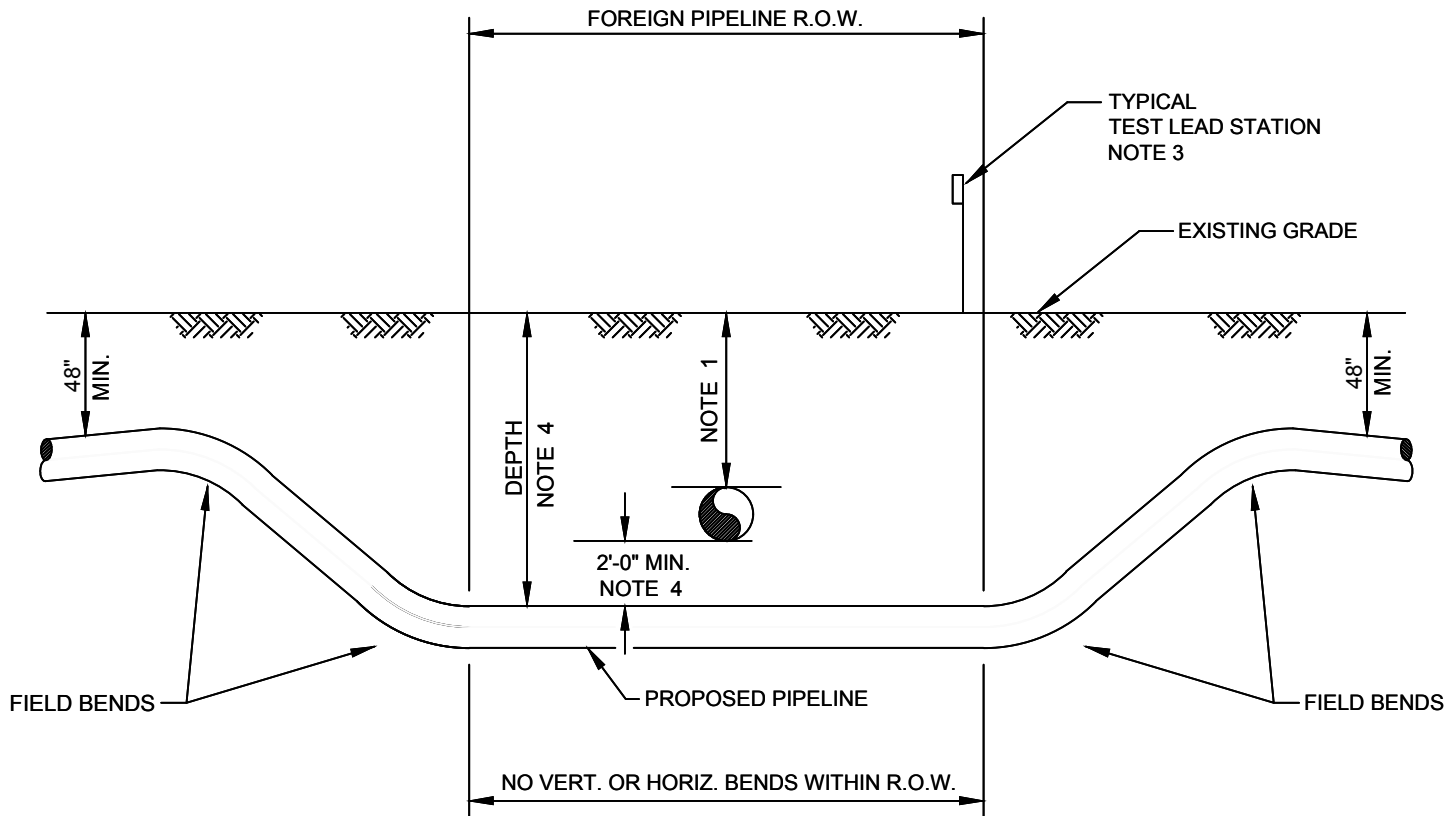

 Arrow Midstream Holdings, LLC
 Arrow Field Services, LLC

Arrow NB Gas Pipeline and Arrow NGL Pipeline

BORED ROAD CROSSING

MCKENZIE COUNTY NORTH DAKOTA

DATE	PILOT DATE	DRAWN BY	COC. NO.	DESIGNING NUMBER	SHEET NO.	REV.



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

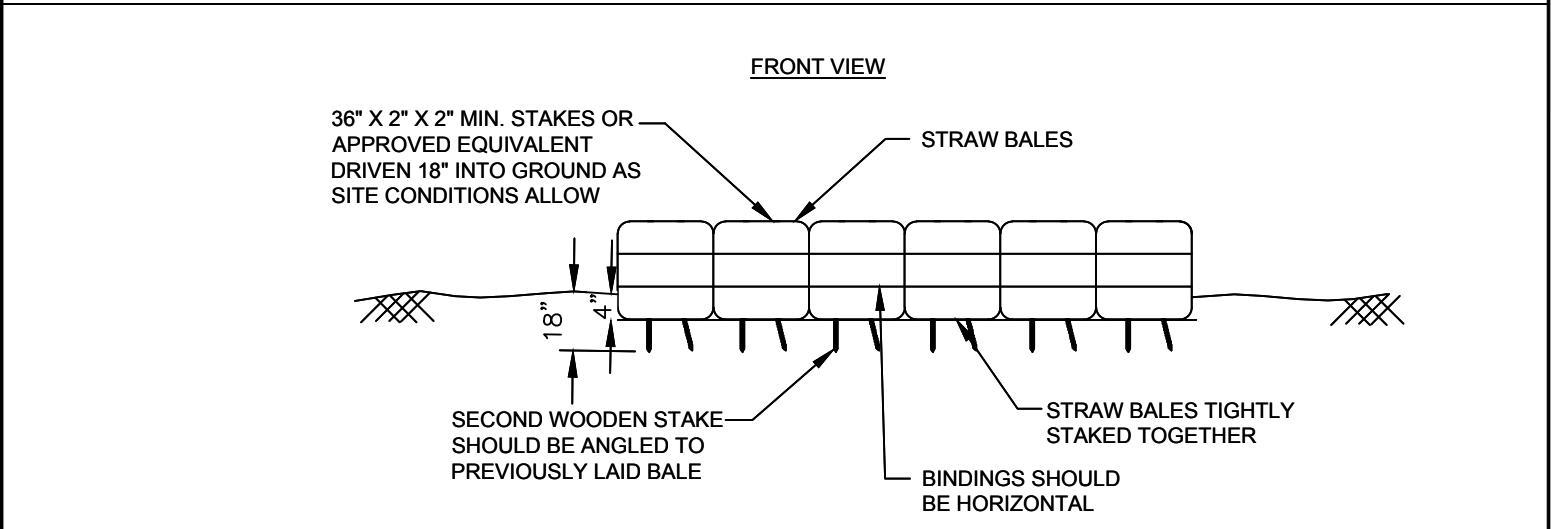
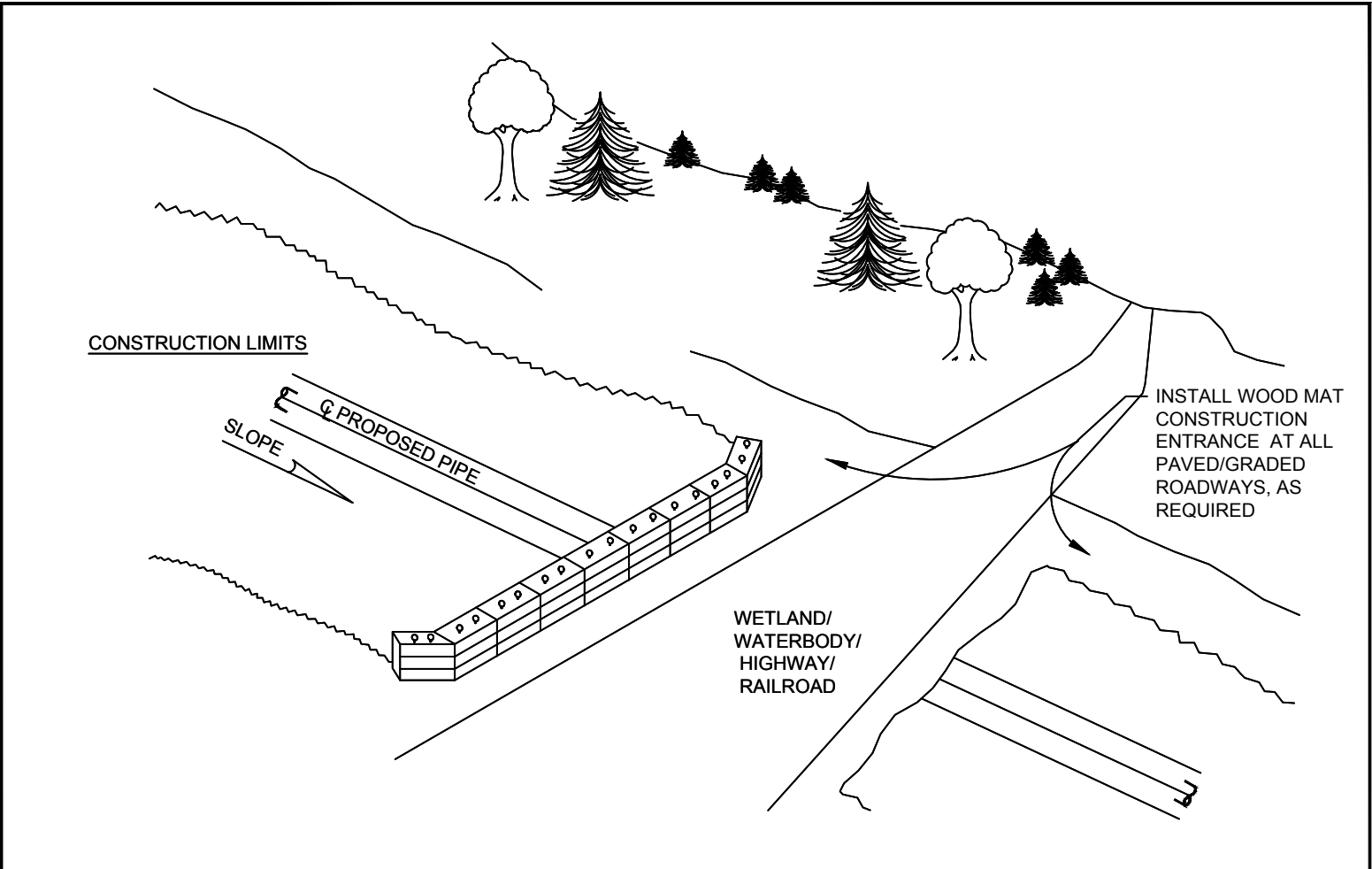
NOTES:

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.

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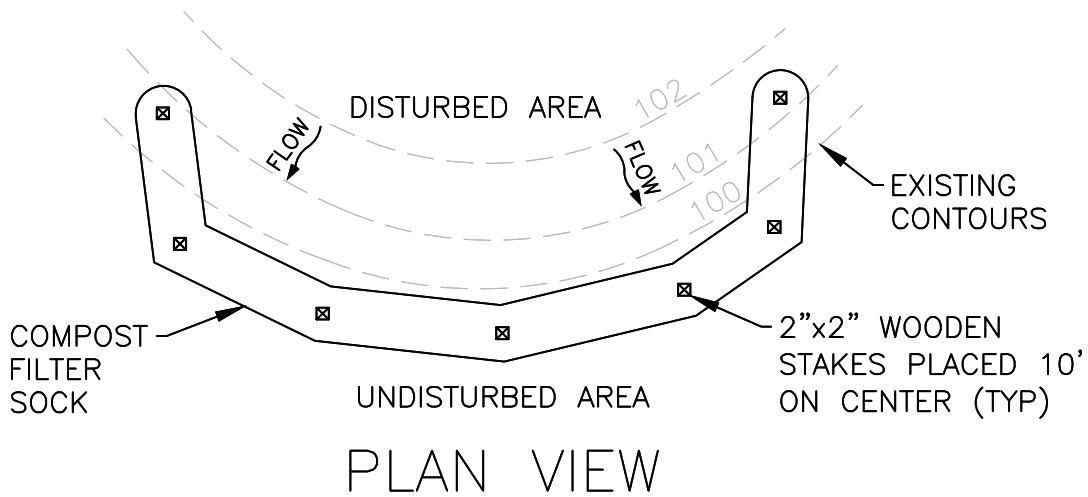
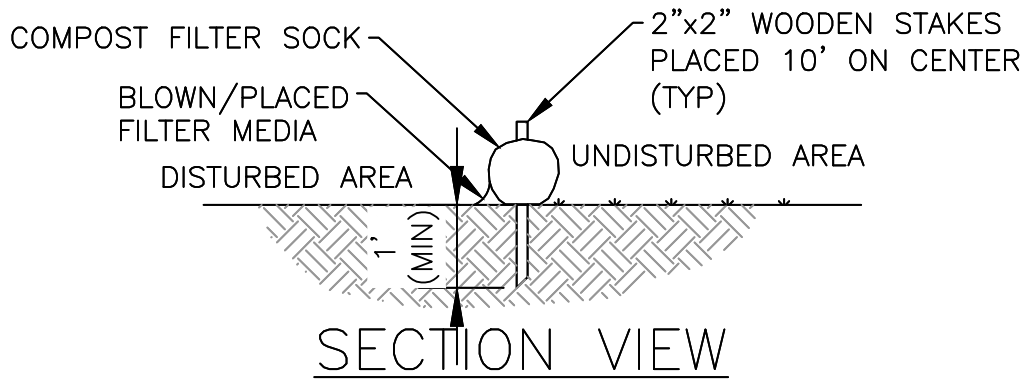




NOTES:

1. STRAW BALES TO BE EMBEDDED 4" MIN. INTO GROUND AS SITE CONDITIONS ALLOW.
2. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE ABOVE GROUND'S HEIGHT OF THE BARRIER.
3. STRAW BALES REMOVED FOR ACCESS PURPOSES DURING THE DAY MUST BE REINSTALLED AFTER THE CONSTRUCTION ACTIVITY HAS PASSED THROUGH OR BY THE END OF THE DAY.
4. STRAW BALES SHOULD NOT BE USED FOR PROJECTS LASTING MORE THAN 3 MONTHS.
5. STAKES TO BE DRIVEN FLUSH WITH THE TOP OF THE BALE. BOTH ENDS OF THE BARRIER TO BE EXTENDED AT LEAST 8' UP SLOPE AT 45 DEGREES TO MAIN BARRIER ALIGNMENT.
6. STRAW BALE BARRIERS THAT ARE UNDERMINED OR TOPPED SHALL BE REPLACED WITH A ROCK FILTER OUTLET.
7. BALES WILL BE REMOVED WHEN PERMANENT STABILIZATION IS ACHIEVED.
8. COMPACTED BACKFILL WILL BE PLACED ON DISTURBED SIDE.

		Arrow NB Gas Pipeline and Arrow NGL Pipeline	TYPICAL STRAW BALE INSTALLATION				
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NOTES:

1. SOCK FABRIC AND COMPOST MATERIAL SHALL MEET ALL STATE STANDARDS.
2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
5. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
6. BIO-DEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTO-DEGRADABLE SOCKS AFTER 1 YEARS. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS SOIL SUPPLEMENT.

COMPOST FILTER SOCK DETAIL

SCALE: NOT TO SCALE

				Arrow NB Gas Pipeline and Arrow NGL Pipeline																															
	SWCA ENVIRONMENTAL CONSULTANTS Sound Science. Creative Solutions.®	Arrow Midstream Holdings, LLC Arrow Field Services, LLC	COMPOST FILTER SOCK DETAIL	DATE: _____ REV: _____	SHEET NO: _____ REV: _____																														
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV LEVEL</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> <th>CK.</th> <th>APP.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REV LEVEL	DATE	BY	DESCRIPTION	CK.	APP.																									REVISIONS		
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