DESIGN DATA - SITE 1				
Traffic	Average Daily			Max.Hr.
Current 2026	Pass: -	Trucks: -	Total: <100	-
Forecast 2046	Pass: -	Trucks: -	Total: <100	-
Clear Zone Distance:	14'		Design Speed:	55 MPH
Minimum Sight Dist. for Stopping:	495'		Bridges:	HL-93
Sight Dist. for No Passing Zone:	-			

DESIGN DATA - SITE 2				
Traffic	Average Daily			Max.Hr.
Current 2026	Pass: -	Trucks: -	Total: <100	-
Forecast 2046	Pass: -	Trucks: -	Total: <100	-
Clear Zone Distance:	12'		Design Speed:	55 MPH
Minimum Sight Dist. for Stopping:	495'		Bridges:	HL-93
Sight Dist. for No Passing Zone:	-			

MCHENRY COUNTY
NORTH DAKOTA

FEDERAL AID PROJECT
BRO-2500(023) AND BRO-0025(055)
STRUCTURE REPLACEMENTS

SITE 1: OLD STRUCTURE #25-107-26.1/NEW STRUCTURE #25-107-26.2
SITE 2: OLD STRUCTURE #25-113-02.0/NEW STRUCTURE #25-113-02.1

THE PROJECT CONSISTS OF REMOVAL OF EXISTING BRIDGES AND INSTALLATION OF PRECAST REINFORCED CONCRETE BOXES AT MULTIPLE LOCATIONS

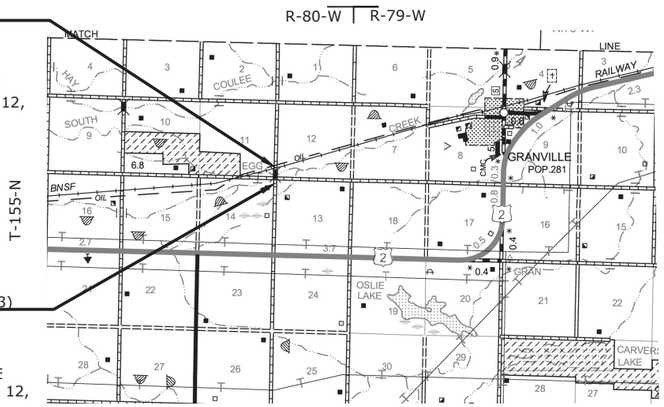
STATE	PROJECT NO.	PCN	SECTION NO.	SHEET NO.
ND	BRO-2500(023)	23983	1	1
	BRO-0025(055)	25695		

GOVERNING SPECIFICATIONS	Date Published and Adopted by the North Dakota Department of Transportation
Standard Specifications	7/1/2025
Supplemental Specifications	NONE

PROJECT NUMBER \ STRUCTURE #	NET MILES	GROSS MILES
SITE 1 BRO-2500(023) #25-107-26.2	0.097	0.097
SITE 2 BRO-0025(055) #25-113-02.1	0.199	0.199
Project Total	0.296	0.296

END PROJECT BRO-2500(023)
SITE 1
STRUCTURE #25-107-26.2
STA 6+95.00
A POINT 695FT NORTH OF THE SOUTHWEST CORNER OF SEC. 12, TWP. 155 N, RGE. 80 W

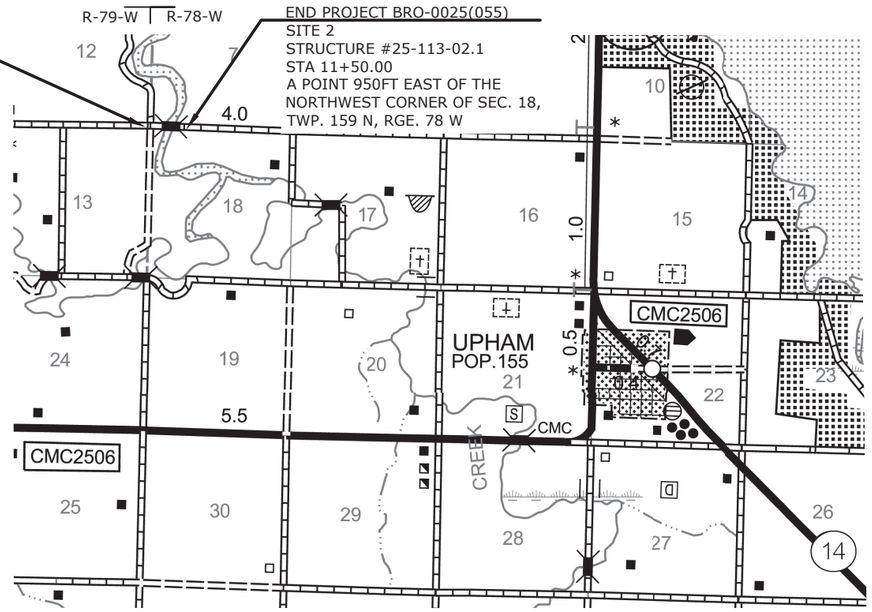
BEGIN PROJECT BRO-2500(023)
SITE 1
STRUCTURE #25-107-26.2
STA 1+83.00
A POINT 183FT NORTH OF THE SOUTHWEST CORNER OF SEC. 12, TWP. 155 N, RGE. 80 W



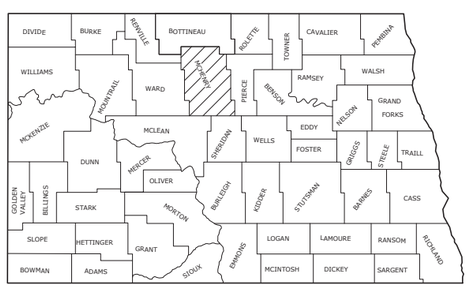
R-80-W | R-79-W

BEGIN PROJECT BRO-0025(055)
SITE 2
STRUCTURE #25-113-02.1
STA 1+00.00
A POINT 100FT WEST OF THE NORTHWEST CORNER OF SEC. 18, TWP. 159 N, RGE. 78 W

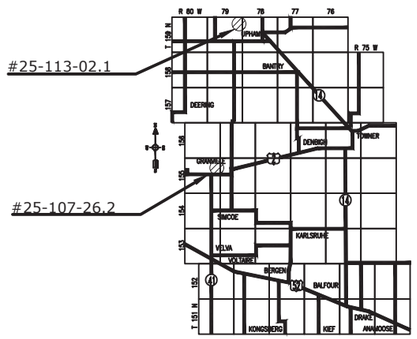
END PROJECT BRO-0025(055)
SITE 2
STRUCTURE #25-113-02.1
STA 11+50.00
A POINT 950FT EAST OF THE NORTHWEST CORNER OF SEC. 18, TWP. 159 N, RGE. 78 W



R-79-W | R-78-W



STATE COUNTY MAP



SKETCH MAP OF MCHENRY COUNTY

WOLD ENGINEERING, P.C.
SINCE 1955

DESIGNER
Jon Martin, P.E.
DESIGNER
Seth R. DeMontigny, P.E.
DESIGNER
DESIGNER

I hereby certify that the attached plans were prepared by me or under my direct supervision and that I am a duly registered professional engineer under the laws of the state of ND.

APPROVED DATE _____

Seth DeMontigny Digitally signed by Seth DeMontigny Date: 2026.09.09 10:58:55 -05'00'

Wold Engineering, P.C.

REGISTERED PROFESSIONAL ENGINEER
SETH R. DEMONTIGNY
PE-29083
DATE 09/09/2026
NORTH DAKOTA

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	BRO-2500(023)	2	1
		BRO-0025(055)		

TABLE OF CONTENTS

PLAN SECTIONS

Section	Page(s)	Description
1	1	Title Sheet
2	1	Table of Contents
6	1	Notes
6	2	Environmental Notes
8	1 - 2	Quantities
10	1	Basis of Estimate
20	1	General Details
30	1 - 2	Typical Sections
60	1 - 2	Plan & Profile
75	1 - 4	Wetland Impacts
76	1 - 2	Temporary Erosion Control
77	1 - 2	Permanent Erosion Control
81	1 - 2	Survey Coordinate and Curve Data
100	1 - 2	Work Zone Traffic Control
170	1 - 6	Bridges and Box Culverts
200	1 - 12	Cross Sections

LIST OF STANDARD DRAWINGS

Number	Description
D-101-1, 2-4	NDDOT Abbreviations
D-101-10	NDDOT Utility Company and Organization Abbreviations
D-101-20, 21	Line Styles
D-101-30, 31-33	Symbols
D-101-40	Cross Section Legend
D-255-2	Erosion And Siltation Control - Erosion Control Blanket Installation
D-260-1	Erosion And Siltation Controls - Silt Fence
D-261-1	Erosion Control - Fiber Roll Placement Details
D-704-7	Breakaway Systems For Construction Zone Signs - Perforated Tube
D-704-8	Breakaway Systems For Construction Zone Signs - U-Channel Post
D-704-9	Construction Sign Details - Terminal And Guide Signs
D-704-10	Construction Sign Details - Regulatory Signs
D-704-13	Barricade And Channelizing Device Details
D-704-14	Construction Sign Punching And Mounting Details
D-714-22	Concrete Pipe, Cattle Pass, or Precast Concrete Box Culvert Ties
D-752-1	Standard Barbed Wire Fence
D-754-82	Object Markers

SPECIAL PROVISIONS

Number	Description
SSP 1	Temporary Erosion and Sediment Best Management Practices
SSP 2	Federal Migratory Bird Treaty Act
SSP 3	Local Agency Contracts
PSP 100(025)	Permits and Environmental Considerations
SP 613(25)	Temporary Stream Diversion
SP 615(25)	Railroad Requirements

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-2500(023) BRO-0025(055)	6	1

NOTES

100-P01 **CONSTRUCTION COMPLETION:** The overall project completion date is October 30th, 2027.

105-P01 **UTILITIES**: Notify all utility owners of the project schedule as specified in Section 105.03, "Cooperation with Utility Owners" of the Standard Specifications. Coordinate and perform construction activities in a manner that accommodates the utility coordination requirements included in the Utility Coordination Table. Protect utilities not listed in the Utility Coordination Table in their existing locations.

Utility Coordination Table for Site 1						
Station	Offset	Appr. Qty	Comments	Utility Company	Type of Facility	Approx. Max Cut/Fill
0+60.00	100' LT to 100' RT	200'	Protect in place/No Conflict	Souris River Telephone (SRT)	Fiber Optic	0
1+00 to 6+00	86' LT	500'	Protect in place	Verendrye Electric Cooperative	Overhead Power Line	0
6+40, parallel to RR tracks	100' LT to 100' RT	200'	Protect in Place/No Conflict	Enbridge Inc.	Pipeline	6' Fill Inslope of road
Utility Coordination Table for Site 2						
Station	Offset	Appr. Qty	Comments	Utility Company	Type of Facility	Approx. Max Cut/Fill
0+00 to 12+00	55' RT	1200'	Coordinate Relocation	North Central Electric Cooperative	Overhead Power Line	0

105-P03 **UTILITIES:** The Verendrye Electric Cooperative (VEC) overhead power is outside of the grading limits of the project and will need to be protected in place. VEC can deenergize the overhead power line during construction activities that take place near the line. Contractor will coordinate deenergizing the line with VEC.

105-P04 **UTILITIES:** The North Central Electric Cooperative (NCEC) overhead power is outside of the grading limits of the project but will need to be relocated due to box culvert placement operations. NCEC will relocate the line to the temporary easement during construction operations. Contractor will coordinate and provide adequate access for relocation of the line with NCEC.

201-P01 **REMOVAL OF TREES AND BRUSH:** Include all costs associated with removal of existing trees, stumps, and brush within the grading area including but not limited to removal, hauling, and disposal at a location outside of the right of way, and approved of by the Engineer, in the Lump Sum Bid Item "REMOVAL OF TREES AND BRUSH".

203-P01 **COMPACTION CONTROL:** Place embankment material in accordance with Section 203.04 G3 of the Standard Specifications (Compaction Control, Type B).

203-P02 **WATER:** Include the application of water for compaction of subgrade and aggregates, and for use as a dust palliative within the construction limits, the detour route, and depending on hauling operations, near residences or farmsteads, as required, in the cost for other bid items.

203-P03 **TOPSOIL:** Topsoil quantity assumes depth of 4 inches. Include all costs associated with stripping, stockpiling, and respreading topsoil in the unit price bid item "TOPSOIL". "TOPSOIL" will be paid at plan quantity with no cost adjustment for varying topsoil depths.

203-P04 **SHRINKAGE:** An additional 30 percent volume has been included in the embankment quantity to account for shrinkage.

752-P01 **TEMPORARY FENCE:** Temporary fencing, if needed, will be provided by the Contractor after determining the presence of livestock during construction and in consultation with the landowner. The Contractor will coordinate with the adjacent landowners to determine if livestock will be present during construction. If a temporary fence is needed, the Contractor will install and maintain an electric fence to contain the livestock. The temporary electric fence will remain in place until the permanent fence is installed. If no livestock is present during construction this bid item will be removed. Include installation, maintenance and removal of the temporary electric fence in the price bid for "Temporary Fence".

754-P01 **EXISTING SIGNAGE:** Existing bridge marker and load posting signs will be salvaged and delivered to the County Shop in either Upham or Granville. Coordinate delivery with Darlene Carpenter, McHenry County Highway Superintendent, at 701-537-5724. Include the cost to salvage and deliver existing bridge markers and load posting signs in the cost for traffic control bid items.

858-P01 **GEOSYNTHETIC MATERIAL TYPE G:** Provide Tensar NX850 or approved equal geogrid.

WOLD ENGINEERING, P.C.

REGISTERED PROFESSIONAL ENGINEER
SETH R. DEMONTIGNY
PE-29083
DATE 09/09/2026
NORTH DAKOTA

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-2500(023) BRO-0025(055)	6	2

ENVIRONMENTAL NOTES

ENVIRONMENTAL NOTES (EN): McHenry County, the North Dakota Department of Transportation and the Federal Highway Administration have made environmental commitments to secure approval of this project. The following environmental notes are the commitments:

EN-1 SPAWNING RESTRICTION: Do not work within the Deep River from April 15th to June 1st.

EN-2 TEMPORARY WETLAND IMPACT: Temporary impact areas within wetlands and other waters are incorporated into the plans for this project. Remove temporary fill placed and sedimentation in wetlands or other waters. Restore these wetlands to preconstruction contours.

EN-3 WETLAND IMPACTS:

Site 1
There are 0.49 acres of temporary impacts and 0.44 acres of permanent impacts to Stream and Wetlands for this site. There are 0.04 acres of Wetlands impact reduction due to riprap lowered 1-foot below channel invert. The permanent impacts to Wetlands totaling 0.40 require mitigation and will be mitigated through Ducks Unlimited credit purchase at a ratio of 0.35 acres at 1:1 and 0.05 acres at 2:1, totaling 0.45 in-lieu fee credit purchase.

Site 2
There are 0.65 acres of temporary impacts and 0.61 acres of permanent impacts to Wetlands for this site. There are 0.06 acres of Wetland impact reduction due to riprap lowered 1-foot below channel invert. There are 0.03 acres of Wetland impact that is below required mitigation threshold per USACE. The permanent impacts to Wetlands totaling 0.52 require mitigation and will be mitigated through Ducks Unlimited credit purchase at a ratio of 1:1.

See Section 75 in the plans for impact tables and mitigation ratios.

EN-4 AQUATIC NUISANCE SPECIES (ANS): Equipment that was last used outside of North Dakota or within a Class I infested waterbody (identified on the North Dakota Game and Fish Department (NDGFD) website) requires an inspection by NDGFD. Notify the NDGFD at least 10 business days prior to pumps, watercraft, or any equipment entering a public water to allow the NDGFD sufficient time to inspect any and all such equipment for ANS. Contact the NDGFD ANS Coordinator, Mr. Benjamin Holen by e-mail bholen@nd.gov for equipment inspections. Supply one of the following to the engineer as proof of compliance prior to work taking place in the water: (1) the NDGFD inspection report, (2) documented NDGFD correspondence (email or signed letter). If an inspection is not required, no follow up documentation is required.

EN-5 WETLAND MITIGATION CREDITS: Prior to beginning any work on the project, the Contractor will purchase wetland mitigation credits from Ducks Unlimited to satisfy the Environmental Commitments shown in Section 75 of the plans. No work will begin on the project until a Credit Sales Letter from Ducks Unlimited for each Site is submitted to and accepted by the U.S. Army Corps of Engineers.

Purchase the wetland mitigation credits from the Souris River Basin mitigation site. The details are:

Site 1 0.45 credits @ $81,000/credit = $36,450

Site 2 0.52 credits @ $81,000/credit = $42,120

The contact information to purchase the wetland mitigation credits from Ducks Unlimited is provided below:

Trenton Hieb
Biologist in Ecosystem Services – Mitigation
Ducks Unlimited (Great Plains Region)
2525 River Road
Bismarck, ND 58503
Phone: 701-355-3573
Email: thieb@ducks.org

PERMITS REQUIRED:

1. North Dakota Department of Environmental Quality – NDPDES Permit
Status: To be obtained by the Contractor prior to construction. Owner is to be McHenry County.

2. USACE – Section 404 Permit
Status: A Nation-Wide Permit will be obtained by McHenry County for these projects.
Site 1: NWO-2024-01042-BIS
Site 2: NWO-2021-02149-BIS

WOLD ENGINEERING, P.C.

REGISTERED PROFESSIONAL ENGINEER
SETH R. DEMONTIGNY
PE-29083
DATE 09/09/2026
NORTH DAKOTA

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-2500(023) PCN 23983	8	1
	BRO-0025(055) PCN 25695		

Estimated Quantities

SPEC	CODE	ITEM DESCRIPTION	UNIT	BRO-2500(023)	BRO-0025(055)	TOTAL
103	0100	CONTRACT BOND	L SUM	0.5	0.5	1
107	0103	RAILWAY PROTECTION INSURANCE-SITE 1	EA	1		1
201	0352	REMOVAL OF TREES & BRUSH	L SUM	1		1
202	0108	REMOVAL OF STRUCTURE-SITE 1	L SUM	1		1
202	0109	REMOVAL OF STRUCTURE-SITE 2	L SUM		1	1
202	0312	REMOVE EXISTING FENCE	LF	405		405
203	0102	COMMON EXCAVATION-TYPE B	CY	120	771	891
203	0109	TOPSOIL	CY	300	576	876
203	0119	TOPSOIL-IMPORTED	CY	100	100	200
203	0140	BORROW-EXCAVATION	CY	3170	2410	5580
210	0051	BOX CULVERT EXCAVATION - SITE 1	EA	1		1
210	0052	BOX CULVERT EXCAVATION - SITE 2	EA		1	1
210	0202	FOUNDATION PREPARATION-SITE 1	L SUM	1		1
210	0203	FOUNDATION PREPARATION-SITE 2	L SUM		1	1
210	0210	FOUNDATION FILL	CY	558	1085	1643
251	0200	SEEDING CLASS II	ACRE	0.55	1.05	1.6
251	2000	TEMPORARY COVER CROP	ACRE	0.55	1.05	1.6
253	0101	STRAW MULCH	ACRE	1.1	2.1	3.2
255	0103	ECB TYPE 3	SY	131	950	1081
256	0200	RIPRAP GRADE II	CY	134	455	589
260	0300	SILT FENCE	LF	110		110
260	0301	REMOVE SILT FENCE	LF	110		110
261	0112	FIBER ROLLS 12IN	LF	1850	3200	5050
261	0113	REMOVE FIBER ROLLS 12IN	LF	925	1600	2525
262	0100	FLOTATION SILT CURTAIN	LF	100	220	320
262	0101	REMOVE FLOTATION SILT CURTAIN	LF	100	220	320
302	0356	AGGREGATE SURFACE COURSE CL 13	TON	359	683	1042
606	1813	18FT8IN X 13FT PRECAST RCB CULVERT	LF		232	232
606	3406	DBL 14FT X 6FT PRECAST RCB CULVERT	LF	50		50
606	5813	18FT8IN X 13FT PRECAST RCB END SECTION	EA		8	8
606	7406	DBL 14FT X 6FT PRECAST RCB END SECTION	EA	2		2
702	0121	MOBILIZATION - SITE 1	L SUM	1		1
702	0122	MOBILIZATION - SITE 2	L SUM		1	1
704	1000	TRAFFIC CONTROL SIGNS	UNIT	224	164	388
704	1052	TYPE III BARRICADE	EA	10	6	16
709	0100	GEOSYNTHETIC MATERIAL TYPE G	SY	288	1044	1332
709	0155	GEOSYNTHETIC MATERIAL TYPE RR	SY	200	683	883
709	0161	GEOSYNTHETIC MATERIAL TYPE S1	SY	625	2136	2761
752	0320	FENCE BARBED WIRE 4 STRAND-STEEL POST	LF	415		415
752	0905	TEMPORARY FENCE	LF	520		520
752	3150	CORNER ASSEMBLY BARBED WIRE-WOOD POST	EA	2		2
754	0803	OBJECT MARKERS - TYPE III	EA	4	4	8
900	1001	TEMPORARY STREAM DIVERSION - SITE 1	EA	1		1
900	1002	TEMPORARY STREAM DIVERSION - SITE 2	EA		1	1
900	2001	WETLAND MITIGATION SITE 1	ACRE	0.45		0.45
900	2002	WETLAND MITIGATION SITE 2	ACRE		0.52	0.52

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-2500(023)	10	1
	BRO-0025(055)		

BASIS OF ESTIMATE
SITE 1
BRO-2500(023)

Typical Section Structure #25-107-26.2 Sta. 1+83 to 6+95 (0.097 Miles)

Description	Unit	Width	Unit/Mile	Site Length	Total
Aggregate Surface Course CL. 13 @1.875 Ton/CY	TON	28'	3,179	512	309
				Gravel Transition at Ends	
				Begin Project	25
				End Project	25
				Total CL. 13	**359**

Earthwork

Common Exc (CY)	Embankment (CY)	Waste[1] (CY)	Borrow Excavation (CY)	Topsoil (CY)	Import Topsoil[3] (CY)
120	3,290	710	3,170	300	100

BASIS OF ESTIMATE
SITE 2
BRO-0025(055)

Typical Section Structure #25-113-02.1 Sta. 1+00 to 11+50 (0.199 Miles)

Description	Unit	Width	Unit/Mile	Site Length	Total
Aggregate Surface Course CL. 13 @1.875 Ton/CY	TON	28'	3,179	1050	633
				Gravel Transition at Ends	
				Begin Project	25
				End Project	25
				Total CL. 13	**683**

Earthwork

Common Exc (CY)	Embankment (CY)	Waste[2] (CY)	Borrow Excavation (CY)	Topsoil (CY)	Import Topsoil[3] (CY)
771	3,181	1,500	2,410	576	100

1. Waste is not a pay item, but it includes for informational purposes approximate excavation quantities of 591CY for foundation fill and 119CY for riprap, totaling 710CY of approximate waste. If waste is approved by Engineer for use as embankment, no additional payment will be made for placement and compaction of the material.

2. Waste is not a pay item, but it includes for informational purposes approximate excavation quantities of 1045 CY for foundation fill and 455 CY for riprap, totaling 1500 CY of approximate waste. If waste is approved by Engineer for use as embankment, no additional payment will be made for placement and compaction of the material.

3. Import topsoil may be eliminated if the Contractor is successful in salvaging all stripped topsoil. Due to difficulties in salvaging all topsoil, a cursory figure of topsoil has been added to either replace or enhance topsoil on site. This does not relieve the Contractor from exercising caution when stripping and stockpiling topsoil but is meant to improve the final product. The Engineer may eliminate, increase, or decrease the quantity at their discretion.

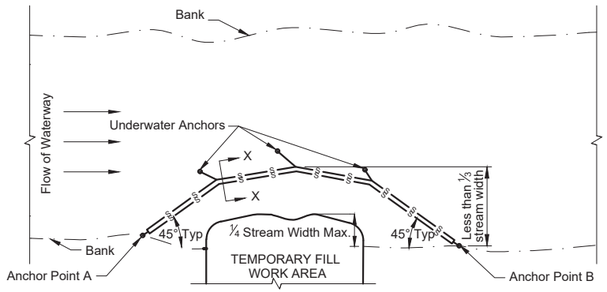
WOLD ENGINEERING, P.C.

REGISTERED PROFESSIONAL ENGINEER
SETH R. DEMONTIGNY
PE-29083
DATE 09/09/2026
NORTH DAKOTA

Basis of Estimate

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-2500(023)	20	1
	BRO-0025(055)		

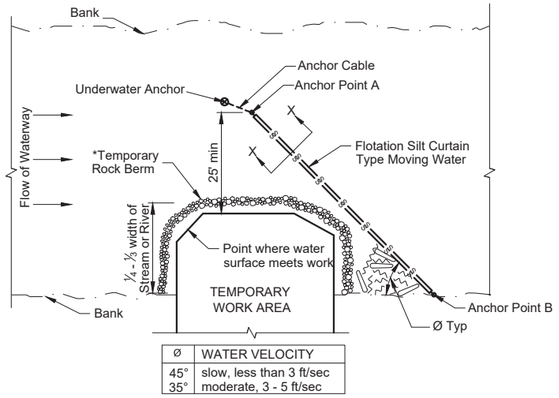
TYPICAL INSTALLATIONS
May vary with conditions



PLAN VIEW

FLOTATION SILT CURTAIN - TYPE WORK AREA

DESIGN GUIDELINES:
When temporary work encroaches less than ¼ of the width of stream.



Ø	WATER VELOCITY
45°	slow, less than 3 ft/sec
35°	moderate, 3 - 5 ft/sec

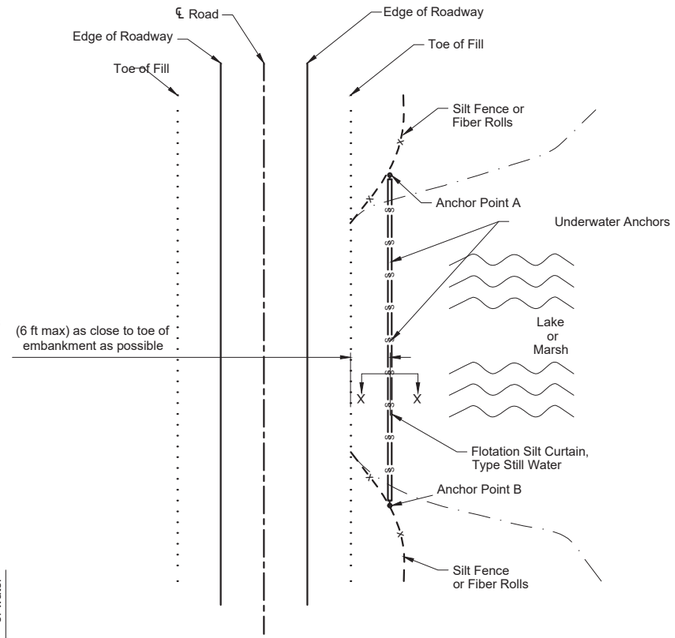
PLAN VIEW

FLOTATION SILT CURTAIN - TYPE MOVING WATER

DESIGN GUIDELINES:
When temporary work encroaches more than ¼ but less than ⅓ width of the stream.

For narrow waterways, the curtain may be placed 1 foot above the bottom of waterway to allow water flow.

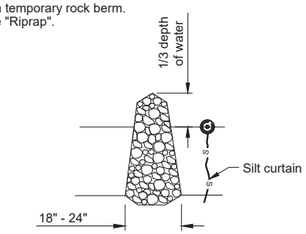
*In areas where the plans call for riprap at the bridge, provide a temporary rock berm. Include all costs for the temporary rock berm in price bid for the "Riprap".



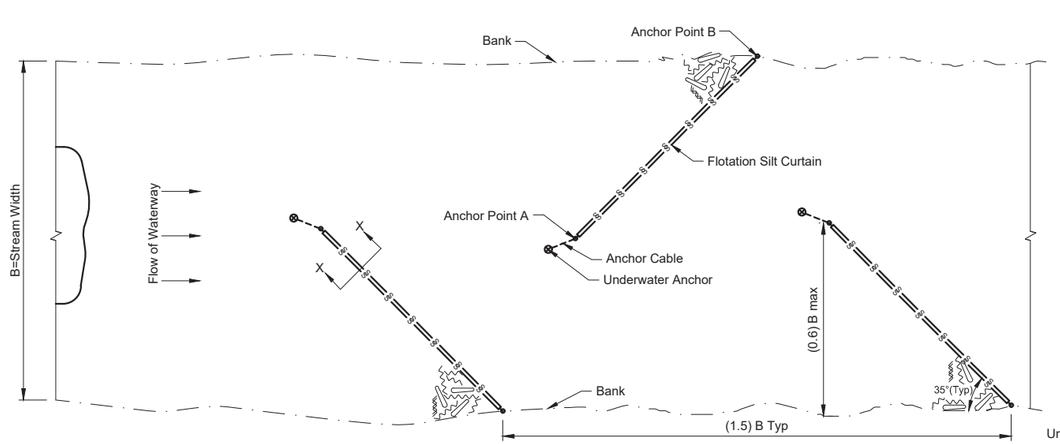
PLAN VIEW

FLOTATION SILT CURTAIN - TYPE STILL WATER

The silt curtain shall extend onto shore and shall also be anchored there.



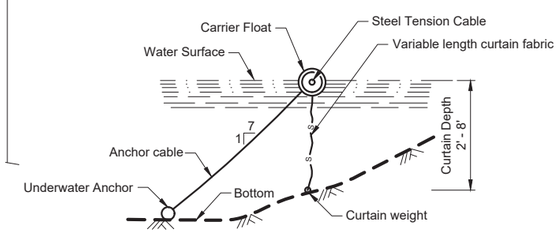
TEMPORARY ROCK BERM



PLAN VIEW

FLOTATION SILT CURTAIN - TYPE HERRING BONE PATTERN

DESIGN GUIDELINES:
When temporary work encroaches more than ⅓ width of the stream
Or where stream width doesn't allow use of Type Moving Water



SECTION X-X
FLOTATION SILT CURTAINS

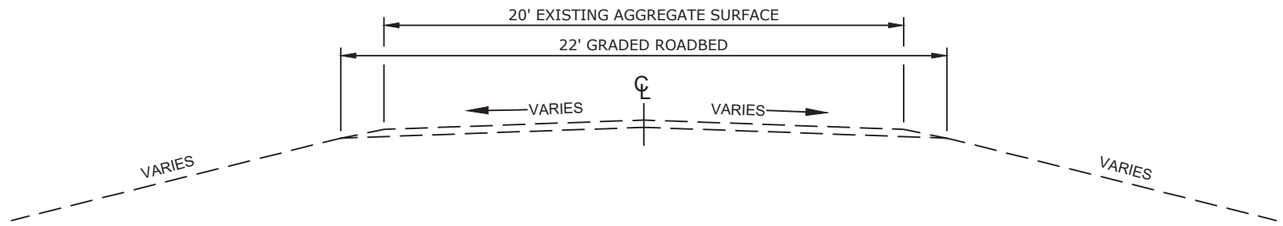
Note:
Maximum water velocity for moving water = 5 ft/sec

WOLD ENGINEERING, P.C.
SINCE 1955

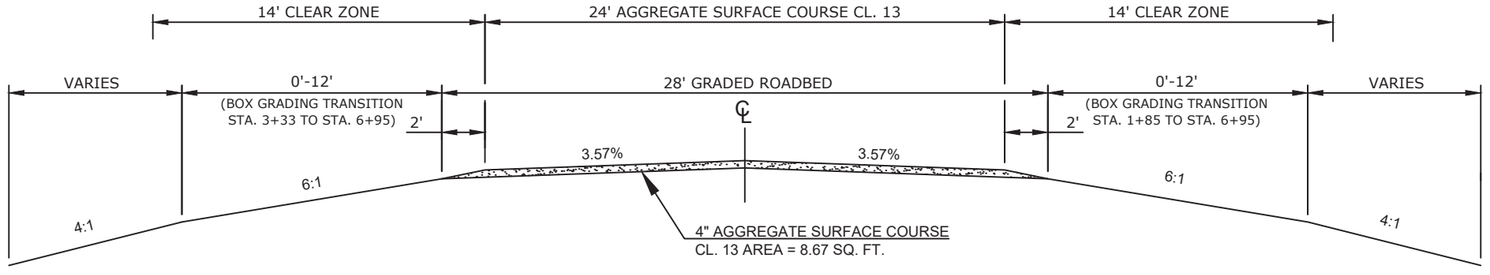
REGISTERED PROFESSIONAL ENGINEER
SETH R. DEMONTIGNY
PE-29083
DATE 09/09/2026
NORTH DAKOTA

Temporary Erosion Control Floatation Silt Curtain

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-2500(023)	30	1



EXISTING TYPICAL SECTION
STA. 1+83 TO 6+95



Fill

PROPOSED TYPICAL SECTION
STA. 1+83 TO 6+95
(Transition to existing section within 50 feet of beginning and end of project.)

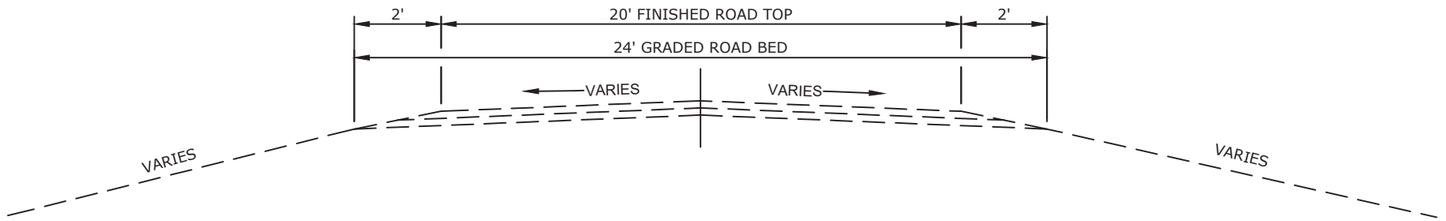
Fill

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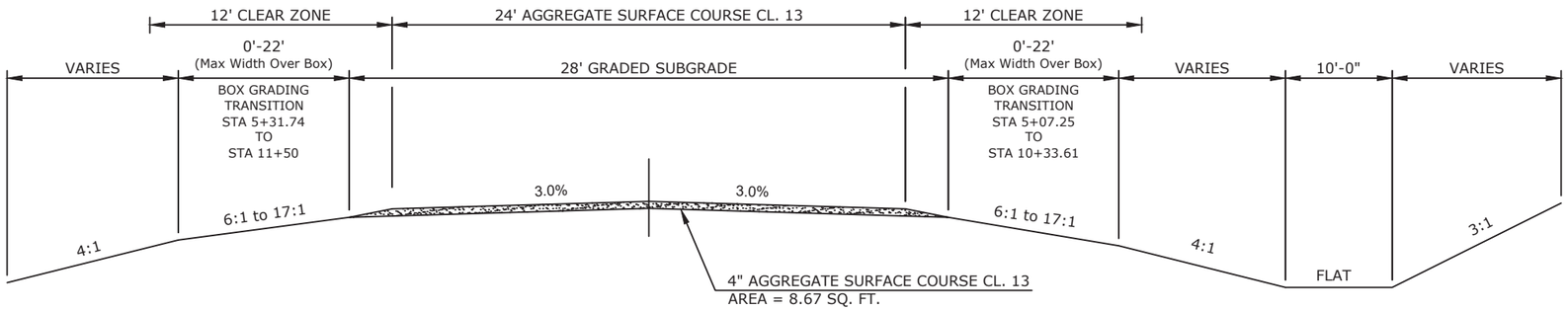
REGISTERED PROFESSIONAL ENGINEER
SETH R. DEMONTIGNY
PE-29083
DATE 09/09/2026
NORTH DAKOTA

TYPICAL SECTION
SITE 1

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-0025(055)	30	2



EXISTING TYPICAL SECTION
STA. 1+00 TO 11+50



FILL

CUT

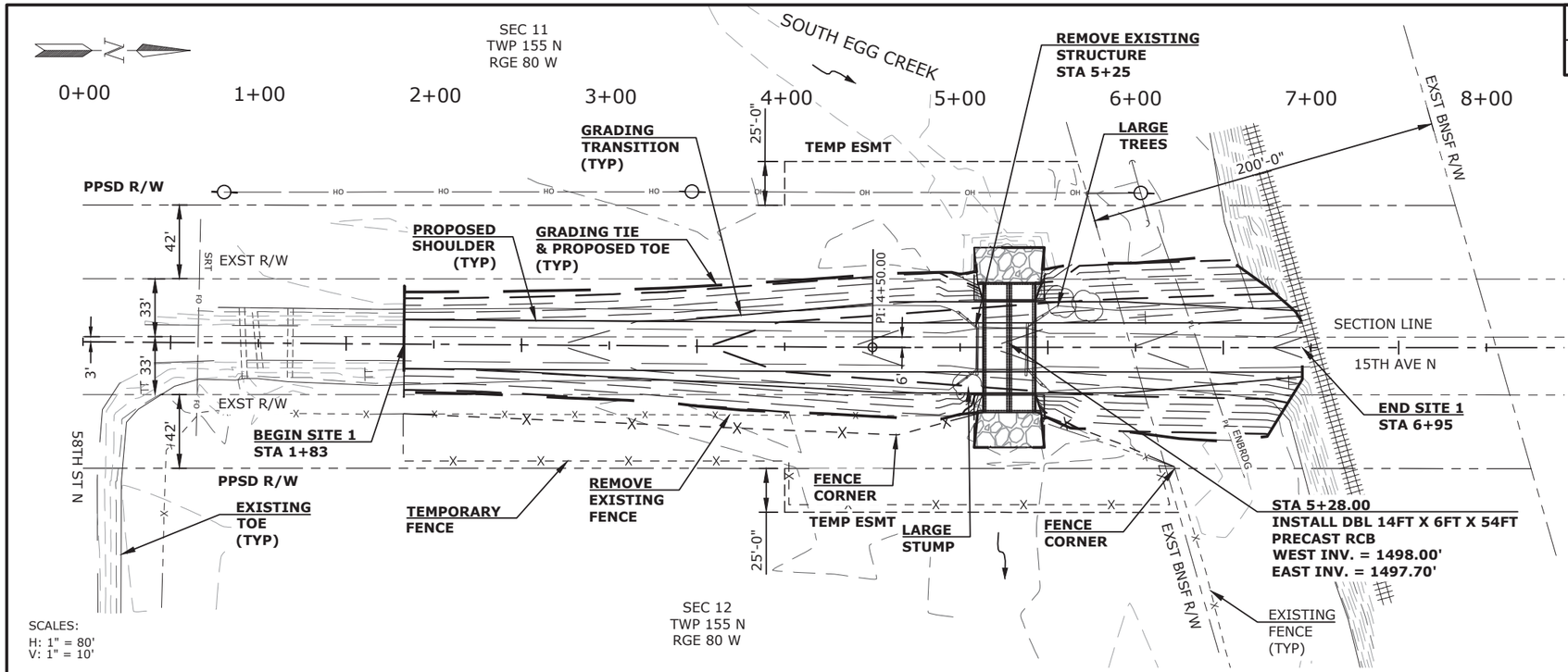
PROPOSED TYPICAL SECTION
STA. 1+00 TO 11+50
(Transition to existing section within 50 feet of beginning and end of project.)

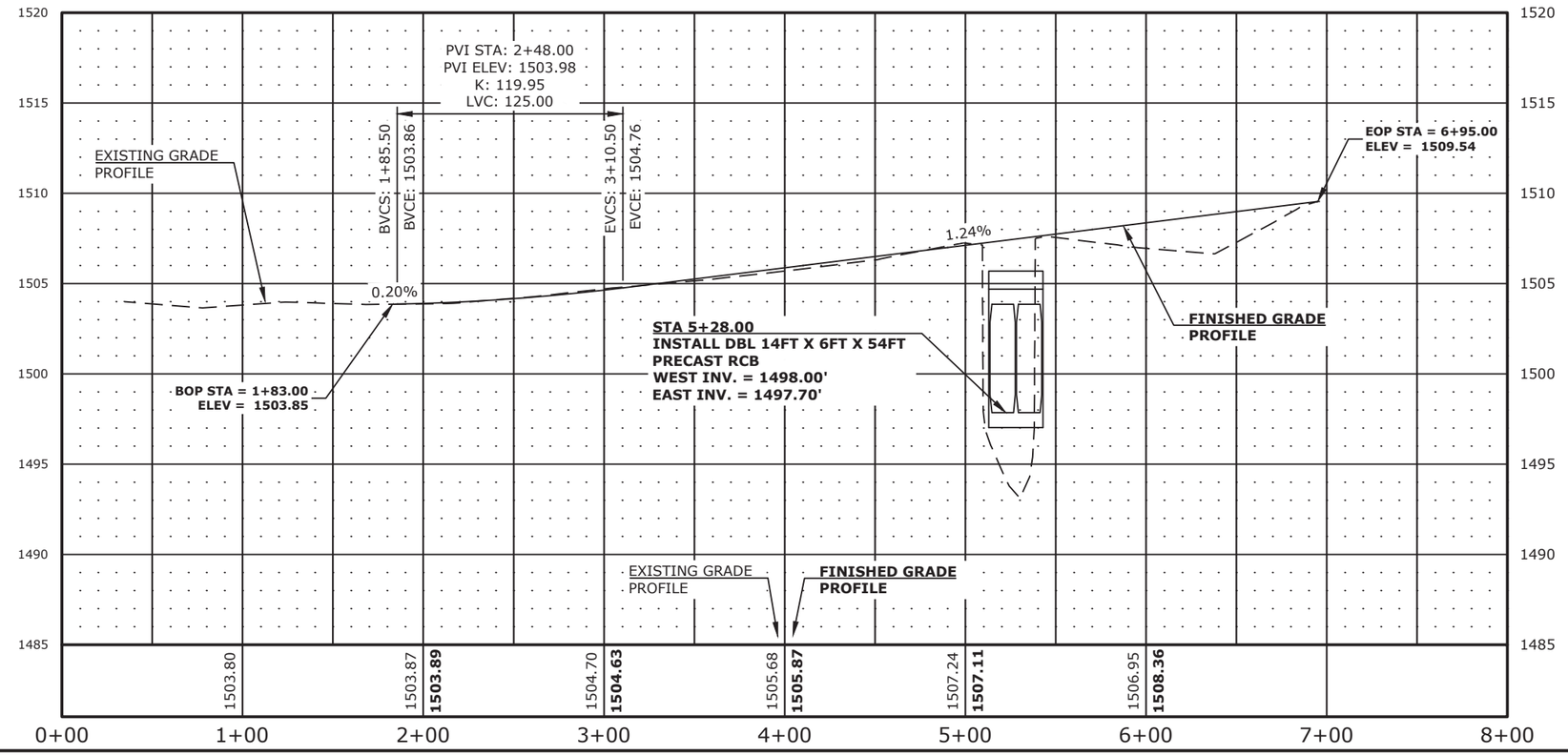
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PE-29083
DATE 09/09/2026
NORTH DAKOTA

TYPICAL SECTION
SITE 2

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-2500(023)	60	1





SPEC	CODE	BID ITEM	QTY	UNIT
201	0352	REMOVAL OF TREES AND BRUSH		
		STA. 5+50 LT & RT	1	L SUM
302	0356	AGGREGATE SURFACE COURSE CL 13		
		STA. 1+83 TO 6+95 - 28' Width (With Approaches)	359	TON
202	0312	REMOVE EXISTING FENCE		
		STA. 1+83 TO 5+08 RT	325	LF
		STA. 5+48 TO 6+22 RT	80	LF
752	0905	TEMPORARY FENCE		
		STA. 1+83 TO 6+95 RT	520	LF
752	0320	FENCE BARBED WIRE 4 STRAND-STEEL POST		
		STA. 1+83 TO 5+12 RT	330	LF
		STA. 5+44 TO 6+22 RT	85	LF
752	3150	CORNER ASSEMBLY BARBED WIRE-WOOD POST		
		STA. 4+65 RT	1	EA
		STA. 6+22 RT	1	EA

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DATE 09/09/2026
NORTH DAKOTA

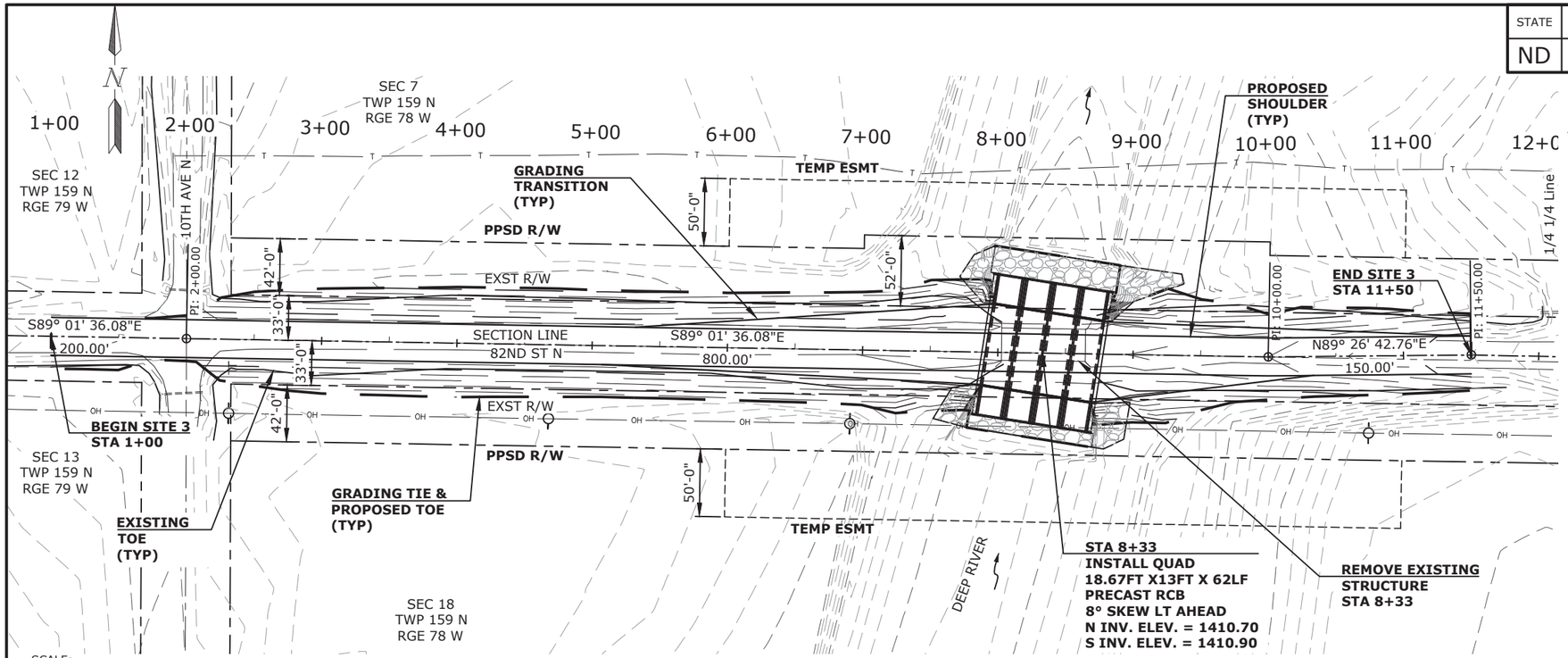
PLAN & PROFILE
SITE 1
STA. 1+83.00 TO 6+95.00
#25-107-26.2

FILE: BRC-BRJ-2500(023).dwg

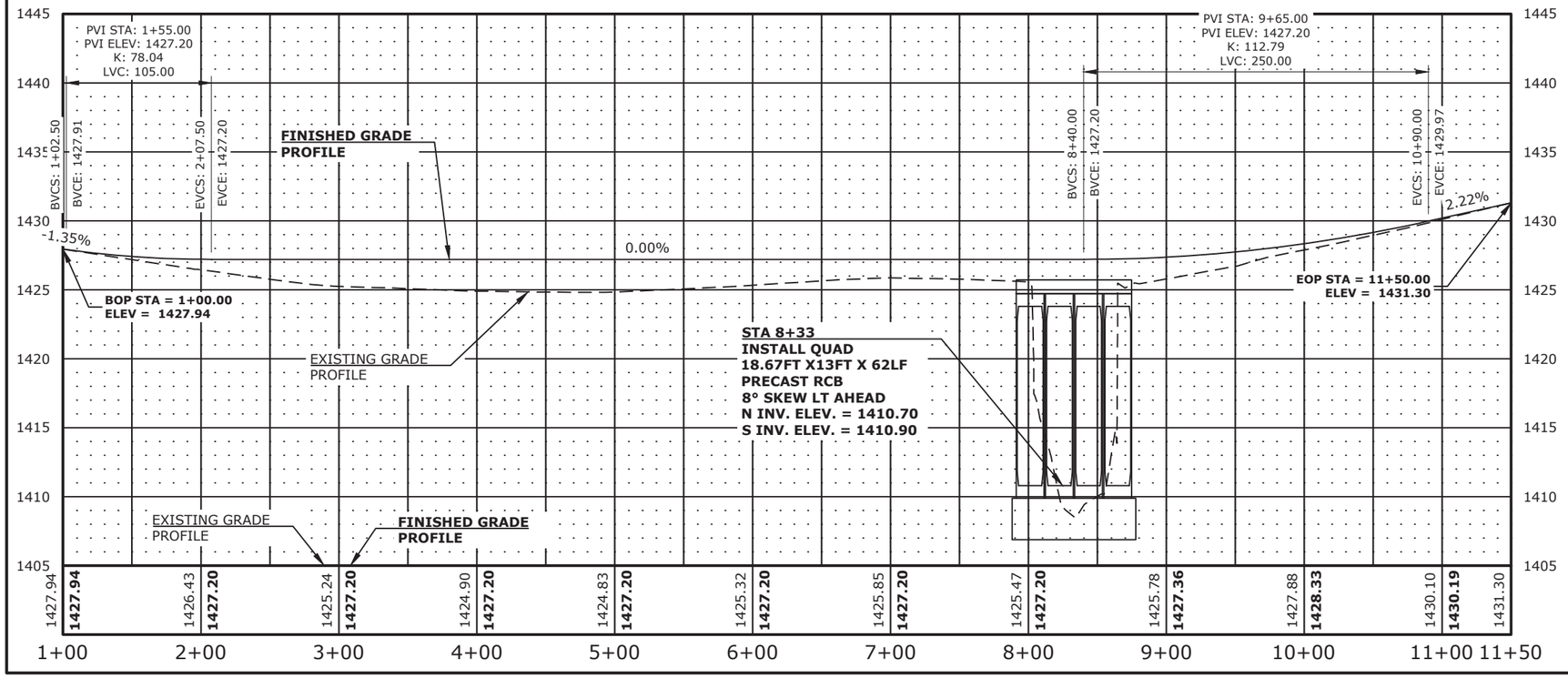
0 40 80 120
SCALE IN FEET

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-0025(055)	60	2

SPEC	CODE	BID ITEM	QTY	UNIT
302	0356	AGGREGATE SURFACE COURSE CL 13		
STA. 1+00.00 TO 11+50.00 - 28' Width (With Approaches)			683	TON



SCALE:
H: 1" = 100'
V: 1" = 10'



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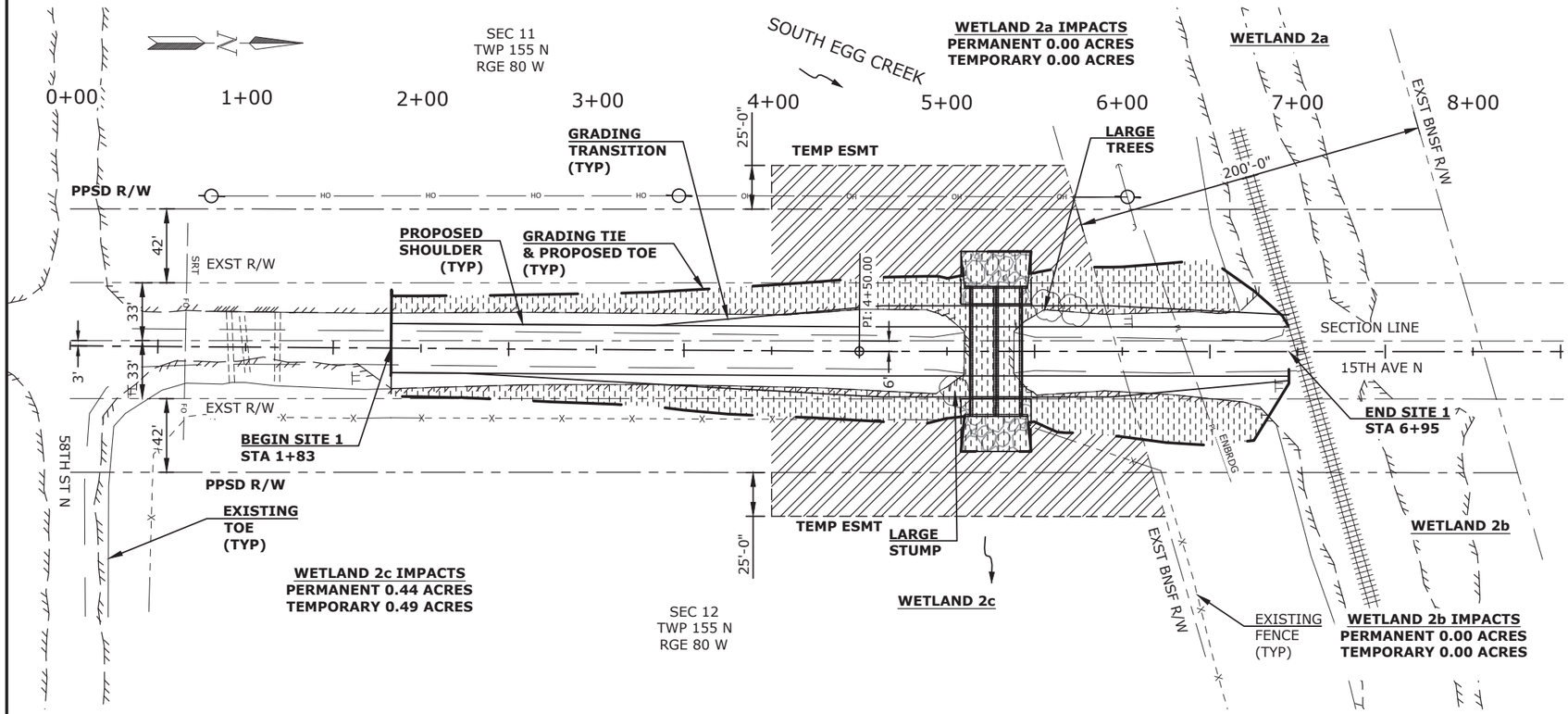
REGISTERED PROFESSIONAL ENGINEER
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PE-29083
DATE 09/09/2026
NORTH DAKOTA

PLAN & PROFILE
SITE 2
STA. 1+00.00 TO 11+50.00
#25-113-02.1

FILE: BRZ-0025(052)_Design.dwg

0 50 100 150
SCALE IN FEET

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-2500(023)	75	1



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DATE 09/09/2026
NORTH DAKOTA

WETLAND IMPACTS
SITE 1
STRUCTURE NO. 25-107-26.2

FILE: BRC-BRJ-2500(023).dwg

0 40 80 120
SCALE IN FEET

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-2500(023)	75	2

Wetland Impact Table

Wetland Number	Location	Wetland Type	Wetland Feature	USACE Jurisdictional Wetlands[1]	Wetland Impacts Acre(s)			Wetland Mitigation												
								Mitigation Required			USACE/11990 Bank		11990 Bank		USFWS Bank			Onsite		
					Temp.	Perm.	Riprap Lowered 1FT	EO 11990	USACE	USFWS	Location	Acre(s)	Location	Acre(s)	Location	Acre(s)	Mitigation Location; Ratio	Acre(s)	Constructed Site #	Constructed Size Acre(s)
2a	Sec. 11, T155N, R80W	Swale	Natural	N	0.00	0.00	0.00	N	N	N	Ducks Unlimited	0.00	N/A	0.00	N/A	0.00	N/A	0.00	N/A	N/A
2b	Sec. 12, T155N, R80W	Swale	Natural	N	0.00	0.00	0.00	N	N	N	Ducks Unlimited	0.00	N/A	0.00	N/A	0.00	N/A	0.00	N/A	N/A
2c	Sec. 11 & 12, T155N, R80W	Stream/Swale	Natural	N	0.49	0.44	0.04	Y	Y	N	Ducks Unlimited	0.05 Stream/ 0.35 Wetland	N/A	0.00	N/A	0.00	DU; 2:1/1:1	0.00	N/A	N/A
3	Sec. 14, T155N, R80W	Ditch	Natural	N	0.00	0.00	0.00	N	N	N	Ducks Unlimited	0.00	N/A	0.00	N/A	0.00	N/A	0.00	N/A	N/A
4	Sec. 13 & 14, T155N, R80W	Ditch	Natural	N	0.00	0.00	0.00	N	N	N	Ducks Unlimited	0.00	N/A	0.00	N/A	0.00	N/A	0.00	N/A	N/A
					0.49	**0.44**	**0.04**					**0.45**								

Impact Summary Table

Permanent Impact Summary		Temporary Impacts and additional information	
Wetland Type	**Total (Acres)**	**Wetland Type**	**Total (Acres/Lf)**
Natural/JD	0.45	**Temporary JD**	0.49
Natural/Non-JD	0	**Non-JD Temporary**	0
Artificial/JD	0	**Permanent JD > 0.10**	0
Artificial /Non-JD	0	**Permanent OW**	0.00 /0 ft.
Total	**0.45**	**Temporary OW**	0.00 ac /0 ft.

Mitigation Summary Table

	Location	Onsite Acre(s)	11990 Bank Acre(s)	USACE/11990 Bank Acre(s)	USFWS Bank Acre(s)
USACE Only					
EO 11990 Only					
USACE/11990	Ducks Unlimited	N/A		0.45	
USFWS	N/A				
	Total	**0**	**0**	**0.45**	**0**

[1] A wetland Jurisdictional Determination was issued by the USACE on June 26, 2024; NWO-2024-01042-BIS.

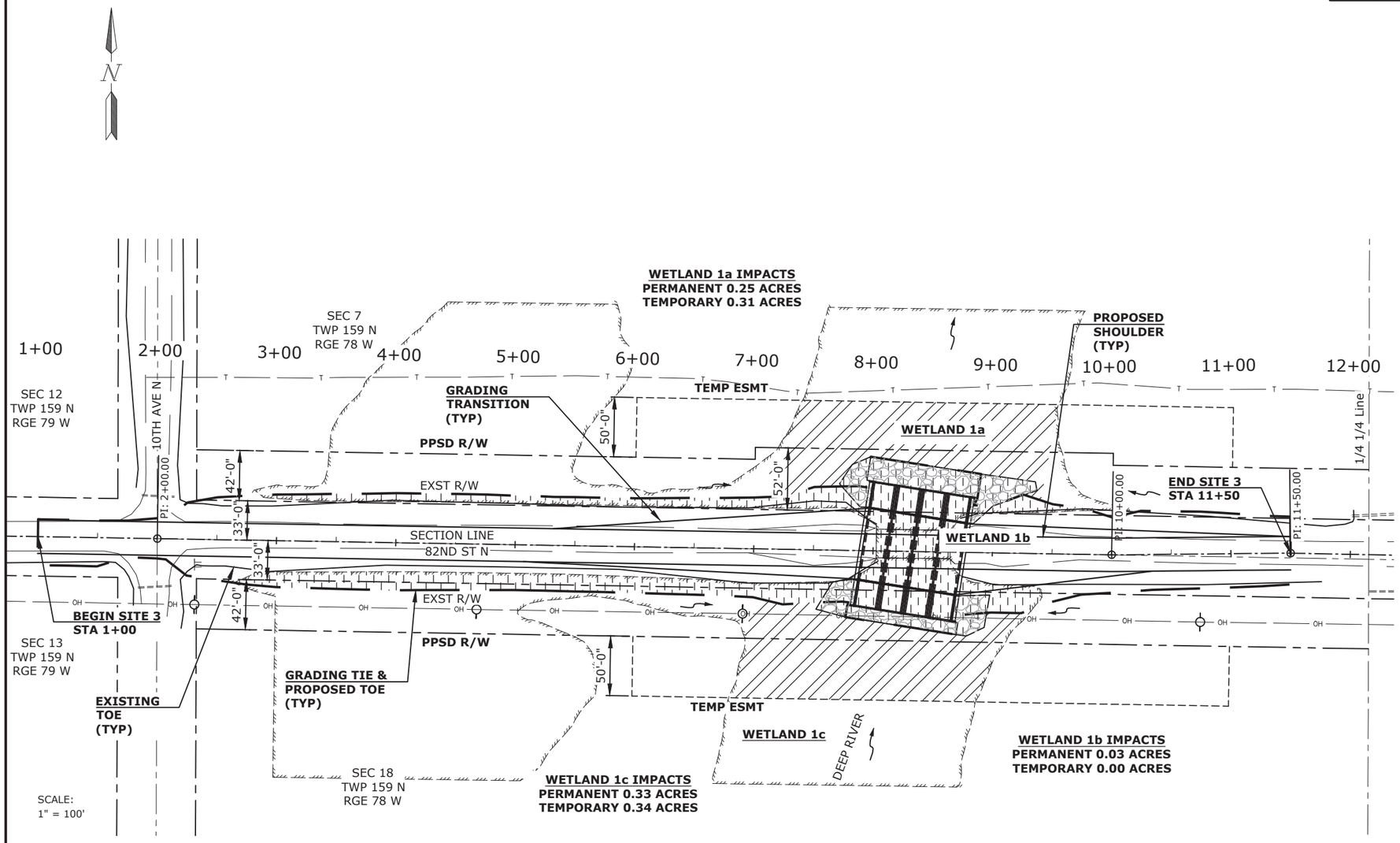
[2] Riprap placed in stream considered “no loss” and is removed from required mitigation.

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PE-29083
DATE 09/09/2026
NORTH DAKOTA

WETLANDS MITIGATION AND ENVIRONMENTAL
SITE 1
#25-107-26.2

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-0025(055)	75	3



- Temporary Impacts

- Permanent Impacts

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PE-29083
DATE 09/09/2026
NORTH DAKOTA

WETLAND IMPACTS
SITE 2
STRUCTURE NO. 25-113-02.1

FILE:
BRZ-0025(052)_Design.dwg

0 50 100 150
SCALE IN FEET

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-0025(055)	75	4

Wetland Impact Table

Wetland Number	Location	Wetland Type	Wetland Feature	USACE Jurisdictional Wetlands[1]	Wetland Impacts Acre(s)			USFWS Easement Impacts Acre(s)		Wetland Mitigation												
										Mitigation Required			USACE/11990 Bank		11990 Bank		USFWS Bank			Onsite		
					Temp.	Perm.	Riprap Lowered 1ft	Temp.	Perm.	EO 11990	USACE	USFWS	Location	Acre(s)	Location	Acre(s)	Location	Acre(s)	Mitigation Location; Ratio	Acre(s)	Constructed Site #	Constructed Size Acre(s)
1a	Sec.7, T159N, R78W	Drainageway	Natural	Y	0.31	0.25	0.04	0	0	N	Y	N	DU Bank	0.21	N/A	0.00	N/A	0.00	DU; 1:1	0.00	N/A	N/A
1b	Sec.7/18, T159N, R78W	Drainageway	Natural	Y	0	0.03	0.00	0	0	N	N	N	DU Bank	0.00	N/A	0.00	N/A	0.00	N/A	0.00	N/A	N/A
1c	Sec.18, T159N, R78W	Drainageway	Natural	Y	0.34	0.33	0.02	0	0	N	Y	N	DU Bank	0.31	N/A	0.00	N/A	0.00	DU; 1:1	0.00	N/A	N/A
2	Sec.18, T159N, R78W	Depression	Natural	Y	0	0	0.00	0	0	N	Y	N	N/A	0.00	N/A	0.00	N/A	0.00	N/A	0.00	N/A	N/A
					0.65	**0.61**	**0.06**	**0**	**0**					**0.52**		**0**		**0**		**0**		**0**

Impact Summary Table

Permanent Impact Summary		Temporary Impacts and additional information	
Wetland Type	**Total (Acres)**	**Wetland Type**	**Total (Acres/Lf)**
Natural/JD	0.52	**Temporary JD**	0.65
Natural/Non-JD	0	**Non-JD Temporary**	0
Artificial/JD	0	**Permanent JD > 0.10**	0
Artificial /Non-JD	0	**Permanent OW**	0.00 ac /0 ft.
Total	**0.52**	**Temporary OW**	0.00 ac /0 ft.

Mitigation Summary Table

	Location	Onsite Acre(s)	11990 Bank Acre(s)	USACE/11990 Bank Acre(s)	USFWS Bank Acre(s)
USACE Only	DU Bank			0.52	
EO 11990 Only					
USACE/11990					
USFWS					
	Total	**0**	**0**	**0.52**	**0**

[1] A wetland Jurisdictional Determination was issued by the USACE on 1/03/22; NWO-2021-02149-BIS.
[2] Riprap placed in stream considered “no loss” and is removed from required mitigation.

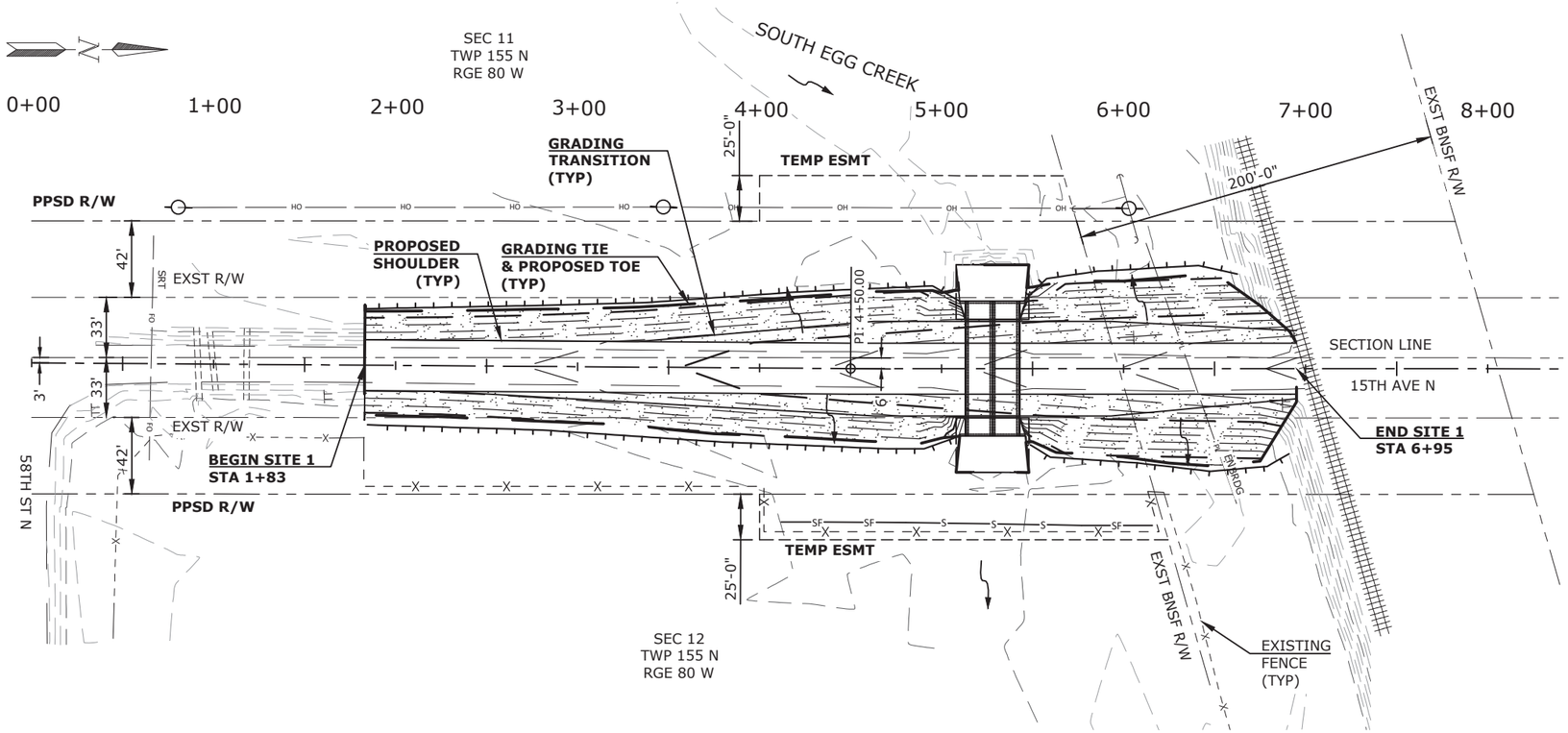
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SETH R. DEMONTIGNY
PE-29083
DATE 09/09/2026
NORTH DAKOTA

WETLANDS MITIGATION AND ENVIRONMENTAL
SITE 2
#25-113-02.1

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-2500(023)	76	1

SPEC	CODE	BID ITEM	QTY	UNIT
251	2000	TEMPORARY COVER CROP		
STA. 1+83 TO 6+95 LT			0.28	ACRE
STA. 1+83 TO 6+95 RT			0.27	ACRE
253	0101	STRAW MULCH		
STA. 1+83 TO 6+95 LT			0.28	ACRE
STA. 1+83 TO 6+95 RT			0.27	ACRE
260	0300	SILT FENCE		
STA. 4+10 TO 6+15 RT			110	LF
260	0301	REMOVE SILT FENCE		
STA. 4+10 TO 6+15 RT			110	LF
261	0112	FIBER ROLLS 12IN		
STA. 1+83 TO 6+95 RT			475	LF
STA. 1+83 TO 6+95 LT			450	LF
261	0113	REMOVE FIBER ROLLS 12IN		
STA. 1+83 TO 6+95 RT			475	LF
STA. 1+83 TO 6+95 LT			450	LF
262	0100	FLOTATION SILT CURTAIN		
STA. 4+80 TO 5+80 RT			100	LF
262	0101	REMOVE FLOTATION SILT CURTAIN		
STA. 4+80 TO 5+80 RT			100	LF



SCALES:
1" = 80'

TEMPORARY COVER CROP

FIBER ROLLS 12 IN

SILT FENCE

FLOATATION SILT CURTAIN

WOLD ENGINEERING, P.C.

REGISTERED PROFESSIONAL ENGINEER
SETH R. DEMONTIGNY
PE-29083
DATE 09/09/2026
NORTH DAKOTA

TEMPORARY EROSION CONTROL SITE 1

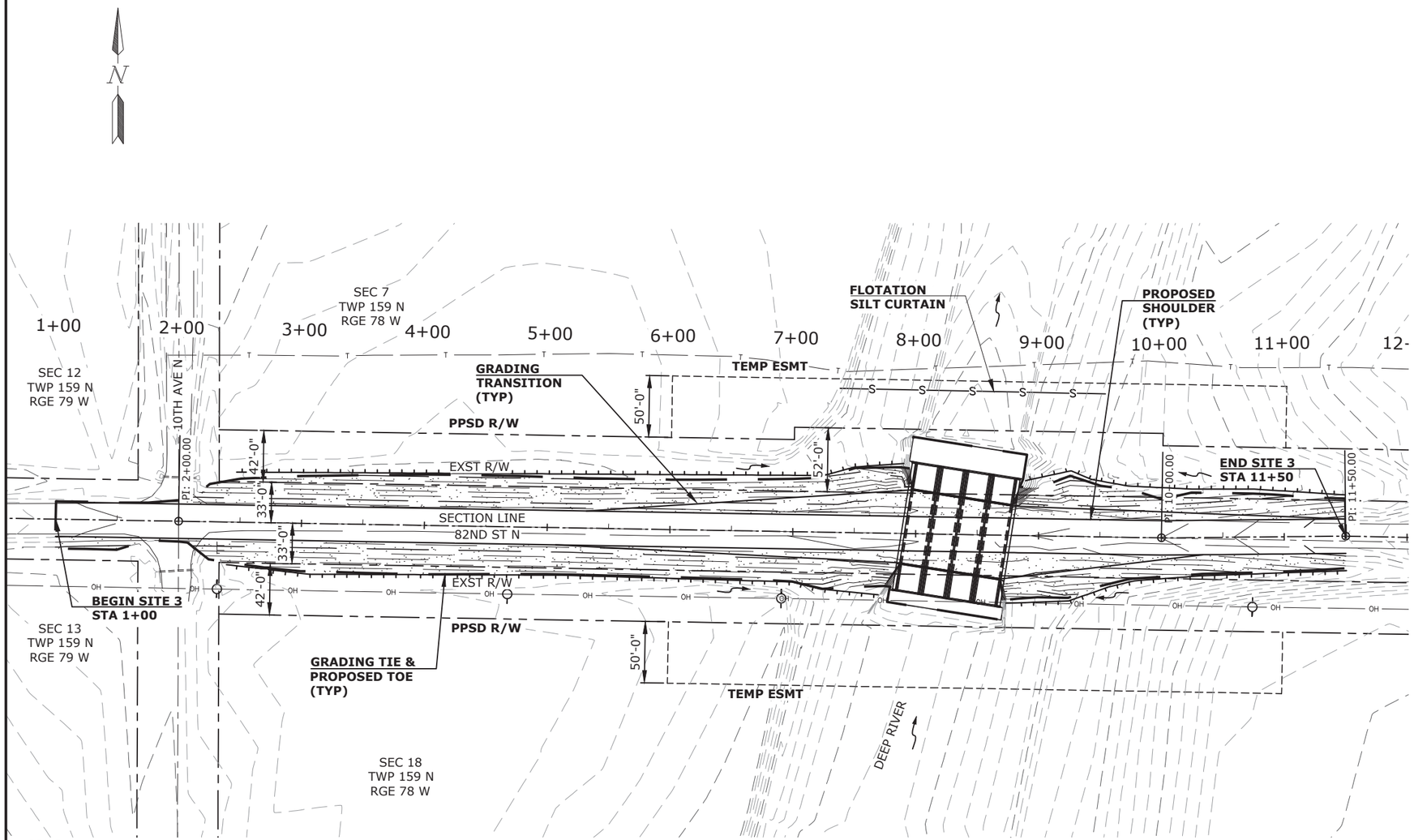
STA. 1+83.00 TO 6+95.00
STR #25-107-26.2

FILE:
BRC-BRJ-2500(023).dwg

0 40 80 120
SCALE IN FEET

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-0025(055)	76	2

SPEC CODE	BID ITEM	QTY	UNIT
251 2000	TEMPORARY COVER CROP		
	STA. 1+00 TO 11+50 LT	0.54	ACRE
	STA. 1+00 TO 11+50 RT	0.51	ACRE
253 0101	STRAW MULCH		
	STA. 1+00 TO 11+50 LT	0.54	ACRE
	STA. 1+00 TO 11+50 RT	0.51	ACRE
261 0112	FIBER ROLLS 12IN		
	STA. 1+00 TO 11+50 LT	800	LF
	STA. 1+00 TO 11+50 RT	800	LF
261 0113	REMOVE FIBER ROLLS 12IN		
	STA. 1+00 TO 11+50 LT	800	LF
	STA. 1+00 TO 11+50 RT	800	LF
262 0100	FLOTATION SILT CURTAIN		
	STA. 1+00 TO 11+50	220	LF
262 0101	REMOVE FLOTATION SILT CURTAIN		
	STA. 1+00 TO 11+50	220	LF



SCALE:
1" = 100'

TEMPORARY COVER CROP

FIBER ROLLS 12 IN

FLOATATION SILT CURTAIN

WOLD ENGINEERING, P.C.

REGISTERED PROFESSIONAL ENGINEER
SETH R. DEMONTIGNY
PE-29083
DATE 09/09/2026
NORTH DAKOTA

TEMPORARY EROSION CONTROL SITE 2

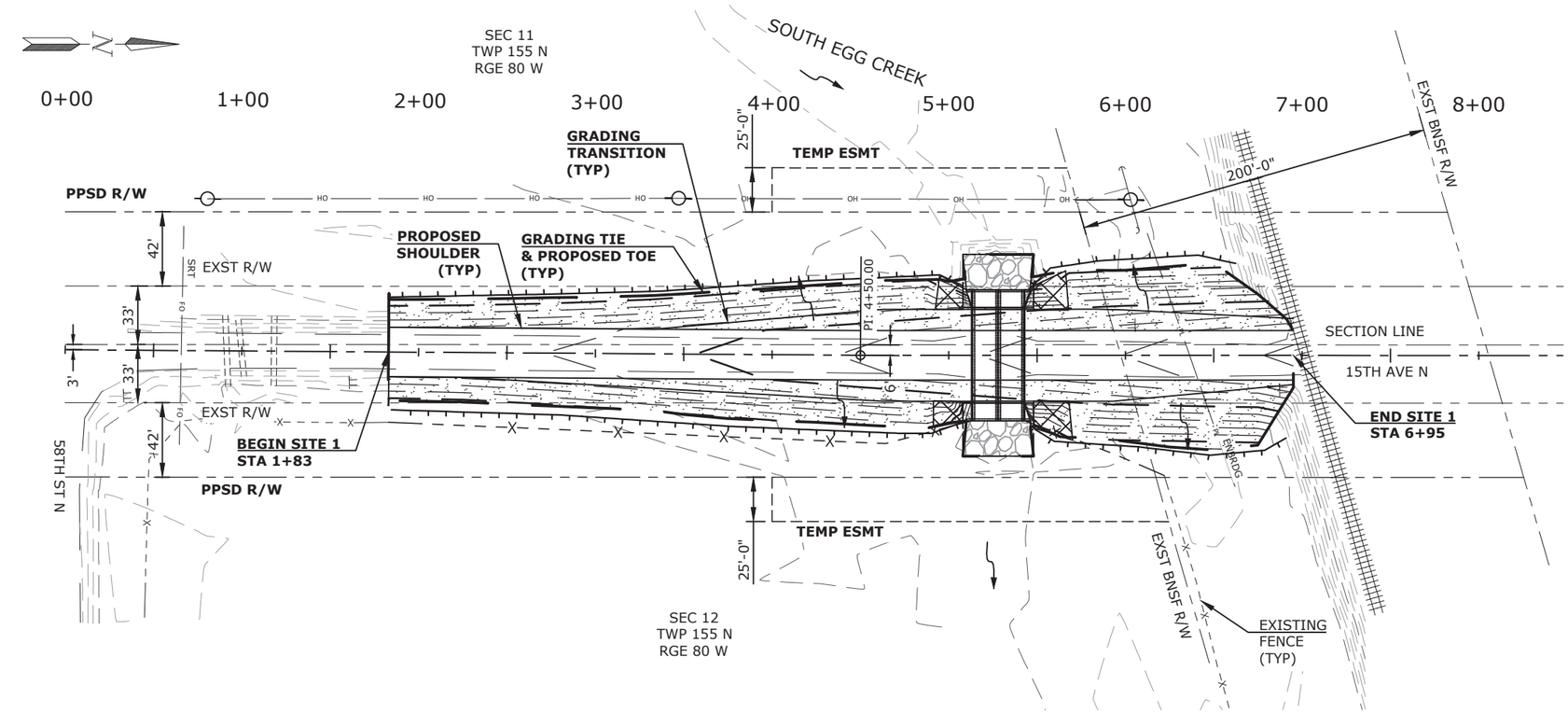
STA. 1+00.00 TO 11+50.00
STR #25-113-02.1

FILE:
BRZ-0025(052)_Design.dwg

0 50 100 150
SCALE IN FEET

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-2500(023)	77	1

SPEC	CODE	BID ITEM	QTY	UNIT
251	0200	SEEDING CLASS II		
		STA. 1+83 TO 6+95 LT	0.28	ACRE
		STA. 1+83 TO 6+95 RT	0.27	ACRE
253	0101	STRAW MULCH		
		STA. 1+83 TO 6+95 LT	0.28	ACRE
		STA. 1+83 TO 6+95 RT	0.27	ACRE
255	0103	ECB TYPE 3		
		STA. 4+80 TO 5+60 LT	65	SY
		STA. 4+80 TO 5+60 RT	66	SY
256	0200	RIPRAP GRADE II		
		STA. 1+83 TO 6+95 RT	67	CY
		STA. 1+83 TO 6+95 LT	67	CY
261	0112	FIBER ROLLS 12IN		
		STA. 1+83 TO 6+95 RT	475	LF
		STA. 1+83 TO 6+95 LT	450	LF
709	0151	GEOSYNTHETIC MATERIAL TYPE RR		
		STA. 1+83 TO 6+95 RT	100	SY
		STA. 1+83 TO 6+95 LT	100	SY



SCALES:
1" = 80'

SEEDING CLASS II AND STRAW MULCH

ECB TYPE 3 & SEEDING CLASS II

RIPRAP GRADE II

FIBER ROLLS 12 IN

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PE-29083
DATE 09/09/2026
NORTH DAKOTA

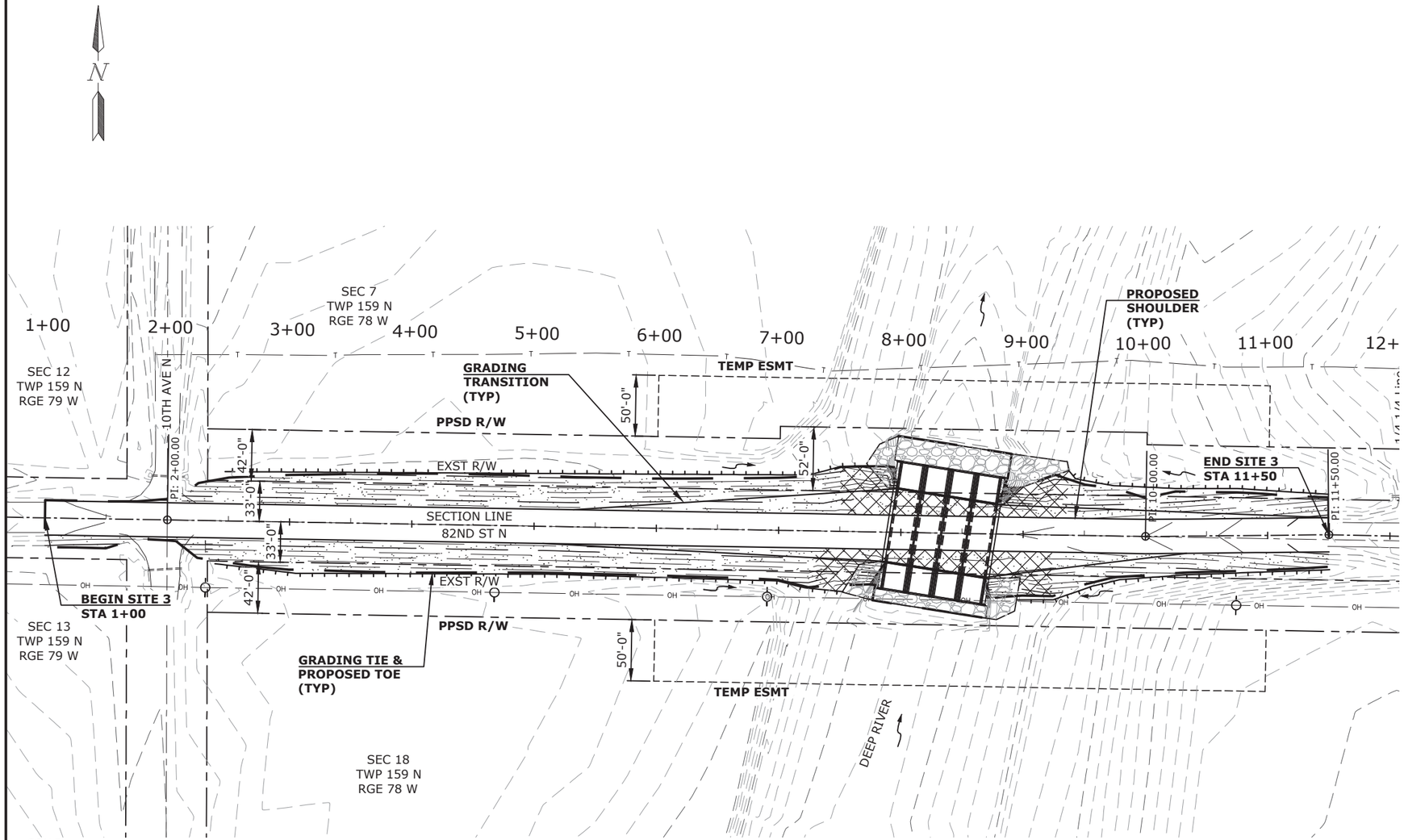
PERMANENT EROSION CONTROL SITE 1

STA. 1+83.00 TO 6+95.00
STR #25-107-26.2

FILE:
BRC-BRJ-2500(023).dwg

0 40 80 120
SCALE IN FEET

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-0025(055)	77	2



SCALE:
1" = 100'

SEEDING CLASS II AND STRAW MULCH

ECB TYPE 3 & SEEDING CLASS II

RIPRAP GRADE II

FIBER ROLLS 12 IN

SPEC	CODE	BID ITEM	QTY	UNIT
251	0200	SEEDING CLASS II		
STA. 1+00 TO 11+50 LT			0.54	ACRE
STA. 1+00 TO 11+50 RT			0.51	ACRE
253	0101	STRAW MULCH		
STA. 1+00 TO 11+50 LT			0.54	ACRE
STA. 1+00 TO 11+50 RT			0.51	ACRE
255	0103	ECB TYPE 3		
STA. 7+50 TO 9+50 LT			490	SY
STA. 7+50 TO 9+50 RT			460	SY
256	0200	RIPRAP GRADE II		
STA. 7+75 TO 9+25 LT			274	CY
STA. 7+50 TO 9+00 RT			181	CY
261	0112	FIBER ROLLS 12 IN		
STA. 1+00 TO 11+50 LT			800	LF
STA. 1+00 TO 11+50 RT			800	LF
709	0155	GEOSYNTHETIC MATERIAL TYPE RR		
STA. 8+30 LT			410	SY
STA. 8+30 RT			273	SY

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SETH R. DEMONTIGNY
PE-29083
DATE 09/09/2026
NORTH DAKOTA

PERMANENT EROSION CONTROL SITE 2

STA. 20+82.00 TO 31+75.00
STR #25-113-02.1

FILE:
BRZ-0025(052)_Design.dwg

0 50 100 150
SCALE IN FEET

PRELIMINARY SURVEY COORDINATE AND CURVE DATA - SITE 1

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-2500(023)	81	1

HORIZONTAL ALIGNMENT

PNT	STATION	NORTHING	EASTING
BOP	1+83.00	458034.8755	1869188.0438
EOP	6+95.00	458546.8690	1869189.9911

CURVE DATA

ARC DEFINITION

US PUBLIC LAND SURVEY DATA

DESC.	SEC-TWP-RGE	NORTHING	EASTING
SW COR	12-155-80	457851.8810	1869183.7640
W 1/4	12-155-80	460514.7730	1869184.6340
NW COR	12-155-80	463158.1040	1869185.7390

SURVEY CONTROL POINTS

PNT	NORTHING	EASTING	ELEV	STATION	OFFSET	CONTROL POINT DESCRIPTION
CP1	459253.9850	1869205.1740	1524.52			5/8" Rebar
CP2	455859.7550	1869167.6480	1525.69			5/8" Rebar
CP3	458455.3190	1869223.8810	1501.32			Brass Cap

NOTE: STRUCTURE #25-107-26.2

Date Survey Completed 10/17/23

☐ Assumed Coordinates

☒ All coordinates on this sheet are US State Plane Coordinate System. They are derived from the "North American Datum of 1983", NAD83, 2011 Reference Frame; North Dakota North Zone

All coordinates and measurements on this document derived from the International Foot definition.

INITIALIZING BENCH MARK

☒ NAVD-88 (2011)
☐ NGVD-29

☐ GEOID 12bu2 ☐ _____
☒ GEOID 18

REGISTERED PROFESSIONAL ENGINEER
SETH R. DEMONTIGNY
PE-29083
DATE 09/09/2026
NORTH DAKOTA

PRELIMINARY SURVEY COORDINATE AND CURVE DATA - SITE 3

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-0025(055)	81	2

HORIZONTAL ALIGNMENT

PNT	STATION	NORTHING	EASTING
BOP	1+00.00	585225.9937	1896330.9264
EOP	11+50.00	585212.1580	1897380.7895

CURVE DATA

ARC DEFINITION

US PUBLIC LAND SURVEY DATA

DESC.	SEC-TWP-RGE	NORTHING	EASTING
SW	7-159-78	585224.2950	1896430.9120
S 1/4 COR	7-159-78	585184.6360	1898765.2890
W 1/4 COR	7-159-78	587876.2580	1896436.4900

SURVEY CONTROL POINTS

PNT	NORTHING	EASTING	ELEV	STATION	OFFSET	CONTROL POINT DESCRIPTION
CP1	585400.4820	1896441.8770	1448.08			5/8" Rebar
CP2	585176.6370	1896441.3880	1425.16			5/8" Rebar
CP3	585231.9670	1897118.4090	1425.43			5/8" Rebar
CP4	585228.3250	1897443.6190	1432.13			5/8" Rebar

NOTE: STRUCTURE #25-113-02.1

Date Survey Completed 10/17/23

☐ Assumed Coordinates

☒ All coordinates on this sheet are North Dakota State Plane Coordinate System International Feet. They are derived from the "North American Datum of 1983", NAD83, 2011 Reference Frame; North Dakota North Zone; Scale Factor 1.0000

All coordinates and measurements on this document derived from the International Foot definition.

INITIALIZING BENCH MARK

☒ NAVD-88 (2011)
☐ NGVD-29

☒ GEOID 12bu2 ☐ _____
☐ GEOID 18

REGISTERED PROFESSIONAL ENGINEER
SETH R DEMONTIGNY
PE-29083
DATE 09/09/2026
NORTH DAKOTA

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-2500(023)	100	1

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
E5-1-48	48"x48"	EXIT GORE		35	
G20-1-60	60"x24"	ROAD WORK NEXT __ MILES		28	
G20-1b-60	60"x24"	NO WORK IN PROGRESS (Sign and installation only)		18	
G20-2-48	48"x24"	END ROAD WORK		26	
G20-4-36	36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car)		18	
G20-4b-36	36"x30"	WAIT FOR PILOT CAR		18	
G20-50a-72	72"x36"	ROAD WORK NEXT __ MILES RT & LT ARROWS		43	
G20-52a-72	72"x24"	ROAD WORK NEXT __ MILES RT or LT ARROW		36	
G20-55-96	96"x48"	SPEED LIMIT ENFORCED - MINIMUM FEE $150 WHEN WORKERS PRESENT		59	
M1-1-36	36"x36"	INTERSTATE ROUTE MARKER (Post and installation only)		11	
M1-4-24	24"x24"	U.S. ROUTE MARKER (Post and installation only)		10	
M1-5-24	24"x24"	STATE ROUTE MARKER (Post and installation only)		10	
M3-1-24	24"x12"	NORTH (Mounted on route marker post)		7	
M3-2-24	24"x12"	EAST (Mounted on route marker post)		7	
M3-3-24	24"x12"	SOUTH (Mounted on route marker post)		7	
M3-4-24	24"x12"	WEST (Mounted on route marker post)		7	
M4-8-24	24"x12"	DETOUR (Mounted on route marker post)		7	
M4-9-30	30"x24"	DETOUR ARROW RIGHT or LEFT/AHD AND RT or LT		15	
M4-10-48	48"x18"	DETOUR (INSIDE ARROW) RIGHT or LEFT (Mounted on barricade)		7	
M5-1-21	21"x15"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)		7	
M5-1-30	30"x21"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)		9	
M6-1-21	21"x15"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)		7	
M6-1-30	30"x21"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)		9	
M6-3-21	21"x15"	DIRECTIONAL ARROW UP (Mounted on route marker post)		7	
R1-1-48	48"x48"	STOP		32	
R1-2-60	60"x60"	YIELD		29	
R2-1-36	36"x48"	SPEED LIMIT __ (Portable only)		30	
R2-1-48	48"x60"	SPEED LIMIT __		39	
R2-1aP-24	24"x18"	MINIMUM FEE $150 (Mounted on Speed Limit post)		10	
R3-2-48	48"x48"	NO LEFT TURN		35	
R4-1-48	48"x60"	DO NOT PASS		39	
R4-7-48	48"x60"	KEEP RIGHT		39	
R5-1-48	48"x48"	DO NOT ENTER		35	
R6-1-54	54"x18"	ONE WAY RIGHT or LEFT (Mounted on STOP or DO NOT ENTER post)		14	
R7-1-12	12"x18"	NO PARKING ANY TIME		11	
R10-6-24	24"x36"	STOP HERE ON RED		16	
R11-2-48	**48"x30"**	**ROAD CLOSED (Mounted on barricade)**	**4**	**12**	**48**
R11-2a-48	48"x30"	STREET CLOSED (Mounted on barricade)		12	
R11-3a-60	**60"x30"**	**ROAD CLOSED __ MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)**	**4**	**15**	**60**
R11-3c-60	60"x30"	STREET CLOSED __ MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)		15	
R11-4a-60	60"x30"	STREET CLOSED TO THRU TRAFFIC (Mounted on barricade)		15	
W1-3-48	48"x48"	REVERSE TURN RIGHT or LEFT		35	
W1-4-48	48"x48"	REVERSE CURVE RIGHT or LEFT		35	
W1-4b-48	48"x48"	TWO LANE REVERSE CURVE RIGHT or LEFT		35	
W1-6-48	48"x24"	ONE DIRECTION LARGE ARROW		26	
W3-1-48	48"x48"	STOP AHEAD		35	
W3-3-48	48"x48"	SIGNAL AHEAD		35	
W3-4-48	48"x48"	BE PREPARED TO STOP		35	
W3-5-48	48"x48"	SPEED REDUCTION AHEAD		35	
W4-2-48	48"x48"	LANE ENDS RIGHT or LEFT		35	
W5-1-48	48"x48"	ROAD NARROWS		35	
W5-8-48	48"x48"	THRU TRAFFIC RIGHT LANE		35	
W5-9-48	48"x48"	ROAD WORK TRAFFIC ONLY DOWN & LT or RT ARROW		35	
W6-3-48	48"x48"	TWO WAY TRAFFIC		35	
W8-1-48	48"x48"	BUMP		35	
W8-3-48	48"x48"	PAVEMENT ENDS		35	
W8-7-48	48"x48"	LOOSE GRAVEL		35	
W8-11-48	48"x48"	UNEVEN LANES		35	
W8-12-48	48"x48"	NO CENTER LINE		35	
W8-17-48	48"x48"	SHOULDER DROP-OFF SYMBOL		35	
W8-53-48	48"x48"	TRUCKS ENTERING HIGHWAY		35	
W8-54-48	48"x48"	TRUCKS ENTERING AHEAD or __ FT or _ MILE		35	
W8-55-48	48"x48"	TRUCKS CROSSING AHEAD or __ FT or _ MILE		35	
W8-56-48	48"x48"	TRUCKS EXITING HIGHWAY		35	
W9-3a-48	48"x48"	CENTER LANE CLOSED SYMBOL		35	
W13-1P-30	30"x30"	__ MPH ADVISORY SPEED PLAQUE (Mounted on warning sign post)		14	
W14-3-64	64"x48"	NO PASSING ZONE		28	
W16-2P-30	30"x24"	__ FEET PLAQUE (Mounted on warning sign post)		10	
W20-1-48	48"x48"	ROAD WORK AHEAD or _FT or _ MILE		35	
W20-2-48	48"x48"	DETOUR AHEAD or __ FT or _ MILE		35	
W20-3-48	**48"x48"**	**ROAD or STREET CLOSED AHEAD or __ FT or _ MILE**	**8**	**35**	**280**
W20-4-48	48"x48"	ONE LANE ROAD AHEAD or __FT or _ MILE		35	
W20-5-48	48"x48"	RIGHT or CENTER or LEFT LANE CLOSED AHEAD or __ FT or _ MILE		35	
W20-7-48	48"x48"	FLAGGER		35	
W20-8-18	18"x18"	STOP - SLOW PADDLE Back to Back		5	
W20-52P-54	54"x12"	NEXT __ MILES (Mounted on warning sign post)		12	
W21-1-48	48"x48"	WORKERS		35	
W21-2-48	48"x48"	FRESH OIL		35	
W21-3-48	48"x48"	ROAD MACHINERY AHEAD or __ FT or _ MILE		35	
W21-5-48	48"x48"	SHOULDER WORK		35	
W21-5a-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED		35	
W21-5b-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED AHEAD or __ FT or _ MILE		35	

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
W21-6-48	48"x48"	SURVEY CREW		35	
W21-50-48	48"x48"	BRIDGE PAINTING AHEAD or __ FT		35	
W21-51-48	48"x48"	MATERIAL ON ROADWAY		35	
W21-52-48	48"x48"	PAVEMENT BREAKS		35	
W21-53-48	48"x48"	RUMBLE STRIPS AHEAD		35	
W22-8-48	48"x48"	FRESH OIL LOOSE ROCK		35	
W24-1-48	48"x48"	DOUBLE REVERSE CURVE		35	

SPECIAL SIGNS

SPEC & CODE

704-1000	**TRAFFIC CONTROL SIGNS**	**TOTAL UNITS**	**388**

SPEC & CODE	DESCRIPTION	UNIT	QUANTITY
704-0100	FLAGGING	MHR	
704-1048	PORTABLE RUMBLE STRIPS	EACH	
704-1050	TYPE I BARRICADES	EACH	
704-1052	**TYPE III BARRICADES**	**EACH**	**16**
704-1060	DELINEATOR DRUMS	EACH	
704-1065	TRAFFIC CONES	EACH	
704-1067	TUBULAR MARKERS	EACH	
704-1070	DELINEATOR	EACH	
704-1072	FLEXIBLE DELINEATORS	EACH	
704-1080	STACKABLE VERTICAL PANELS	EACH	
704-1081	VERTICAL PANELS - BACK TO BACK	EACH	
704-1085	SEQUENCING ARROW PANEL - TYPE A	EACH	
704-1086	SEQUENCING ARROW PANEL - TYPE B	EACH	
704-1087	SEQUENCING ARROW PANEL - TYPE C	EACH	
704-1500	OBLITERATION OF PVMT MK	SF	
704-3501	PORTABLE PRECAST CONCRETE MED BARRIER	LF	
704-3510	PRECAST CONCRETE MED BARRIER - STATE FURNISHED	EACH	
762-0200	RAISED PAVEMENT MARKERS	EACH	
762-0420	SHORT TERM 4IN LINE - TYPE R	LF	
762-0430	SHORT TERM 4IN LINE - TYPE NR	LF	

PROJECT NO.

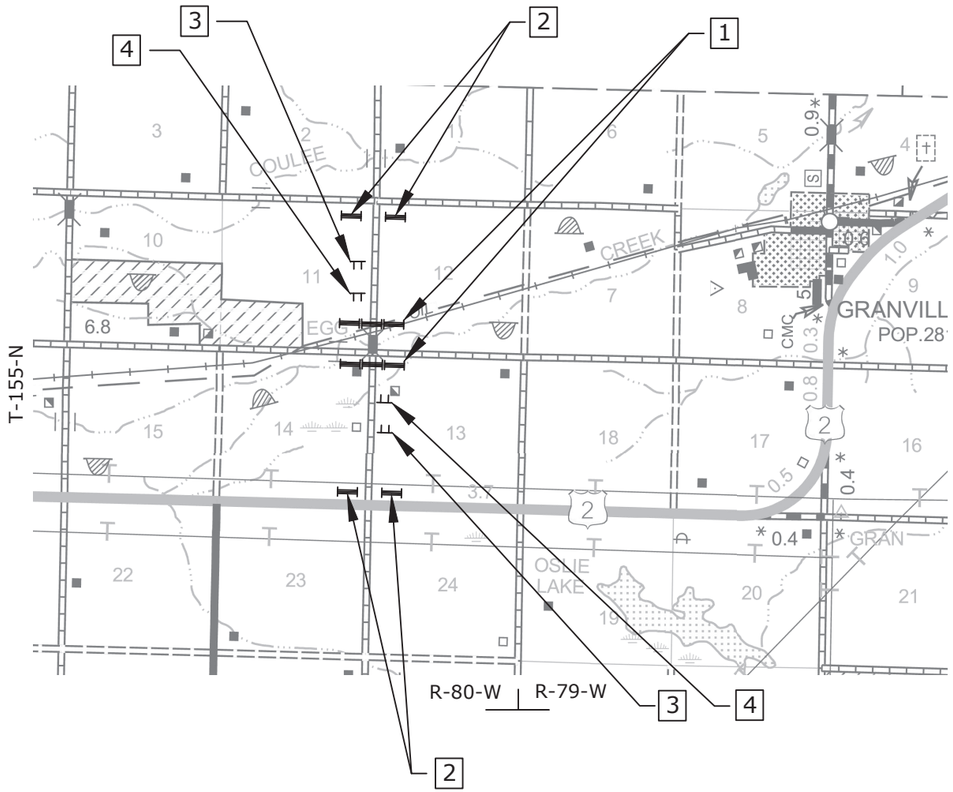
BRO-0025(055)

NOTE:
If additional signs are required, units will be calculated using the formula from Section III-18.06 of the Design Manual.
http://www.dot.nd.gov/

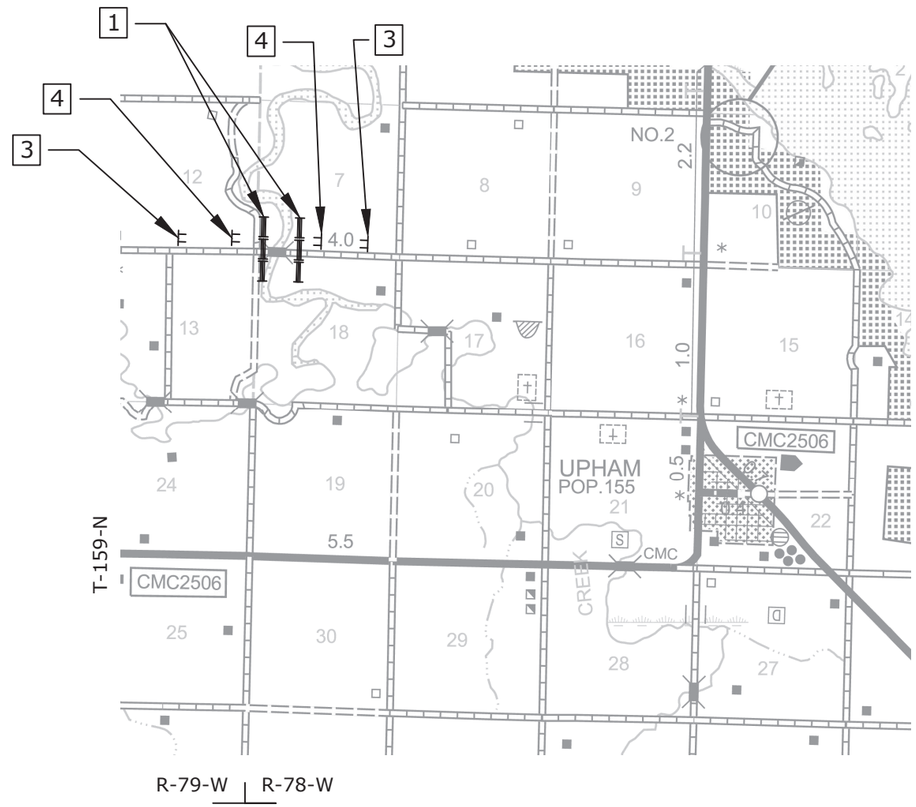
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Traffic Control Devices List

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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	BRO-0025(055)		



SITE 1



SITE 2

Traffic Control Layout

1

ROAD CLOSED

R11-2-48
Type III Barricade
Skid Mounted

2

ROAD CLOSED
X.X MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3a-60
Type III Barricade
Post Mounted

3

ROAD CLOSED 1440 FT

W20-3-48
Post Mounted

4

ROAD CLOSED 720 FT

W20-3-48
Post Mounted

LEGEND

1. R11-2-48: ROAD CLOSED (Mounted on Barricade)
2. R11-3a-60: ROAD CLOSED _ MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on Barricade)
3. W20-3-48: ROAD CLOSED 1440 FT (Post Mounted)
4. W20-3-48: ROAD CLOSED 720 FT (Post Mounted)

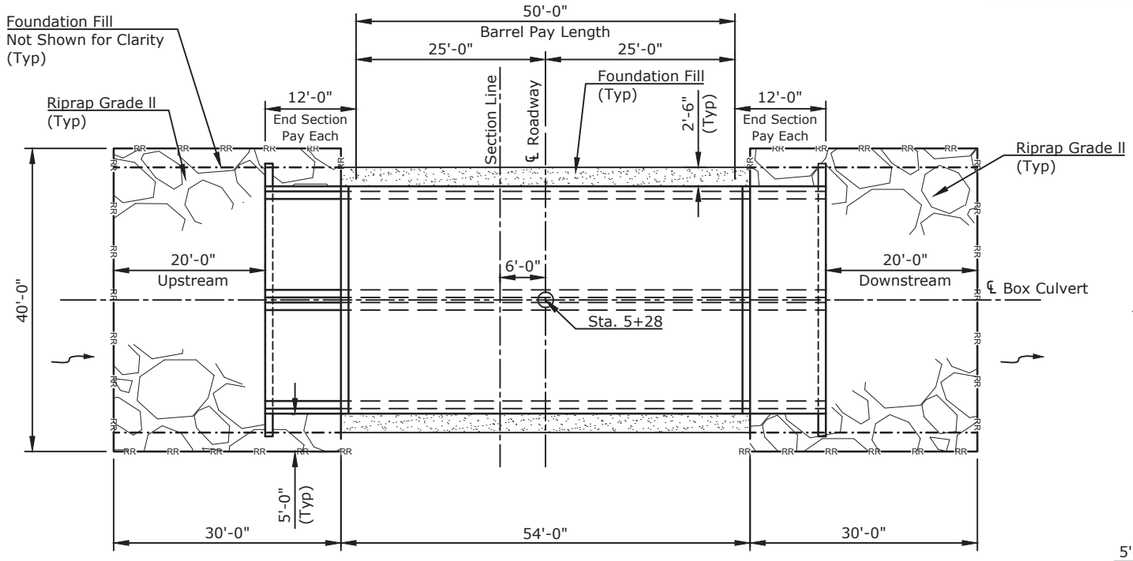
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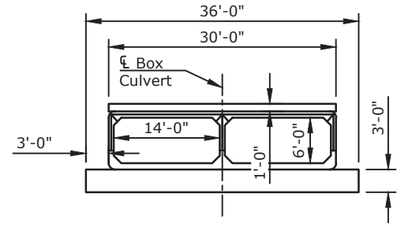
WORK ZONE
TRAFFIC CONTROL
SITES 1 & 2

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NDDOT Reserves All Objections

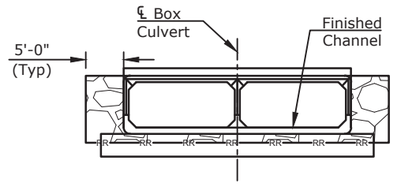
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-2500(023)	170	1



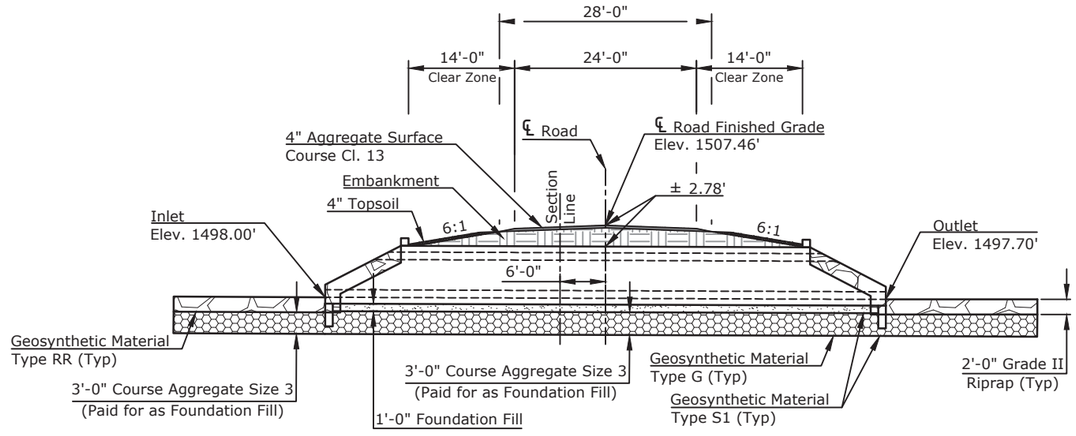
PLAN



END VIEW
(Showing Dimensions)



END VIEW
(Showing Finished Section)



ELEVATION

HYDRAULIC DATA	
DRAINAGE AREA	29.2 sq. miles
STREAM SLOPE	0.00142 ft/ft
DESIGN FREQUENCY	15 year
DESIGN DISCHARGE	471 cfs
DESIGN HEADWATER STAGE	1,502.71'
DESIGN TAILWATER STAGE	1,501.27'
DESIGN VELOCITY	6.55 fps
100-YEAR FREQUENCY DISCHARGE	912 cfs
100-YEAR FREQUENCY HEADWATER	1,504.21'
OVERTOPPING STAGE	1,503.80'
OVERTOPPING DISCHARGE	700 cfs

Reinforced Concrete Box Culvert Quantities

SPEC	CODE	ITEM DESCRIPTION	UNIT	QUANTITY
202	0108	REMOVAL OF STRUCTURE-SITE 1	L SUM	1
210	0051	BOX CULVERT EXCAVATION - SITE 1	EA	1
210	0210	FOUNDATION FILL	CY	558
210	0202	FOUNDATION PREPARATION-SITE 1	EA	1
606	3406	DBL 14FT X 6FT PRECAST RCB CULVERT	LF	50
606	7406	DBL 14FT X 6FT PRECAST RCB END SECTION	EA	2
709	0100	GEOSYNTHETIC MATERIAL TYPE G	SY	288
709	0161	GEOSYNTHETIC MATERIAL TYPE S1	SY	625

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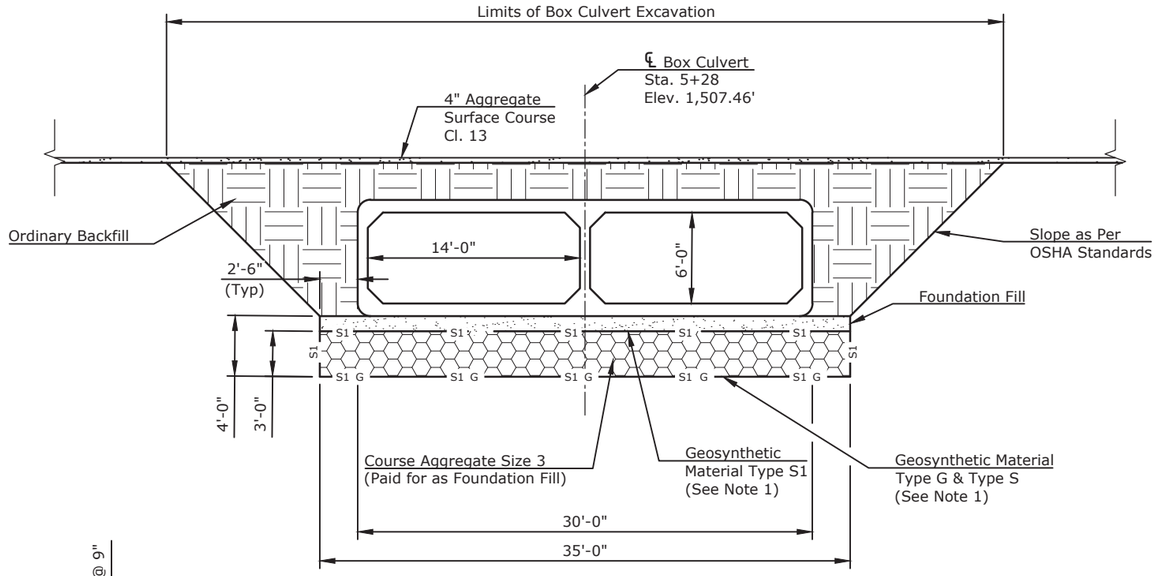
PRECAST CONCRETE BOX LAYOUT
SITE 1
STA. 5+28.00
STR #25-107-26.2

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SCALE IN FEET

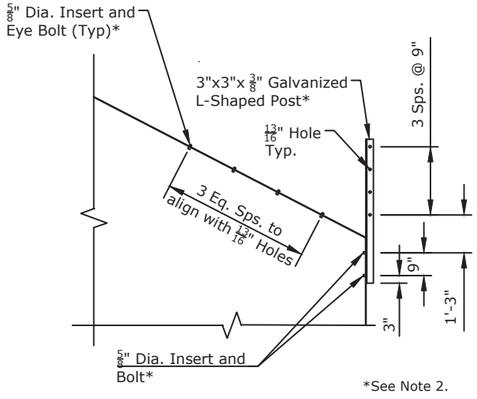
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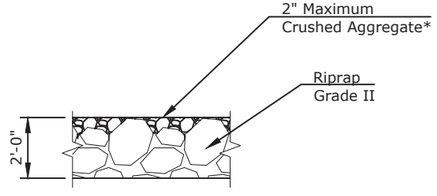
(SHOWING SECTION ALONG ℄ OF ROAD)

BOX CULVERT EXCAVATION & BACKFILL DETAIL



*See Note 2.

END SECTION INSERT AND L-SHAPE POST DETAIL



RIPRAP INFILL DETAIL

***NOTE:**

Place 2" aggregate on top of riprap to create a walking surface for safer access to the box culvert barrels. Do not place 2" aggregate on inslopes of end sections. The 2" aggregate will be paid for as foundation fill. Foundation fill bid item increased 20CY to account for 2" max crushed aggregate.

NOTES:

1. Geo fabric will extend to the cutoff wall.
2. Provide and install inserts, eye bolts, L-shaped post and bolts in the walls of the end sections corresponding to the locations of the proposed fence.

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EXCAVATION AND BACKFILL DETAILS - SITE 1
STA. 5+28.00
STR #25-107-26.2

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NOTES

100-P01 SCOPE OF WORK: The project consists of removing existing structure number 25-107-26.1 and installing a double 14-foot span by 6-foot rise precast concrete box culvert with sloped end sections.

202-P01 REMOVAL OF STRUCTURE–SITE 1: The existing structure is a 30.8-foot single-span steel beam and timber substructure bridge with a clear roadway width of 23-feet and an overall bridge width of 24.3-feet.

Contractor is to salvage timber planks, beams, and caps and deliver them to the McHenry County Highway Department shop in Granville, ND. Coordinate delivery placement with Darlene Carpenter, McHenry County Highway Superintendent at 701-537-5724. Include all costs associated with handling and delivering the salvaged material in the structure removal bid items.

All non-salvageable materials become property of the Contractor and will be handled in accordance with Section 107.17 of the Standard Specifications.

Cut off existing piling a minimum of one foot below the proposed foundation fill limits and backfill with foundation fill.

210-P01 FOUNDATION FILL: The quantity for foundation fill was computed as in-place to a depth of 4'-0" below the box culvert; however, this may vary depending on the soil conditions. If a suitable subgrade exists under the culvert site, the foundation fill may be reduced or eliminated at the direction of the Engineer. The bottom 3'-0" of the box culvert excavation will consist of coarse aggregate size 3, meeting the gradation in Table 802-03 of the Standard Specifications, and will be paid for as "FOUNDATION FILL." The coarse aggregate material will be accepted by Engineer's Statement with no testing required unless deemed necessary by the Engineer. The remaining foundation fill will be as specified in Section 210 of the Standard Specifications and will be paid for as "FOUNDATION FILL". Place foundation fill in layers of not more than 12", moisten or dry as required, and compact according to Section 203.04 G.3 of the Standard Specifications with exception of using smooth drum or plate compacting equipment. The final pay quantity will be based on in-place plan dimensions, and the Contractor will be responsible for extra material due to shrinkage.

210-P02 BOX CULVERT EXCAVATION – SITE 1: Include all box culvert excavation, foundation fill excavation, channel excavation, riprap excavation, topsoil removal and replacement, placement of ordinary backfill, compaction, water, and shaping of channel slopes in the unit price bid for "BOX CULVERT EXCAVATION - SITE 1".

The suitability of material from on-site excavations for use as ordinary backfill and embankment will be determined by the Engineer. The Contractor will remove and replace approximately 4" of topsoil over the excavation and embankment areas, except the 28' roadbed. Place and compact backfill in accordance with Section 203.04 G.3 of the Standard Specifications. Water may be required to compact the backfill and will be incidental. Embankment constructed from excavated material will not be measured for separate payment but will be included in the price bid for "BOX CULVERT EXCAVATION - SITE 1". If the excavated material is deemed not suitable for ordinary backfill or embankment, it will become property of the Contractor and will be disposed of outside of the road right-of-way, not adjacent to the construction site, and at a site approved by the Engineer. Include all costs associated with excavation, hauling, depositing and leveling the waste material in the unit price bid for "BOX CULVERT EXCAVATION - SITE 1".

256-P01 RIPRAP GRADE II: Final pay quantity for "RIPRAP GRADE II" will be determined by field measurements in accordance with plan length, width, and depth.

606-P01 PRECAST RCB CULVERT
Dimensions:

Double 14ft. span x 6 ft. rise sections.

Fill: 0ft. to 5ft.

Design Load: HL-93

Tie Bolts: All sections will be tied together with a minimum of 2 tie bolts per outside wall. Place the tie bolts at third points of the outside walls. Include cost of ties in the price bid for "DBL 14FT X 6FT PRECAST RCB CULVERT". An alternate tie system using pre-cast tubes and an internal cable tie will be allowed, but subject to review of work drawings.

End Sections: Cast holes at 3' centers through the floor of the last barrel section and into the cutoff wall to receive ¾" diameter reinforcing bars. Cast holes in the roof of the last barrel section at 1'-0" centers for ½" diameter reinforcing bars to attach the parapet. Cast the parapet against the section. Install the bars according to the Manufacturer's recommendation with a high-strength adhesive specifically intended for concrete anchorage in accordance with Section 806.06 of the NDDOT Standard Specifications.

The "DBL 14FT X 6FT PRECAST RCB END SECTION" bid item will consist of the threaded inserts, eye bolts, galvanized L-shape, cutoff wall, parapet, and sloped end sections.

Threaded Inserts for Bolts: Provide six (6) 5/8" Dia. galvanized threaded inserts, four (4) 5/8" Dia. threaded eyebolts, and two (2) galvanized bolts per outer-most wall on each end section to provide anchor points for fencing and galvanized angle. The concrete inserts will be of such design that when installed in concrete, will be capable of developing the full strength of the 5/8" Dia. threaded eye bolt. The inserts will start at the midpoint of the end section outer wall and be spaced at equal intervals up the wall to match hole spacing in galvanized L3x3x3/8" angle. Include all costs associated with the 5/8" Dia. Inserts, eye bolts, bolts, and galvanized L3x3x3/8" angle in the price bids for the "DBL 14FT X 6FT PRECAST RCB END SECTION".

Joints: Provide watertight joints on the floor, on the exterior walls, and roof using a preformed mastic meeting ASTM C 990. Cover all joints with a minimum of 12 inches wide waterproof membrane on the exterior walls and roof. Prepare the walls and roof exterior surface of the joints according to the waterproof membrane Manufacturer's recommendation. Roll the membrane to the surface keeping it free of wrinkles and bubbles. Lap waterproof membrane joints a minimum of 2.5 inches. Seal the joints and exposed edges with a joint sealing mastic recommended by the Manufacturer of the membrane.

Lifting Holes: Plug all lifting holes on the roof and walls with popits and cover with a minimum of 9-inch by 9-inch waterproof membrane squares. Prepare the walls and roof exterior surface of the lifting holes according to the waterproof membrane Manufacturer's recommendations. Roll the membrane to the surface keeping it free of wrinkles and bubbles. Grout all lifting holes in the floor and walls of the end sections with an approved non-shrink grout.

Single Cell Units: Separate single cell precast units may be used as alternates to a multi cell culvert. No adjustments to quantities or additional payments will be made to foundation fill or other incidental items affected by using separate single cell units.

Single to Single RCB Spacing: Install each single span precast box culvert with a space Between barrel lines of 1'-0" maximum. Fill this space with grout following this mix design:

Mix Design	
¾" minus Rock	800 lbs
Sand	2,300 lbs
Fly Ash	100 lbs
Cement	560 lbs
Air	5%
Slump	5" to 6"

The grout will be fluid on placement to flow around and fill voids in the backfill area. Include price of grout in price bid for precast units.

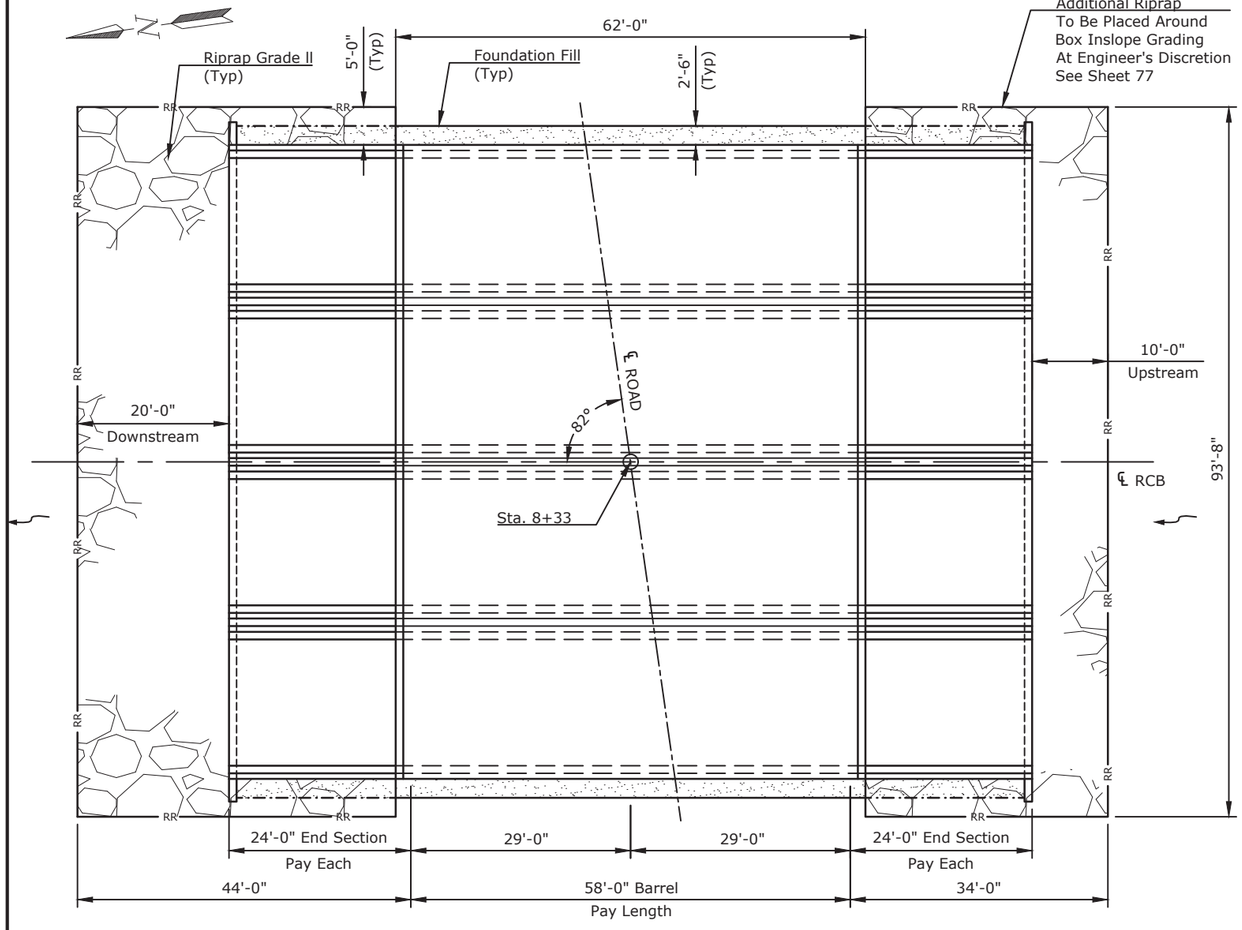
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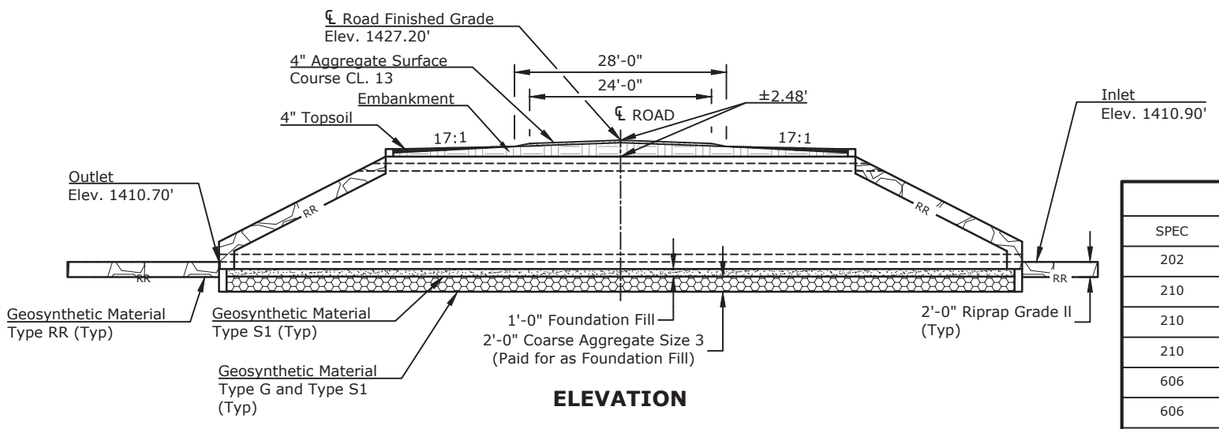
NOTES
SITE 1

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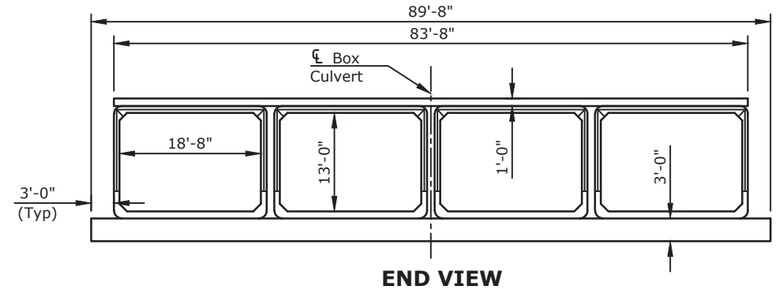
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-0025(055)	170	4



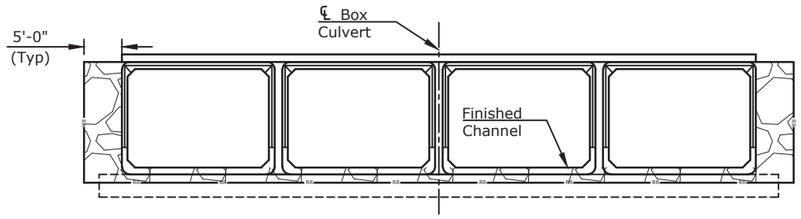
PLAN



ELEVATION



END VIEW
(Showing Dimensions)



END VIEW
(Showing Finished Section)

HYDRAULIC DATA	
DRAINAGE AREA	1,580 sq. miles
STREAM SLOPE	0.00040 ft/ft
DESIGN FREQUENCY	15 year
DESIGN DISCHARGE	3,748 cfs
DESIGN HEADWATER STAGE	1,426.68'
DESIGN TAILWATER STAGE	1,426.29'
DESIGN VELOCITY	4.18 fps
100-YEAR FREQUENCY DISCHARGE	7,559 cfs
100-YEAR FREQUENCY HEADWATER	1,428.82'
OVERTOPPING STAGE	1,427.20'
OVERTOPPING DISCHARGE	4,000 cfs

WOLD ENGINEERING, P.C.

REGISTERED PROFESSIONAL ENGINEER
SETH R. DEMONTIGNY
PE-29083
DATE 09/09/2026
NORTH DAKOTA

Reinforced Concrete Box Culvert Quantities

SPEC	CODE	ITEM DESCRIPTION	UNIT	QUANTITY
202	0109	REMOVAL OF STRUCTURE-SITE 2	L SUM	1
210	0052	BOX CULVERT EXCAVATION - SITE 2	EA	1
210	0210	FOUNDATION FILL	CY	1,085
210	0203	FOUNDATION PREPARATION-SITE 2	EA	1
606	1813	18FT8IN X 13FT PRECAST RCB CULVERT	LF	232
606	5813	18FT8IN X 13FT PRECAST RCB END SECTION	EA	8
709	0100	GEOSYNTHETIC MATERIAL TYPE G	SY	1,044
709	0161	GEOSYNTHETIC MATERIAL TYPE S1	SY	2,136

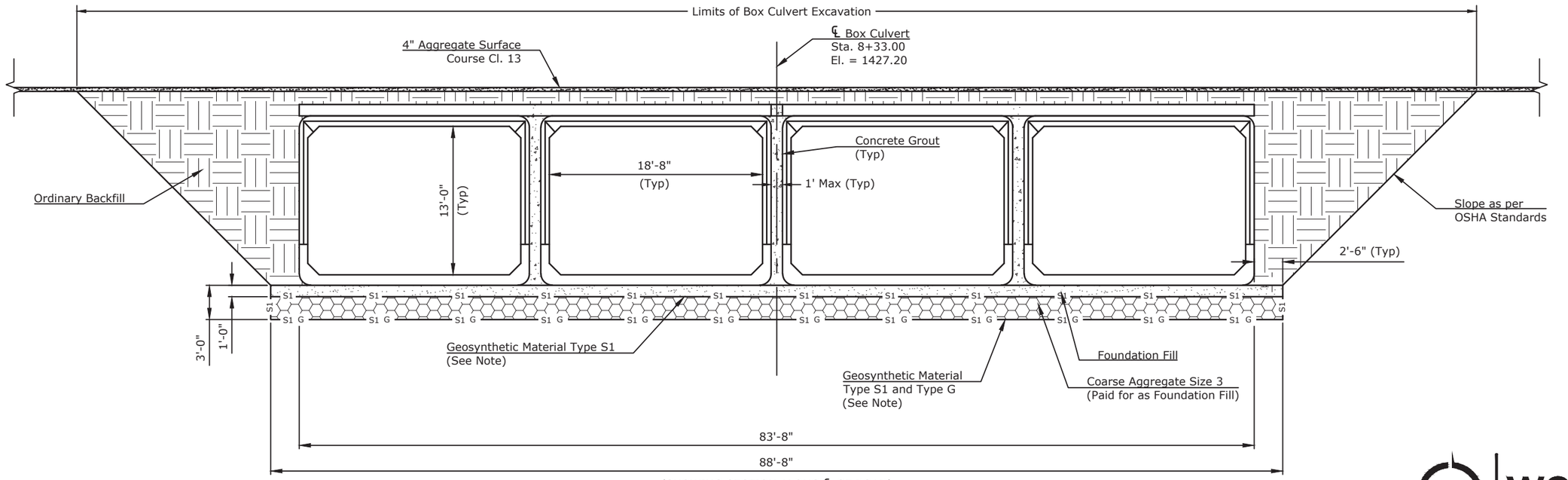
PRECAST CONCRETE BOX LAYOUT
SITE 2
STA. 8+33
STR #25-113-02.1

FILE: BRZ-0025(052)_Design.dwg

0 10 20 30
SCALE IN FEET

23 U.S.C. 407
NDDOT Reserves All Objections

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-0025(055)	170	5

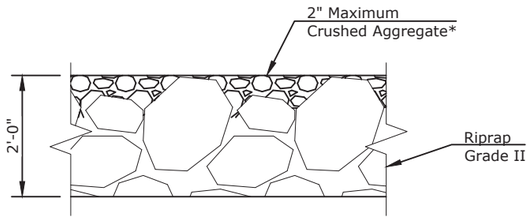


(SHOWING SECTION ALONG ℄ OF ROAD)

BOX CULVERT EXCAVATION & BACKFILL DETAIL

NOTE:

Geo fabric will extend to the cutoff wall.



RIPRAP INFILL DETAIL

***Note:**

Place 2" aggregate on top of riprap to create a walking surface for safer access to the box culvert barrels. Do not place 2" aggregate on inslopes of end sections. The 2" aggregate will be paid for as foundation fill. Foundation fill bid item increased 40CY to account for 2" max crushed aggregate.

WOLD ENGINEERING, P.C. SINCE 1955

REGISTERED PROFESSIONAL ENGINEER
SETH R. DEMONTIGNY
PE-29083
DATE 09/09/2026
NORTH DAKOTA

EXCAVATION AND BACKFILL DETAILS - SITE 2
STA. 8+33.00
STR #25-113-02.1

23 U.S.C. 407
NDDOT Reserves All Objections

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-0025(055)	170	6

NOTES

100-P01 SCOPE OF WORK: The project consists of removing existing structure number 25-113-02.0 and installing a quad 18-foot-8-inch span by 13-foot rise precast concrete box culvert with sloped end sections.

202-P01 REMOVAL OF STRUCTURE-SITE 2: The existing structure is a 62-foot two-span concrete channel beam and timber substructure bridge with a clear roadway width of 24.3-feet and an overall bridge width of 25.9-feet.

Contractor is to deliver salvageable material to the McHenry County Highway Department shop in Upham, ND. Coordinate delivery placement with Darlene Carpenter, McHenry County Highway Superintendent at 701-537-5724. Include all costs associated with handling and delivering the salvaged material in the structure removal bid items.

All non-salvageable materials become property of the Contractor and will be handled in accordance with Section 107.17 of the Standard Specifications.

Cut off existing piling a minimum of one foot below the proposed foundation fill limits and backfill with foundation fill.

210-P01 FOUNDATION FILL: The quantity for foundation fill was computed as in-place to a depth of 3'-0" below the box culvert; however, this may vary depending on the soil conditions. If a suitable subgrade exists under the culvert site, the foundation fill may be reduced or eliminated at the direction of the Engineer. The bottom 2'-0" of the box culvert excavation will consist of coarse aggregate size 3, meeting the gradation in Table 802-03 of the Standard Specifications, and will be paid for as "FOUNDATION FILL." The coarse aggregate material will be accepted by Engineer's Statement with no testing required unless deemed necessary by the Engineer. The remaining foundation fill will be as specified in Section 210 of the Standard Specifications and will be paid for as "FOUNDATION FILL". Place foundation fill in layers of not more than 12", moisten or dry as required, and compact according to Section 203.04 G.3 of the Standard Specifications with exception of using smooth drum or plate compacting equipment. The final pay quantity will be based on in-place plan dimensions, and the Contractor will be responsible for extra material due to shrinkage.

210-P02 BOX CULVERT EXCAVATION – SITE 2: Include all box culvert excavation, foundation fill excavation, channel excavation, riprap excavation, topsoil removal and replacement, placement of ordinary backfill, compaction, water, and shaping of channel slopes in the unit price bid for "BOX CULVERT EXCAVATION – SITE 2".

The suitability of material from on-site excavations for use as ordinary backfill and embankment will be determined by the Engineer. The Contractor will remove and replace approximately 4" of topsoil over the excavation and embankment areas, except the 28' roadbed. Place and compact backfill in accordance with Section 203.04 G.3 of the Standard Specifications. Water may be required to compact the backfill and will be incidental. Embankment constructed from excavated material will not be measured for separate payment but will be included in the price bid for "BOX CULVERT EXCAVATION – SITE 2". If the excavated material is deemed not suitable for ordinary backfill or embankment, it will become property of the Contractor and will be disposed of outside of the road right-of-way, not adjacent to the construction site, and at a site approved by the Engineer. Include all costs associated with excavation, hauling, depositing and leveling the waste material in the unit price bid for "BOX CULVERT EXCAVATION – SITE 2".

256-P01 RIPRAP GRADE II: Final pay quantity for "RIPRAP GRADE II" will be determined by field measurements in accordance with plan length, width, and depth.

606-P01 PRECAST RCB CULVERT
Dimensions:

Single 18ft.8in. span x 13 ft. rise sections.

Fill: 0ft. to 5ft.

Design Load: HL-93

Tie Bolts: All sections will be tied together with a minimum of 2 tie bolts per outside wall. Place the tie bolts at third points of the outside walls. Include cost of ties in the price bid for "18FT8IN X 13FT PRECAST RCB CULVERT". An alternate tie system using pre-cast tubes and an internal cable tie will be allowed, but subject to review of work drawings.

End Sections: Cast holes at 3' centers through the floor of the last barrel section and into the cutoff wall to receive ¾" diameter reinforcing bars. Cast holes in the roof of the last barrel section at 1'-0" centers for ½" diameter reinforcing bars to attach the parapet. Cast the parapet against the section. Install the bars according to the Manufacturer's recommendation with a high-strength adhesive specifically intended for concrete anchorage in accordance with Section 806.06 of the NDDOT Standard Specifications.

The "18FT8IN X 13FT PRECAST RCB END SECTION" bid item will consist of the cutoff wall, parapet, and sloped end sections.

Joints: Provide watertight joints on the floor, on the exterior walls, and roof using a preformed mastic meeting ASTM C 990. Cover all joints with a minimum of 12 inches wide waterproof membrane on the exterior walls and roof. Prepare the walls and roof exterior surface of the joints according to the waterproof membrane Manufacturer's recommendation. Roll the membrane to the surface keeping it free of wrinkles and bubbles. Lap waterproof membrane joints a minimum of 2.5 inches. Seal the joints and exposed edges with a joint sealing mastic recommended by the Manufacturer of the membrane.

Lifting Holes: Plug all lifting holes on the roof and walls with popits and cover with a minimum of 9-inch by 9-inch waterproof membrane squares. Prepare the walls and roof exterior surface of the lifting holes according to the waterproof membrane Manufacturer's recommendations. Roll the membrane to the surface keeping it free of wrinkles and bubbles. Grout all lifting holes in the floor and walls of the end sections with an approved non-shrink grout.

RCB Spacing:
The Contractor will place grout with the following mix design between box culvert sections:

MIX DESIGN	
3/4" minus Rock	800 lbs
Sand	2,300 lbs
Fly Ash	100 lbs
Cement	560 lbs
Air	5%
Slump	5" to 6"

The grout will be fluid on placement to flow around and fill voids in the backfill area. Include price of grout in price bid for precast units.

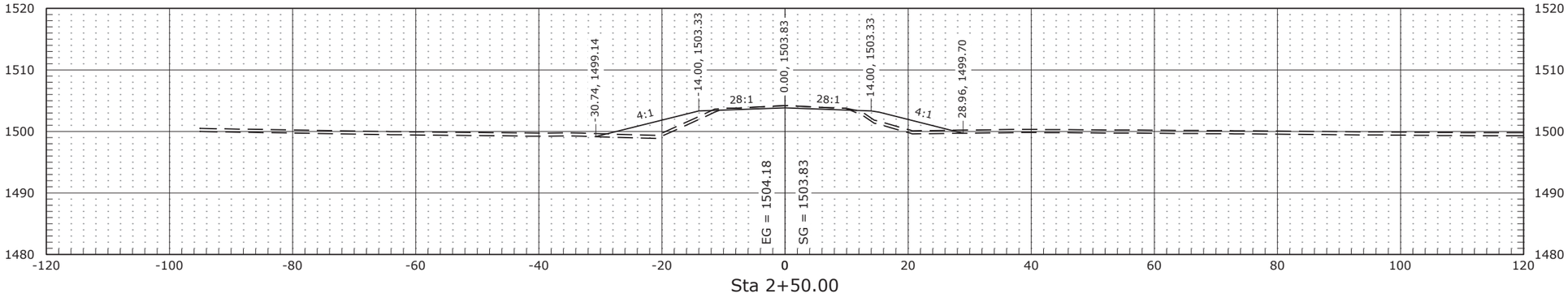
WOLD ENGINEERING, P.C. SINCE 1955

REGISTERED PROFESSIONAL ENGINEER
SETH R. DEMONTIGNY
PE-29083
DATE 09/09/2026
NORTH DAKOTA

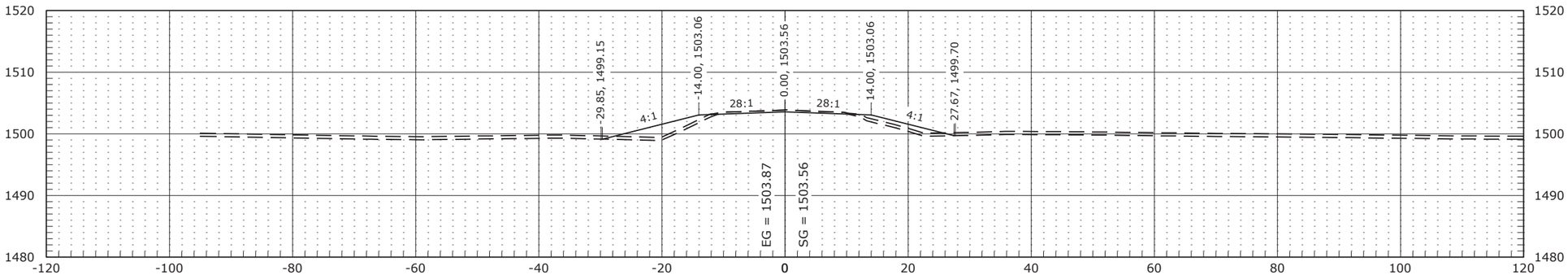
NOTES
SITE 2

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-2500(023)	200	1

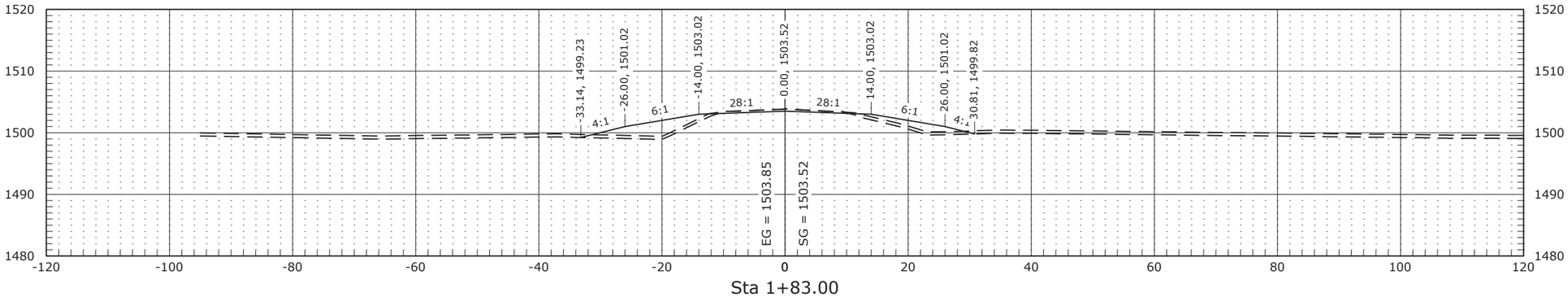
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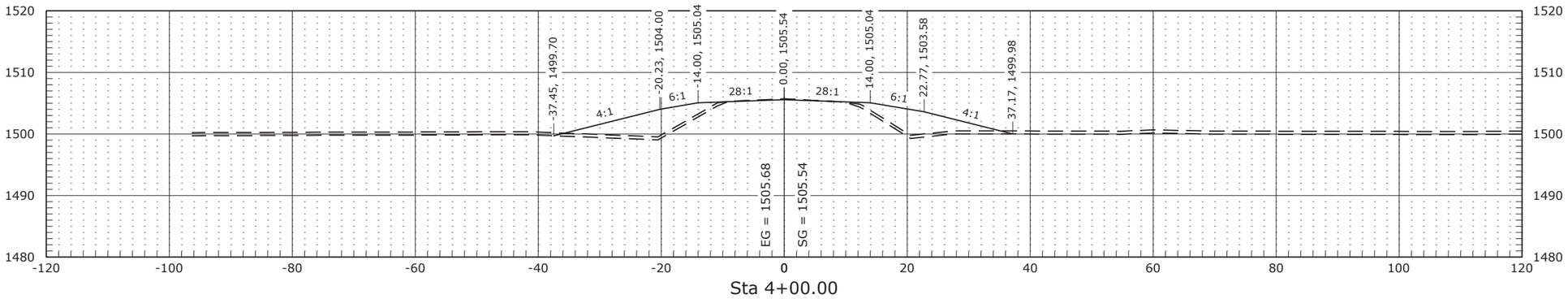
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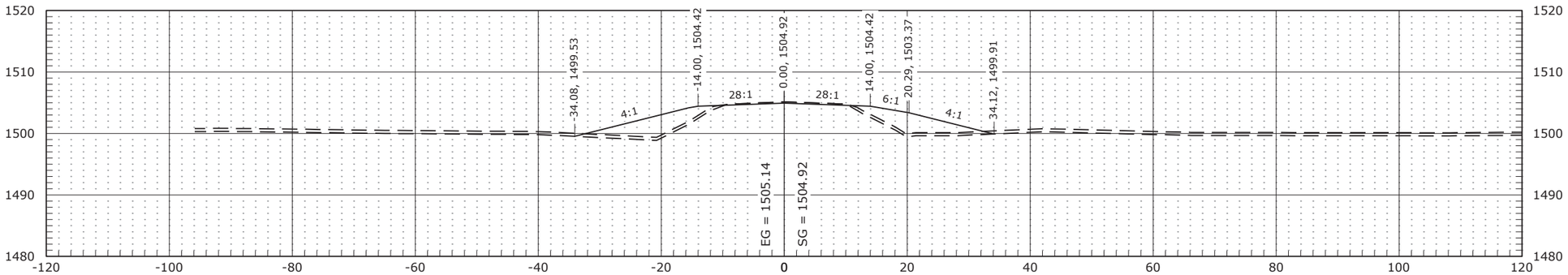
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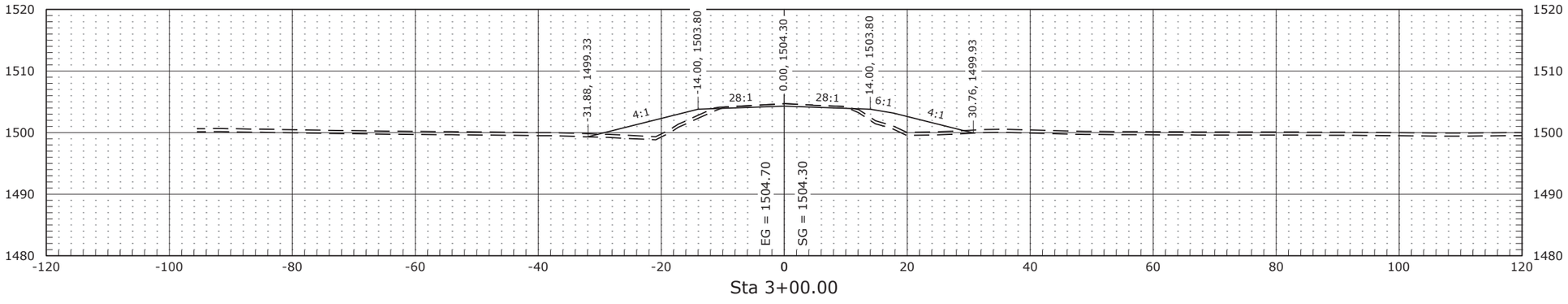
SITE 1



Sta 4+00.00



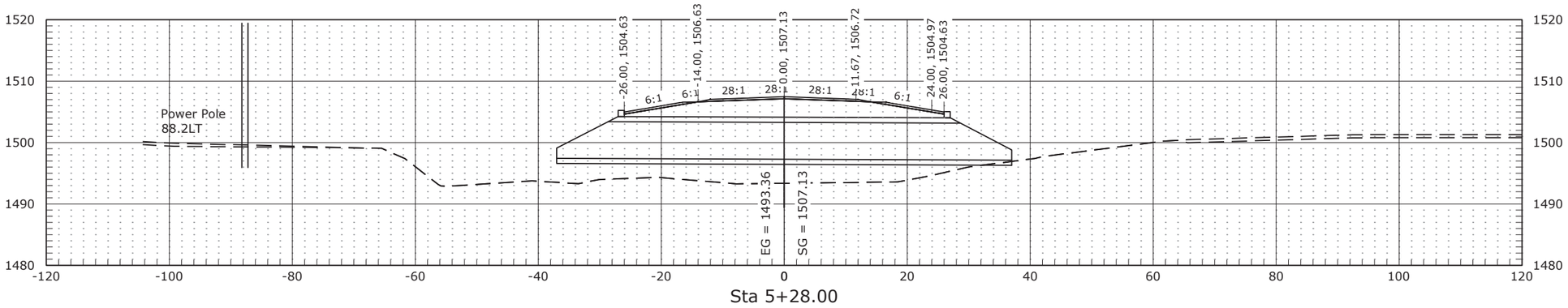
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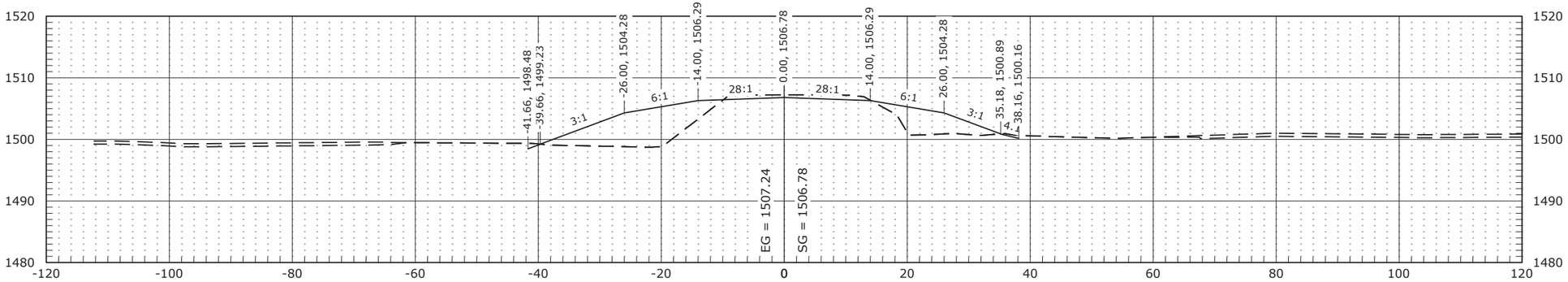
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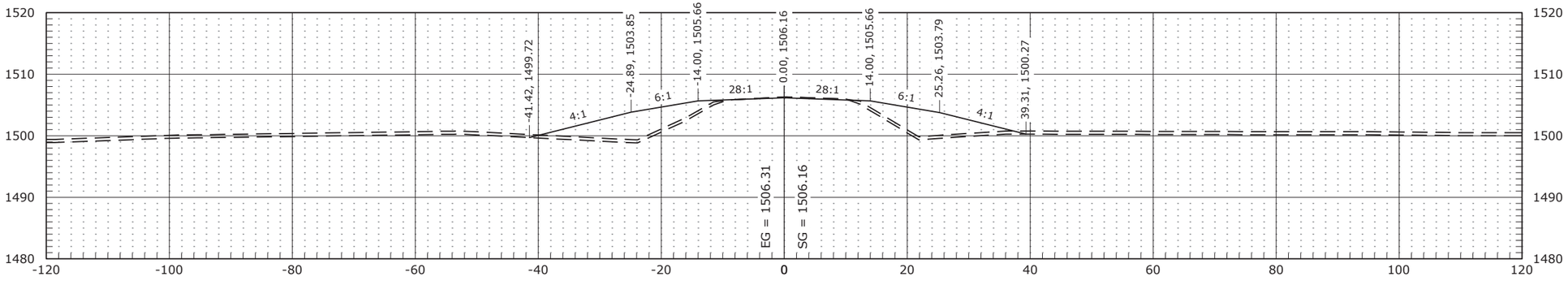
SITE 1



Sta 5+28.00



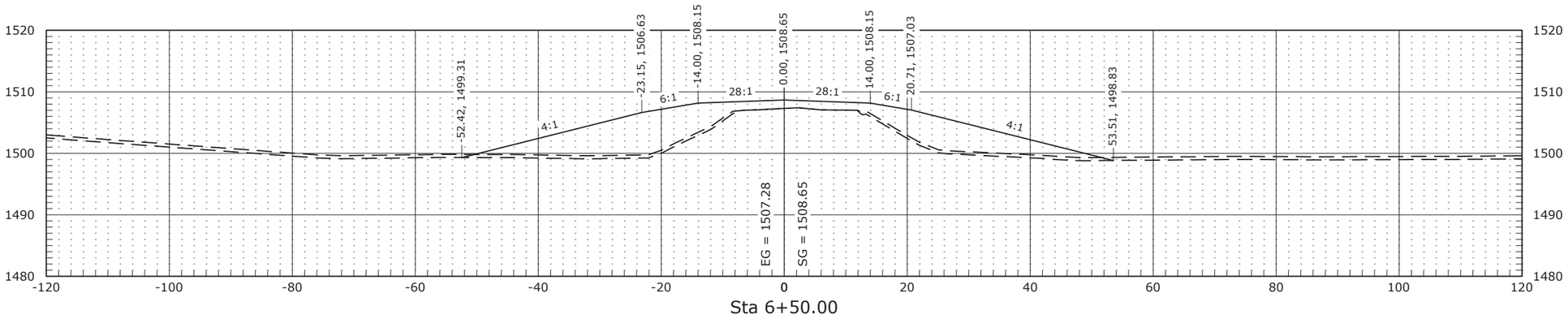
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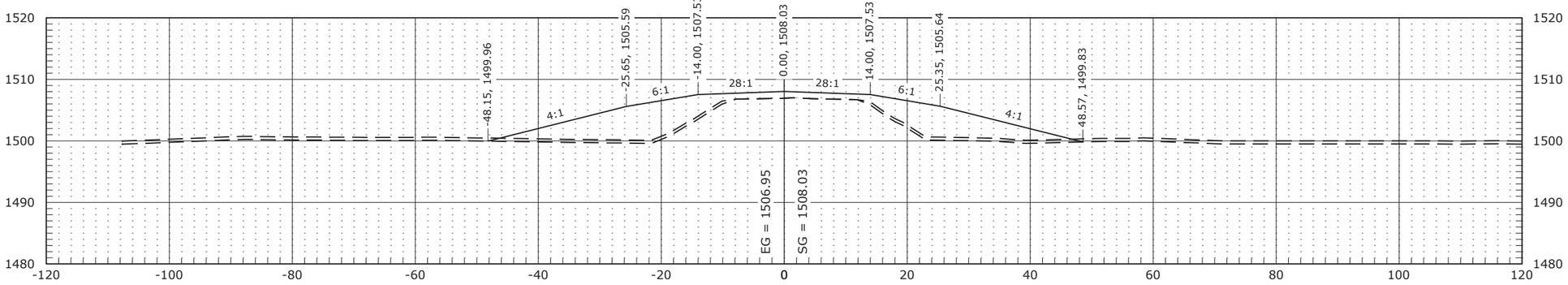
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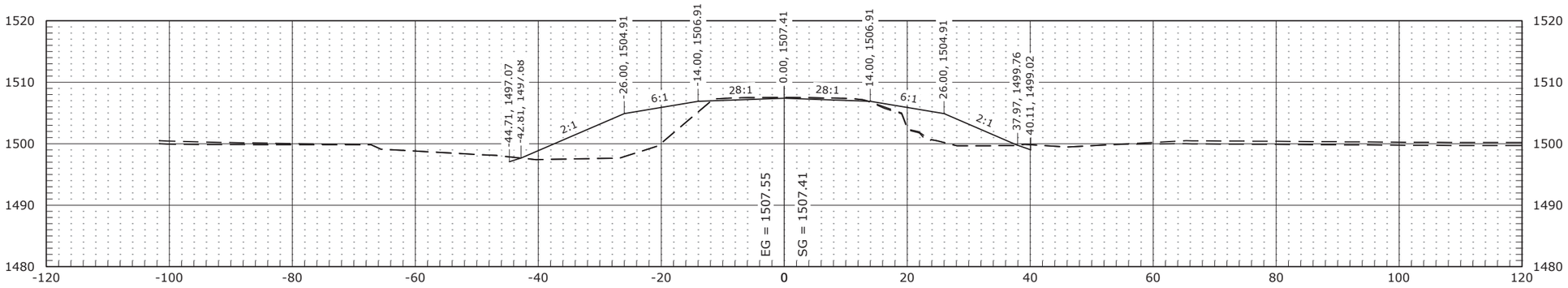
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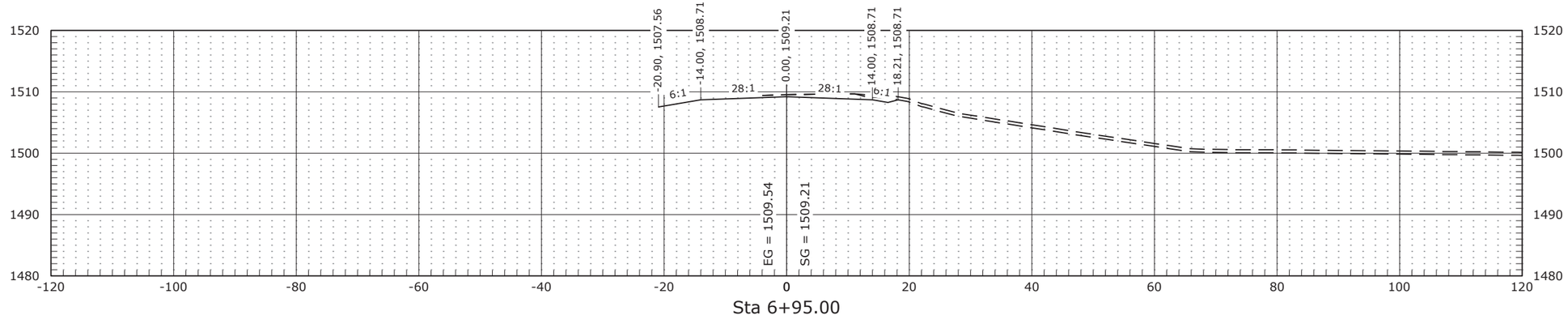
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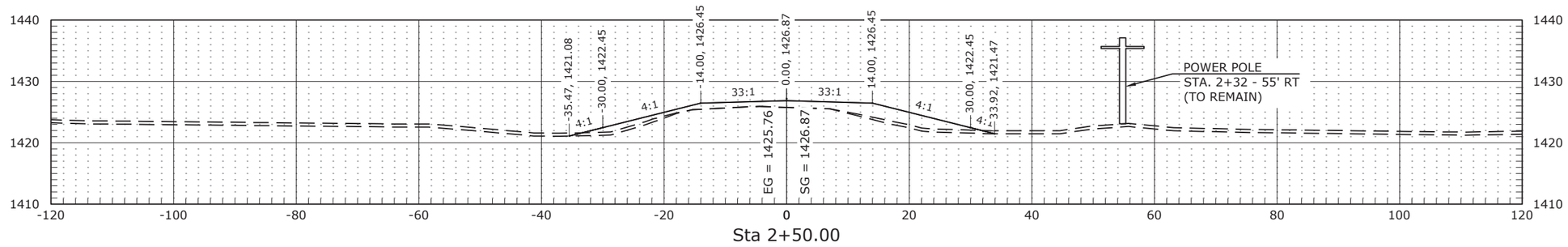
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SITE 1

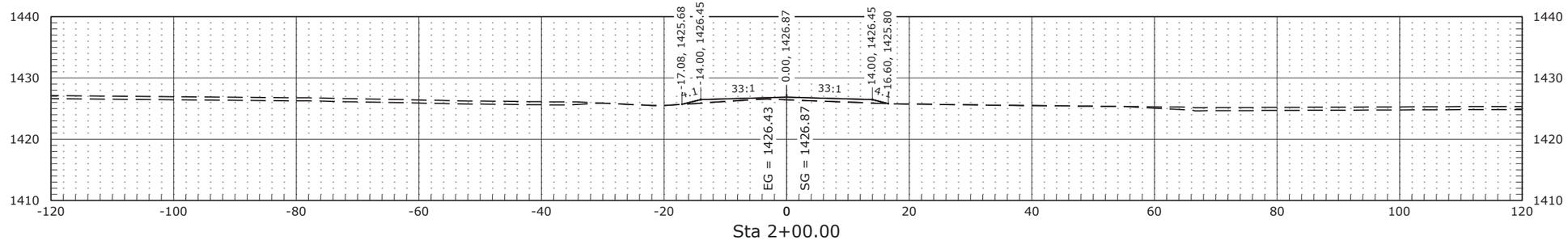


STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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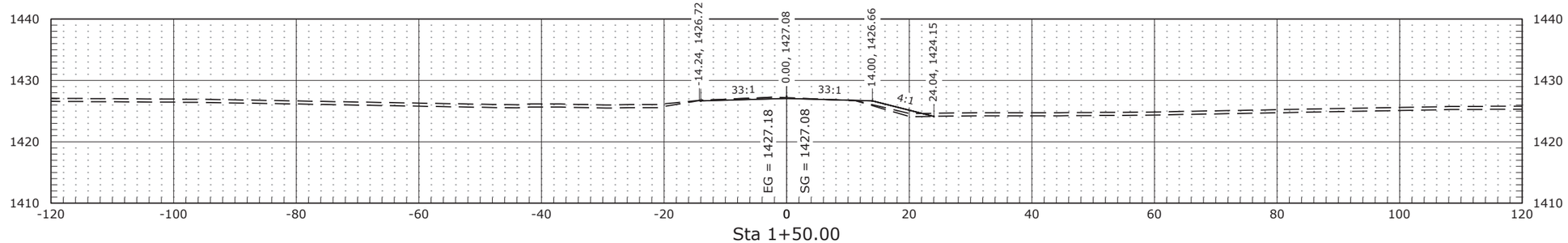
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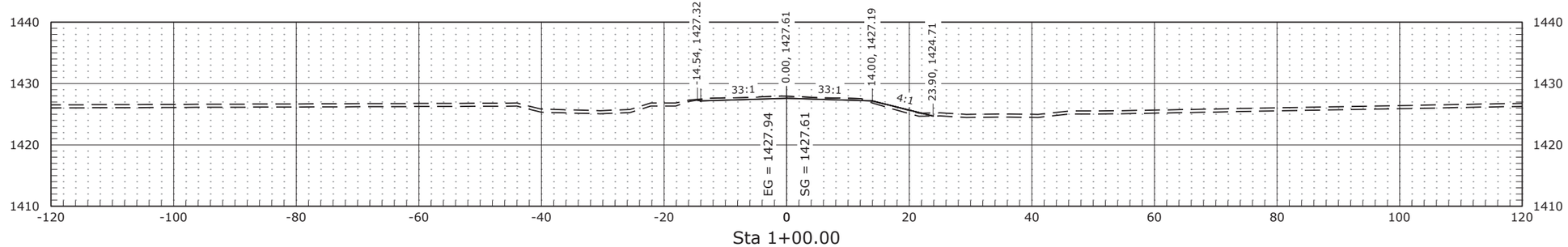
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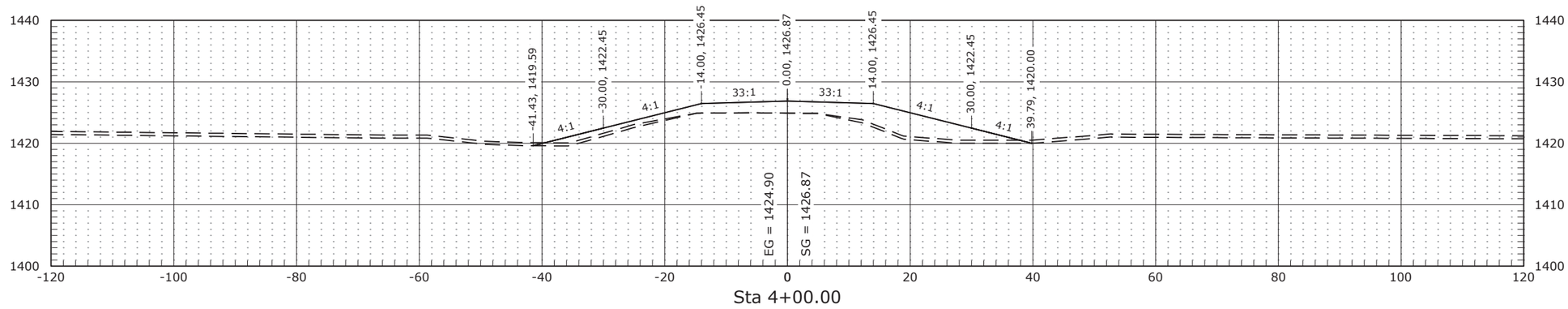
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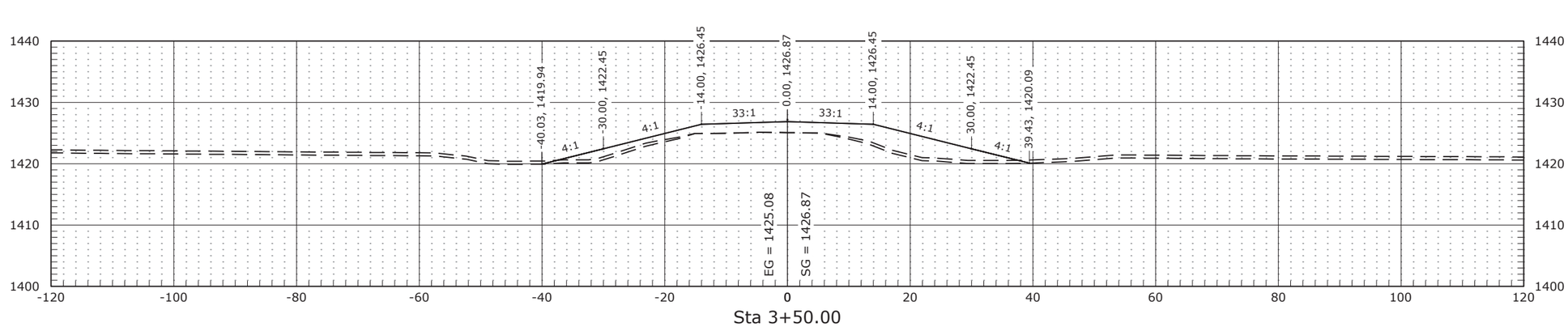
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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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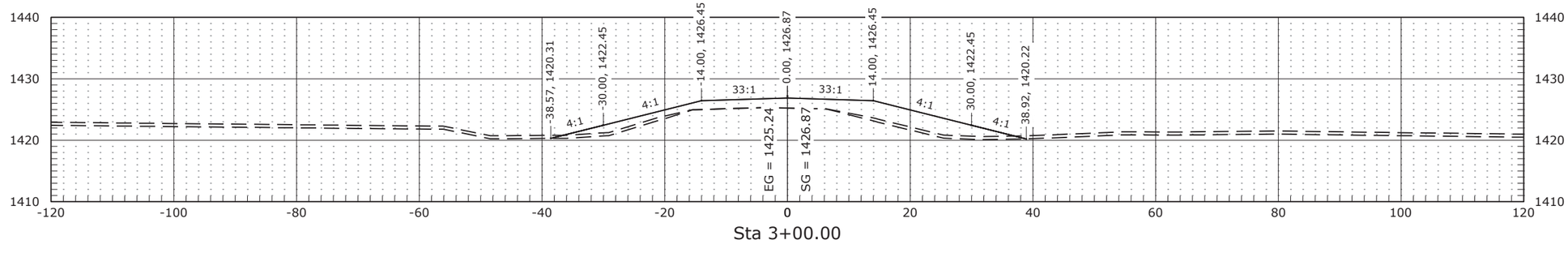
SITE 2



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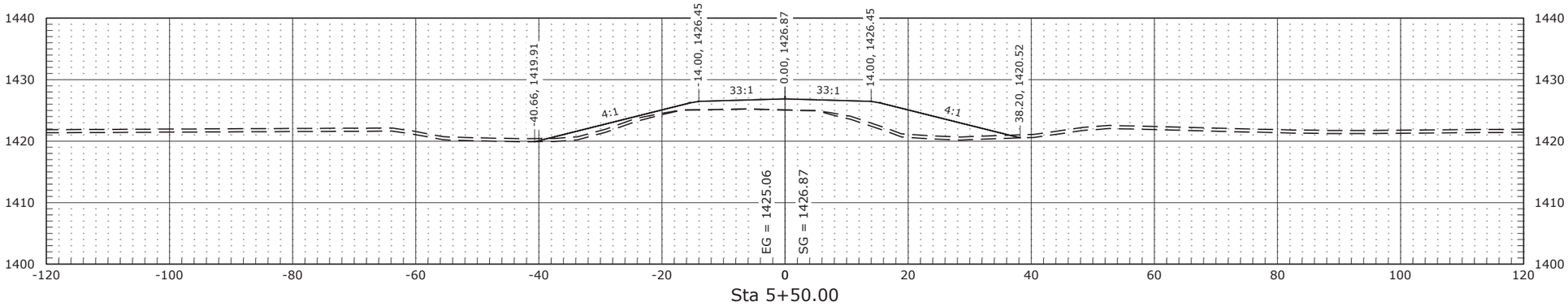
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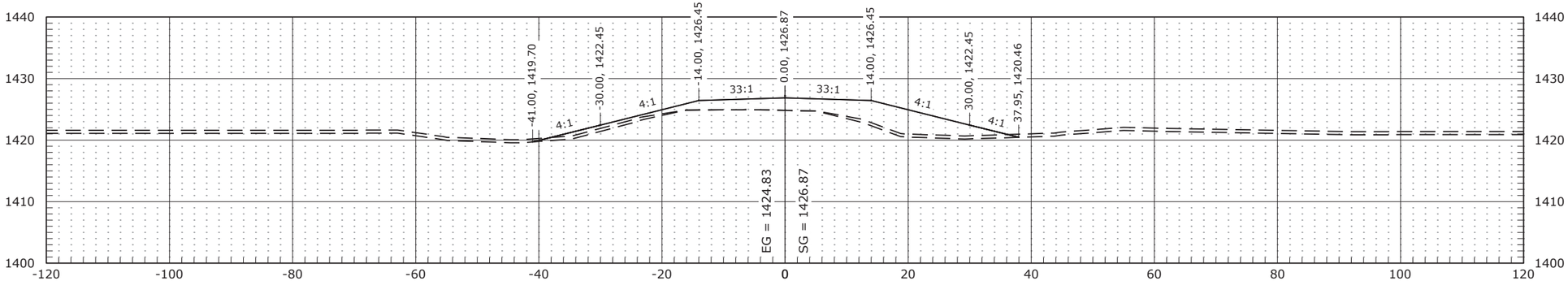
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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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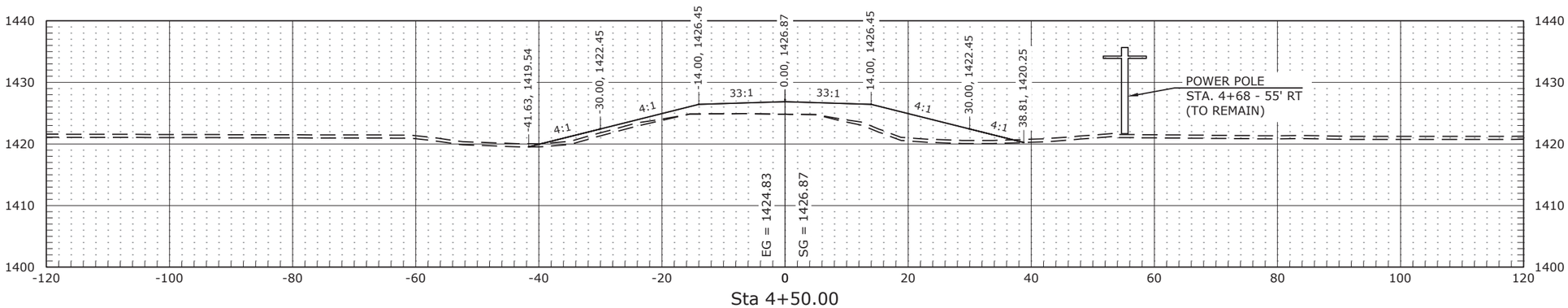
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Sta 5+50.00



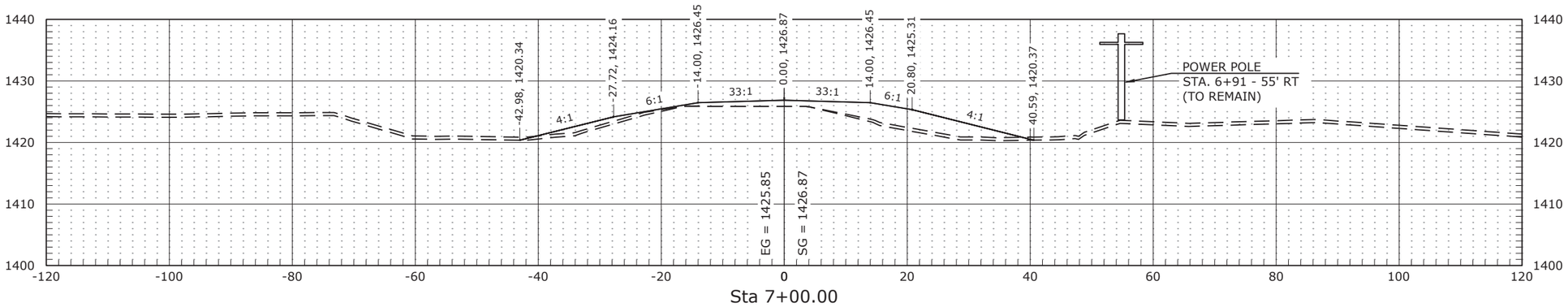
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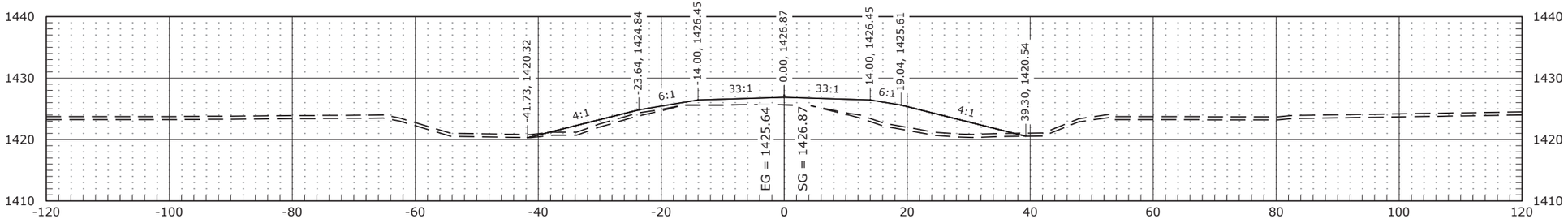
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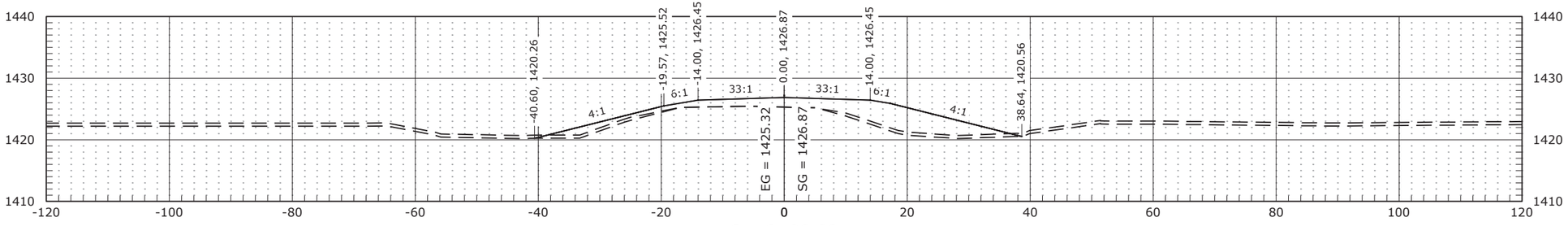
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Sta 7+00.00



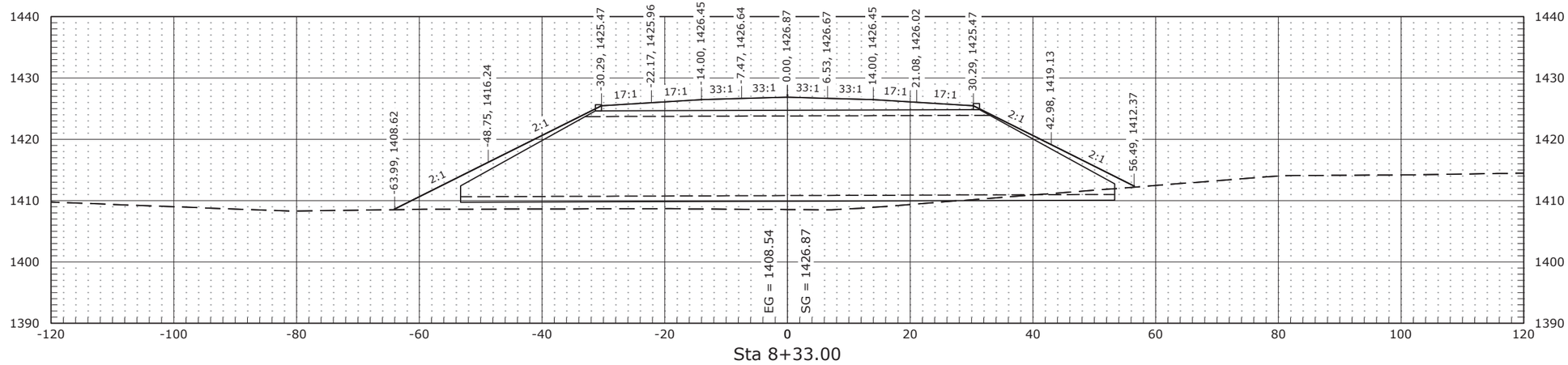
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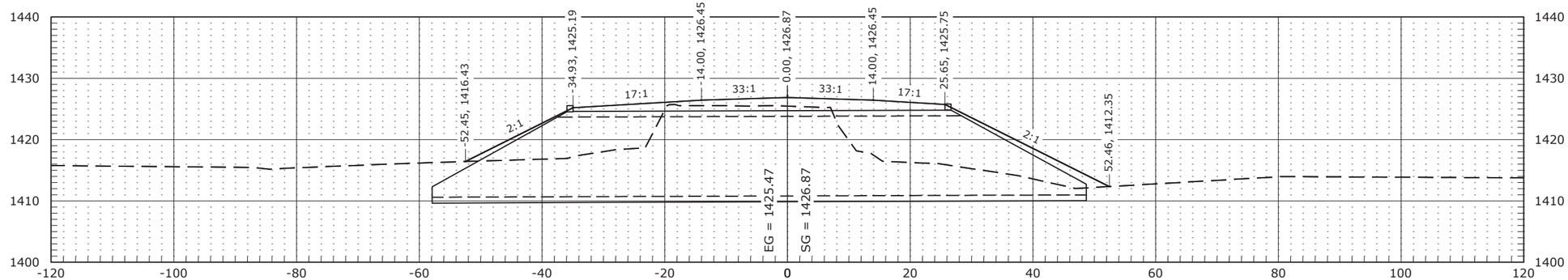
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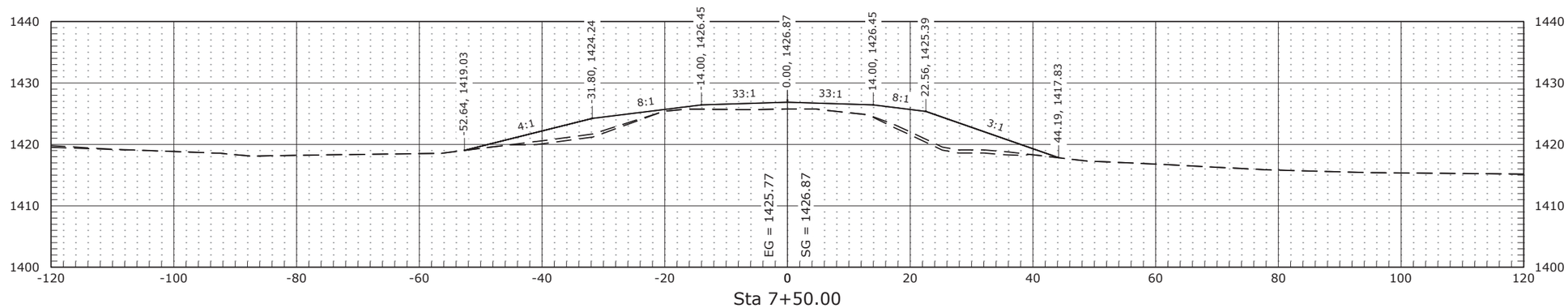
SITE 2



Sta 8+33.00



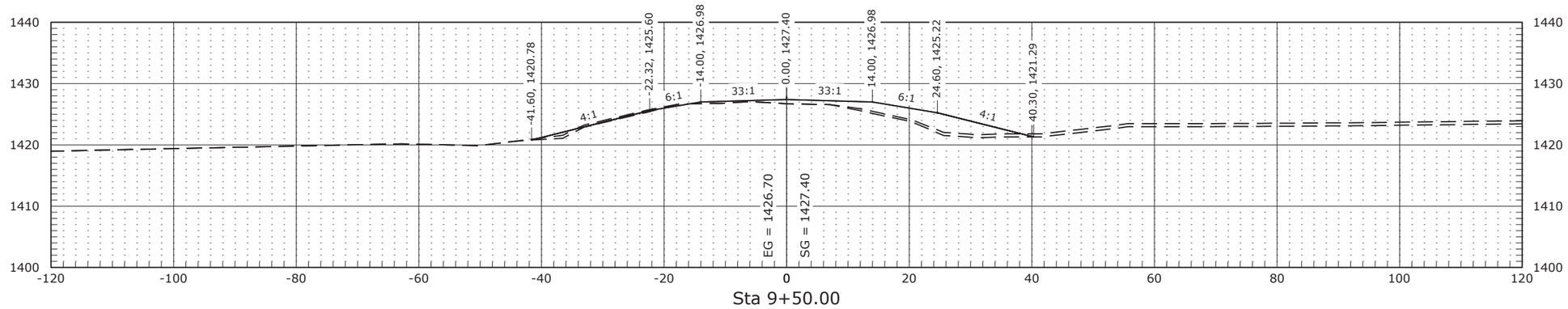
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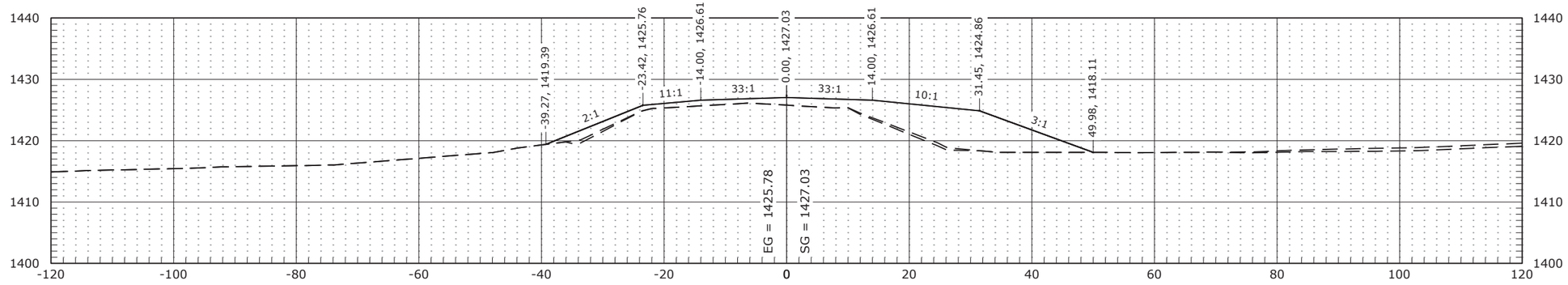
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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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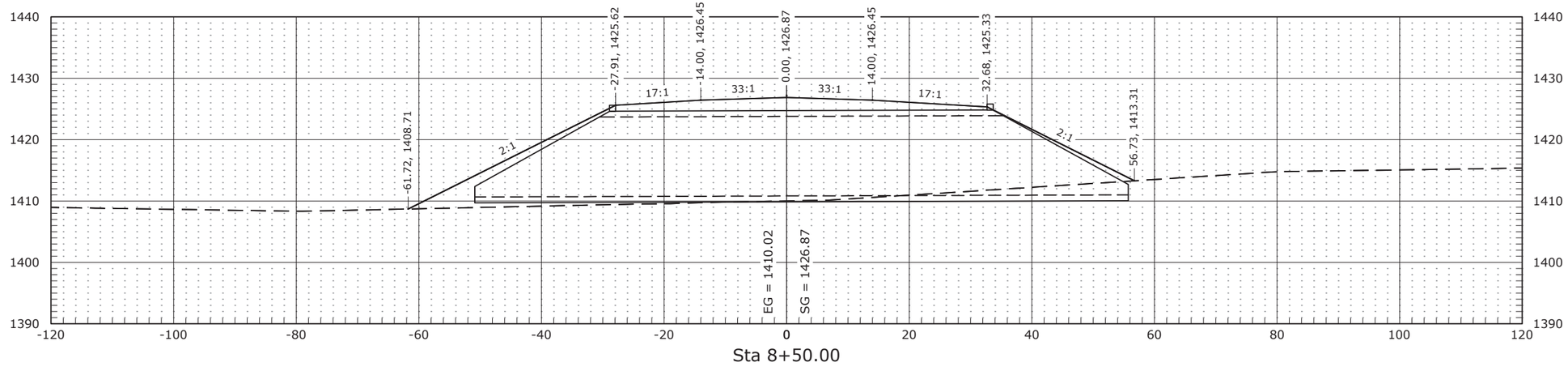
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Sta 9+50.00



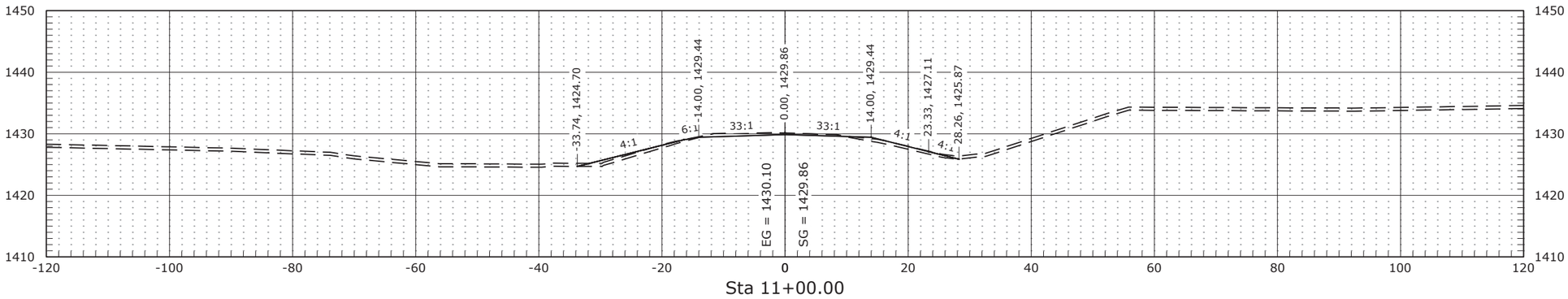
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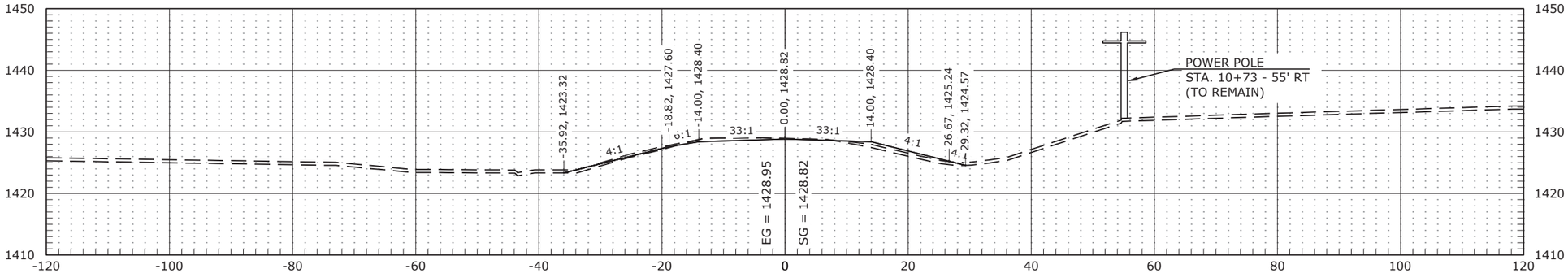
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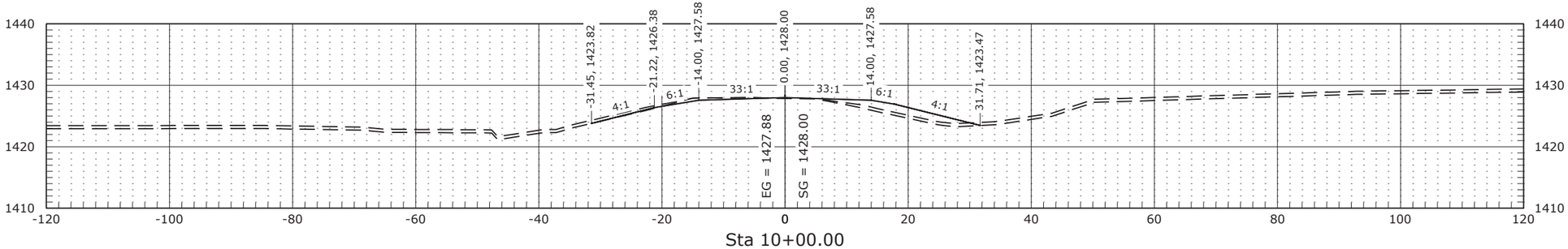
SITE 2



Sta 11+00.00



Sta 10+50.00



Sta 10+00.00