

STATE OF NORTH DAKOTA
SHOWING COUNTIES

PEMBINA COUNTY, NORTH DAKOTA PLANS FOR FEDERAL AID PROJECT CERP-3411(064) SLOPE STABILIZATION

Pembina County Highway 12 (CMC 3411)
Inslope Flattening, Concrete Erosion Control Blanket and Incidentals

The project is located along Pembina County Highway 12 in Leroy, ND

STATE	PROJECT NO.	PCN	SECTION NO.	SHEET NO.
ND	CERP-3411(064)	24087	1	1

GOVERNING SPECIFICATIONS

Date Published and Adopted
by the North Dakota
Department of Transportation

Standard Specifications

7/1/2024

Supplemental Specifications

NONE

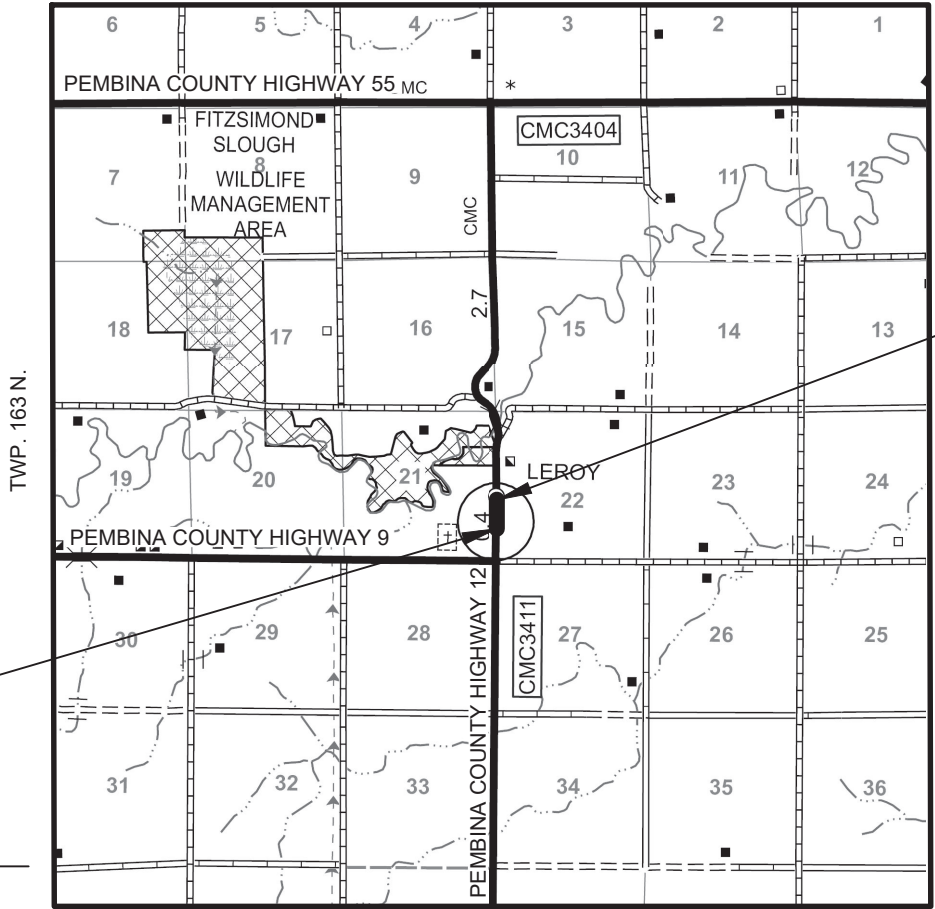
PROJECT LENGTH

PROJECT	GROSS MILES	NET MILES
CERP-3411(064)	0.033	0.033

DESIGN DATA

TRAFFIC		AVERAGE DAILY			EST. 30th MAX. HR.
		PASSENGER	TRUCKS	TOTAL	
CURRENT TRAFFIC	2025	300	20	320	32
TRAFFIC FORECAST	2045	330	22	350	35

DESIGN SPEED 25 MPH
MINIMUM SIGHT DISTANCE (STOPPING) 155 FEET
DESIGN LOADS FOR STRUCTURE: HL-93



BEGIN PROJECT
STA. 11+50 = A POINT
APPROXIMATELY 1505
FEET NORTH AND 49
FEET WEST OF THE
NORTHWEST CORNER
OF SEC. 27, TWP. 163 N.,
RGE. 55 W.

END PROJECT
STA. 13+25 = A POINT
APPROXIMATELY 1680
FEET NORTH AND 53
FEET WEST OF THE
NORTHWEST CORNER
OF SEC. 27, TWP. 163
N., RGE. 55 W.

DESIGNER Charlie Thompson
DESIGNER Samantha Schoepfer, PE
DESIGNER -
DESIGNER -
DESIGNER -

PS&E Correction Made

April - May 2025

Surveyed & Designed Date

October 2024 - April 2025



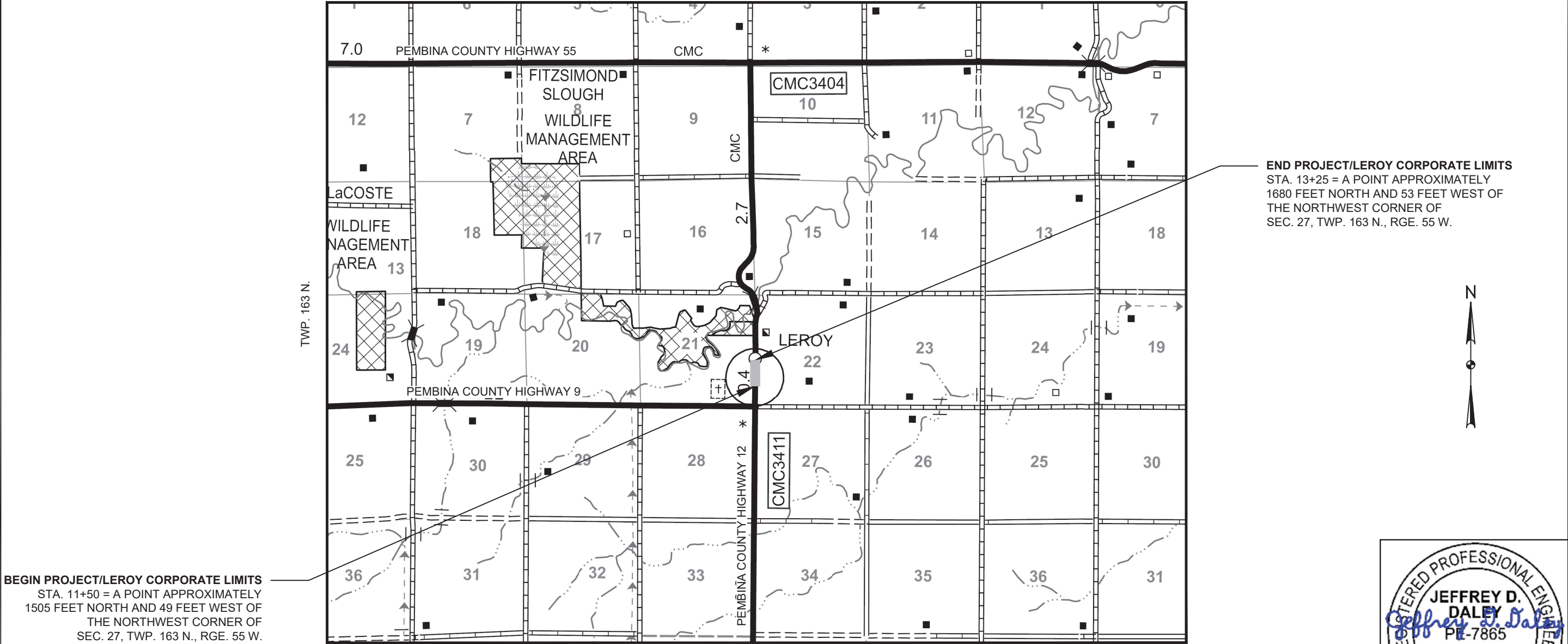
864 WEST 12TH ST
GRAFTON, ND 58237-2120
(701) 352-1555, FAX (855) 288-8055

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SP 545(24)	Concrete Erosion Control Blanket								
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INSLOPE FLATTENING, CONCRETE EROSION CONTROL BLANKET, AND INCIDENTALS



BEGIN PROJECT/LEROY CORPORATE LIMITS
STA. 11+50 = A POINT APPROXIMATELY
1505 FEET NORTH AND 49 FEET WEST OF
THE NORTHWEST CORNER OF
SEC. 27, TWP. 163 N., RGE. 55 W.

END PROJECT/LEROY CORPORATE LIMITS
STA. 13+25 = A POINT APPROXIMATELY
1680 FEET NORTH AND 53 FEET WEST OF
THE NORTHWEST CORNER OF
SEC. 27, TWP. 163 N., RGE. 55 W.



CERP-3411(064) PEMBINA COUNTY, NORTH DAKOTA PEMBINA COUNTY HIGHWAY 12		
SCOPE OF WORK		
DRWN. BY CWT	CHKD BY JDD	PROJECT NO. 2302-01707

PLAN NOTES

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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- 100-P01

COORDINATION: This project is tied to Project No. CERP-3404(060) PCN 24088 in Pembina County.
- 100-P02

UTILITIES: Utilities that the Engineer has been made aware of are shown in the plans. Other utilities may exist that are not shown. The horizontal utility locations shown in the plans and specifications are approximate. Plan locations should not be interpreted as exact for bidding or construction purposes. All utilities are to be protected in place.
- 100-P03

EROSION CONTROL: Bid items Silt Fence and Fiber Rolls are included for use in conjunction with the Contractor's SWPPP. These quantities may be eliminated depending on the Contractor's operation. An estimated quantity has been set up for each item.
- 203-010

SHRINKAGE: 35 percent additional volume is included for shrinkage in earth embankment.
- 203-P01

TOPSOIL: The quantity of topsoil to be removed, salvaged, and respread is based upon an assumed existing depth of 6 inches. Make arrangements for topsoil storage areas if sufficient room is not available within the right of way. No payment will be made for additional handling of topsoil that must be moved to provide additional excavation area between the proposed grading limits and the right of way. Re-spread topsoil evenly over the areas to be seeded. The bid item "TOPSOIL" includes all labor, materials, and equipment associated with stripping, stockpiling, and resspreading the existing topsoil. "TOPSOIL" will be paid at plan quantity.
- 251-P01

SEEDING & MULCHING: Cover all disturbed areas of the right of way, except the roadbed with Seeding CI II and Straw Mulch.
- 255-P01

CONCRETE EROSION CONTROL BLANKET: The overhead power pole at Sta. 12+70 and the culverts at Sta. 11+87, 12+02, and 12+18 shall remain in place. Geosynthetic Material Type RR and Concrete Erosion Control Blanket shall be installed to fit around the overhead power pole and the culverts.
- 411-P01

MILLING PAVEMENT SURFACE: Mill the existing roadway surface (See Milling Typical Section in Section 30, Sheet 1).

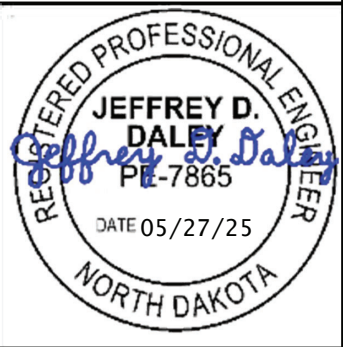
Payment for milling is based on a 12-foot driving lane shown on the typical sections. Sloughs, if present, will not be measured for payment but will be incidental to the respective bid item for milling.

The excess milled material will remain the property of the Owner, Pembina County. "MILLING PAVEMENT SURFACE" includes all labor, material and equipment required to mill, haul, and stockpile the millings at the Pembina County shop, located in Cavalier, ND. Coordinate delivery with the Pembina County Highway Department. The contact is Devin Johnson, (701)-520-4373.
- 430-P01


COMMERCIAL GRADE HOT MIX ASPHALT: Any costs associated with providing the mix design shall be included in the price bid for "COMMERCIAL GRADE HOT MIX ASPHALT".
- 430-P02

COMPACTION: Ordinary Compaction, as specified in NDDOT Standard Specification 430.04 I.3, will be used for all hot mix asphalt.
- 704-P01

TRAFFIC CONTROL: Use the construction signing layout on Section 100, Sheet 2 for the lane closure of Pembina County Highway 12.



CERP-3411(064)
PEMBINA COUNTY, NORTH DAKOTA
PEMBINA COUNTY HIGHWAY 12



PLAN NOTES

DRWN. BY
CWT

CHKD. BY
JDD

PROJECT NO.
2302-01707

ENVIRONMENTAL NOTES

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	CERP-3411(064)	6	2

ENVIRONMENTAL NOTES (EN): Pembina 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 requirements to comply with these commitments:

EN-1 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, Ben 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).

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

EN-3 TREE REMOVAL: The project is located within suitable habitat (forested/wooded areas/bridges) for the northern long-eared bat. The project will commit to removing trees outside of the northern long-eared bat pup rearing season (June 1 – August 15, inclusive). If any northern long-eared bats are identified within 1 mile of the project, the Contractor will notify the Engineer immediately and cease construction activities in the vicinity until an avoidance area is established. The Engineer will establish an avoidance area that is at least 0.5 mile and immediately coordinate with the USFWS (701-355-8513), FHWA (701-221-9464), and NDDOT Environmental and Transportation Services (701-328-2592). The Contractor will not resume work within the avoidance area until the Engineer has confirmed with the agencies that work may proceed (either the species have left the area, or approved avoidance/minimization measures have been implemented).



CERP-3411(064)
PEMBINA COUNTY, NORTH DAKOTA
PEMBINA COUNTY HIGHWAY 12

ENVIRONMENTAL
NOTES

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JDD

PROJECT NO.
2302-01707

Estimated Quantities

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	CERP-3411(064)	8	1

SPEC	CODE	ITEM DESCRIPTION	UNIT	MAINLINE	TOTAL
103	0100	CONTRACT BOND	L SUM	0.11	0.11
201	0330	CLEARING & GRUBBING	L SUM	1	1
203	0109	TOPSOIL	CY	86	86
203	0140	BORROW-EXCAVATION	CY	95	95
216	0100	WATER	M GAL	1	1
251	0200	SEEDING CLASS II	ACRE	0.1	0.1
251	2000	TEMPORARY COVER CROP	ACRE	0.02	0.02
253	0101	STRAW MULCH	ACRE	0.12	0.12
255	0300	CONCRETE EROSION CONTROL BLANKET	SY	486	486
260	0200	SILT FENCE SUPPORTED	LF	50	50
260	0201	REMOVE SILT FENCE SUPPORTED	LF	50	50
261	0112	FIBER ROLLS 12IN	LF	310	310
261	0113	REMOVE FIBER ROLLS 12IN	LF	155	155
302	0120	AGGREGATE BASE COURSE CL 5	TON	42	42
411	0105	MILLING PAVEMENT SURFACE	SY	233	233
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT	TON	29	29
702	0100	MOBILIZATION	L SUM	0.11	0.11
704	0100	FLAGGING	MHR	20	20
704	1000	TRAFFIC CONTROL SIGNS	UNIT	450	450
704	1052	TYPE III BARRICADE	EA	10	10
704	1060	DELINEATOR DRUMS	EA	10	10
704	1067	TUBULAR MARKERS	EA	30	30
709	0155	GEOSYNTHETIC MATERIAL TYPE RR	SY	486	486
762	0430	SHORT TERM 4IN LINE-TYPE NR	LF	350	350
762	1104	PVMT MK PAINTED 4IN LINE	LF	525	525

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BASIS OF ESTIMATE

Commercial Grade HMA	2.0 Ton/CY
Aggregate Base Course CL 5	1.875 Ton/CY
Seeding & Mulching	All disturbed areas within the right of way and project limits minus hard surfaces.
Water	10 Gal/CY for Embankment

Earthwork Summary						
Earthwork				Topsoil		
Spec and Code		203-0102	203-0140		203-0109	
Location	Embankment ²	Common Excavation-Type B	Borrow Excavation	Topsoil Embankment	Topsoil	Excess Topsoil
	A	B	C = A - B	D	E	F = E - D
PEMBINA COUNTY HIGHWAY 12	95	0	95	17	86	69 ¹


1) Topsoil quantities based on 6" stripping and 6" respreading. Excess topsoil shall become property of the Contractor.
2) Embankment quantities include 35% for shrinkage.

PAVEMENT MARKING

DESCRIPTION	UNIT	QUANTITY PER LOCATION	
4" Yellow No Passing Zone (Solid Line)			
Sta. 11+50 to Sta. 13+25	LT & RT	LF	350
Subtotal		LF	350
Total 4" Yellow Pavement Marking Paint		LF	350
4" White Edge Lines			
Sta. 11+50 to Sta. 13+25	RT	LF	175
Subtoal		LF	175
Total 4" White Pavement Marking Paint		LF	175
Total 4" Pavement Marking Paint		LF	525



CERP-3411(064)
PEMBINA COUNTY, NORTH DAKOTA
PEMBINA COUNTY HIGHWAY 12



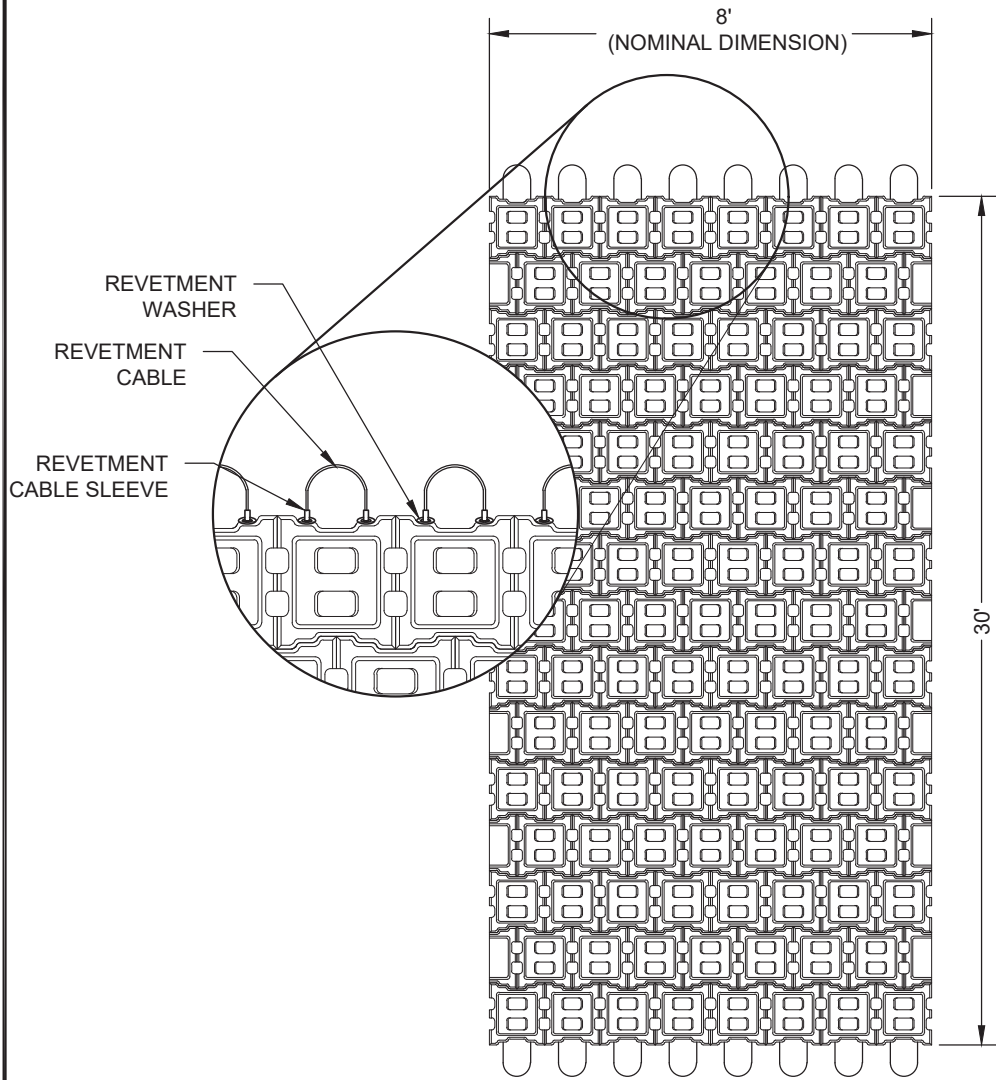
BASIS OF ESTIMATE & EARTHWORK SUMMARY

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CWT

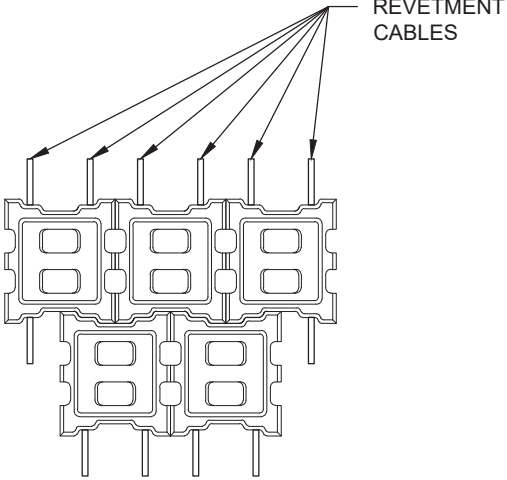
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JDD

PROJECT NO.
2302-01707

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	CERP-3411(064)	20	1

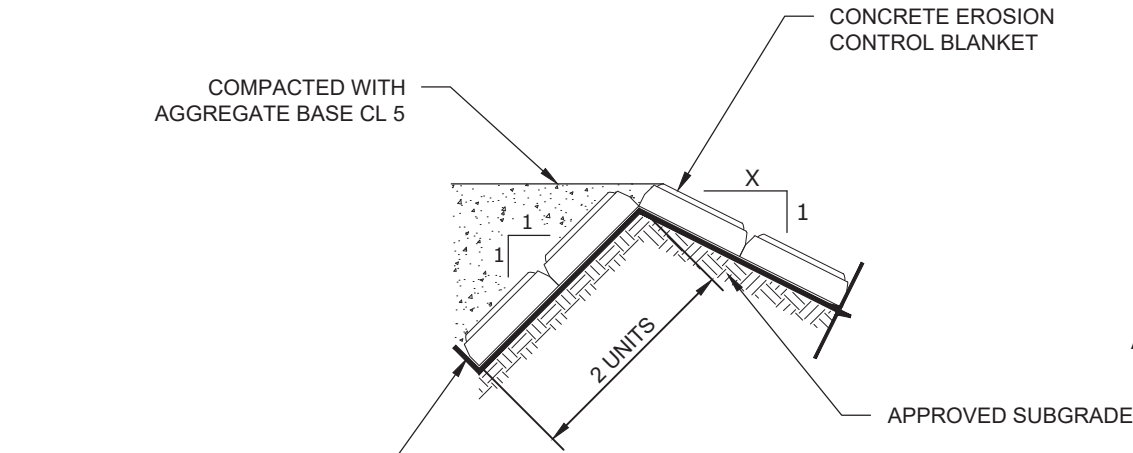


CONCRETE EROSION
CONTROL BLANKET

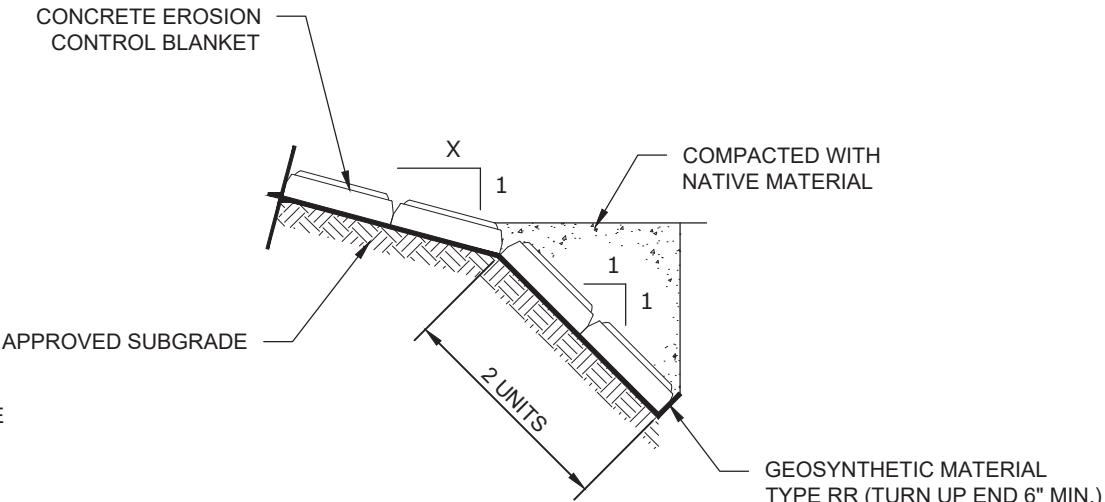


CONCRETE EROSION
CONTROL BLANKET
PLAN VIEW

CONCRETE BLOCK DETAILS




2 BLOCK TOP OF SLOPE TERMINATION

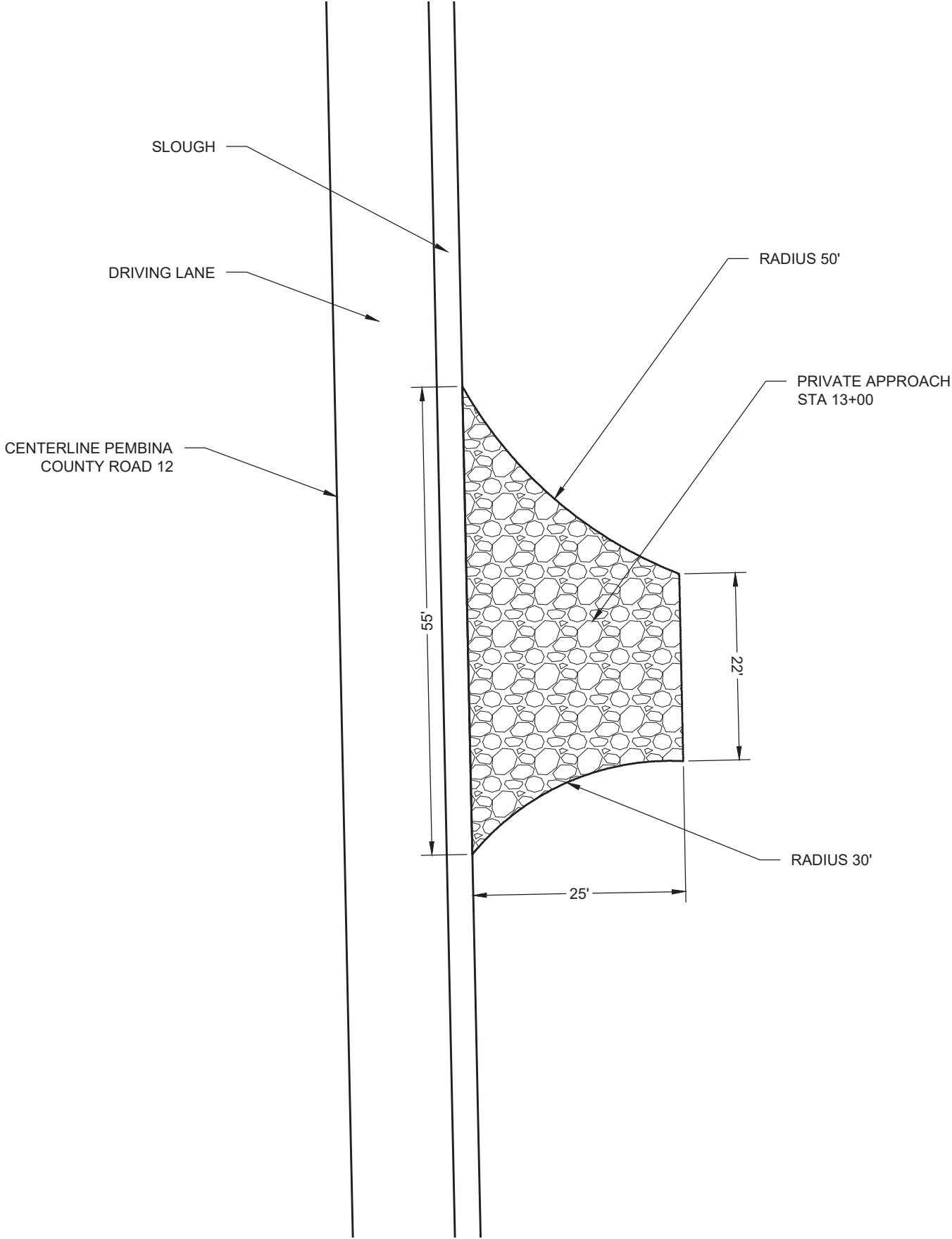


2 BLOCK TOE OF SLOPE TERMINATION



CERP-3411(064) PEMBINA COUNTY, NORTH DAKOTA PEMBINA COUNTY HIGHWAY 12		
		
CONCRETE EROSION CONTROL BLANKET DETAILS	DRWN. BY CWT	CHKD BY JDD
	PROJECT NO. 2302-01707	

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	CERP-3411(064)	20	2

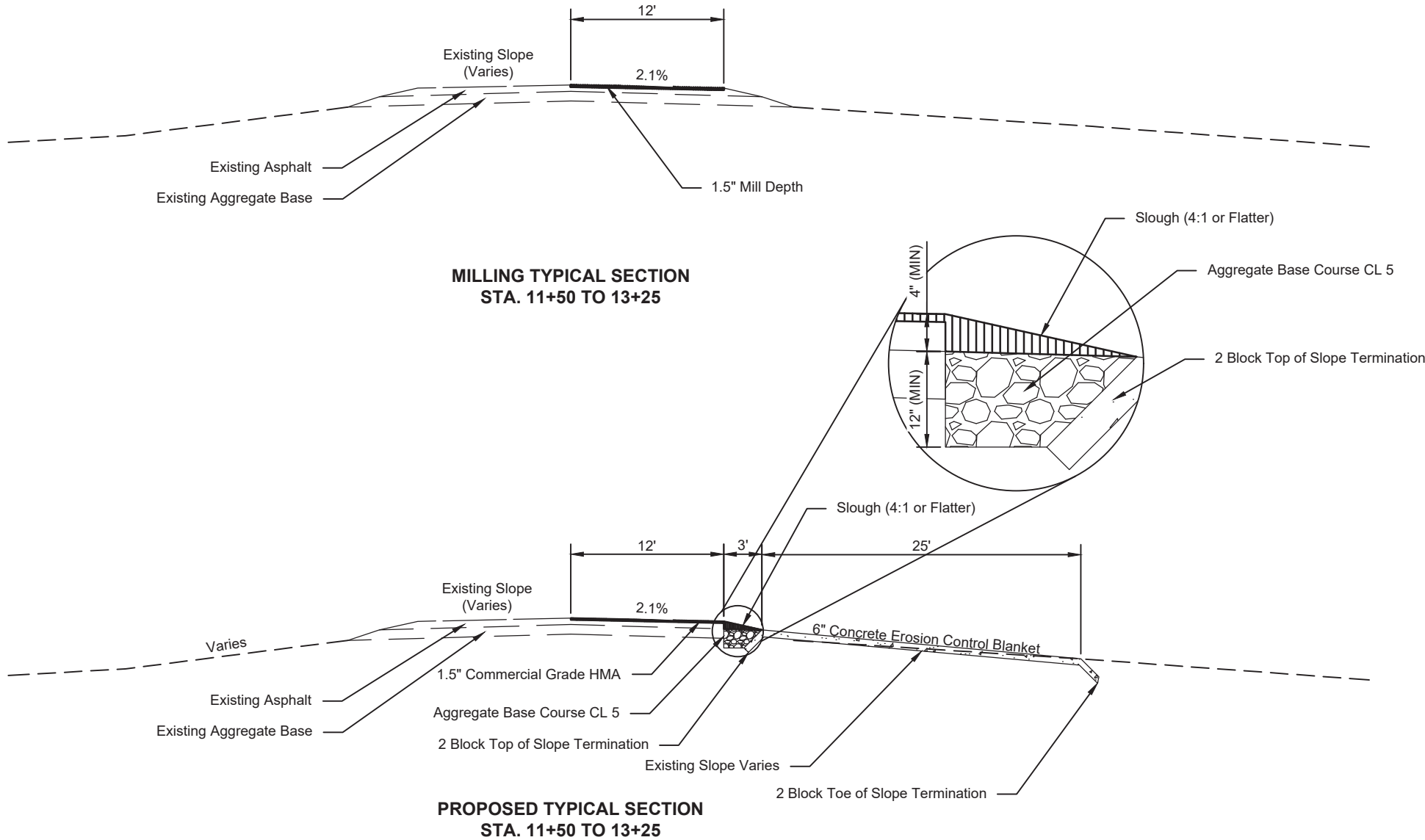


- Notes
1. The private approach shall have compacted subgrade, Geosynthetic Material Type RR, Concrete Erosion Control Blanket, and Aggregate Base Course CL 5, as described on Section 30, Sheet 1.
 2. These dimensions are approximate. The Contractor may adjust the dimensions to have the private approach tie into the section of the existing private approach that is beyond the construction limits.



CERP-3411(064) PEMBINA COUNTY, NORTH DAKOTA PEMBINA COUNTY HIGHWAY 12		
KLJ		
DRWN. BY CWT	CHKD BY JDD	PROJECT NO. 2302-01707

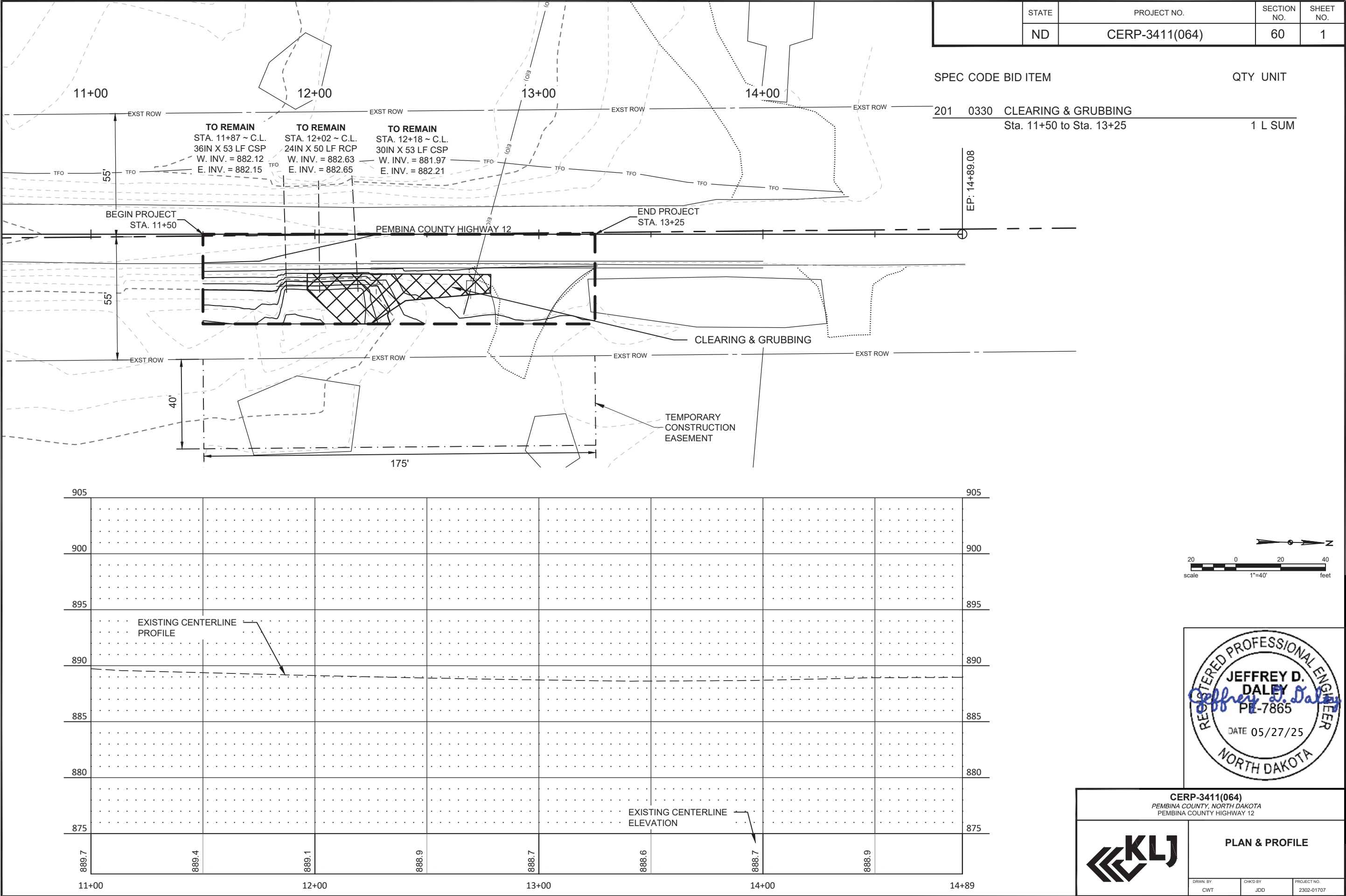
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	CERP-3411(060)	30	1



- Notes:
- 1) The Contractor shall install 25 feet of the Concrete Erosion Control Blanket starting from the proposed slough. The Concrete Erosion Control Blanket shall be installed so that the ditch surface matches the existing surface.
 - 2) The subgrade used on the inslope must be compacted and approved by the Engineer. Once approved, the Contractor shall install Geosynthetic Material Type RR and the Concrete Erosion Control Blanket per the manufactures specifications. This shall only be done for the 25 feet from the edge of the slough. The rest of the disturbed ground shall be covered with 6 inches of topsoil.
 - 3) Topsoil shall be used to fill in all open areas of the Concrete Erosion Control Blanket that are not under the slough or the private approach. Any area of the Concrete Erosion Control Blanket that is under the slough and private approach must be filled with Aggregate Base Course CL 5.
 - 4) Full depth removal of asphalt and aggregate shall be limited to only the proposed slough. The full depth removal of asphalt and aggregate at the proposed slough is to allow for proper installation and compaction for the 2 Block Top Slope Termination and shall be limited to the 3 foot width of the proposed slough. If additional asphalt and or aggregate is removed from the driving lane the Contractor shall install 12 inches Aggregate Base Course CL 5 and 4 inches of Commercial Grade HMA at the Contractor's expense.



CERP-3411(060) PEMBINA COUNTY, NORTH DAKOTA PEMBINA COUNTY HIGHWAY 12		
		TYPICAL SECTIONS
DRWN. BY CWT	CHKD BY JDD	PROJECT NO. 2302-01707



905

900

895

890

885

880

875

889.7

889.4

889.1

888.9

888.7

888.6

888.7

888.9

11+00

12+00

13+00

14+00

14+89

EXISTING CENTERLINE PROFILE

EXISTING CENTERLINE ELEVATION

20 0 20 40
scale 1"=40' feet

REGISTERED PROFESSIONAL ENGINEER
JEFFREY D. DALEY
PE-7865
DATE 05/27/25
NORTH DAKOTA

CERP-3411(064)
PEMBINA COUNTY, NORTH DAKOTA
PEMBINA COUNTY HIGHWAY 12

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PLAN & PROFILE

DRWN BY: CWT
CHKD BY: JDD
PROJECT NO.: 2302-01707

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Wetland Impact Table																
Wetland Number	Location	Wetland Type	Wetland Feature	USACE Jurisdictional Wetlands¹	Wetland Impact					Wetland Mitigation						
					Wetland Impacts Acre(s)			USFWS Easement Impacts Acre(s)		Mitigation Proposed			USACE/11990 Bank		11990 Bank	
					Temp.	Perm. (Fill/Drain)	Perm. (Cut)	Temp.	Perm.	EO 11990	USACE	USFWS	Location	Acre(s)	Location	Acre(s)
1	Sec 21 & 22 T-163-N R-55-W	Basin	Natural	Y	0.000	0.000	0.000									
2	Sec 21 & 22 T-163-N R-55-W	Basin	Natural	Y	0.011	0.045	0.000			N	N		N/A		N/A	
				Totals	0.011	0.045	0									

¹Delineated wetlands are assumed to be USACE jurisdictional wetlands for the purpose of Section 404 permitting.

Impact Summary Table			
Permanent Impact Summary		Temporary Impacts and additional information	
Wetland Type	Total Acre(s)	WaterType	Total Acre(s)
Natural/JD (Fill/Drain)	0.045	Temporary Wetland JD	0.011
Natural/Non-JD (Fill/Drain)		Non-JD Wetland Temporary	
Artificial/JD (Fill/Drain)			
Artificial /Non-JD (Fill/Drain))		Permanent OW	
Total		Temporary OW	
JD Natural (Cut)		Permanent OW-d	
JD Artificial (Cut)		Temporary OW-d	
Non-JD Natural (Cut)			
Non-JD Artificial (Cut)			
Total	0.045		

Mitigation Summary Table						
	Location	Ditch Shift Acre(s)	Onsite Acre(s)	11990 Bank Acre(s)	USACE/11990 Bank Acre(s)	USFWS Bank Acre(s)
USACE Only	Approved mitigation bank					
EO 11990 Only	N/A					
USACE/11990	N/A					
USFWS	N/A					
Total		0	0	0	0	0



CERP-3411(064)
PEMBINA COUNTY, NORTH DAKOTA
PEMBINA COUNTY HIGHWAY 12

WETLAND IMPACTS
TABLE

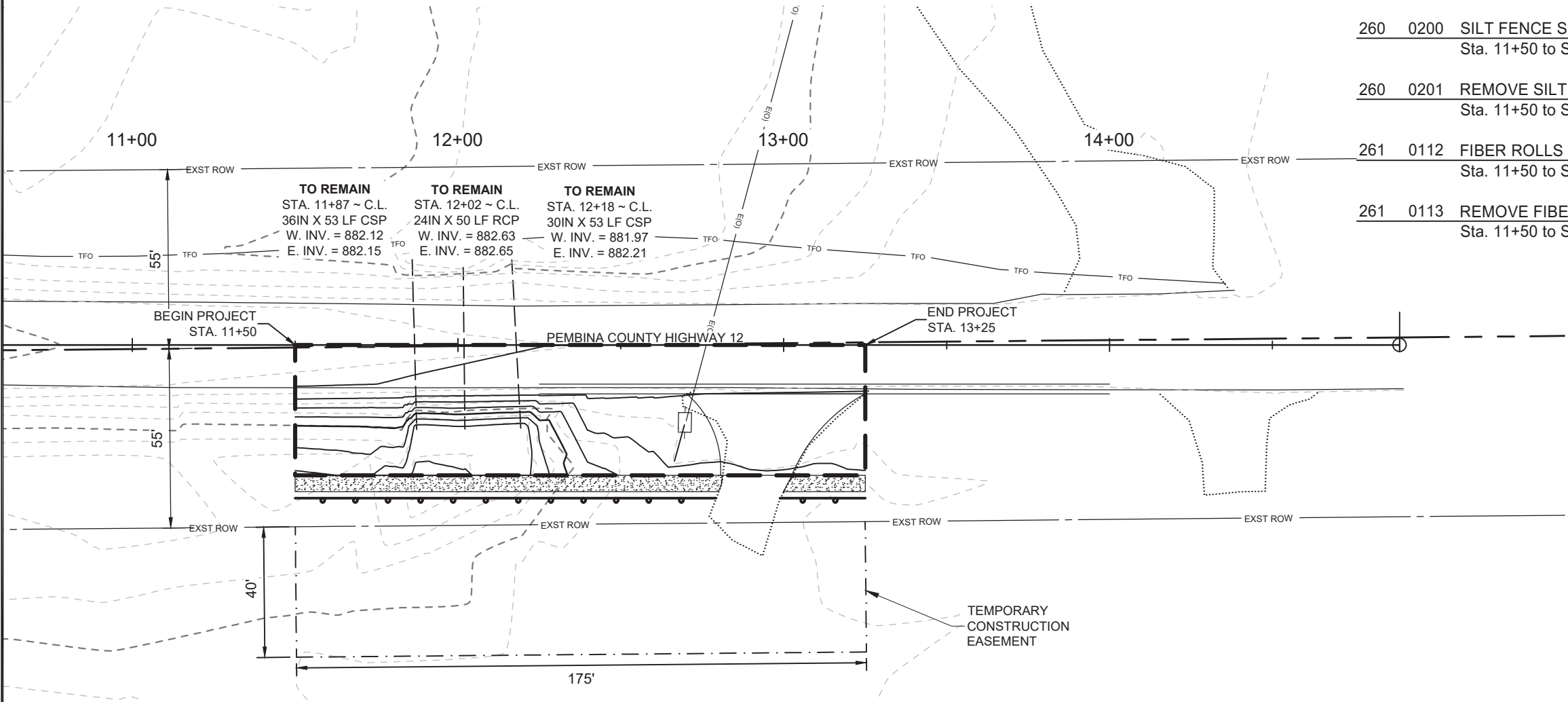
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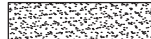

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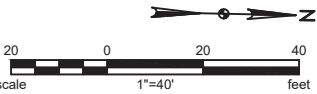
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	CERP-3411(064)	76	1

SPEC CODE	BID ITEM	QTY	UNIT
251 2000	TEMPORARY COVER CROP Sta. 11+50 to Sta. 13+25	0.02	ACRE
253 0101	STRAW MULCH Sta. 11+50 to Sta. 13+25	0.02	ACRE
260 0200	SILT FENCE SUPPORTED Sta. 11+50 to Sta. 13+25	50	LF
260 0201	REMOVE SILT FENCE SUPPORTED Sta. 11+50 to Sta. 13+25	50	LF
261 0112	FIBER ROLLS 12IN Sta. 11+50 to Sta. 13+25	155	LF
261 0113	REMOVE FIBER ROLLS 12IN Sta. 11+50 to Sta. 13+25	155	LF




NOTE:
1. EROSION CONTROL DEVICE LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD ACCORDING TO CONTRACTOR'S SWPPP.
2. A QUANTITY OF 50 LF OF SILT FENCE SUPPORTED HAS BEEN PROVIDED FOR USE DEPENDING ON SITE CONDITIONS.

 TEMPORARY COVER CROP/STRAW MULCH
 FIBER ROLLS 12IN



CERP-3411(064)
PEMBINA COUNTY, NORTH DAKOTA
PEMBINA COUNTY HIGHWAY 12



**TEMPORARY
EROSION CONTROL**

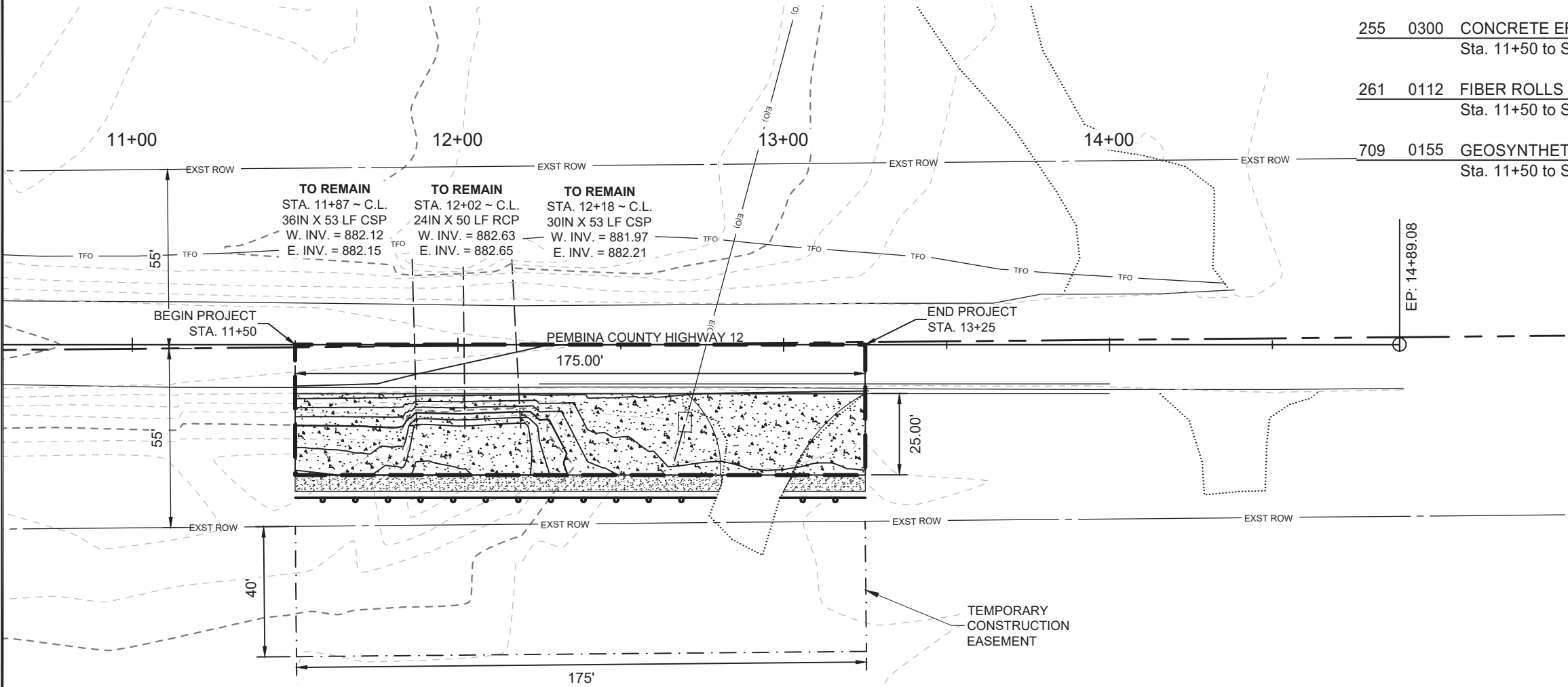
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JDD

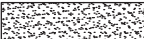


PROJECT NO.
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	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	CERP-3411(064)	77	1

SPEC CODE	BID ITEM	QTY	UNIT
251 0200	SEEDING CLASS II		
	Sta. 11+50 to Sta. 13+25	0.10	ACRE
253 0101	STRAW MULCH		
	Sta. 11+50 to Sta. 13+25	0.10	ACRE
255 0300	CONCRETE EROSION CONTROL BLANKET		
	Sta. 11+50 to Sta. 13+25	486	SY
261 0112	FIBER ROLLS 12IN		
	Sta. 11+50 to Sta. 13+25	155	LF
709 0155	GEOSYNTHETIC MATERIAL TYPE RR		
	Sta. 11+50 to Sta. 13+25	486	SY




NOTE:
1. SEEDING CLASS II AND STRAW MULCH SHALL ALSO BE DONE OVER THE INSTALLED CONCRETE EROSION CONTROL BLANKET, EXCEPT AT THE APPROACH AT STATION 13+00. SEE SECTION 20, SHEET 2.

-  SEEDING CLASS II/STRAW MULCH
-  FIBER ROLLS 12IN
-  CONCRETE EROSION CONTROL BLANKET



CERP-3411(064)
PEMBINA COUNTY, NORTH DAKOTA
PEMBINA COUNTY HIGHWAY 12



**PERMANENT
EROSION CONTROL**

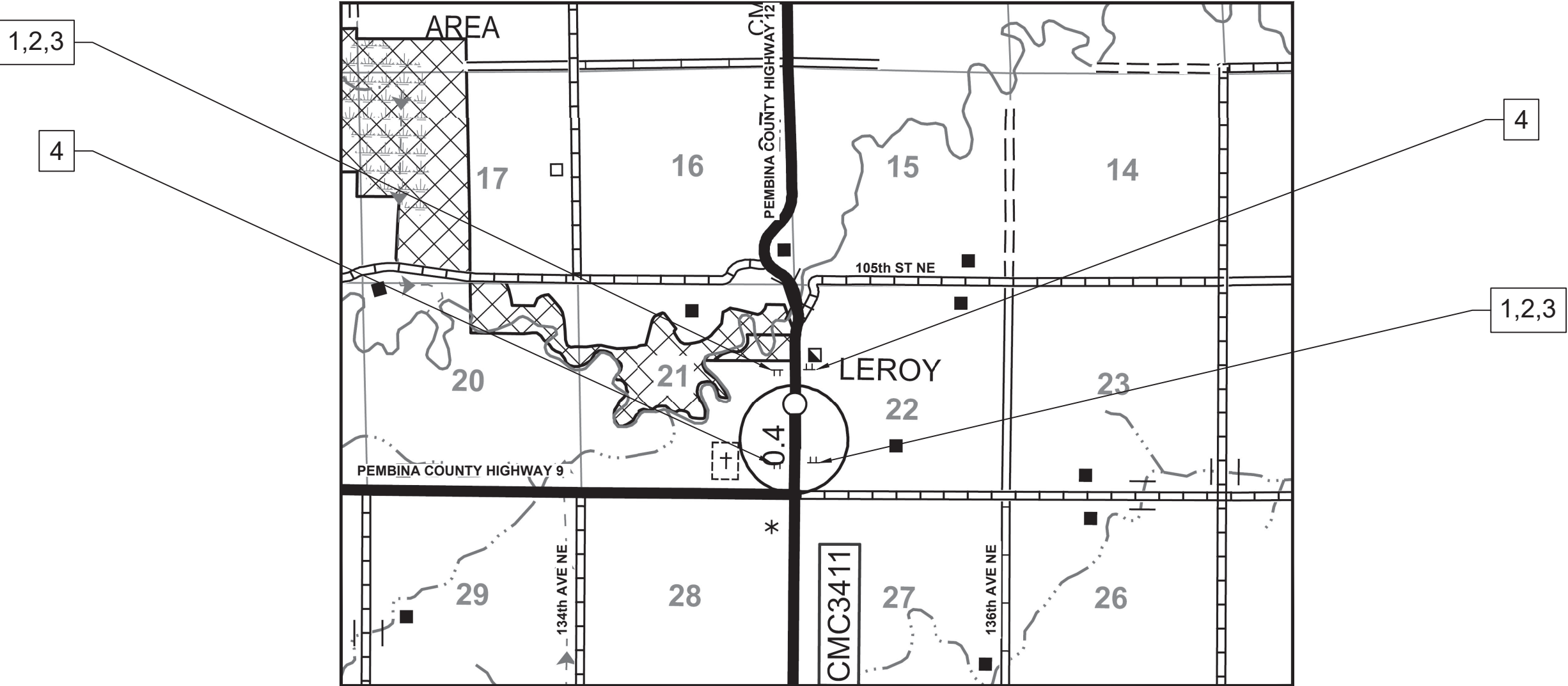
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2302-01707

[illegible]

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	CERP-3411(064)	100	2



1

ROAD WORK AHEAD

W20-1-48
Skid Mounted

2

ONE LANE ROAD AHEAD

W20-4-48
Skid Mounted

3

PEDESTRIAN AHEAD

W20-7-48
Skid Mounted

4

END ROAD WORK

G20-2-48
Skid Mounted

The sign layout as shown is for general information purposes only. The contractor will be required to conform to MUTCD and the Standard Drawings when installing the traffic control signing.



CERP-3411(064)

PEMBINA COUNTY, NORTH DAKOTA

PEMBINA COUNTY HIGHWAY 12

KLJ

CONSTRUCTION SIGNING LAYOUT

DRWN BY: CWT

CHKD BY: JDD

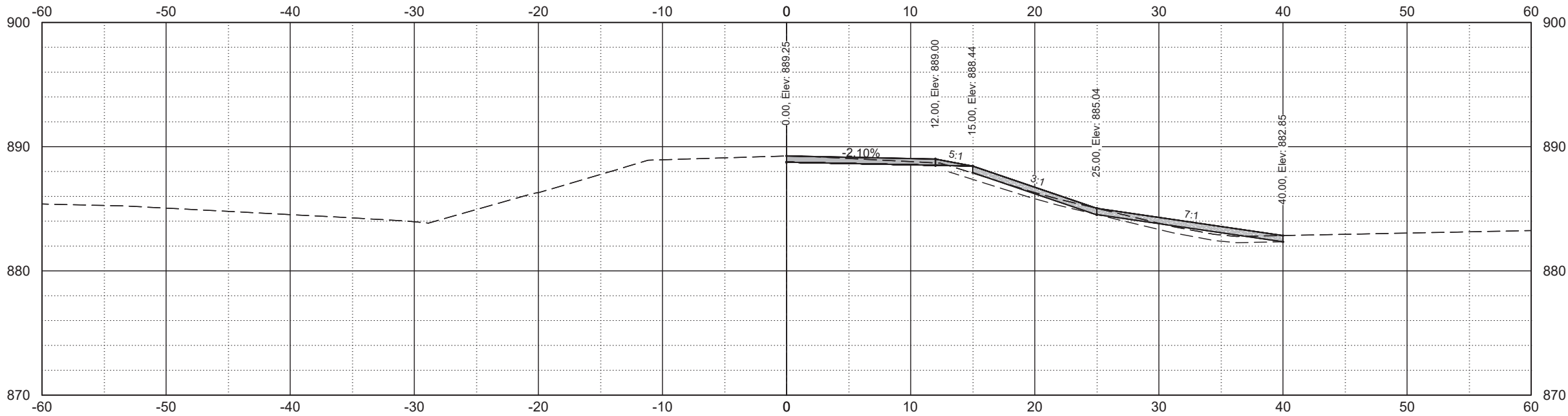
PROJECT NO.: 2302-01707

CROSS-SECTIONS

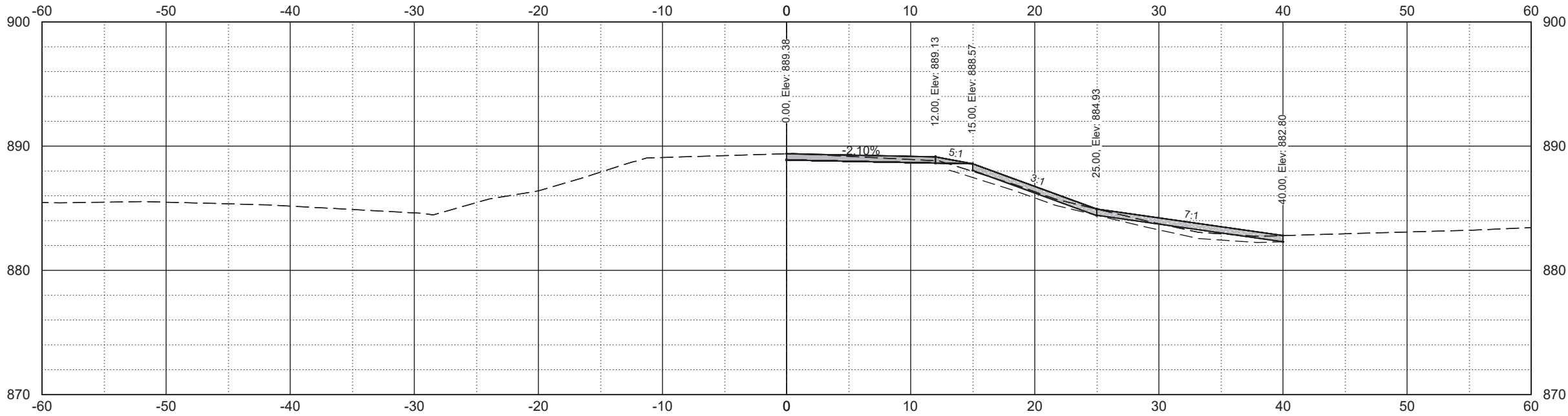


STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	CERP-3411(064)	200	1

11+75.00



11+50.00

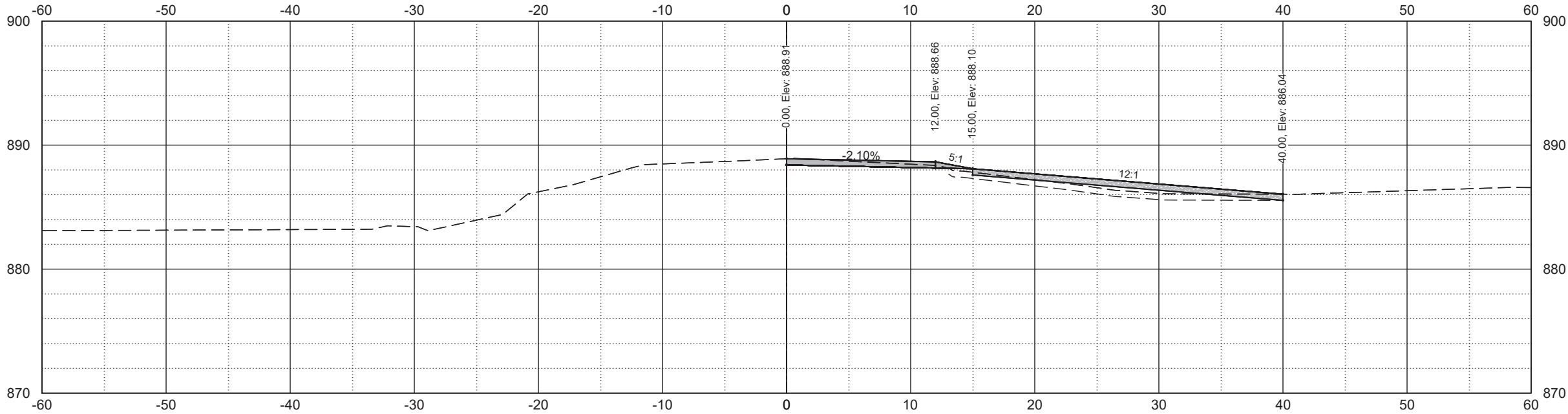


CROSS-SECTIONS

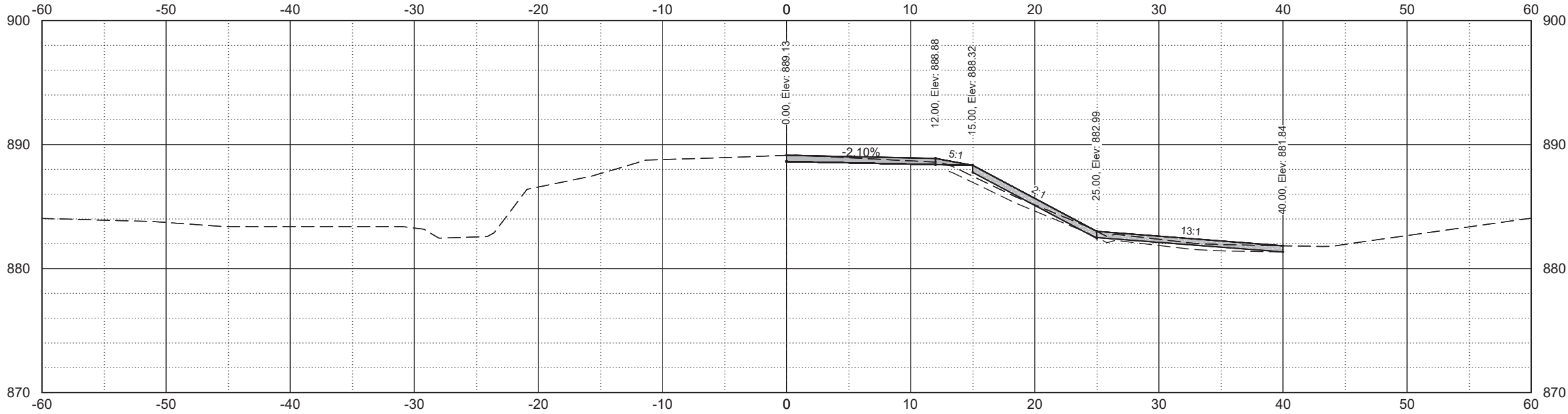


STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	CERP-3411(064)	200 2

12+50.00



12+00.00

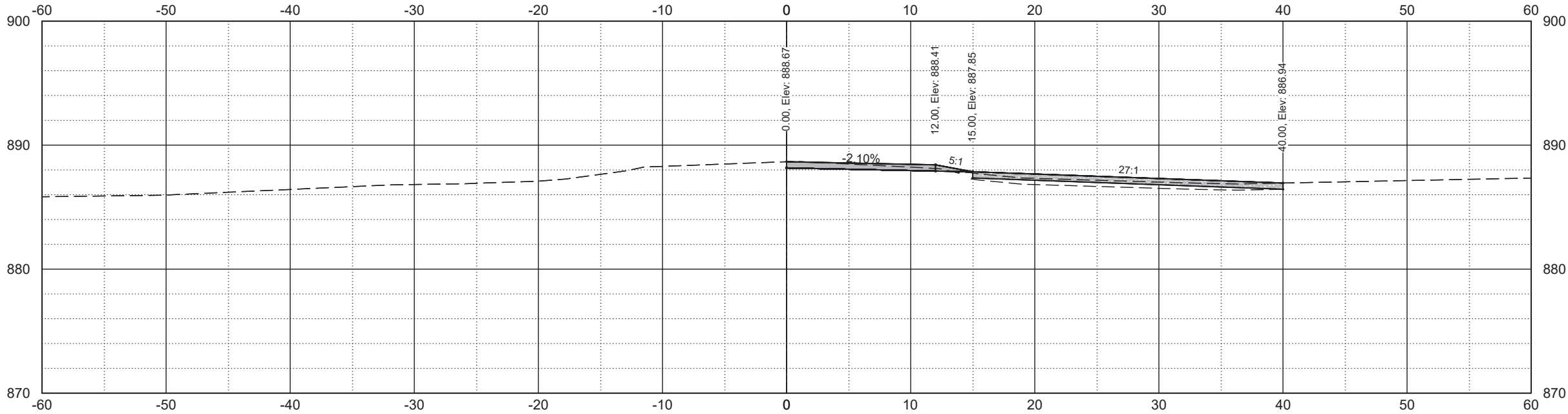


CROSS-SECTIONS



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	CERP-3411(064)	200	3

13+25.00



13+00.00

