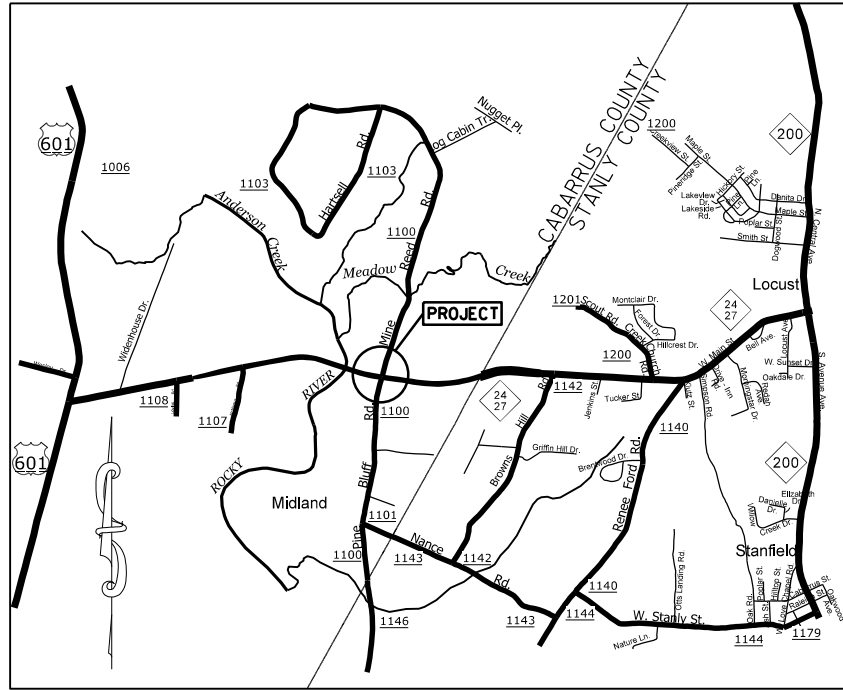


**PROJECT: 49291.3.6 TIP:HS-2010F**



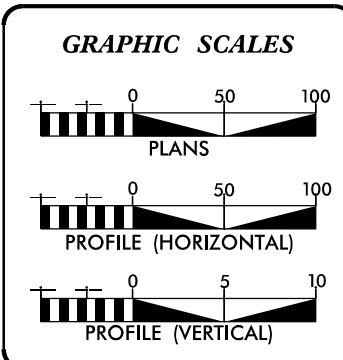
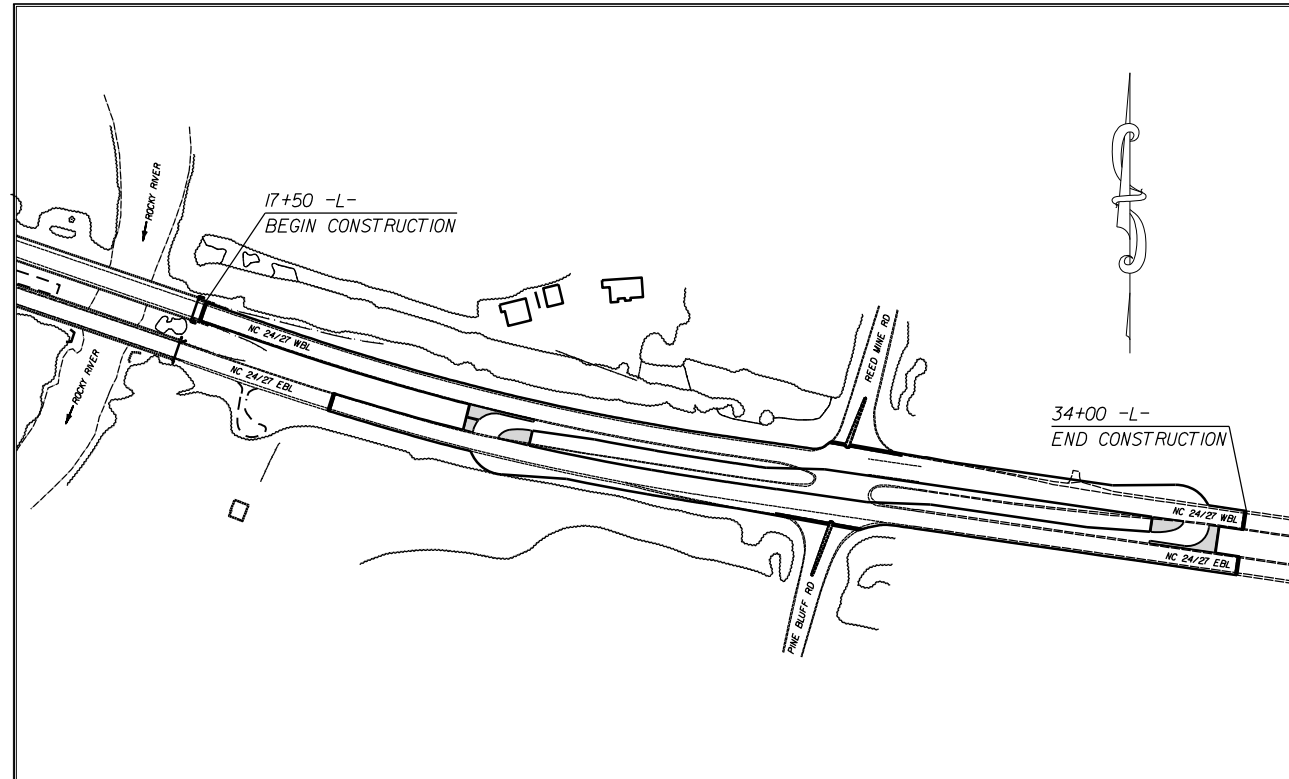
VICINITY MAP NOT TO SCALE

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**CABARRUS COUNTY**

**LOCATION:** INTERSECTION OF NC HWY. 24-27 AT  
PINE BLUFF RD. AND REED MINE RD. (SR-1100)

**TYPE OF WORK:** GRADING, DRAINAGE, PAVING, PAVEMENT REMOVAL, CONCRETE ISLANDS,  
AND THERMOPLASTIC PAVEMENT MARKINGS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	49291.3.6	1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
49291.1.6	0024096	P.E.	
49291.2.7	0024096	RW	
49291.3.6	0024096	CONST.	



**DESIGN DATA**

ADT	=	_____
ADT	=	_____
DHV	=	___ %
D	=	___ %
T	=	___ %
V	=	___ MPH

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT 49291.3.6	=	0.32	MILES
TOTAL LENGTH OF STATE PROJECT 49291.3.6	=	0.32	MILES

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
DIVISION TEN  
DIVISION DESIGN / CONSTRUCT UNIT

---

2024 STANDARD SPECIFICATIONS

<b>RIGHT OF WAY DATE:</b> _____	<b>DONALD HARWARD</b> PROJECT ENGINEER
<b>LETTING DATE:</b> FEBRUARY 21, 2024	<b>TRAVIS LOWDER</b> PROJECT DESIGN ENGINEER



DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA  
11/30/2023

NORTH CAROLINA  
PROFESSIONAL  
SEAL  
042673  
ENGINEER  
TRAVIS J. PRESLEY

DocuSigned by  
*Travis Presley*  
A53C1AC7A1FF47B...

APPROVED BY  
DIVISION PROJECT TEAM LEAD  
DATE

# STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

### BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin (EIP)	○
Computed Property Corner	×
Existing Concrete Monument (ECM)	□
Parcel/Sequence Number	②3
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	WLB
Proposed Wetland Boundary	WLB
Existing Endangered Animal Boundary	EAB
Existing Endangered Plant Boundary	EPB
Existing Historic Property Boundary	HPB
Known Contamination Area: Soil	⊗-s-⊗-s-
Potential Contamination Area: Soil	⊗-s-⊗-s-
Known Contamination Area: Water	⊗-w-⊗-w-
Potential Contamination Area: Water	⊗-w-⊗-w-
Contaminated Site: Known or Potential	☠ ?

### BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	⊙
Well	⊙
Small Mine	⊗
Foundation	□
Area Outline	□
Cemetery	⊕
Building	⊕
School	⊕
Church	⊕
Dam	▬

### HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	JS
Buffer Zone 1	BZ 1
Buffer Zone 2	BZ 2
Flow Arrow	←
Disappearing Stream	→
Spring	○
Wetland	WLB
Proposed Lateral, Tail, Head Ditch	← FLOW
False Sump	▽

### RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○
Switch	□
RR Abandoned	-----
RR Dismantled	-----

### RIGHT OF WAY & PROJECT CONTROL:

Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	●
Secondary Horiz and Vert Control Point	◆
Vertical Benchmark	⊕
Existing Right of Way Monument	△
Proposed Right of Way Monument (Rebar and Cap)	▲
Proposed Right of Way Monument (Concrete)	⊕
Existing Permanent Easement Monument	◇
Proposed Permanent Easement Monument (Rebar and Cap)	◆
Existing C/A Monument	△
Proposed C/A Monument (Rebar and Cap)	▲
Proposed C/A Monument (Concrete)	⊕
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Existing Control of Access Line	-----
Proposed Control of Access Line	-----
Proposed ROW and CA Line	-----
Existing Easement Line	-----
Proposed Temporary Construction Easement	-----
Proposed Temporary Drainage Easement	-----
Proposed Permanent Drainage Easement	-----
Proposed Permanent Drainage/Utility Easement	-----
Proposed Permanent Utility Easement	-----
Proposed Temporary Utility Easement	-----
Proposed Aerial Utility Easement	-----

### ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
Proposed Slope Stakes Fill	-----
Proposed Curb Ramp	-----
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	-----
VEGETATION:	
Single Tree	⊕
Single Shrub	⊕
Hedge	-----

Woods Line	-----
Orchard	-----
Vineyard	-----

### EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	-----
Bridge Wing Wall, Head Wall and End Wall	-----
MINOR:	
Head and End Wall	-----
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	-----
Paved Ditch Gutter	-----
Storm Sewer Manhole	-----
Storm Sewer	-----

### UTILITIES:

\* SUE - Subsurface Utility Engineering  
LOS - Level of Service - A,B,C or D (Accuracy)

POWER:	
Existing Power Pole	-----
Proposed Power Pole	-----
Existing Joint Use Pole	-----
Proposed Joint Use Pole	-----
Power Manhole	-----
Power Line Tower	-----
Power Transformer	-----
U/G Power Cable Hand Hole	-----
H-Frame Pole	-----
U/G Power Line Test Hole (SUE - LOS A)*	-----
U/G Power Line (SUE - LOS B)*	-----
U/G Power Line (SUE - LOS C)*	-----
U/G Power Line (SUE - LOS D)*	-----
TELEPHONE:	
Existing Telephone Pole	-----
Proposed Telephone Pole	-----
Telephone Manhole	-----
Telephone Pedestal	-----
Telephone Cell Tower	-----
U/G Telephone Cable Hand Hole	-----
U/G Telephone Test Hole (SUE - LOS A)*	-----
U/G Telephone Cable (SUE - LOS B)*	-----
U/G Telephone Cable (SUE - LOS C)*	-----
U/G Telephone Cable (SUE - LOS D)*	-----
U/G Telephone Conduit (SUE - LOS B)*	-----
U/G Telephone Conduit (SUE - LOS C)*	-----
U/G Telephone Conduit (SUE - LOS D)*	-----
U/G Fiber Optics Cable (SUE - LOS B)*	-----
U/G Fiber Optics Cable (SUE - LOS C)*	-----
U/G Fiber Optics Cable (SUE - LOS D)*	-----

### WATER:

Water Manhole	-----
Water Meter	-----
Water Valve	-----
Water Hydrant	-----
U/G Water Line Test Hole (SUE - LOS A)*	-----
U/G Water Line (SUE - LOS B)*	-----
U/G Water Line (SUE - LOS C)*	-----
U/G Water Line (SUE - LOS D)*	-----
Above Ground Water Line	-----
TV:	
TV Pedestal	-----
TV Tower	-----
U/G TV Cable Hand Hole	-----
U/G TV Test Hole (SUE - LOS A)*	-----
U/G TV Cable (SUE - LOS B)*	-----
U/G TV Cable (SUE - LOS C)*	-----
U/G TV Cable (SUE - LOS D)*	-----
U/G Fiber Optic Cable (SUE - LOS B)*	-----
U/G Fiber Optic Cable (SUE - LOS C)*	-----
U/G Fiber Optic Cable (SUE - LOS D)*	-----

### GAS:

Gas Valve	-----
Gas Meter	-----
U/G Gas Line Test Hole (SUE - LOS A)*	-----
U/G Gas Line (SUE - LOS B)*	-----
U/G Gas Line (SUE - LOS C)*	-----
U/G Gas Line (SUE - LOS D)*	-----
Above Ground Gas Line	-----

### SANITARY SEWER:

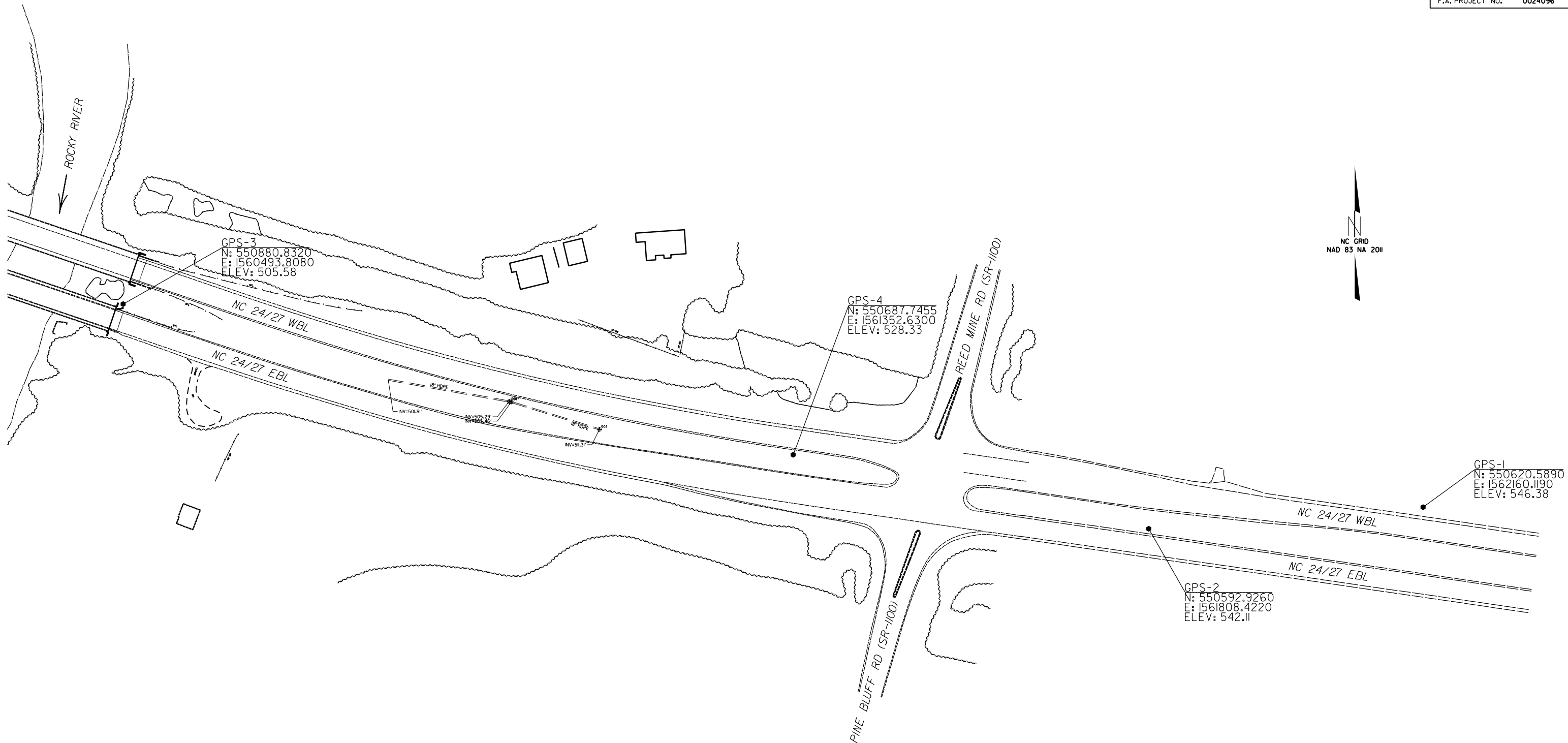
Sanitary Sewer Manhole	-----
Sanitary Sewer Cleanout	-----
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	-----
SS Force Main Line Test Hole (SUE - LOS A)*	-----
SS Force Main Line (SUE - LOS B)*	-----
SS Force Main Line (SUE - LOS C)*	-----
SS Force Main Line (SUE - LOS D)*	-----

### MISCELLANEOUS:

Utility Pole	-----
Utility Pole with Base	-----
Utility Located Object	-----
Utility Traffic Signal Box	-----
Utility Unknown U/G Line (SUE - LOS B)*	-----
U/G Tank; Water, Gas, Oil	-----
Underground Storage Tank, Approx. Loc.	-----
AG Tank; Water, Gas, Oil	-----
Geoenvironmental Boring	-----
Abandoned According to Utility Records	-----
End of Information	-----

# SURVEY CONTROL SHEET

PROJECT NO.	SHEET NO.
4929L3.6	1B
F.A. PROJECT NO.	0024096



BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
	1		550620.5890	1562160.1190	546.38	33+90.15	63.20 LT
	2		550592.9260	1561808.4220	542.11	30+46.07	14.70 RT
	3		550880.8320	1560493.8080	505.58	16+99.44	12.44 RT
	4		550687.7455	1561352.6300	528.33	25+81.33	13.56 LT

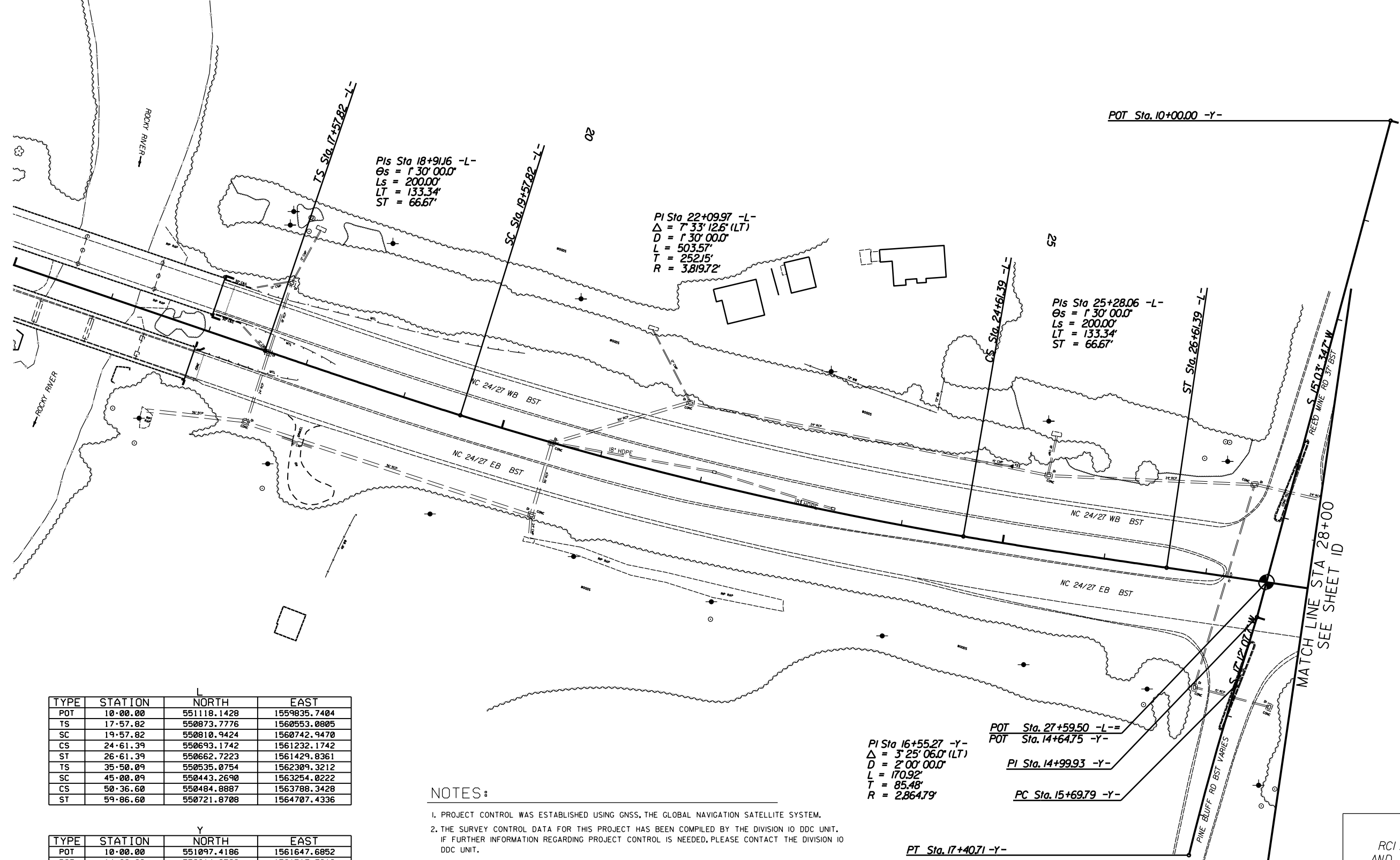
**NOTES:**

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED BY THE DIVISION IO DDC UNIT. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE DIVISION IO DDC UNIT.

RCI AT INTERSECTION OF NC HWY.24-27  
AND PINE BLUFF/REED MINE RD.(SR-1100)

SCALE	N/A		REVISIONS
DATE	8/2023		
DWG. BY	TBL		
DESIGN BY	TBL		
APPROVED	JDH		

# PROPOSED ALIGNMENT SHEET



TYPE	STATION	NORTH	EAST
POT	10+00.00	551118.1428	1559835.7404
TS	17+57.82	550873.7776	1560553.0805
SC	19+57.82	550810.9424	1560742.9470
CS	24+61.39	550693.1742	1561232.1742
ST	26+61.39	550662.7223	1561429.8361
TS	35+50.09	550535.0754	1562309.3212
SC	45+00.09	550443.2690	1563254.0222
CS	50+36.60	550484.8887	1563788.3428
ST	59+86.60	550721.8708	1564707.4336

TYPE	STATION	NORTH	EAST
POT	10+00.00	551097.4186	1561647.6852
POT	14+99.93	550614.6583	1561517.7912
PC	15+69.79	550547.9233	1561497.1306
PT	17+40.71	550383.2416	1561451.4820

- NOTES:
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
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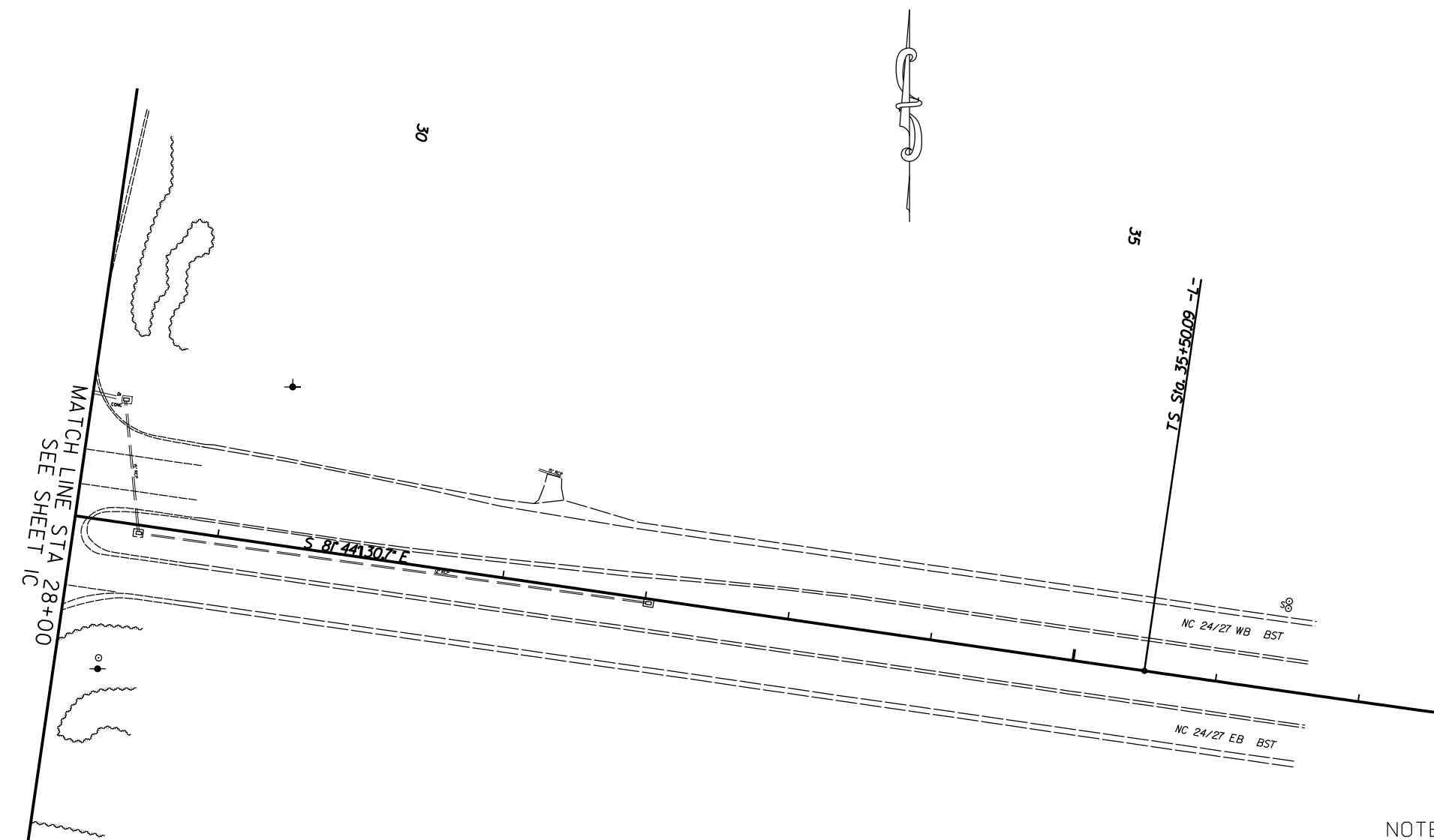
MATCH LINE STA 28+00  
SEE SHEET 1D

RCI AT INTERSECTION OF NC HWY. 24-27 AND PINE BLUFF/REED MINE RD.(SR-1100)

SCALE	1"=50'		REVISIONS
DATE	8-2023		
DWG. BY	VSC		
DESIGN BY	TBL		
APPROVED	JDH		

PROJECT NO.	SHEET NO.
49291.3.6	ID
F.A. PROJECT NO.	0024096

# PROPOSED ALIGNMENT SHEET



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L			
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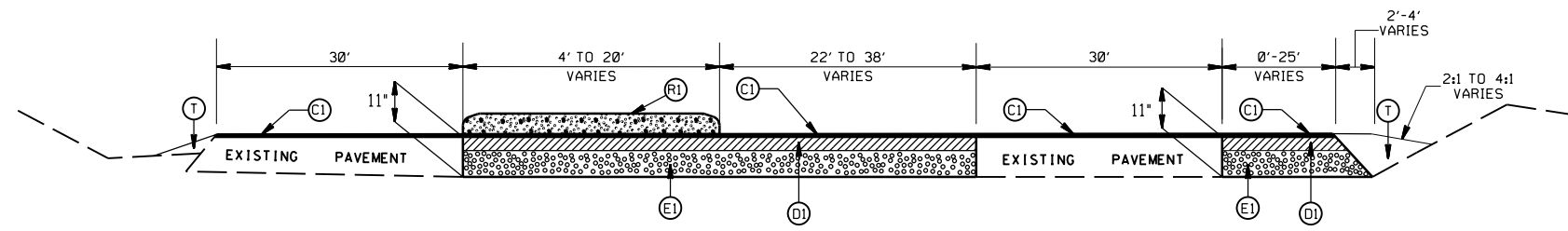
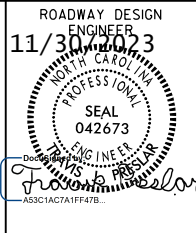
Y			
TYPE	STATION	NORTH	EAST
POT	10+00.00	551097.4186	1561647.6852
POT	14+99.93	550614.6583	1561517.7912
PC	15+69.79	550547.9233	1561497.1306
PT	17+40.71	550383.2416	1561451.4820

RCI AT INTERSECTION OF NC HWY. 24-27 AND PINE BLUFF/REED MINE RD.(SR-1100)

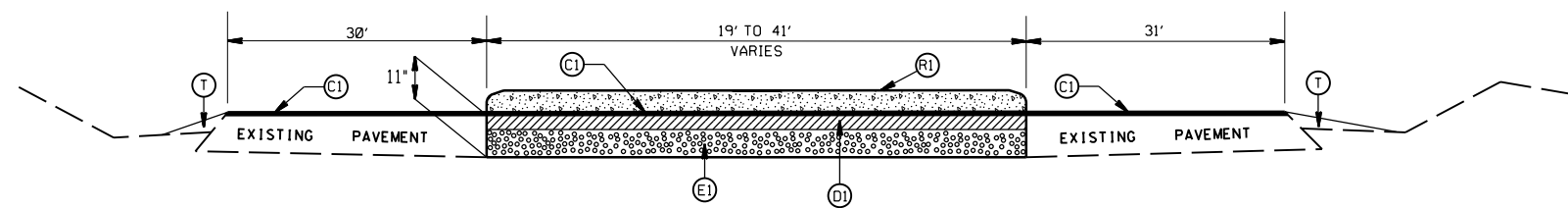
SCALE	1"=50'
DATE	8-2023
DWG. BY	VSC
DESIGN BY	TBL
APPROVED	JDH



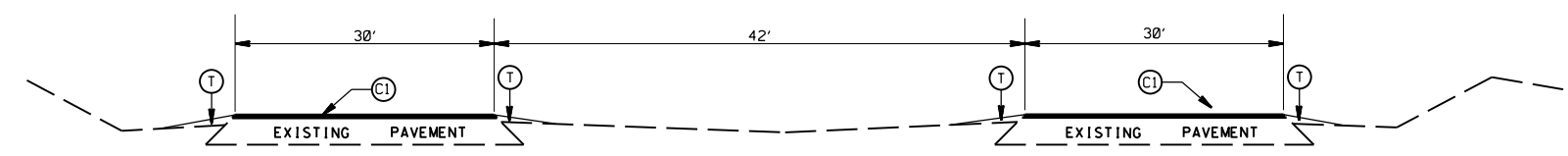
REVISIONS	



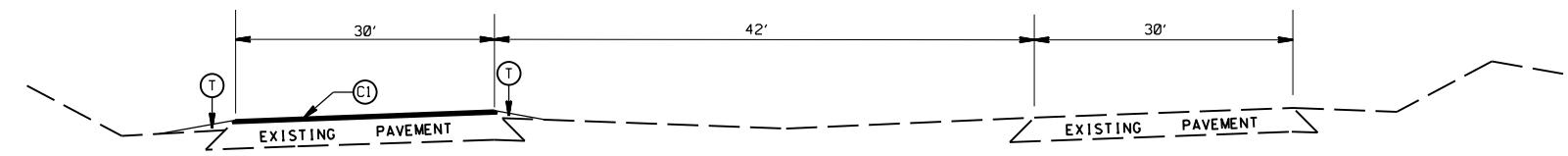
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STA. 21+79.12 TO 22+15.00 -L-



TYPICAL SECTION NO.3  
STA. 21+59.00 TO 21+79.12 -L-



TYPICAL SECTION NO.2  
STA. 19+47.19 TO 21+59.00 -L-  
STA. 33+61.00 TO 34+00.00 -L-



TYPICAL SECTION NO.1  
STA. 17+10.00 TO 19+47.19 -L-

PAVEMENT SCHEDULE

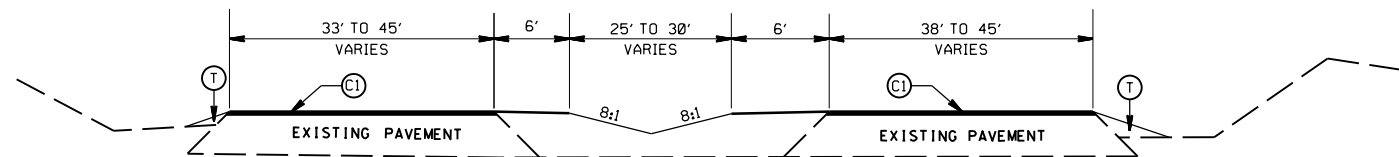
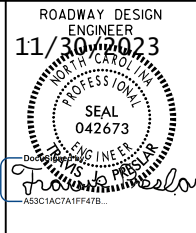
(C1)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(E1)	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
(R1)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(T)	EARTH MATERIAL

RCI AT INTERSECTION OF NC HWY.24-27  
AND PINE BLUFF/REED MINE RD.(SR-1100)

SCALE	N/A
DATE	8-2023
DWG. BY	VSC
DESIGN BY	TBL
APPROVED	JDH



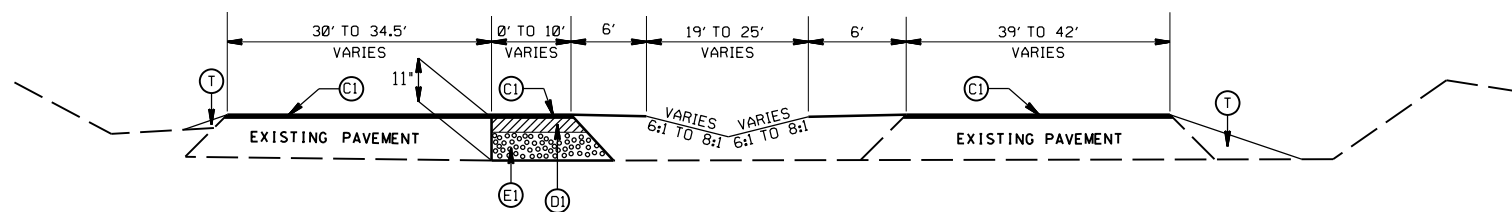
REVISIONS	



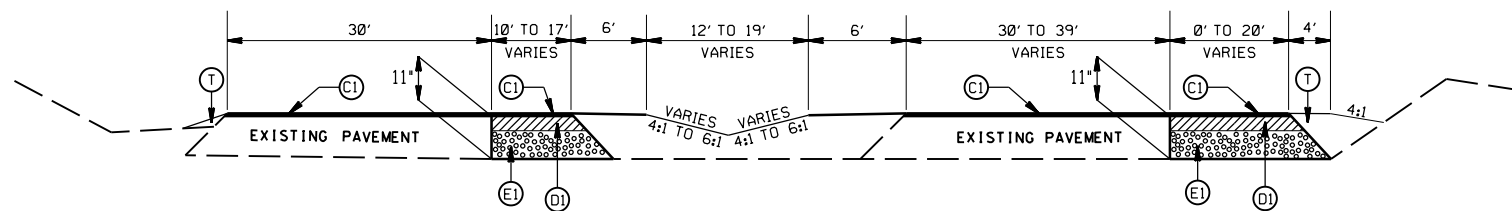
TYPICAL SECTION NO. 8  
STA. 26+89.91 TO 28+21+28 -L-

PAVEMENT SCHEDULE

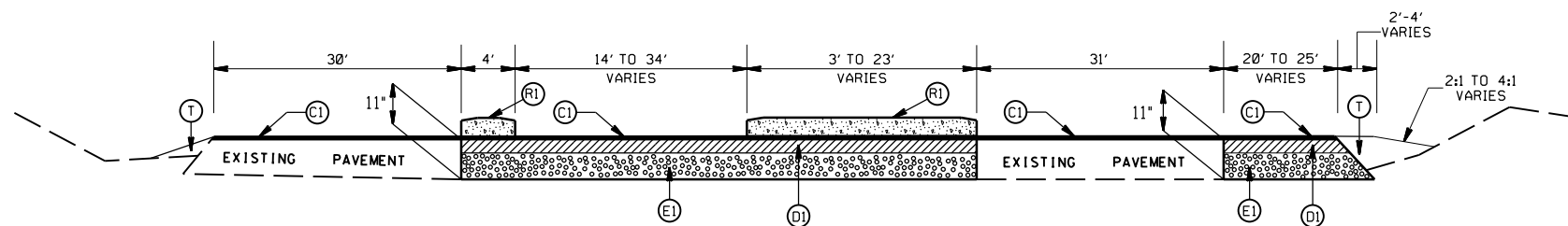
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(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
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(R1)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(T)	EARTH MATERIAL



TYPICAL SECTION NO. 7  
STA. 26+03.00 TO 26+89.91 -L-



TYPICAL SECTION NO. 6  
STA. 22+66.00 TO 26+03.00 -L-



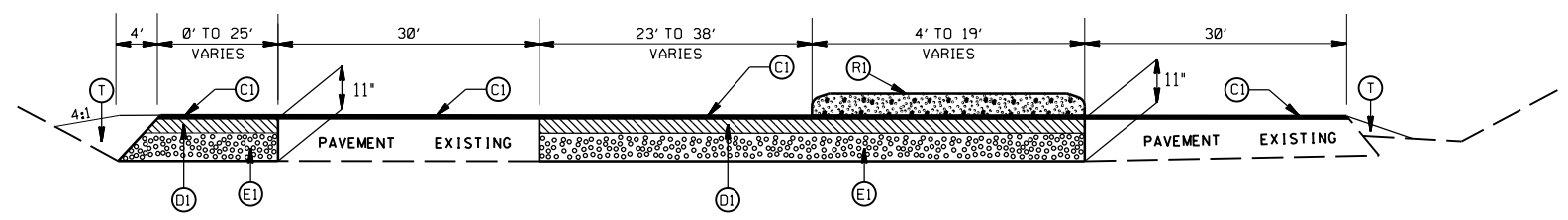
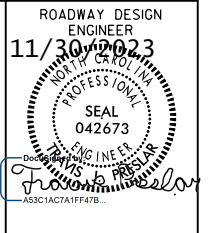
TYPICAL SECTION NO. 5  
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RCI AT INTERSECTION OF NC HWY. 24-27 AND PINE BLUFF/REED MINE RD. (SR-1100)

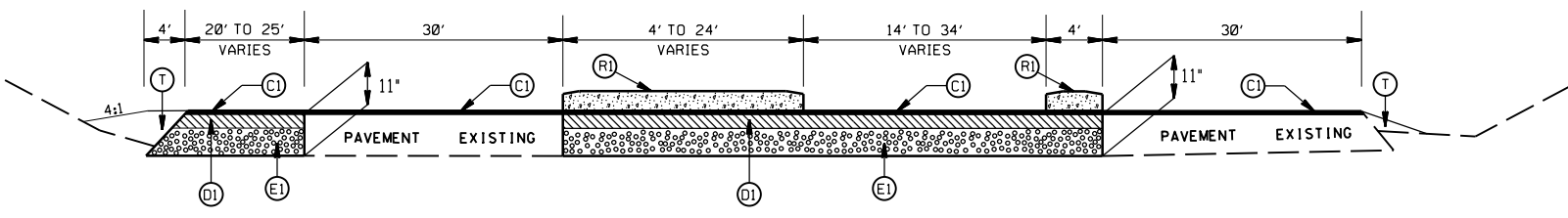
SCALE	N/A
DATE	8-2023
DWG. BY	VSC
DESIGN BY	TBL
APPROVED	JDH



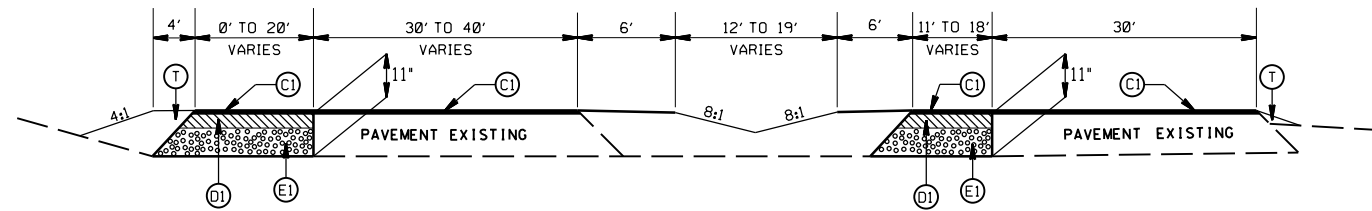
REVISIONS

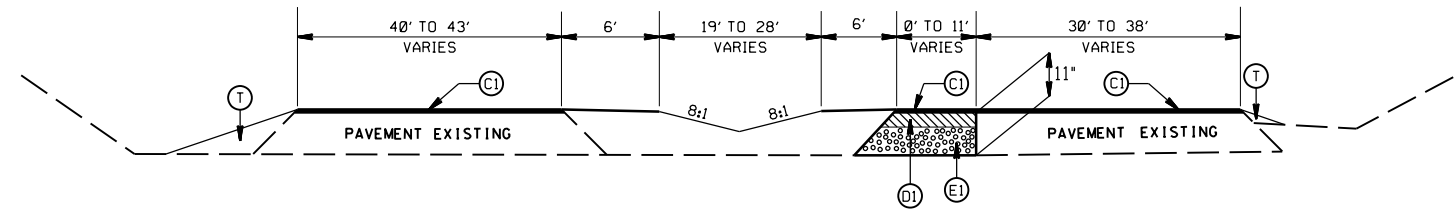
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STA. 33+05.00 TO 33+38.94 -L-



TYPICAL SECTION NO.11  
STA. 32+54.00 TO 33+05.00 -L-



TYPICAL SECTION NO.10  
STA. 29+28.00 TO 32+54.00 -L-



TYPICAL SECTION NO.9  
STA. 28+21.28 TO 29+28.00 -L-

PAVEMENT SCHEDULE

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(T)	EARTH MATERIAL

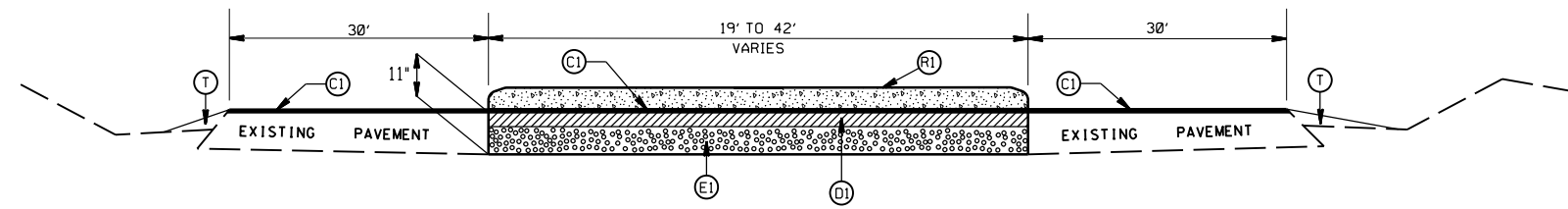
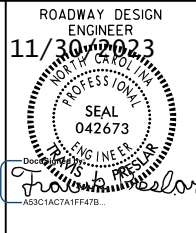
RCI AT INTERSECTION OF NC HWY.24-27  
AND PINE BLUFF/REED MINE RD.(SR-1100)

SCALE	N/A
DATE	8-2023
DWG. BY	VSC
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APPROVED	JDH



REVISIONS	

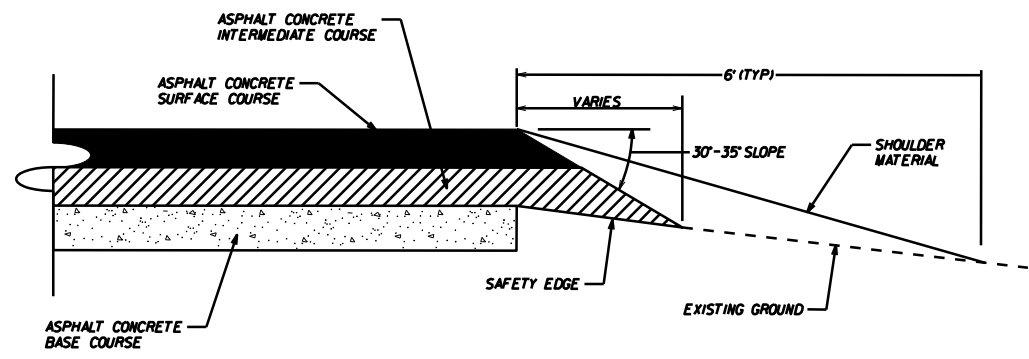




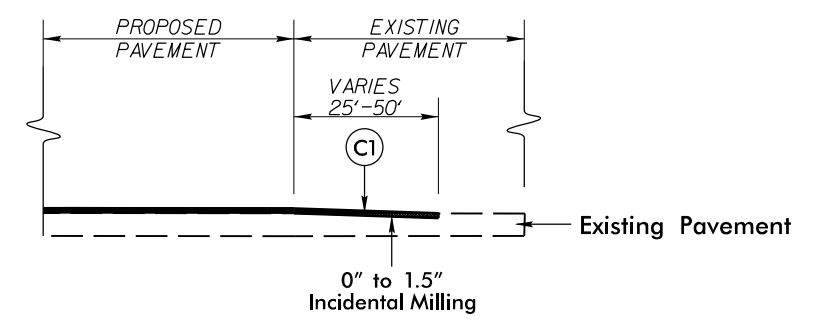
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STA. 33+38.94 TO 33+61.00 -L-

PAVEMENT SCHEDULE

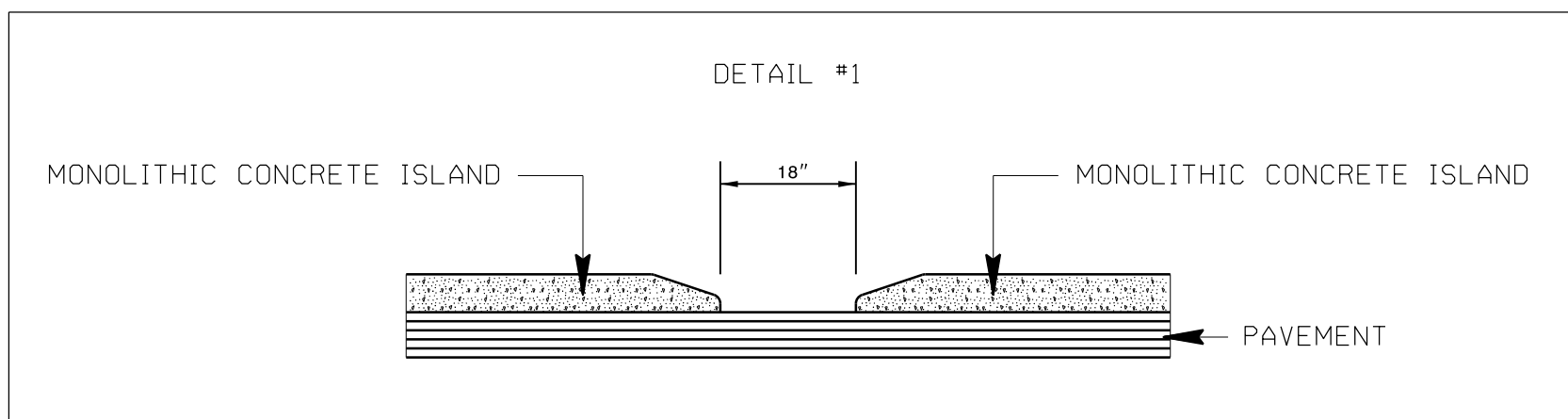
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(R1)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(T)	EARTH MATERIAL



SAFETY EDGE DETAIL



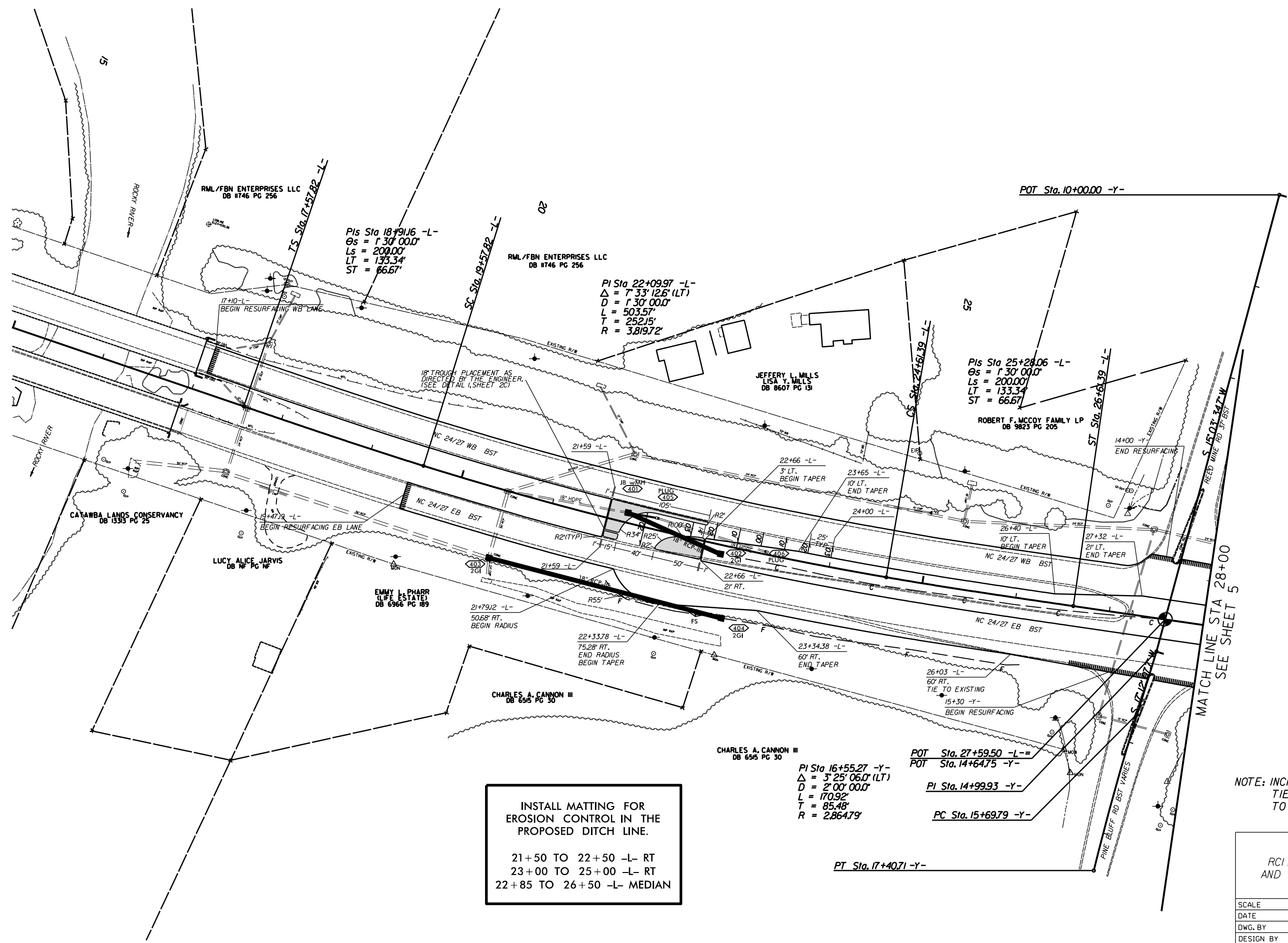
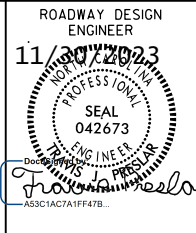
INCIDENTAL MILLING DETAIL  
EXISTING ROAD TIE-IN  
PROJECT TIE-INS



RCI AT INTERSECTION OF NC HWY.24-27  
AND PINE BLUFF/REED MINE RD.(SR-1100)

SCALE	N/A		REVISIONS
DATE	8-2023		
DWG. BY	VSC		
DESIGN BY	TBL		
APPROVED	JDH		





INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.

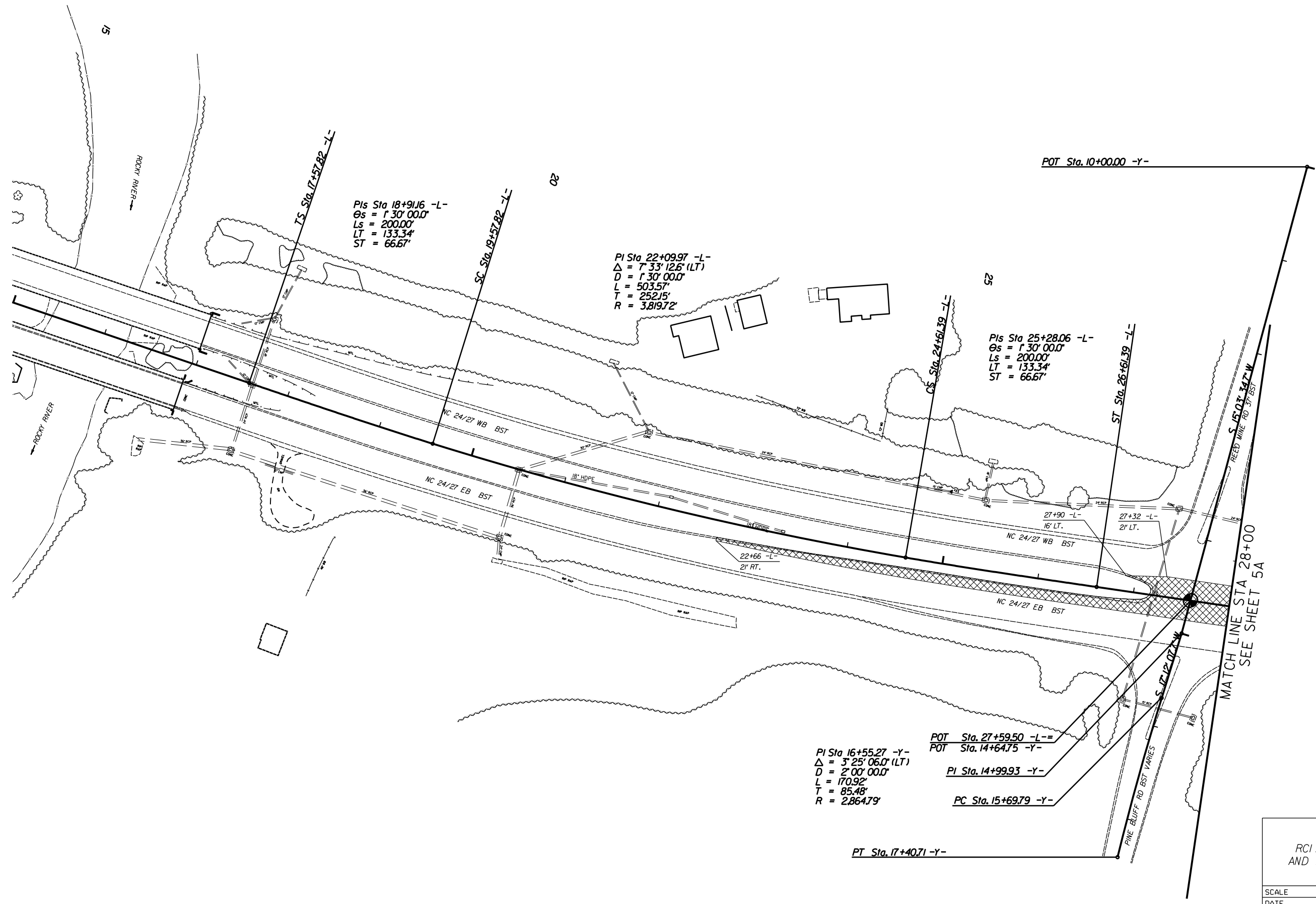
21+50 TO 22+50 -L- RT  
 23+00 TO 25+00 -L- RT  
 22+85 TO 26+50 -L- MEDIAN

NOTE: INCIDENTAL MILL APPROX. 25' AT EACH TIE IN TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING ASPHALT PAVEMENT.

RCI AT INTERSECTION OF NC HWY. 24-27 AND PINE BLUFF/REED MINE RD. (SR-1100)	
SCALE	1"=50'
DATE	10-2023
DWG. BY	VSC
DESIGN BY	TBL
APPROVED	JDH
REVISIONS	


PROJECT NO.	SHEET NO.
49291.3.6	4A
F.A. PROJECT NO.	0024096

ROADWAY DESIGN  
ENGINEER  
11/30/2023  
NON-RENEWABLE  
PROFESSIONAL  
SEAL  
042673  
J. D. HOPKINS  
P.E.  
ROADWAY DESIGN  
ASSOCIATES, INC.

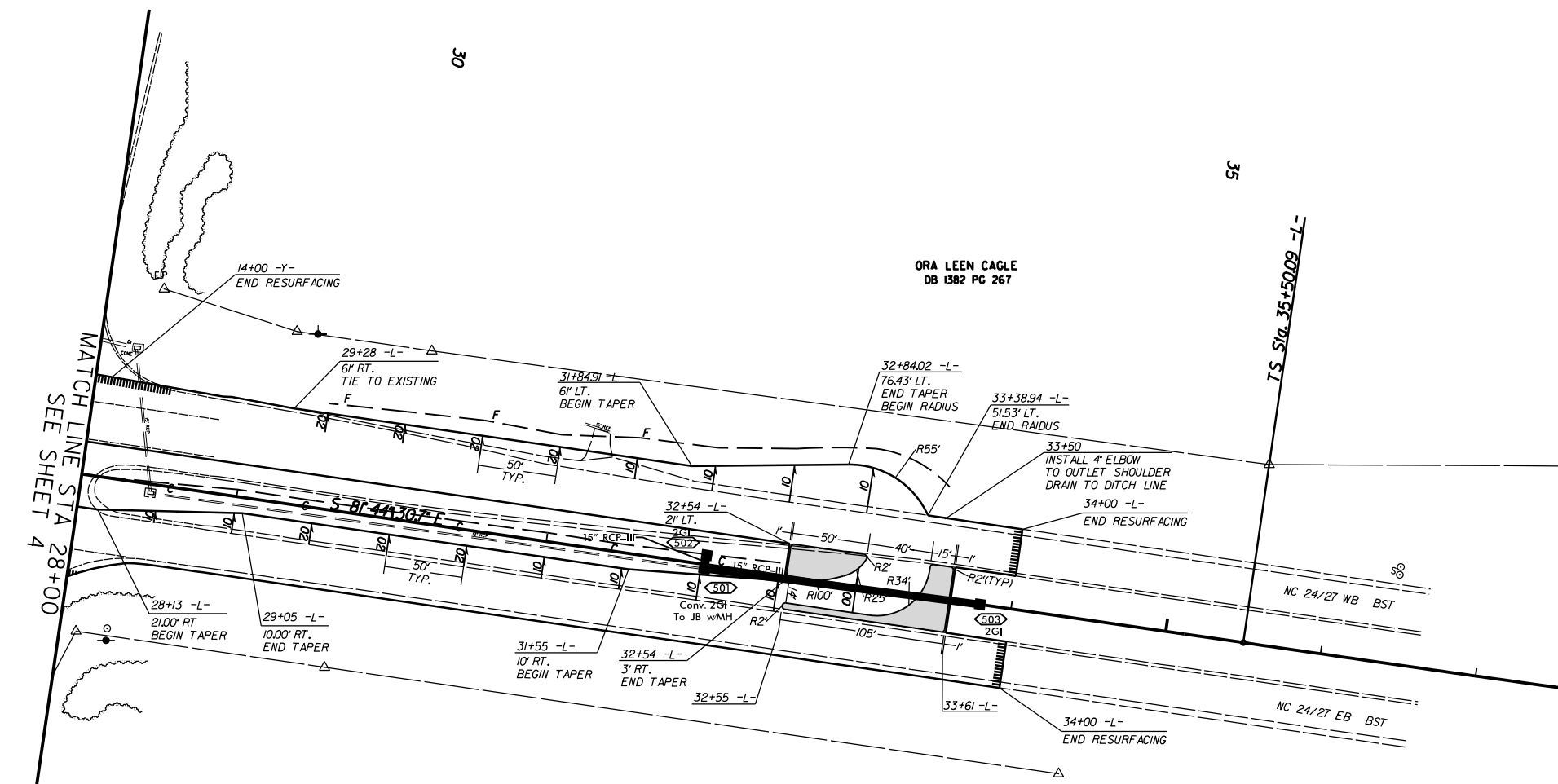


PAVEMENT REMOVAL AREA

RCI AT INTERSECTION OF NC HWY. 24-27  
AND PINE BLUFF/REED MINE RD. (SR-1100)

SCALE	1"=50'		REVISIONS
DATE	10-2023		
DWG. BY	VSC		
DESIGN BY	TBL		
APPROVED	JDH		


ROADWAY DESIGN  
ENGINEER  
11/30/2023  
PROFESSIONAL  
SEAL  
042673  
J. J. ...



INSTALL MATTING FOR  
EROSION CONTROL IN THE  
PROPOSED DITCH LINE.  
  
32+00 TO 32+50 -L- LT

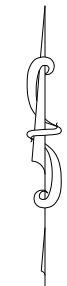
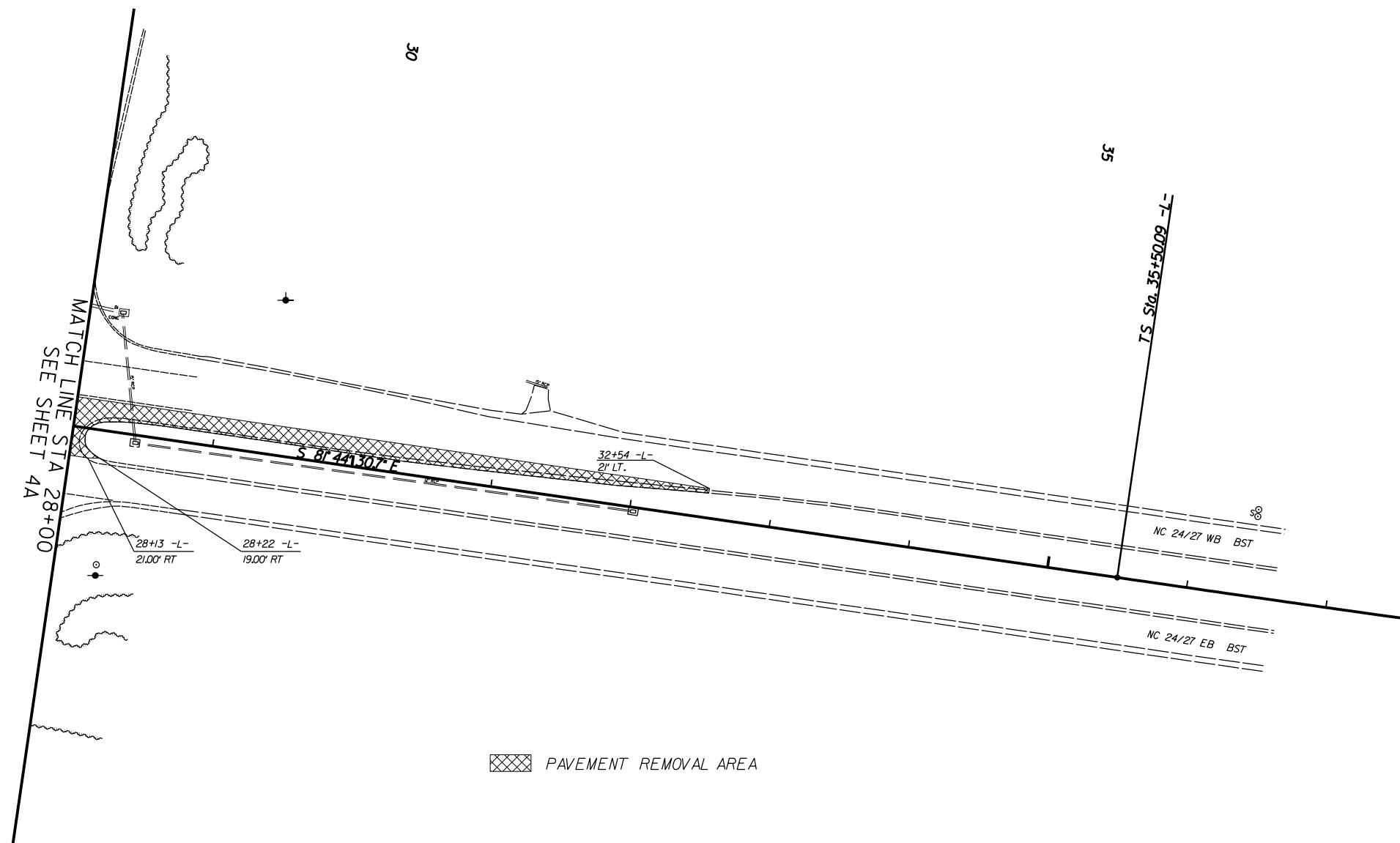
NOTE: INCIDENTAL MILL APPROX. 25' AT EACH  
TIE IN TO PROVIDE A SMOOTH TRANSITION  
TO THE EXISTING ASPHALT PAVEMENT.

RCI AT INTERSECTION OF NC HWY. 24-27  
AND PINE BLUFF/REED MINE RD. (SR-1100)


SCALE	1"=50'		REVISIONS
DATE	10-2023		
DWG. BY	VSC		
DESIGN BY	TBL		
APPROVED	JDH		

PROJECT NO.	SHEET NO.
49291.3.6	5A
F.A. PROJECT NO.	0024096

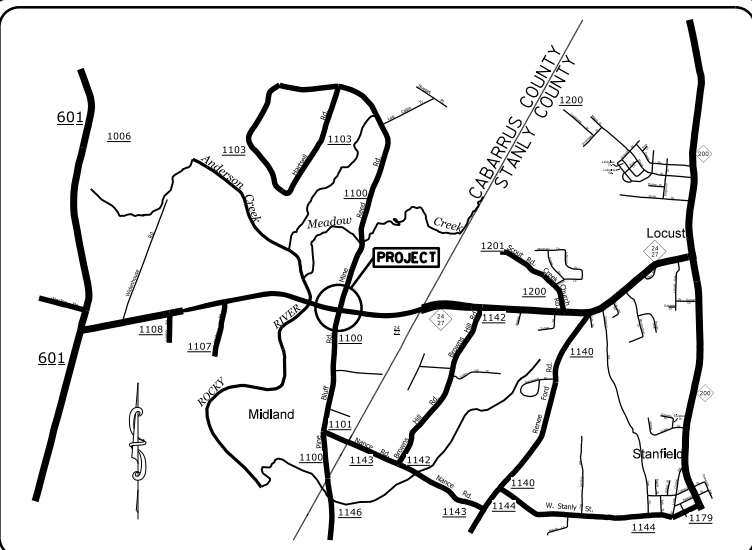
ROADWAY DESIGN  
ENGINEER  
11/30/2023  
PROFESSIONAL  
SEAL  
042673  
J. D. H. SEAL



RCI AT INTERSECTION OF NC HWY.24-27 AND PINE BLUFF/REED MINE RD.(SR-1100)

SCALE	1"=50'		REVISIONS
DATE	10-2023		
DWG. BY	VSC		
DESIGN BY	TBL		
APPROVED	JDH		

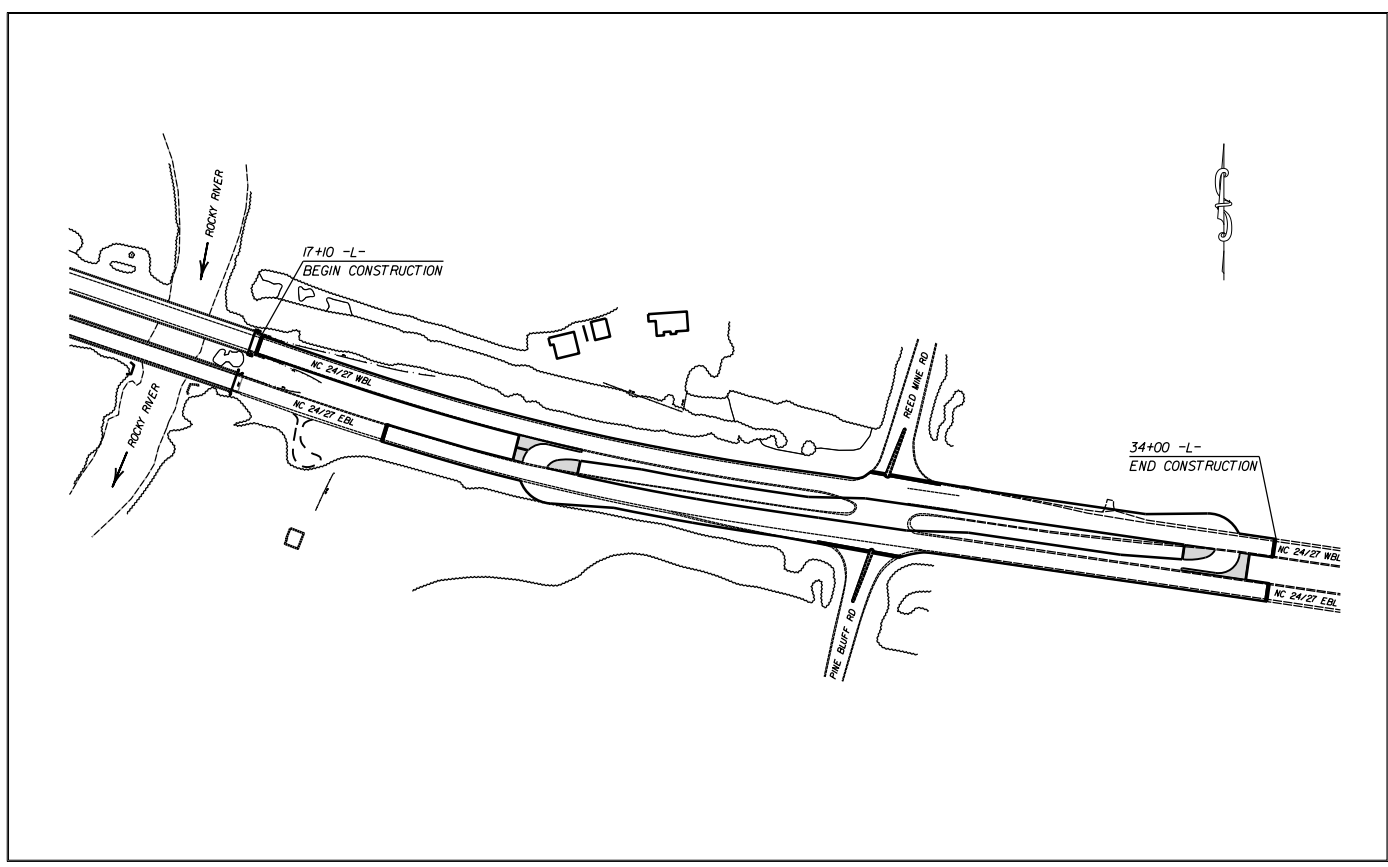
**TIP PROJECT: HS-2010F**



**VICINITY MAP**  
NOT TO SCALE

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**PLAN FOR PROPOSED  
HIGHWAY EROSION CONTROL**  
**CABARRUS COUNTY**

**LOCATION: INTERSECTION OF HWY. 24-27 AND  
PINE BLUFF/REED MINE RD. (SR-1100)**



INSTALL PERIMETER EROSION CONTROL MEASURES DURING INITIAL CLEARING PHASE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	49291.3.6	EC-1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
49291.1.6	0024096	P.E.	
49291.2.7	0024096	R/W	
49291.3.6	0024096	CONST.	

**EROSION AND SEDIMENT CONTROL MEASURES**

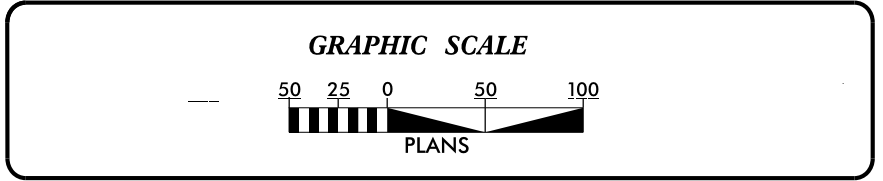
Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	
1630.05	Temporary Diversion	
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle/Coir Fiber Wattle	
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	
1632.02	Type B	
1632.03	Type C	
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

THIS PROJECT CONTAINS  
EROSION CONTROL PLANS  
FOR CLEARING AND  
GRUBBING PHASE OF  
CONSTRUCTION.

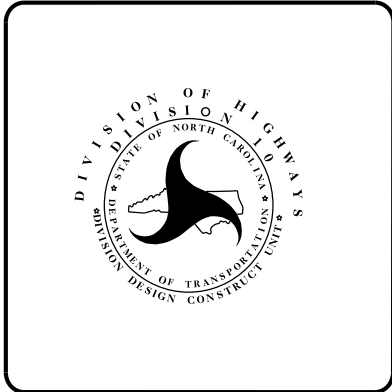
HIGH QUALITY WATERS(S) EXIST  
ON THIS PROJECT

High Quality Water Zone(s) Exist
From Sta. <u>                    </u> BEGIN PROJECT
to Sta. <u>                    </u> END PROJECT

Refer To E. C. Special Provisions  
for Special Considerations.



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.



Prepared In the Office of:  
**DDC UNIT DIVISION 10**  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

Designed by:

**TRAVIS LOWDER** **4395**  
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

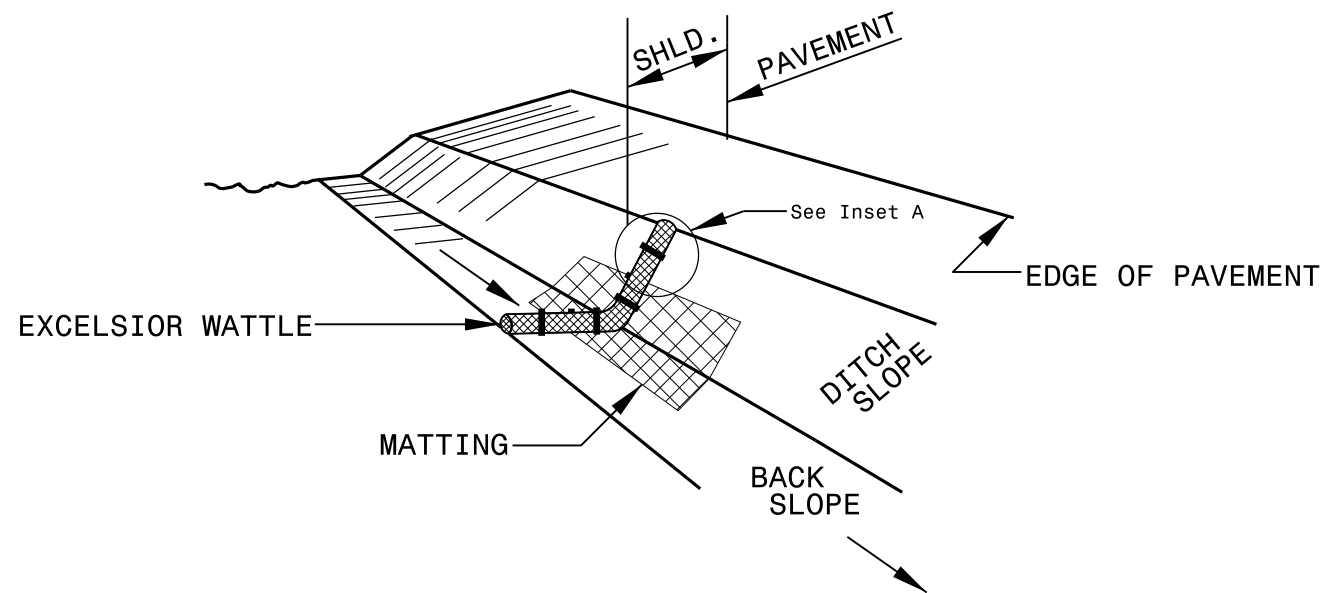
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type J
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type J
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type J	1634.02 Temporary Rock Sediment Dam Type J
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type J
1630.05 Temporary Diversion	1640.01 Coir Fiber Jaffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

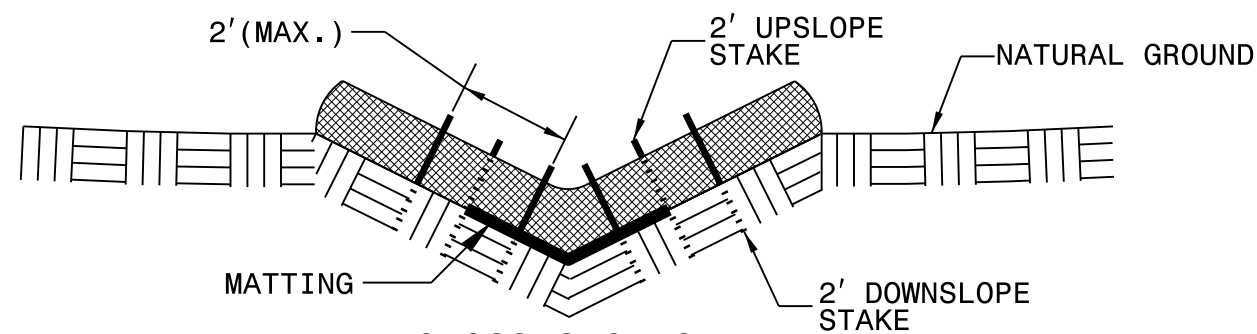
I:\AUC-2017\_HSE\24-27-Pine Bluff\EROSION\HS-2010F\_NC\_24-27\_Pine Bluff\_RCI.LEC.TSH.dgn 24-27-Pine Bluff\EROSION\HS-2010F\_NC\_24-27\_Pine Bluff\_RCI.LEC.TSH.dgn

# WATTLE DETAIL

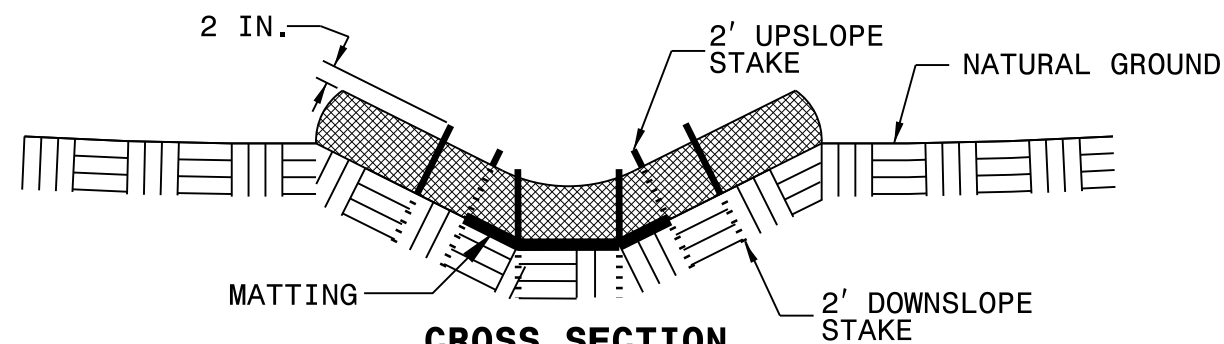
PROJECT NO.	SHEET NO.
4929L3.6	EC-2
F.A. PROJECT NO.	0024096



**ISOMETRIC VIEW**



**CROSS SECTION  
VEE DITCH**



**CROSS SECTION  
TRAPEZOIDAL DITCH**

**NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

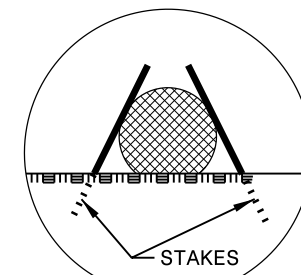
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

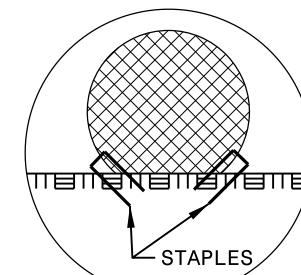
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

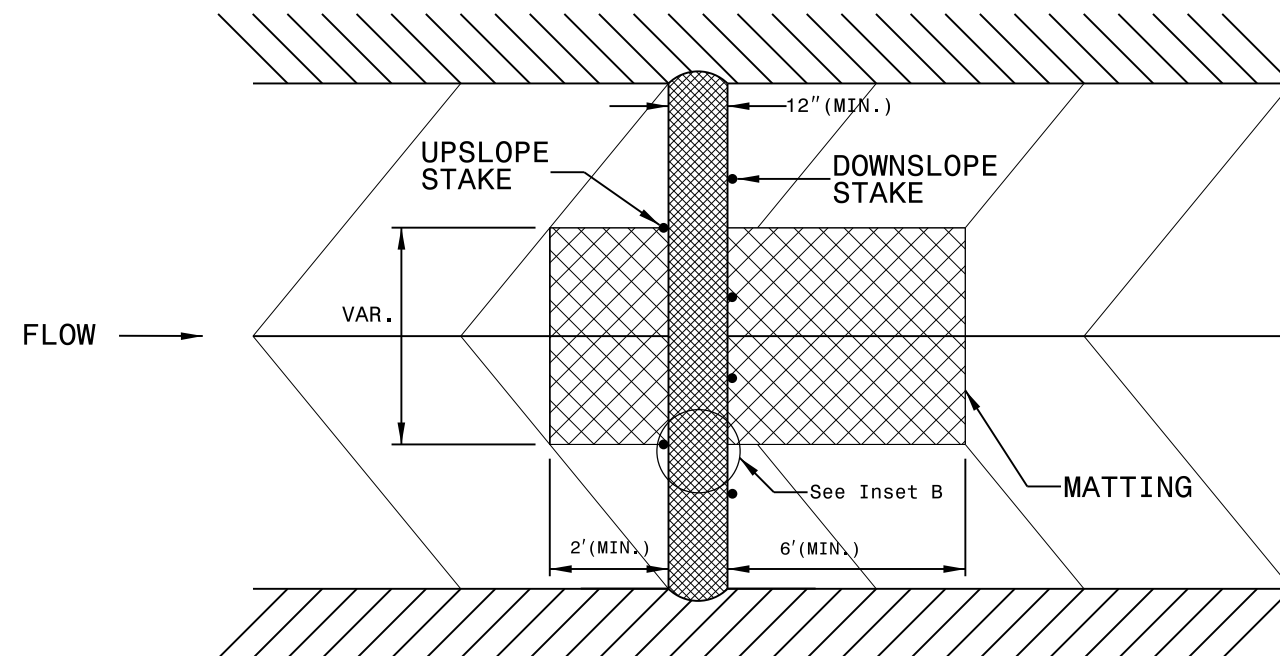
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



**INSET A**



**INSET B**

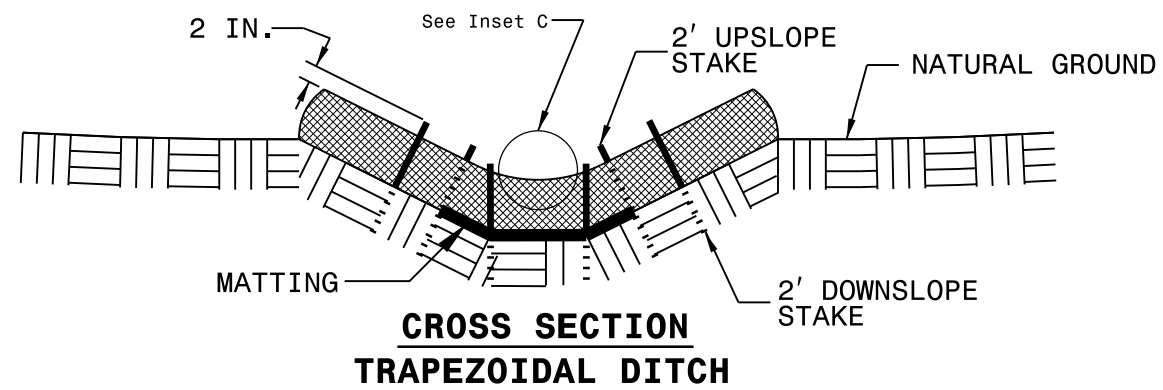
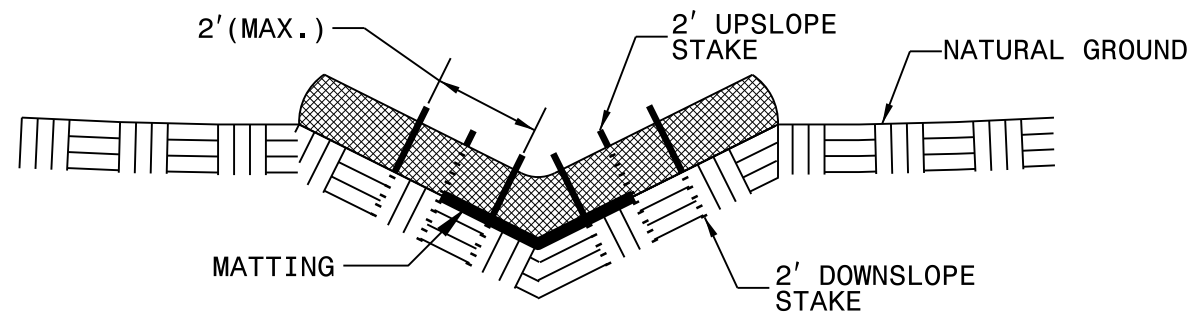
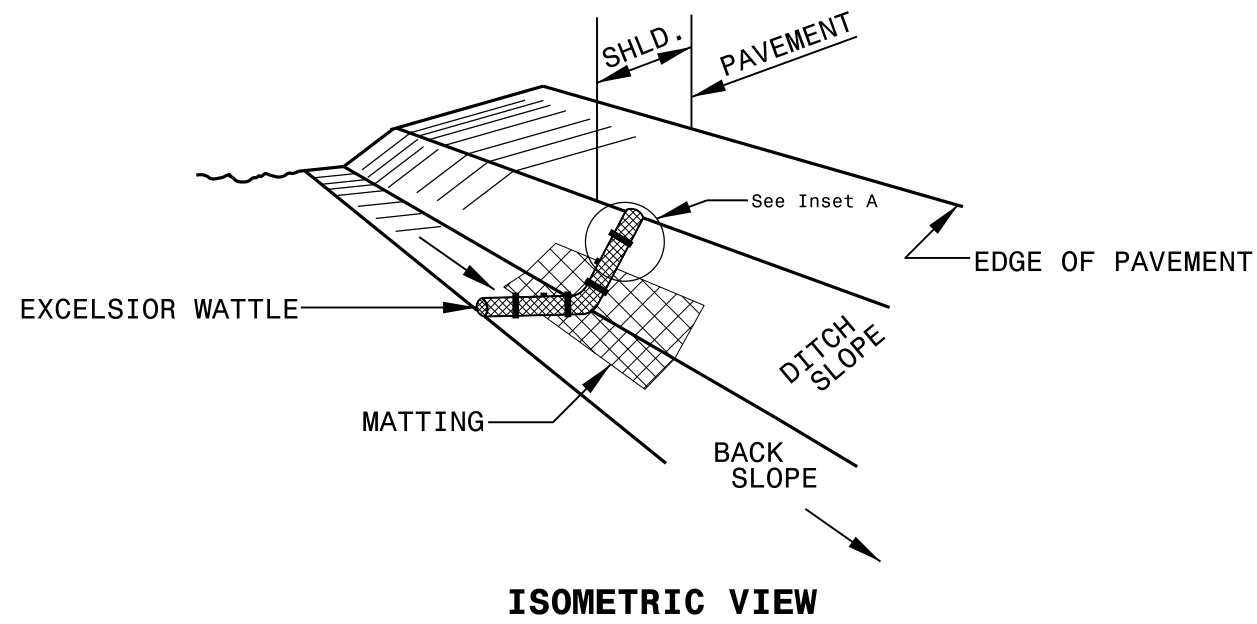


**TOP VIEW**



# WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

PROJECT NO.	SHEET NO.
49291.3.6	EC-2A
F.A. PROJECT NO.	0024096



**NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

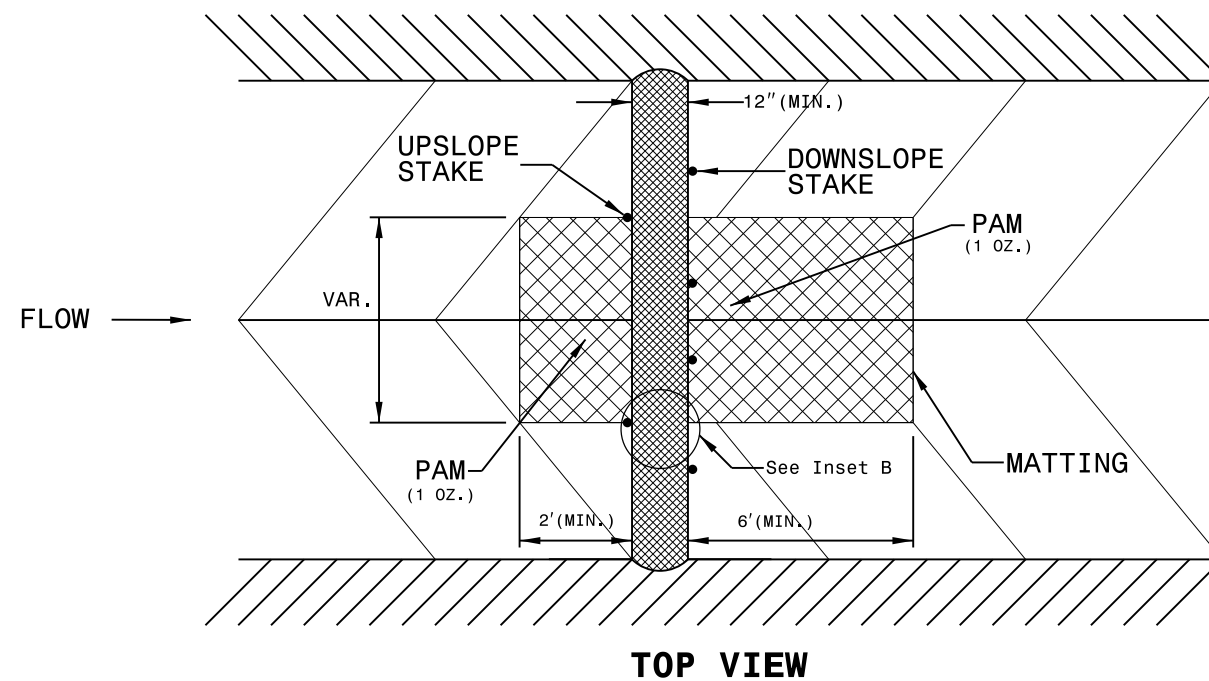
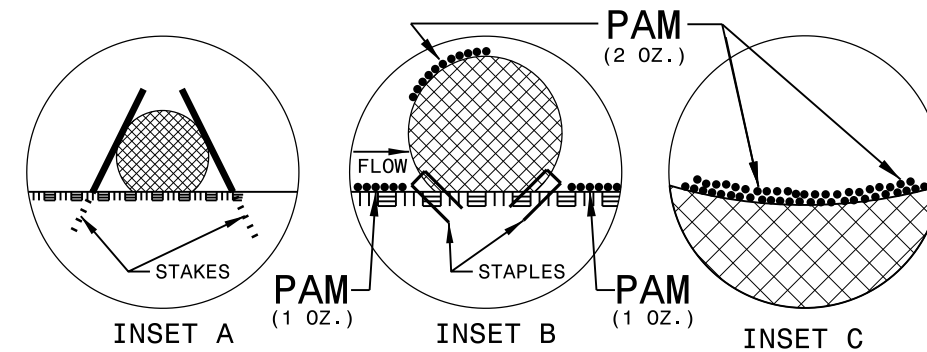
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

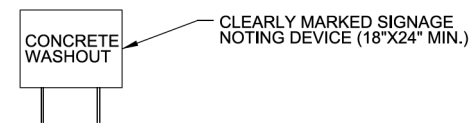
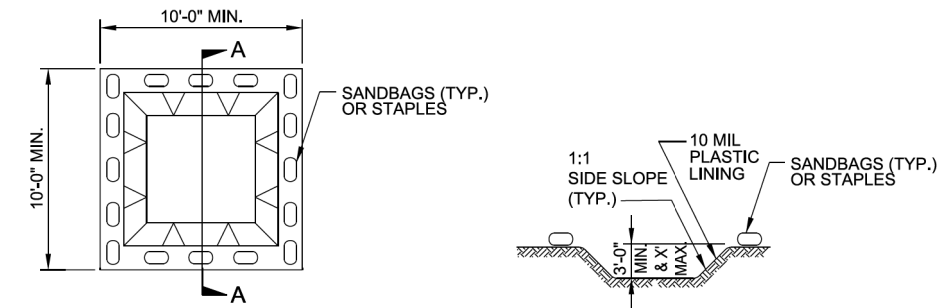
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



### ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER

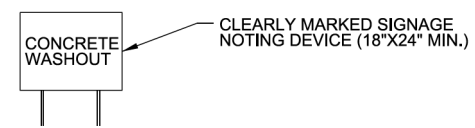
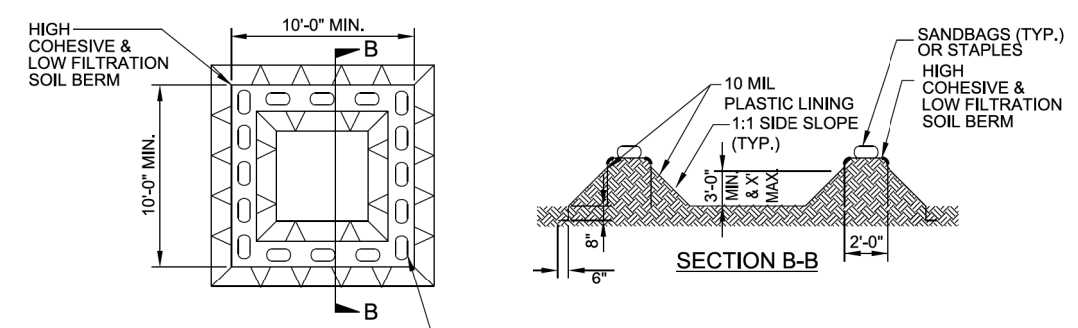


#### SECTION A-A

- NOTES:**
1. ACTUAL LOCATION DETERMINED IN FIELD
  2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
  3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

PLAN

### BELOW GRADE WASHOUT STRUCTURE NOT TO SCALE



#### SECTION B-B

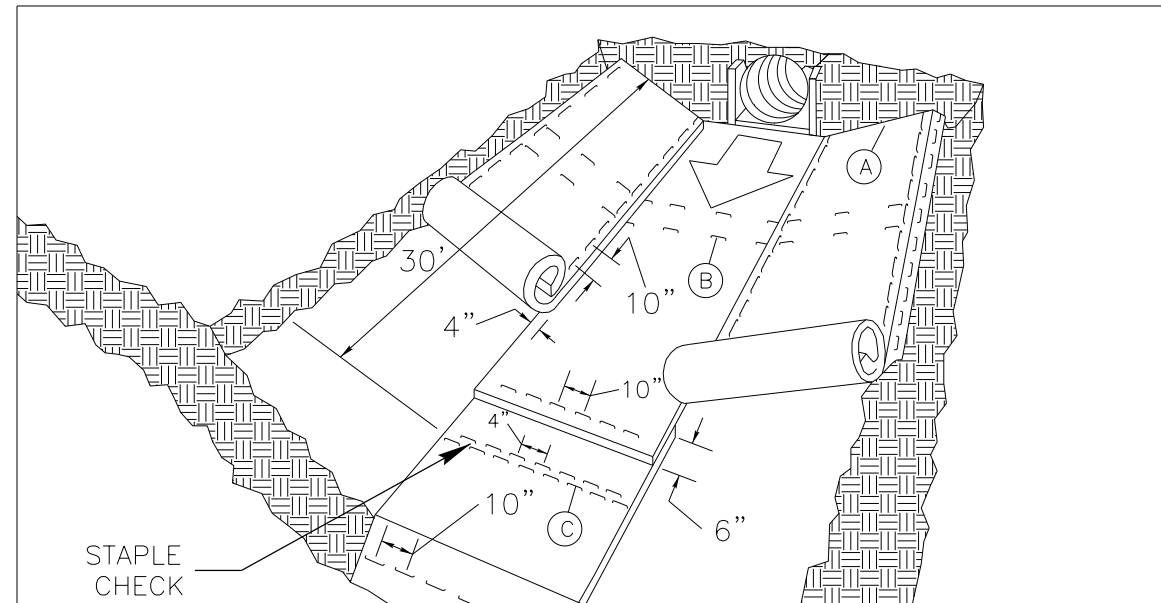
- NOTES:**
1. ACTUAL LOCATION DETERMINED IN FIELD
  2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
  3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

PLAN

### ABOVE GRADE WASHOUT STRUCTURE NOT TO SCALE

# MATTING INSTALLATION DETAIL

PROJECT NO.	SHEET NO.
49291.3.6	EC-2C
F.A. PROJECT NO.	0024096



**MATTING IN DITCHES**

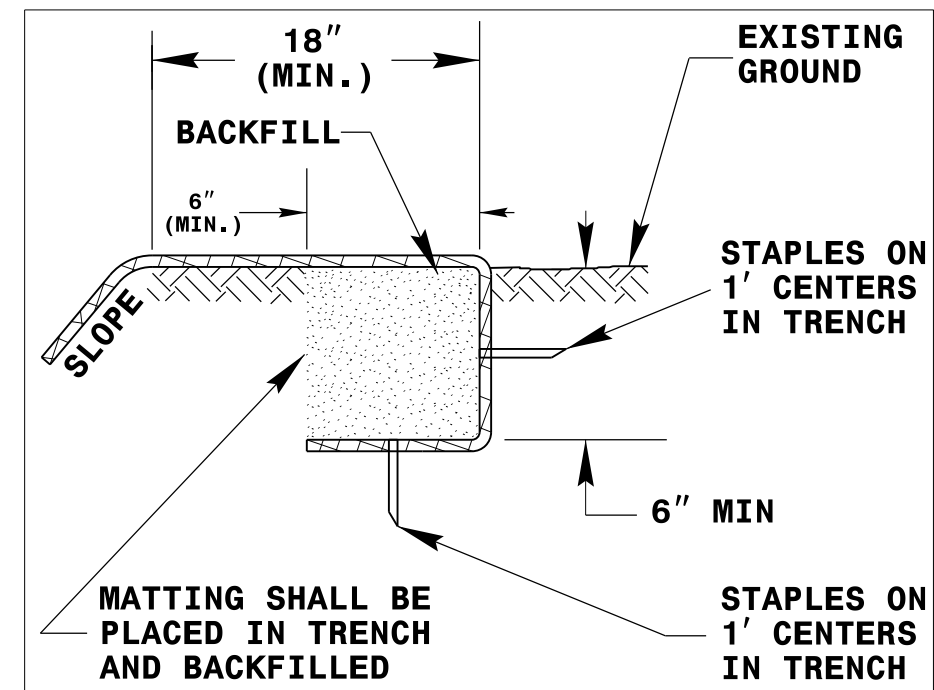
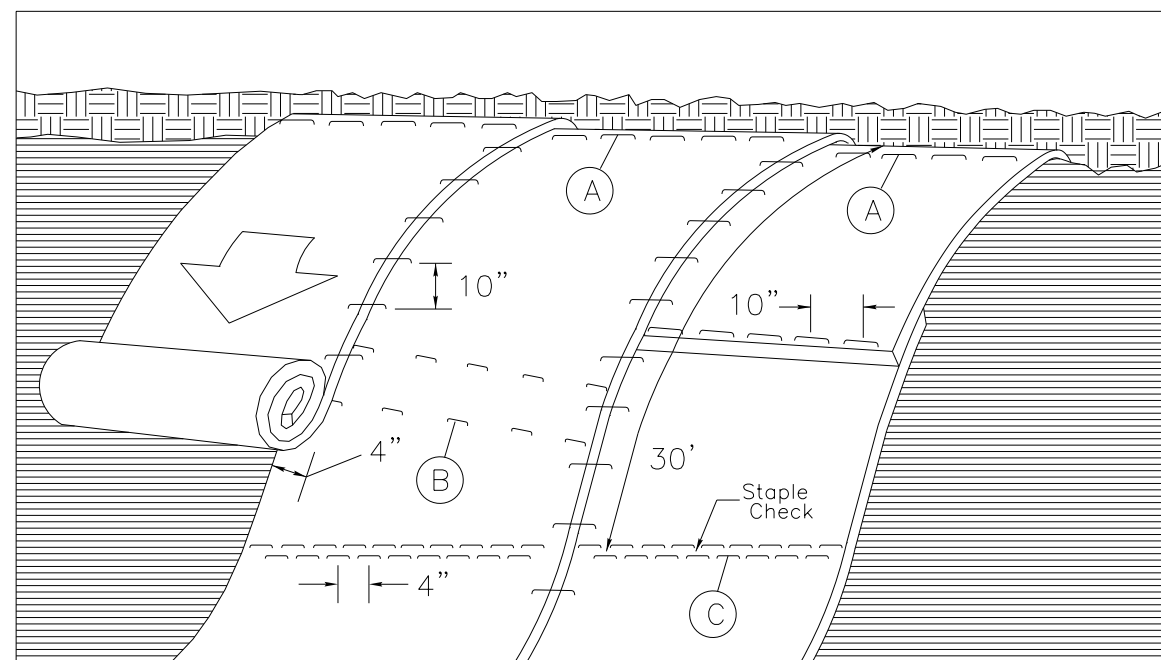


DIAGRAM (A)



**MATTING ON SLOPES**

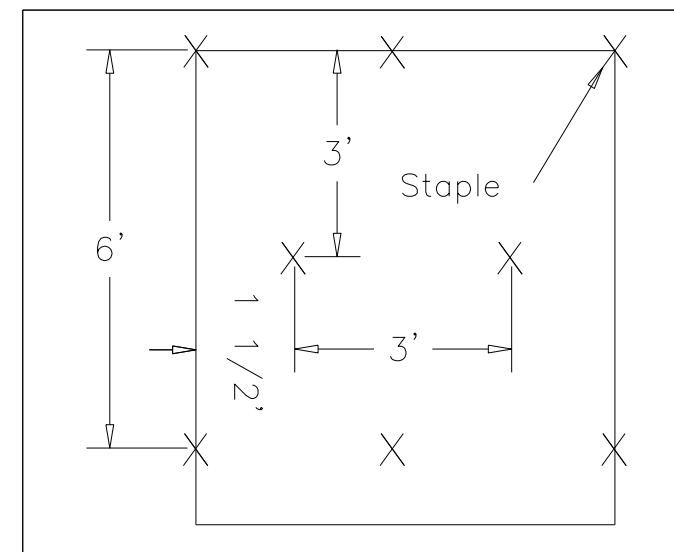


DIAGRAM B

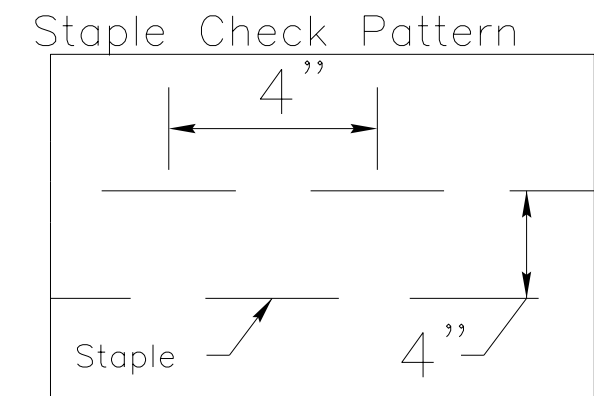


DIAGRAM (C)

**NOTES:**

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

---



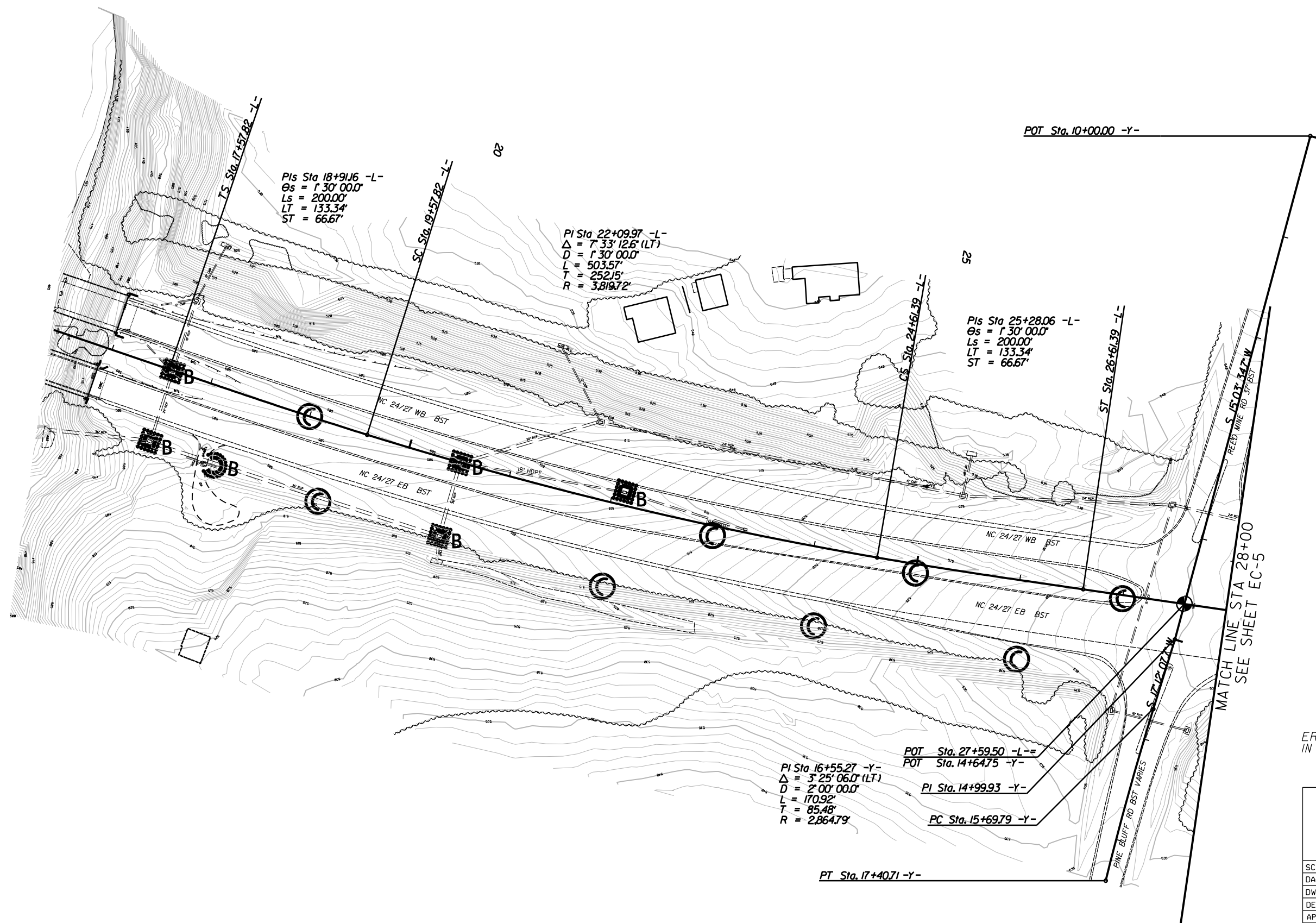
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# *SOIL STABILIZATION TIMEFRAMES*

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.


# CLEARING & GRUBBING PHASE

PROJECT NO.	SHEET NO.
49291.3.6	EC-4
F.A. PROJECT NO.	0024096



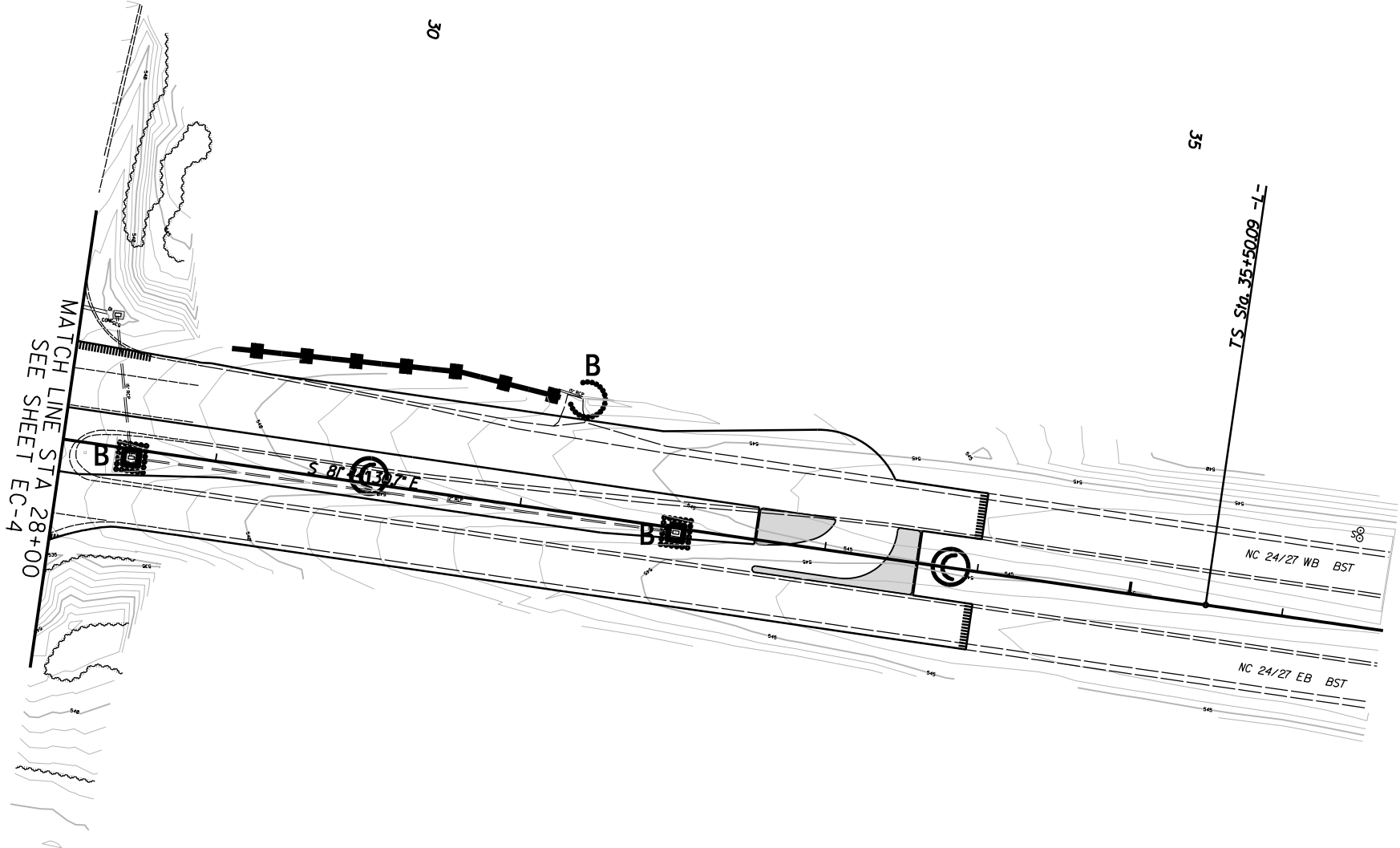
EROSION CONTROL MEASURES MAY BE CHANGED IN FIELD AS DIRECTED BY THE ENGINEER

RCI AT INTERSECTION OF NC HWY. 24-27 AND PINE BLUFF/REED MINE RD.(SR-1100)

SCALE	1"=50'		REVISIONS
DATE	10-2023		
DWG. BY	VSC		
DESIGN BY	TBL		
APPROVED	JDH		


# CLEARING & GRUBBING PHASE

PROJECT NO.	SHEET NO.
49291.3.6	EC-5
F.A. PROJECT NO.	0024096



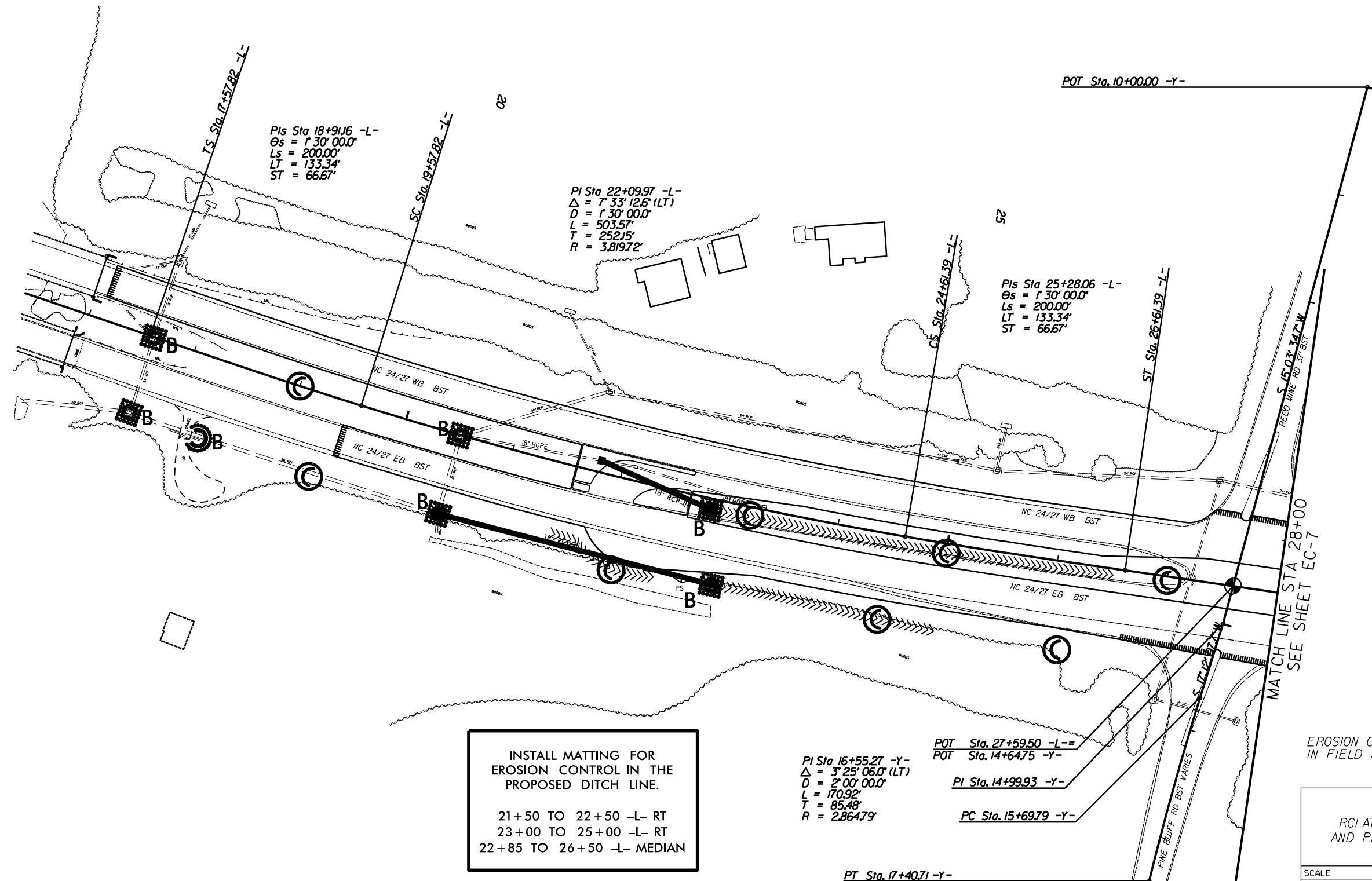
EROSION CONTROL MEASURES MAY BE CHANGED IN FIELD AS DIRECTED BY THE ENGINEER

RCI AT INTERSECTION OF NC HWY.24-27 AT PINE BLUFF/REED MINE RD.(SR-1100)

SCALE	1"=50'		REVISIONS
DATE	10-2023		
DWG. BY	VSC		
DESIGN BY	TBL		
APPROVED	JDH		

# CONSTRUCTION PHASE

PROJECT NO.	SHEET NO.
49291.3.6	EC-6
F.A. PROJECT NO.	0024096



PIs Sta 18+91.16 -L-  
 $\theta_s = 1' 30'' 00.0''$   
 $L_s = 200.00'$   
 $LT = 133.34'$   
 $ST = 66.67'$

PI Sta 22+09.97 -L-  
 $\Delta = 7' 33'' 12.6''$  (LT)  
 $D = 1' 30'' 00.0''$   
 $L = 503.57'$   
 $T = 252.15'$   
 $R = 3,819.72'$

PIs Sta 25+28.06 -L-  
 $\theta_s = 1' 30'' 00.0''$   
 $L_s = 200.00'$   
 $LT = 133.34'$   
 $ST = 66.67'$


PI Sta 16+55.27 -Y-  
 $\Delta = 3' 25'' 06.0''$  (LT)  
 $D = 2' 00'' 00.0''$   
 $L = 170.92'$   
 $T = 85.46'$   
 $R = 2,864.79'$

POT Sta. 27+59.50 -L-=  
 POT Sta. 14+64.75 -Y-  
 PI Sta. 14+99.93 -Y-  
 PC Sta. 15+69.79 -Y-

INSTALL MATTING FOR  
 EROSION CONTROL IN THE  
 PROPOSED DITCH LINE.  
  
 21+50 TO 22+50 -L- RT  
 23+00 TO 25+00 -L- RT  
 22+85 TO 26+50 -L- MEDIAN

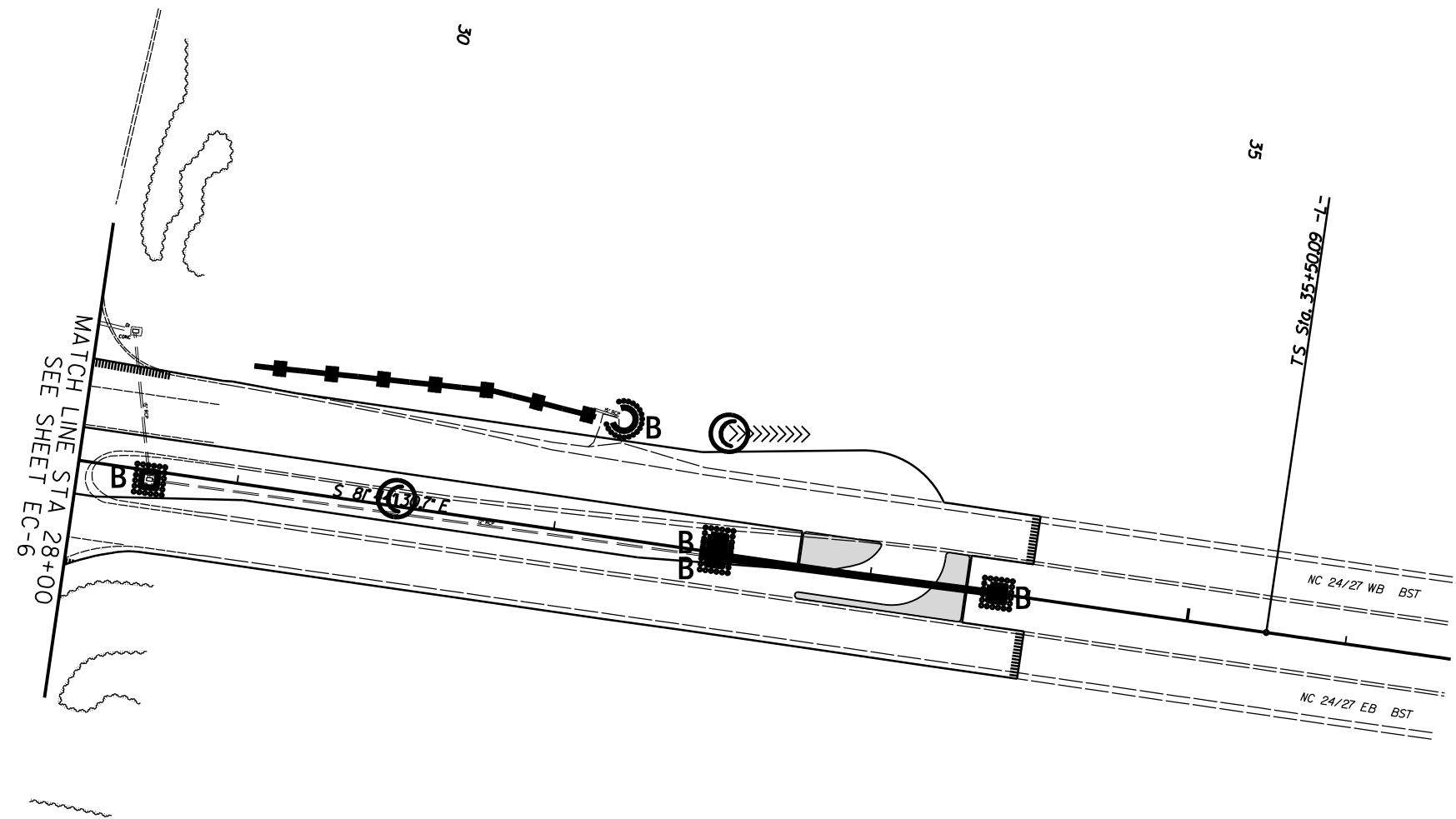
EROSION CONTROL MEASURES MAY BE CHANGED  
 IN FIELD AS DIRECTED BY THE ENGINEER

RCI AT INTERSECTION OF NC HWY.24-27  
 AND PINE BLUFF/REED MINE RD.(SR-1100)

SCALE	1"=50'		REVISIONS
DATE	10-2023		
DWG. BY	VSC		
DESIGN BY	TBL		
APPROVED	JDH		

PROJECT NO.	SHEET NO.
49291.3.6	EC-7
F.A. PROJECT NO.	0024096


# CONSTRUCTION PHASE



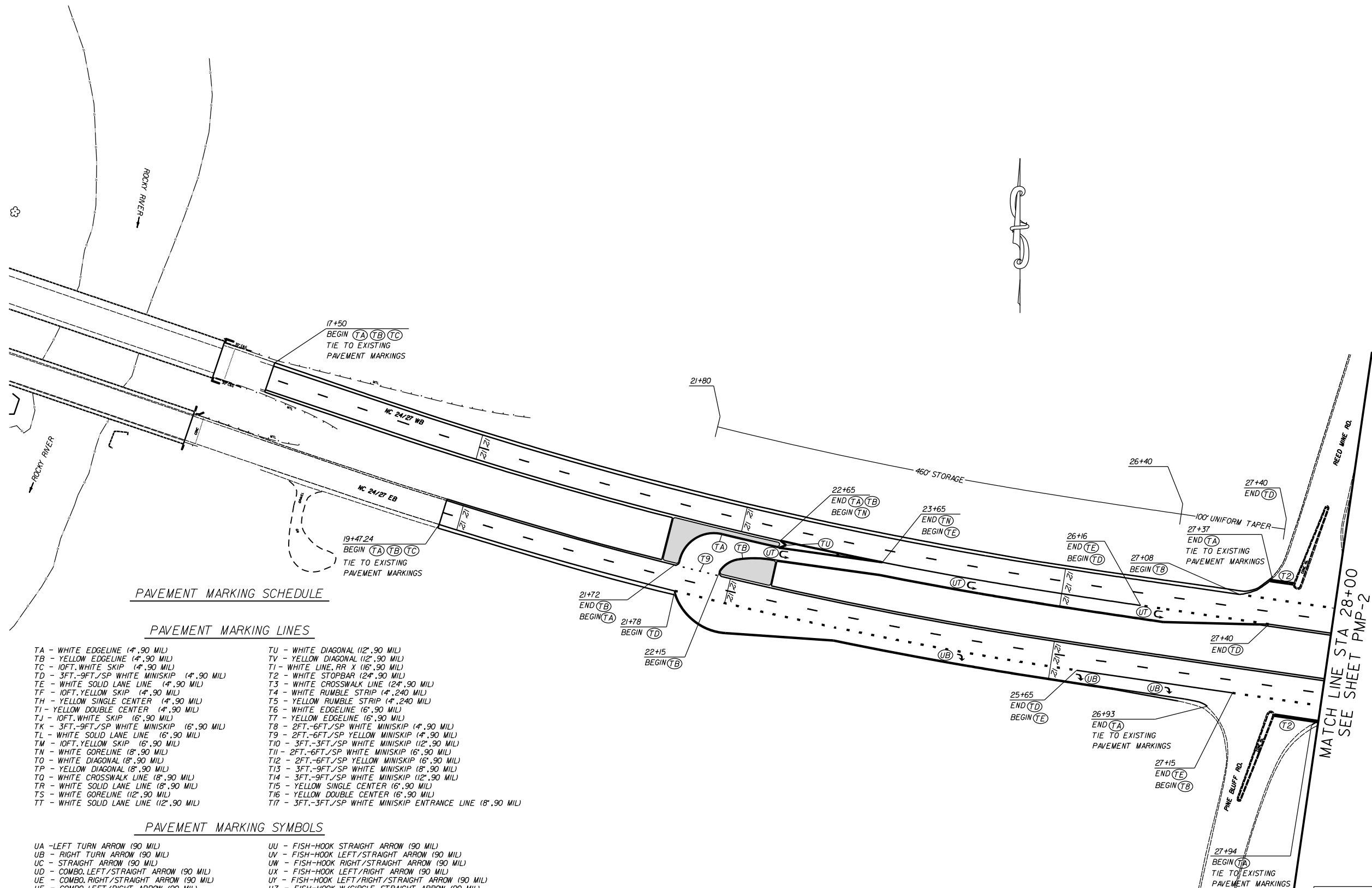
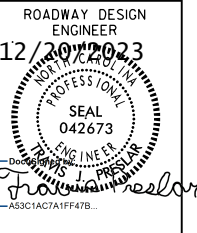
INSTALL MATTING FOR  
EROSION CONTROL IN THE  
PROPOSED DITCH LINE.  
32+00 TO 32+50 -L- LT

EROSION CONTROL MEASURES MAY BE CHANGED  
IN FIELD AS DIRECTED BY THE ENGINEER

RCI AT INTERSECTION OF NC HWY. 24-27  
AND PINE BLUFF/REED MINE RD. (SR-1100)

SCALE	1"=50'		REVISIONS
DATE	10-2023		
DWG. BY	VSC		
DESIGN BY	TBL		
APPROVED	JDH		





**PAVEMENT MARKING SCHEDULE**

**PAVEMENT MARKING LINES**

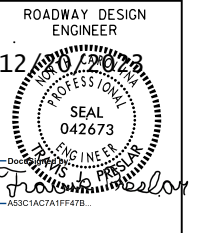
- |                                              |                                                             |
|----------------------------------------------|-------------------------------------------------------------|
| TA - WHITE EDGELINE (4'.90 MIL)              | TU - WHITE DIAGONAL (12'.90 MIL)                            |
| TB - YELLOW EDGELINE (4'.90 MIL)             | TV - YELLOW DIAGONAL (12'.90 MIL)                           |
| TC - 10FT. WHITE SKIP (4'.90 MIL)            | T1 - WHITE LINE, RR X (16'.90 MIL)                          |
| TD - 3FT.-9FT./SP WHITE MINISKIP (4'.90 MIL) | T2 - WHITE STOPBAR (24'.90 MIL)                             |
| TE - WHITE SOLID LANE LINE (4'.90 MIL)       | T3 - WHITE CROSSWALK LINE (24'.90 MIL)                      |
| TF - 10FT. YELLOW SKIP (4'.90 MIL)           | T4 - WHITE RUMBLE STRIP (4".240 MIL)                        |
| TH - YELLOW SINGLE CENTER (4'.90 MIL)        | T5 - YELLOW RUMBLE STRIP (4".240 MIL)                       |
| TI - YELLOW DOUBLE CENTER (4'.90 MIL)        | T6 - WHITE EDGELINE (6'.90 MIL)                             |
| TJ - 10FT. WHITE SKIP (6'.90 MIL)            | T7 - YELLOW EDGELINE (6'.90 MIL)                            |
| TK - 3FT.-9FT./SP WHITE MINISKIP (6'.90 MIL) | T8 - 2FT.-6FT./SP WHITE MINISKIP (4'.90 MIL)                |
| TL - WHITE SOLID LANE LINE (6'.90 MIL)       | T9 - 2FT.-6FT./SP YELLOW MINISKIP (4'.90 MIL)               |
| TM - 10FT. YELLOW SKIP (6'.90 MIL)           | T10 - 3FT.-3FT./SP WHITE MINISKIP (12'.90 MIL)              |
| TN - WHITE GORELINE (8'.90 MIL)              | T11 - 2FT.-6FT./SP WHITE MINISKIP (6'.90 MIL)               |
| TO - WHITE DIAGONAL (8'.90 MIL)              | T12 - 2FT.-6FT./SP YELLOW MINISKIP (6'.90 MIL)              |
| TP - YELLOW DIAGONAL (8'.90 MIL)             | T13 - 3FT.-9FT./SP WHITE MINISKIP (8'.90 MIL)               |
| TQ - WHITE CROSSWALK LINE (8'.90 MIL)        | T14 - 3FT.-9FT./SP WHITE MINISKIP (12'.90 MIL)              |
| TR - WHITE SOLID LANE LINE (8'.90 MIL)       | T15 - YELLOW SINGLE CENTER (6'.90 MIL)                      |
| TS - WHITE GORELINE (12'.90 MIL)             | T16 - YELLOW DOUBLE CENTER (6'.90 MIL)                      |
| TT - WHITE SOLID LANE LINE (12'.90 MIL)      | T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8'.90 MIL) |

**PAVEMENT MARKING SYMBOLS**

- |                                                |                                                            |
|------------------------------------------------|------------------------------------------------------------|
| UA - LEFT TURN ARROW (90 MIL)                  | UU - FISH-HOOK STRAIGHT ARROW (90 MIL)                     |
| UB - RIGHT TURN ARROW (90 MIL)                 | UV - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL)                |
| UC - STRAIGHT ARROW (90 MIL)                   | UW - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL)               |
| UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL)       | UX - FISH-HOOK LEFT/RIGHT ARROW (90 MIL)                   |
| UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL)      | UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL)          |
| UF - COMBO. LEFT/RIGHT ARROW (90 MIL)          | UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL)            |
| UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL) |                                                            |
| UH - HANDICAP PARKING (90 MIL)                 | WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL)                |
| UI - ALPHANUMERIC CHAR. (90 MIL)               | WB - FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW (90 MIL)       |
| UJ - BICYCLE SYMBOL (90 MIL)                   | WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL) |
| UK - BICYCLE STRAIGHT ARROW (90 MIL)           |                                                            |
| UL - BICYCLE CHAR. (90 MIL)                    | MA - PERMANENT RAISED MARKER (YELLOW & YELLOW)             |
| UM - 12" YIELD LINE TRIANGLE (90 MIL)          | MB - PERMANENT RAISED MARKER (CRYSTAL & RED)               |
| UN - 24" YIELD LINE TRIANGLE (90 MIL)          | MC - PERMANENT RAISED MARKER (YELLOW & RED)                |
| UO - BICYCLE LEFT ARROW (90 MIL)               | MD - PERMANENT RAISED MARKER (YELLOW)                      |
| UP - MERGE ARROW (90 MIL)                      | ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW)                 |
| UQ - RAMP ARROW SYMBOL (90 MIL)                | MF - SNOWPLOWABLE MARKER (CRYSTAL & RED)                   |
| UR - SHARROW (90 MIL)                          | MG - SNOWPLOWABLE MARKER (YELLOW & RED)                    |
| US - BICYCLE LOOP DETECTOR (90 MIL)            | ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL)           |
| UT - U-TURN ARROW (90 MIL)                     | MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL)               |

RCI AT INTERSECTION OF NC HWY. 24-27 AND PINE BLUFF/REED MINE RD. (SR-1100)

SCALE	1"=50'		REVISIONS
DATE	10-2023		
DWG. BY	VSC		
DESIGN BY	TBL		
APPROVED	JDH		



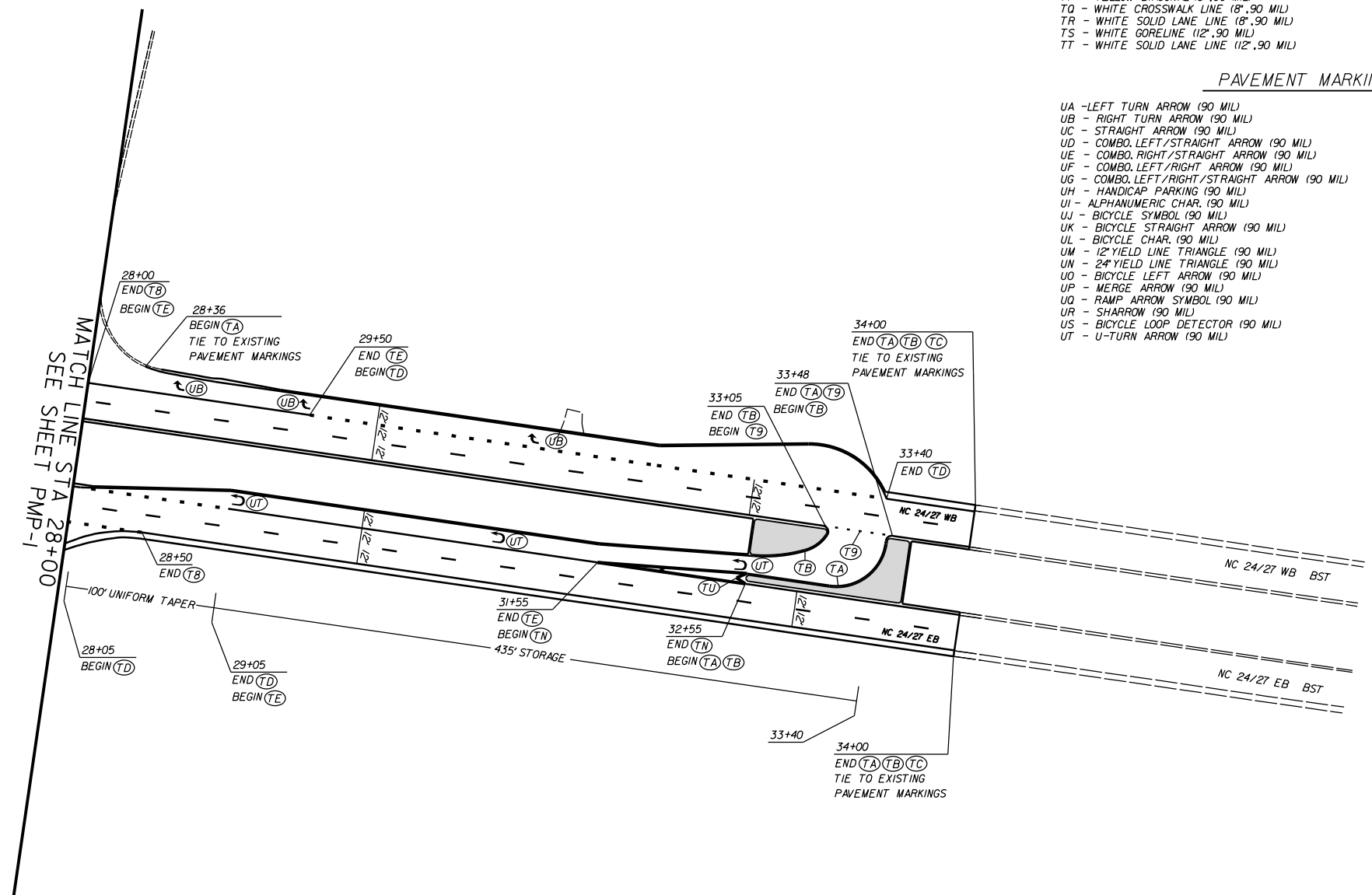
PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

- |                                              |                                                             |
|----------------------------------------------|-------------------------------------------------------------|
| TA - WHITE EDGELINE (4',90 MIL)              | TU - WHITE DIAGONAL (12',90 MIL)                            |
| TB - YELLOW EDGELINE (4',90 MIL)             | TV - YELLOW DIAGONAL (12',90 MIL)                           |
| TC - 10FT. WHITE SKIP (4',90 MIL)            | T1 - WHITE LINE, RR X (16',90 MIL)                          |
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| TE - WHITE SOLID LANE LINE (4',90 MIL)       | T3 - WHITE CROSSWALK LINE (24',90 MIL)                      |
| TF - 10FT. YELLOW SKIP (4',90 MIL)           | T4 - WHITE RUMBLE STRIP (4',240 MIL)                        |
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| TL - WHITE SOLID LANE LINE (6',90 MIL)       | T9 - 2FT.-6FT./SP YELLOW MINISKIP (4',90 MIL)               |
| TM - 10FT. YELLOW SKIP (6',90 MIL)           | T10 - 3FT.-3FT./SP WHITE MINISKIP (12',90 MIL)              |
| TN - WHITE GORELINE (8',90 MIL)              | T11 - 2FT.-6FT./SP WHITE MINISKIP (6',90 MIL)               |
| TO - WHITE DIAGONAL (8',90 MIL)              | T12 - 2FT.-6FT./SP YELLOW MINISKIP (6',90 MIL)              |
| TP - YELLOW DIAGONAL (8',90 MIL)             | T13 - 3FT.-9FT./SP WHITE MINISKIP (8',90 MIL)               |
| TQ - WHITE CROSSWALK LINE (8',90 MIL)        | T14 - 3FT.-9FT./SP WHITE MINISKIP (12',90 MIL)              |
| TR - WHITE SOLID LANE LINE (8',90 MIL)       | T15 - YELLOW SINGLE CENTER (6',90 MIL)                      |
| TS - WHITE GORELINE (12',90 MIL)             | T16 - YELLOW DOUBLE CENTER (6',90 MIL)                      |
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PAVEMENT MARKING SYMBOLS

- |                                                |                                                            |
|------------------------------------------------|------------------------------------------------------------|
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| UB - RIGHT TURN ARROW (90 MIL)                 | UV - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL)                |
| UC - STRAIGHT ARROW (90 MIL)                   | UW - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL)               |
| UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL)       | UX - FISH-HOOK LEFT/RIGHT ARROW (90 MIL)                   |
| UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL)      | UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL)          |
| UF - COMBO. LEFT/RIGHT ARROW (90 MIL)          | UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL)            |
| UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL) |                                                            |
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| UN - 24' YIELD LINE TRIANGLE (90 MIL)          | MC - PERMANENT RAISED MARKER (YELLOW & RED)                |
| UO - BICYCLE LEFT ARROW (90 MIL)               | MD - PERMANENT RAISED MARKER (YELLOW)                      |
| UP - MERGE ARROW (90 MIL)                      | ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW)                 |
| UQ - RAMP ARROW SYMBOL (90 MIL)                | MF - SNOWPLOWABLE MARKER (CRYSTAL & RED)                   |
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| UT - U-TURN ARROW (90 MIL)                     | MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL)               |



RCI AT INTERSECTION OF NC HWY. 24-27  
AND PINE BLUFF/REED MINE RD. (SR-1100)

SCALE	1"=50'		REVISIONS
DATE	10-2023		
DWG. BY	VSC		
DESIGN BY	TBL		
APPROVED	JDH		

**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
CABARRUS COUNTY**

**LOCATION: RCI AT NC24/27 & PINE BLUFF RD / REED MINE RD**

PROJECT REFERENCE NO. <b>HS-2010F</b>	SHEET NO. <b>SIGN-01</b>
DocuSigned by:  6470B418C886461	
APPROVED: _____	
DATE: 11/02/2023	
SEAL	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

T.I.P.: HS-2010F

**ROADWAY STANDARD DRAWING**

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS
910.30	SIGNING SIGNALIZED AND UNSIGNALIZED SUPERSTREET
910.50	SIGNING FOR SPEED REDUCTION ZONE

**SUMMARY OF QUANTITIES**

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4025000000	901	CONTRACTOR FURNISHED, TYPE E SIGN	238	S.F.
4025000000	901	CONTRACTOR FURNISHED, TYPE F SIGN	125	S.F.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	850	L.F.
4102000000	904	SIGN ERECTION, TYPE E	33	EA.
4108000000	904	SIGN ERECTION, TYPE F	8	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	28	EA.

**GENERAL NOTES**

- . SIGNS FURNISHED BY CONTRACTOR
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

**PROJECT NOTES**

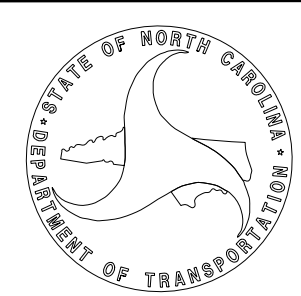
- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL

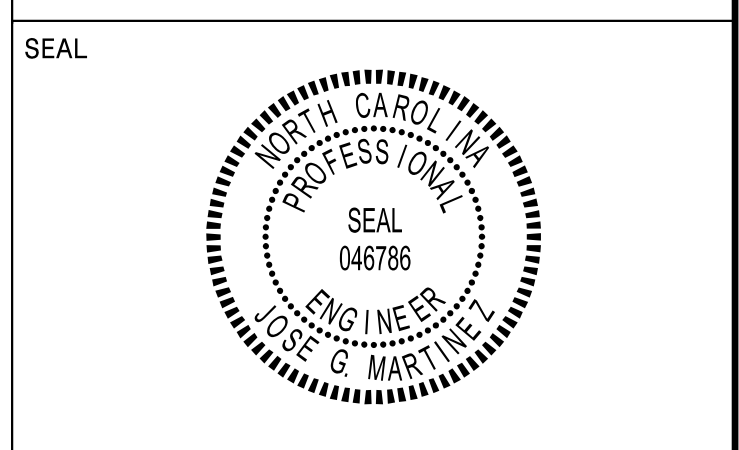
**INDEX**

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2 & 3	E AND F SHEETS
SIGN-4-5	SIGNING PLAN SHEETS

PLAN PREPARED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

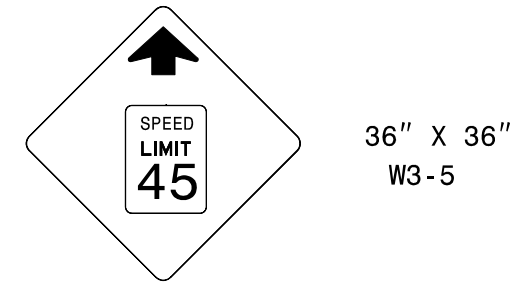
K. L. JORDAN      SIGNING & DELINEATION REGIONAL ENGINEER  
 J. G. MARTINEZ, PE      SIGNING & DELINEATION PROJECT DESIGN ENGINEER





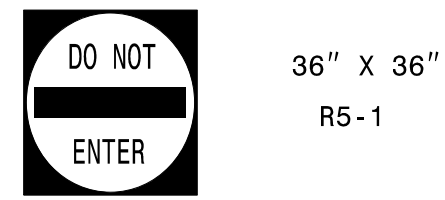
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**

401 QUANTITY REQ'D 2



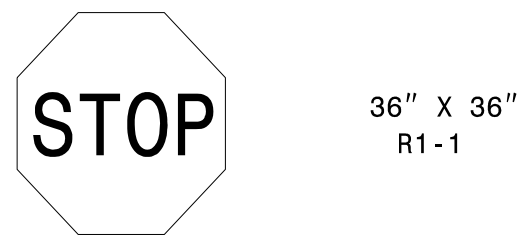
ONE "U" POST PER SIGN

406 QUANTITY REQ'D 4



ONE "U" POST PER SIGN

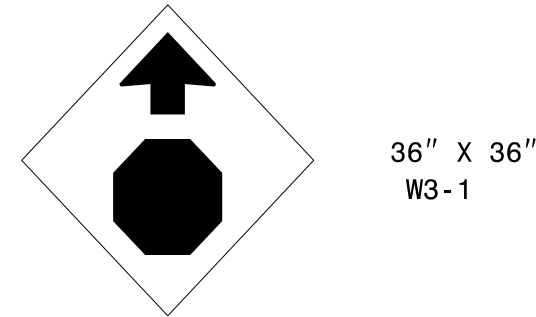
411 QUANTITY REQ'D 4



MOUNT BELOW SIGN 404  
 IN 2 INSTALLATIONS

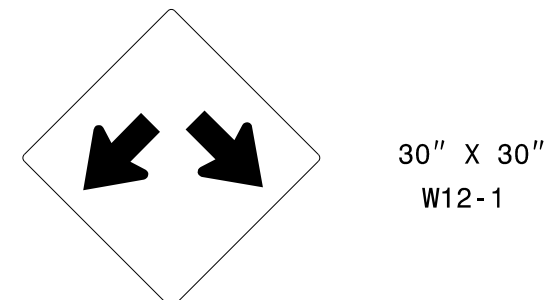
ONE "U" POST PER SIGN

402 QUANTITY REQ'D 2



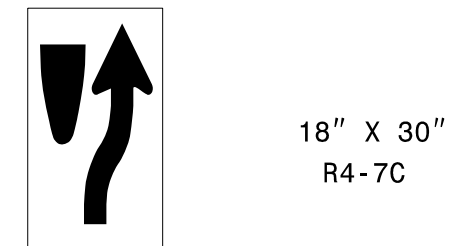
ONE "U" POST PER SIGN

407 QUANTITY REQ'D 2



ONE "U" POST PER SIGN

412 QUANTITY REQ'D 2



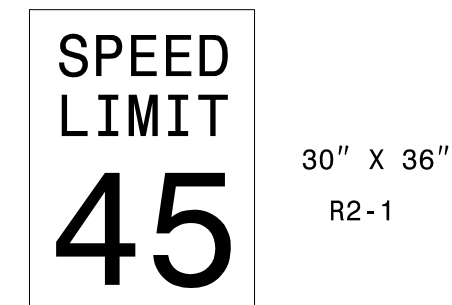
ONE "U" POST PER SIGN

403 QUANTITY REQ'D 2



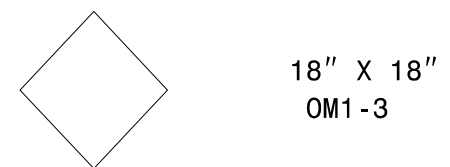
TWO "U" POSTS PER SIGN

408 QUANTITY REQ'D 3



ONE "U" POST PER SIGN

413 QUANTITY REQ'D 2



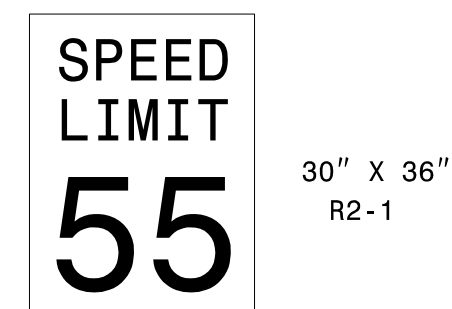
MOUNT BELOW SIGN 412  
 IN 2 INSTALLATIONS

404 QUANTITY REQ'D 2



TWO "U" POSTS PER SIGN

409 QUANTITY REQ'D 2



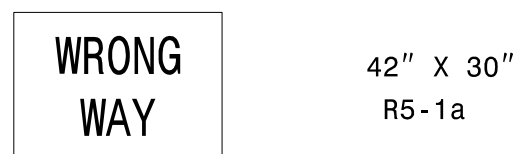
ONE "U" POST PER SIGN

405 QUANTITY REQ'D 2



TWO "U" POSTS PER SIGN


410 QUANTITY REQ'D 4



ONE "U" POST PER SIGN



**TYPE "E" SIGNS**

501 502

WEST 24" X 12"  
 24 24" X 24"  
 27 24" X 24"  
 21" X 21"

ONE "U" POST

508

TO 24" X 12"  
 EAST WEST 2- 24" X 12"  
 24 24 2- 24" X 24"  
 27 27 2- 24" X 24"  
  2- 21" X 15"


TWO "U" POSTS

503

EAST 24" X 12"  
 24 24" X 24"  
 27 24" X 24"

ONE "U" POST

504 505

EAST 24" X 12"  
 24 24" X 24"  
 27 24" X 24"  
 21" X 21"

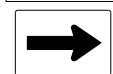
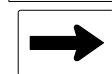
ONE "U" POST

506

WEST 24" X 12"  
 24 24" X 24"  
 27 24" X 24"

ONE "U" POST

507

TO 24" X 12"  
 WEST EAST 2- 24" X 12"  
 24 24 2- 24" X 24"  
 27 27 2- 24" X 24"  
  2- 21" X 15"

TWO "U" POSTS

SIGN NUMR: TYPE: F Ground BACKG. COLOR: White DESIGN BY: CHK BY: STD #: N. C. DEPARTMENT OF TRANSPORTATION  
 QUANTITY: 1 COPY COLOR: Black PROJECT ID: DIV: DATE: DIVISION OF HIGHWAYS  
 TRANSPORTATION MOBILITY & SAFETY  
 SIGNING & DELINEATION UNIT

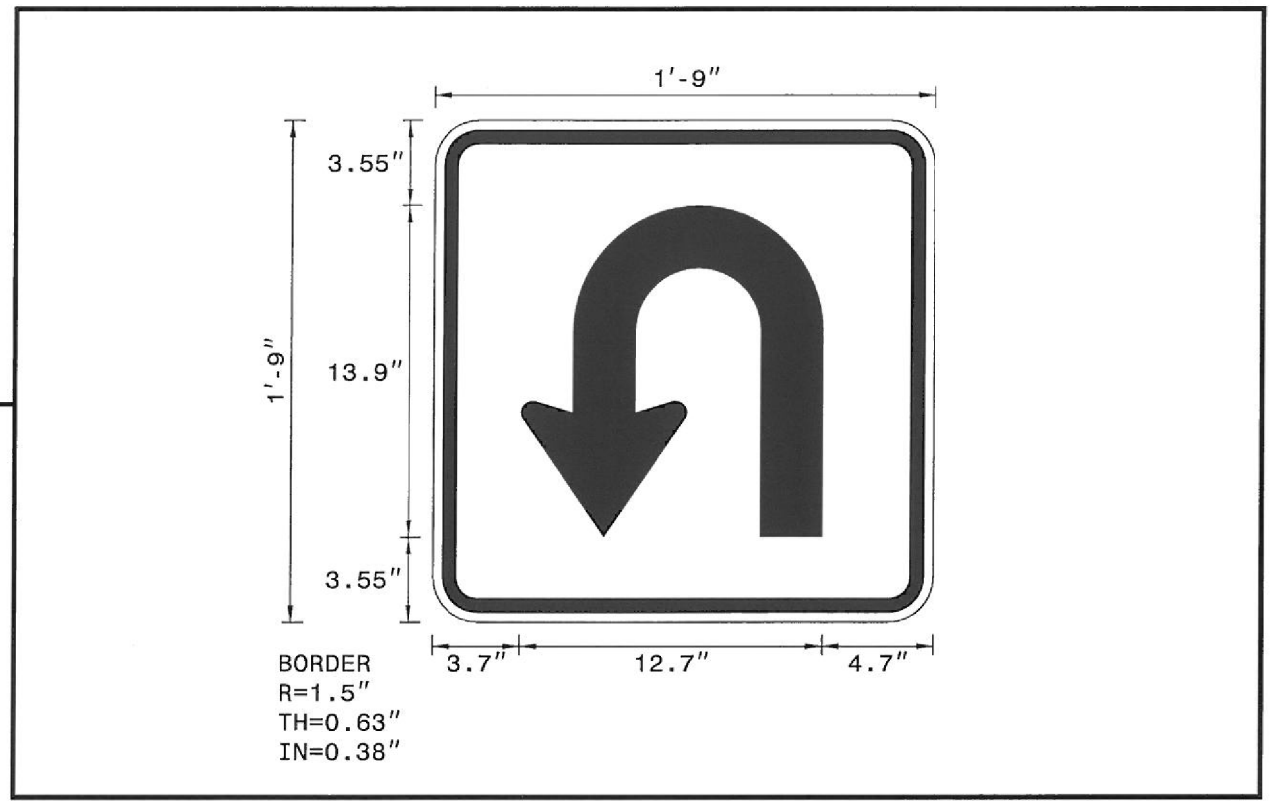
SIGN WIDTH: 1'-9"  
 HEIGHT: 1'-9"  
 TOTAL AREA: 3.1 Sq.Ft.

SYMBOL	X	Y	WID	HT
u arrow	3.7	3.5	12.7	13.9

MAT'L: 0.063" ALUMINUM  
 BORDER TYPE: RECESSED  
 RECESS: 0.38"  
 WIDTH: 0.63"  
 RADII: 1.5"

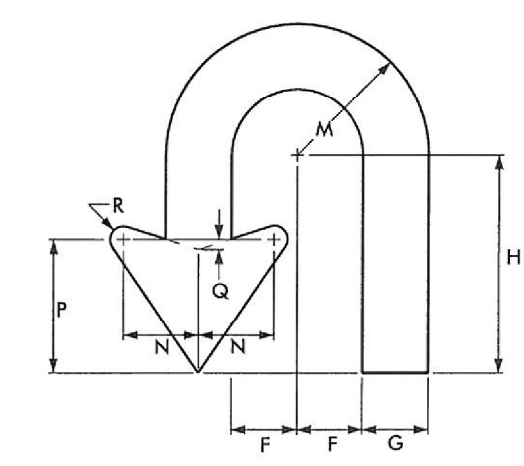
NO. Z BARS:  
 LENGTH:

NOTES:  
 1. Legend and border shall be direct applied  
 Non-reflective sheeting.  
 2. Background shall be Grade C reflective sheeting.



BORDER  
 R=1.5"  
 TH=0.63"  
 IN=0.38"

Arrow Details

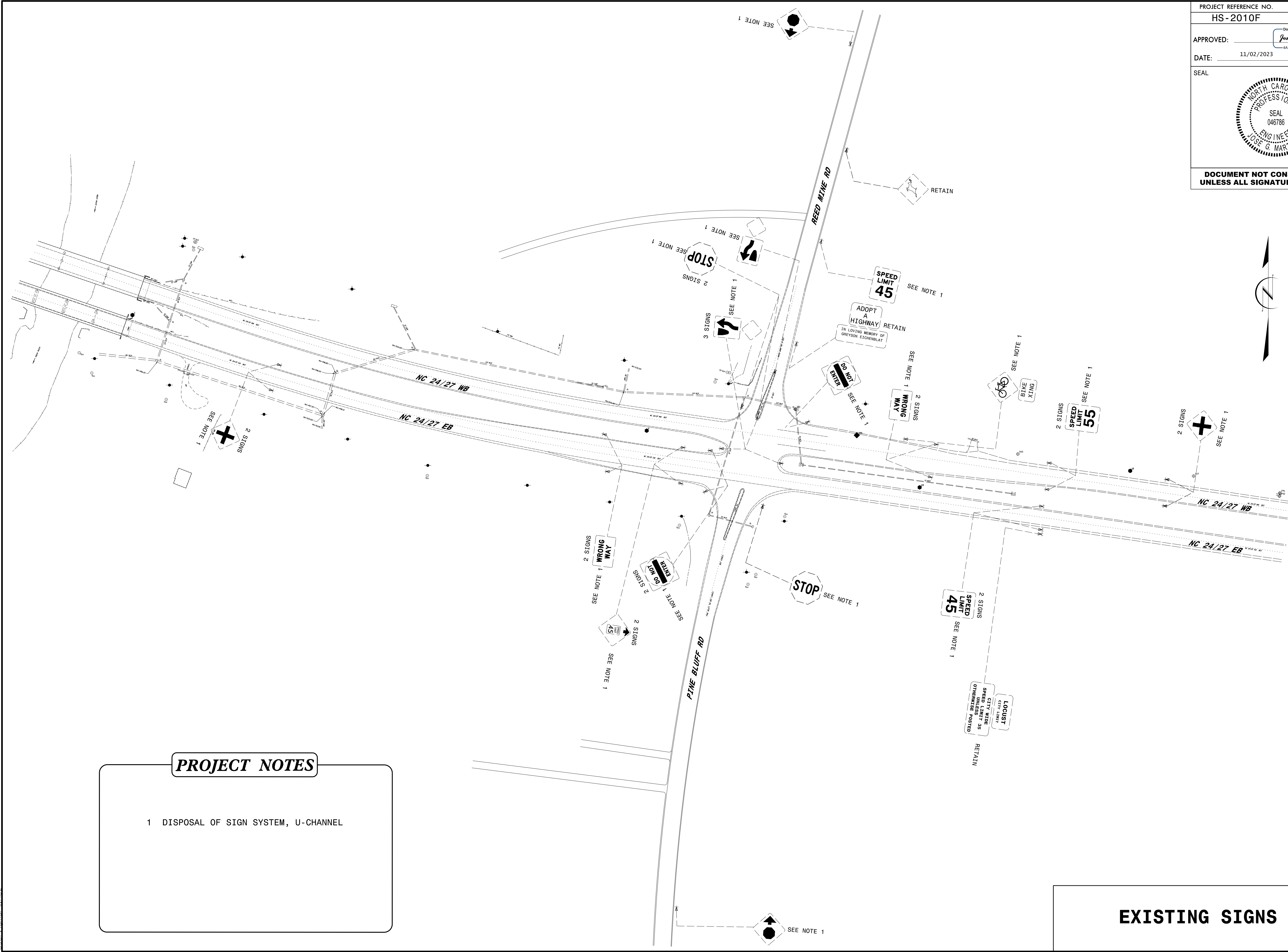


ARROW DIMENSIONS (INCHES)	F	G	H	M	N	P	Q	R
	2.625	2.625	8.659	5.25	3	5.25	0.375	0.5

Spacing Factor is 1 unless specified otherwise  
 FILENAME: BSENG

**TYPE "F" SIGNS**

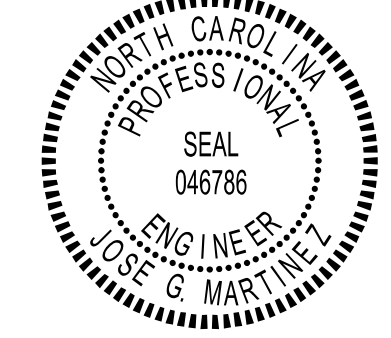
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 User: jmartinez

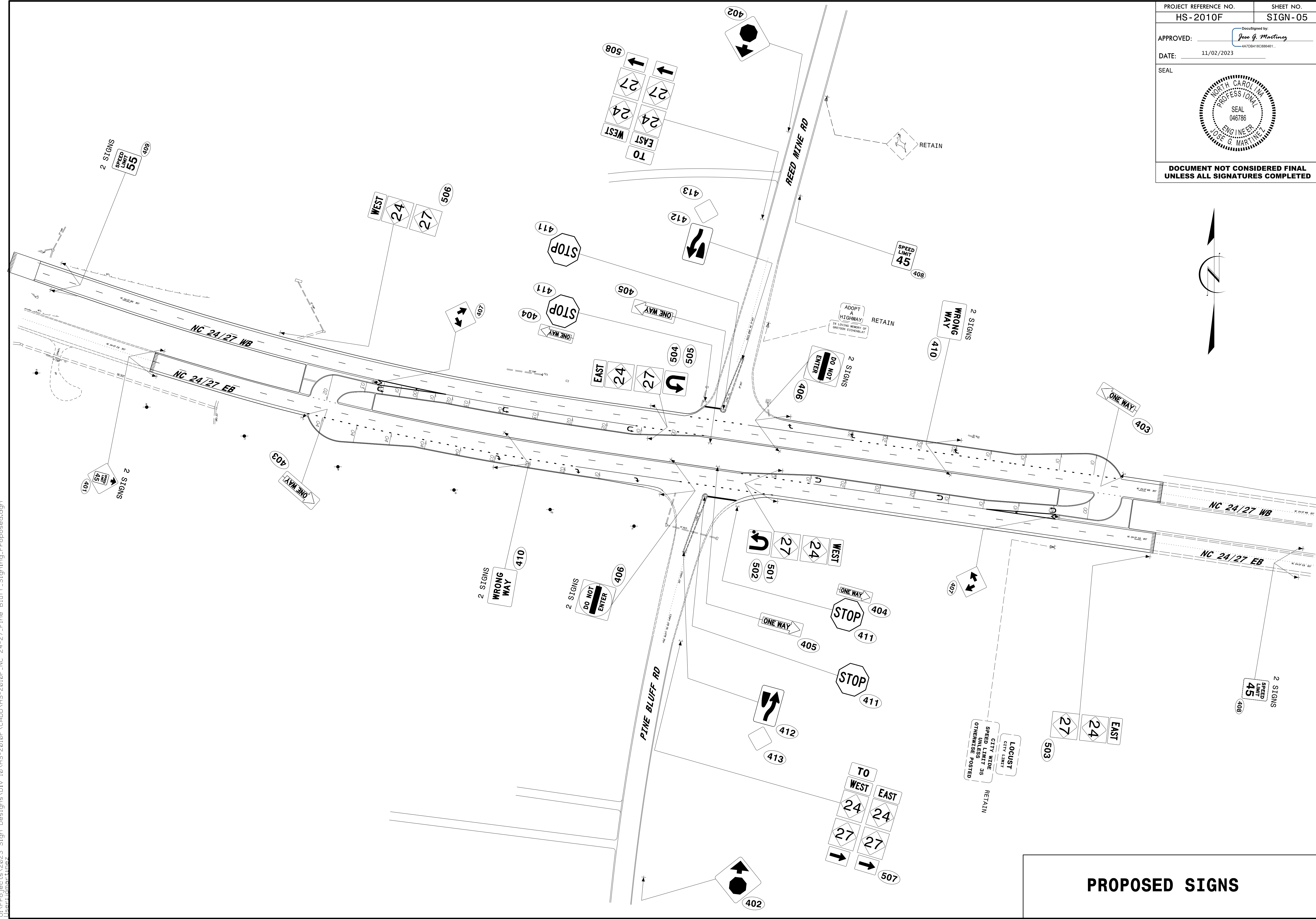
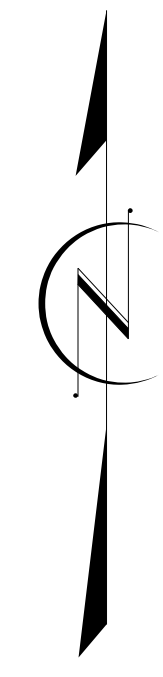


**PROJECT NOTES**

1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL

**EXISTING SIGNS**

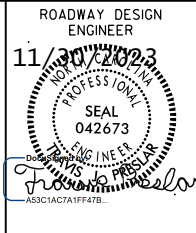
PROJECT REFERENCE NO. HS-2010F	SHEET NO. SIGN-05
APPROVED: <i>Jose G. Martinez</i> <small>DocuSigned by: Jose G. Martinez 4A7DB418C886481</small>	
DATE: 11/02/2023	
SEAL	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



PROPOSED SIGNS

11/2/2023 U:\Projects\2023 Sign Designs\Div 10\HS-2010F\CADD\HS-2010F\_NC\_24-27\_Pine Bluff\_Signing\_Proposed.dgn  
 User: jmartinez

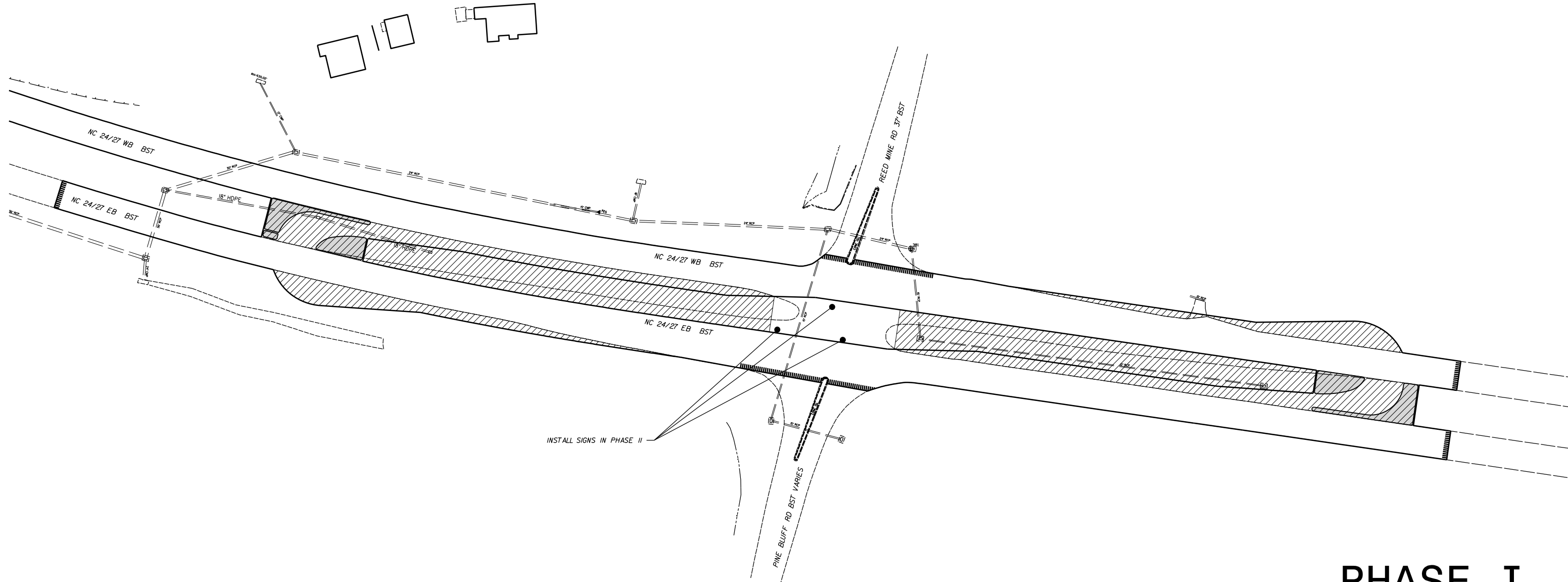
PROJECT NO.	SHEET NO.
49291.3.6	TCP-1
F.A. PROJECT NO.	0024096



INSTALL ALL SIGNS PERTAINING TO  
HATCHED AREA DURING THIS PHASE  
SEE SHEETS SIGN-01 - SIGN-05

Phase I of Construction

● INSTALL SIGNS IN PHASE II



# PHASE I

RCI AT INTERSECTION OF HWY.24-27  
AND PINE BLUFF/REED MINE RD.(SR-1100)

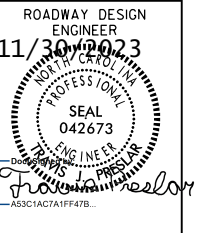
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DATE	10-2023
DWG. BY	VSC
DESIGN BY	TBL
APPROVED	JDH



REVISIONS	



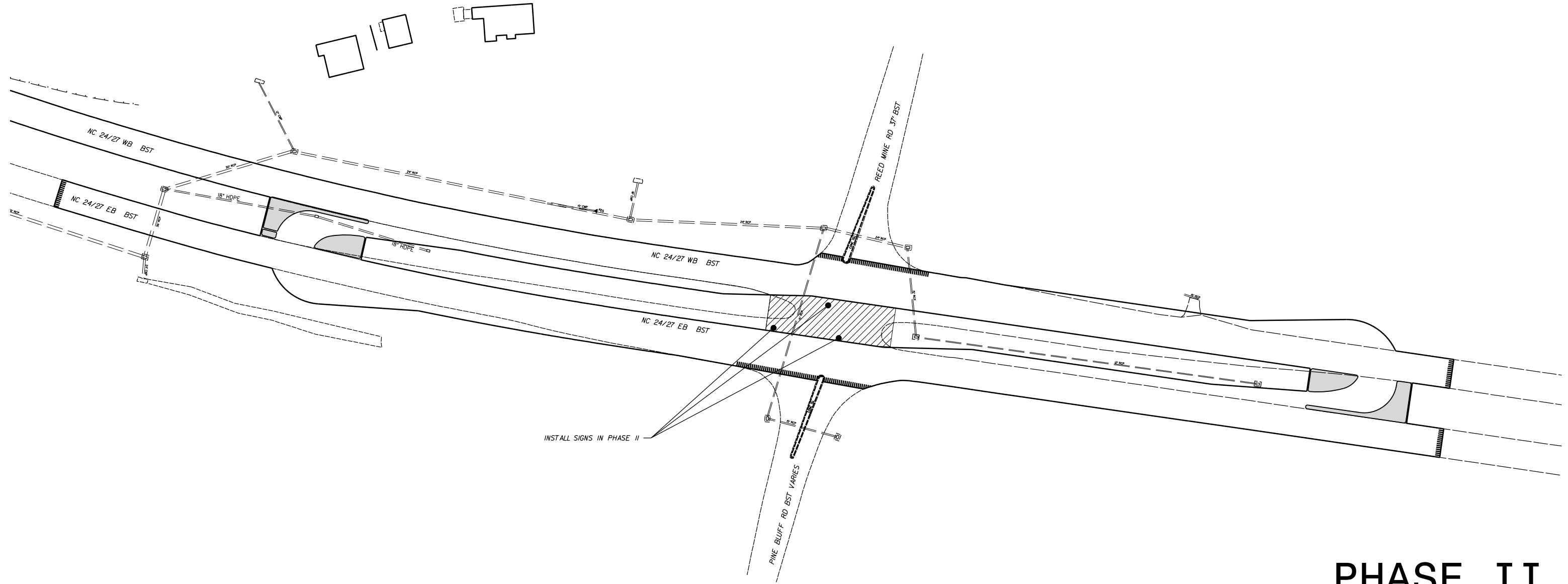
PROJECT NO.	SHEET NO.
49291.3.6	TCP-2
F.A. PROJECT NO.	0024096



INSTALL ALL SIGNS PERTAINING TO  
HATCHED AREA DURING THIS PHASE  
SEE SHEETS SIGN-01 - SIGN-05

 Phase II of Construction

● INSTALL SIGNS IN PHASE II



# PHASE II

RCI AT INTERSECTION OF HWY.24-27 AND PINE BLUFF/REED MINE RD.(SR-1100)		REVISIONS	
SCALE	1"=50'		
DATE	10-2023		
DWG. BY	VSC		
DESIGN BY	TBL		
APPROVED	JDH		

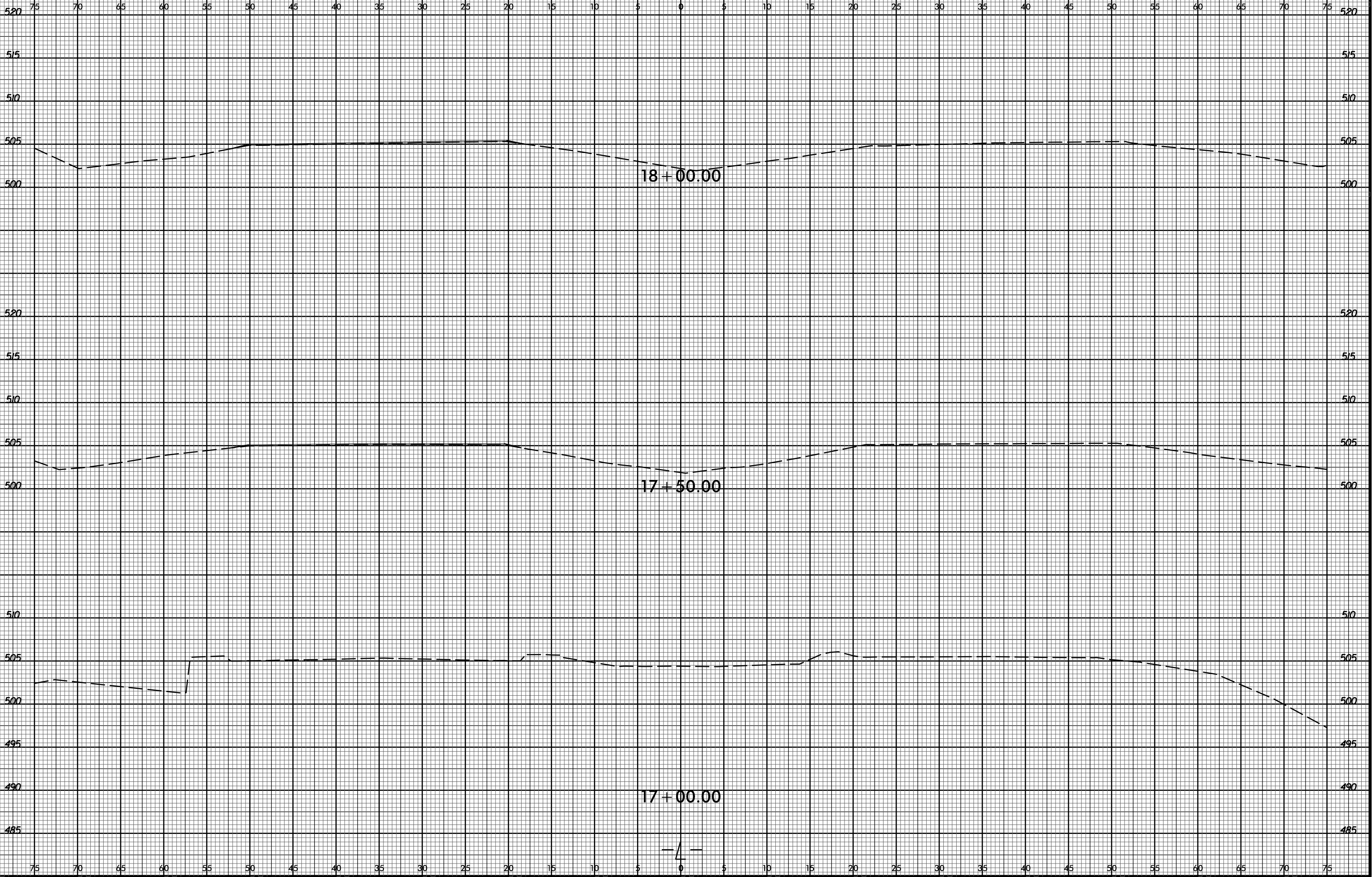


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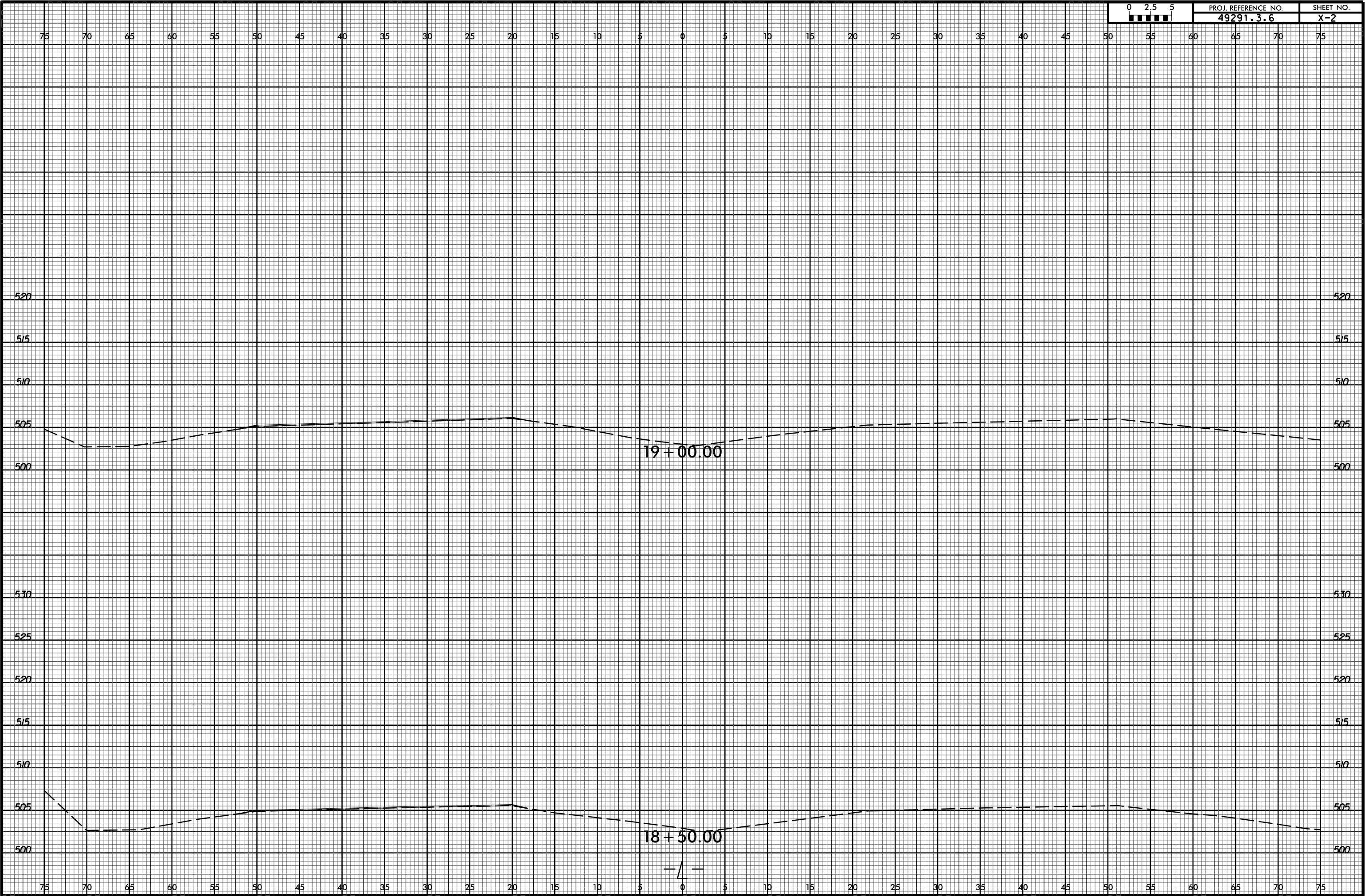


PROJ. REFERENCE NO.  
49291.3.6

SHEET NO.  
X-1



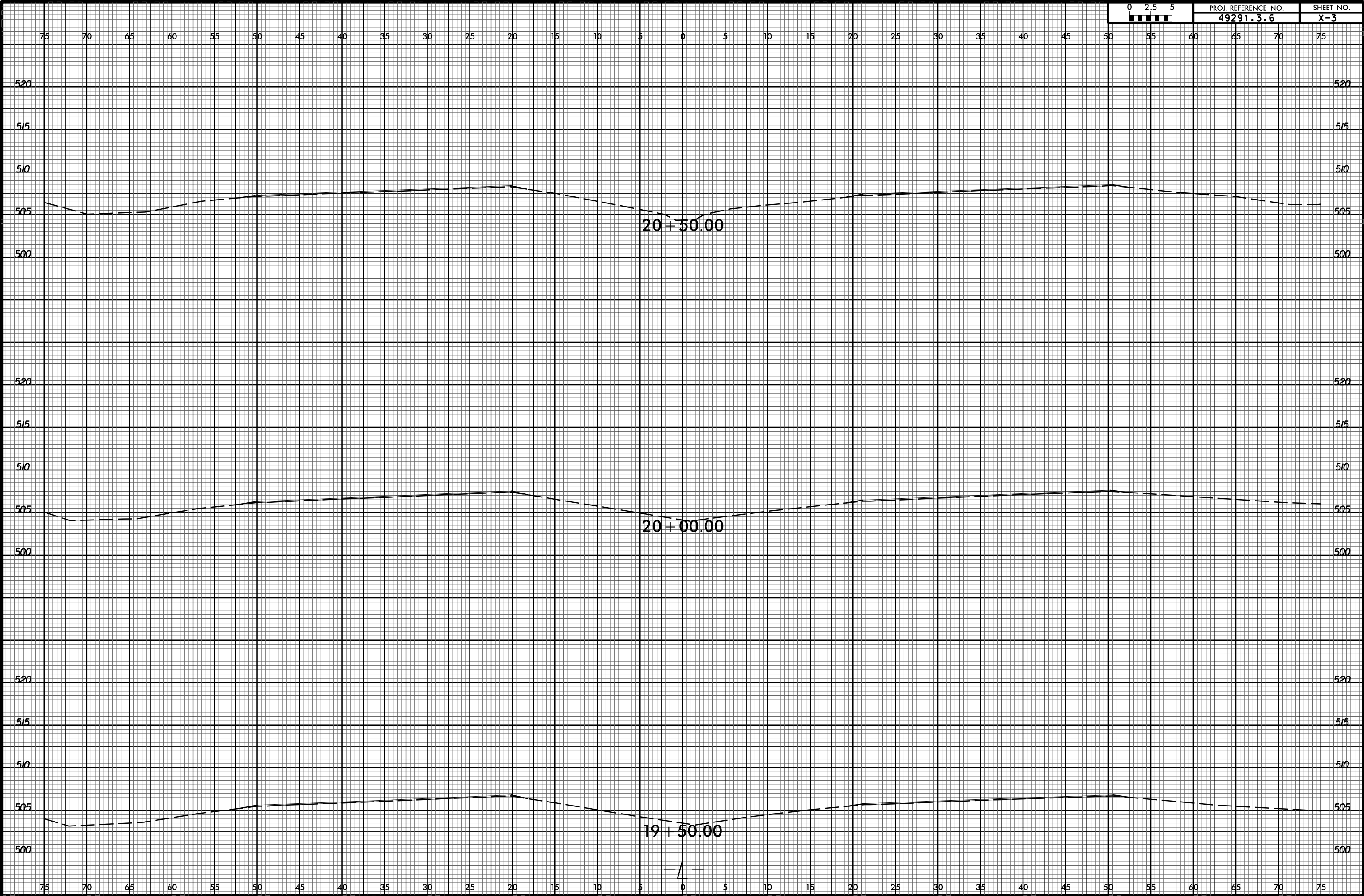
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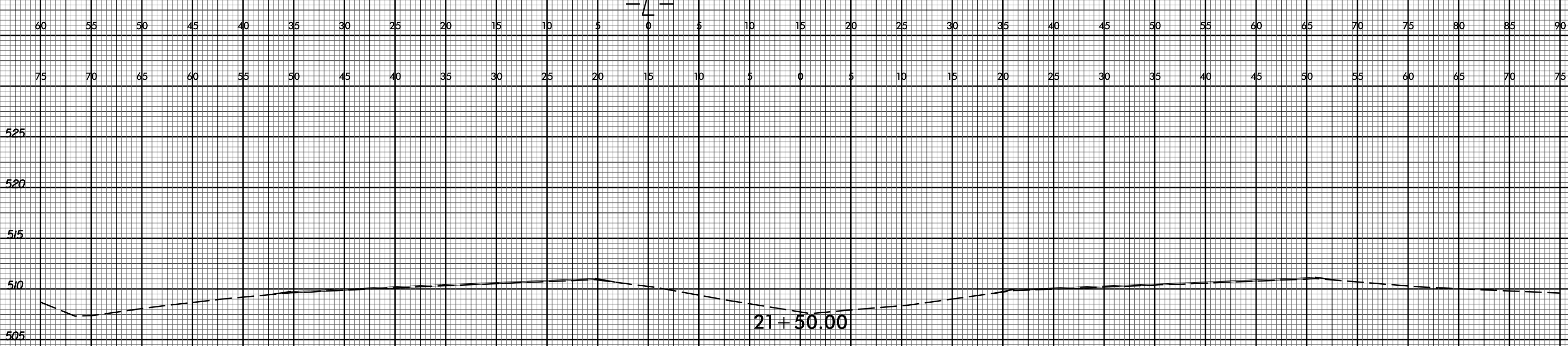
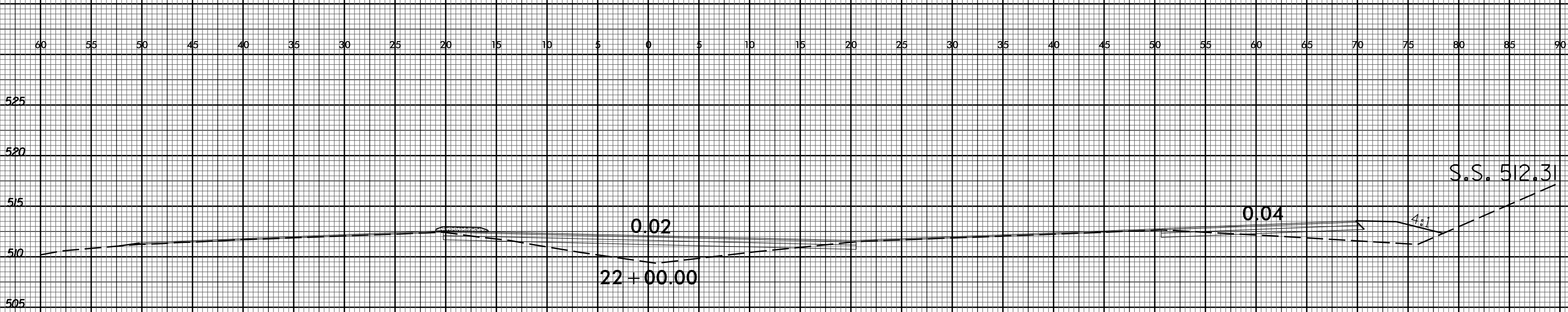
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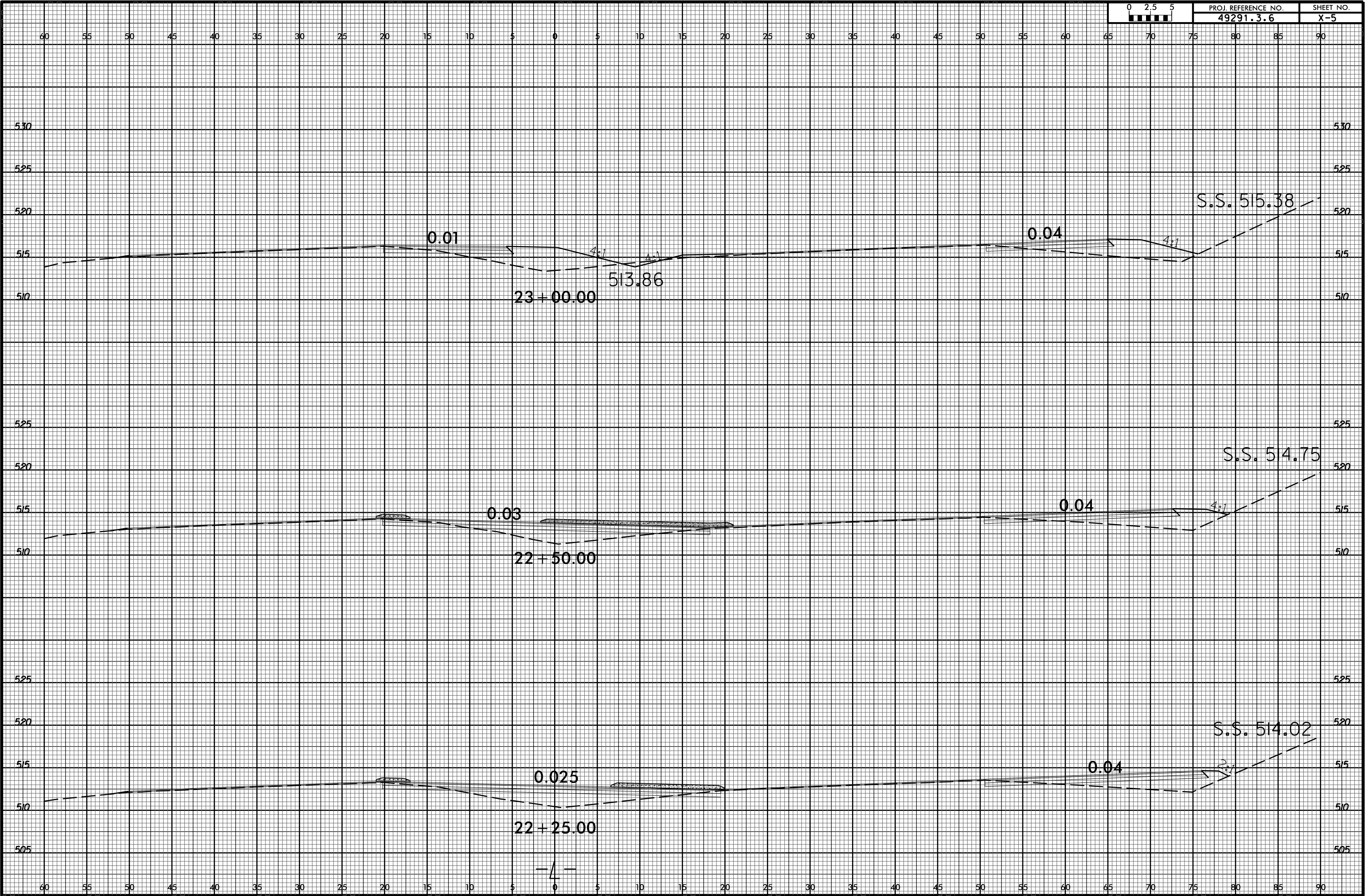


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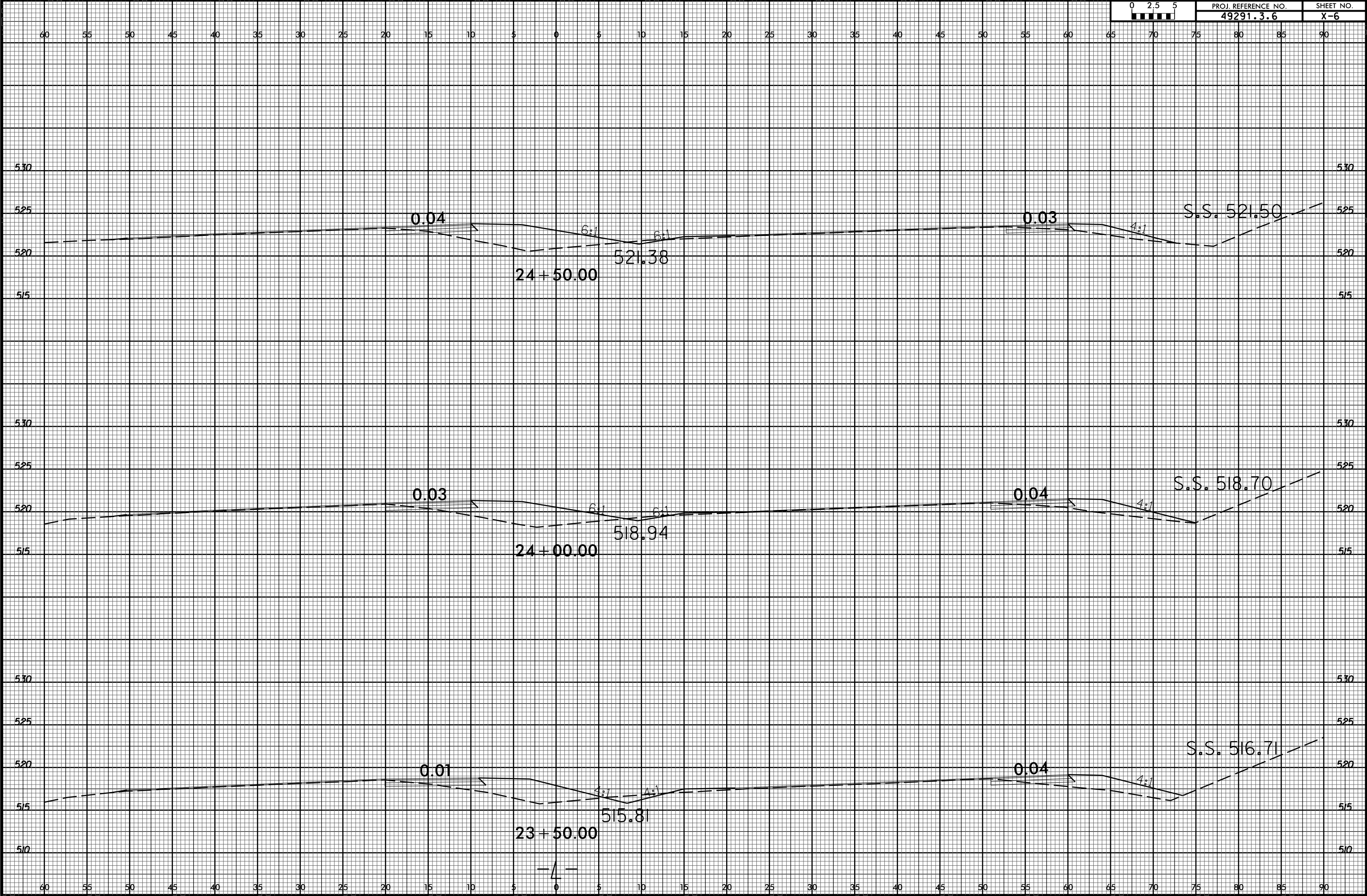


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PROJ. REFERENCE NO.  
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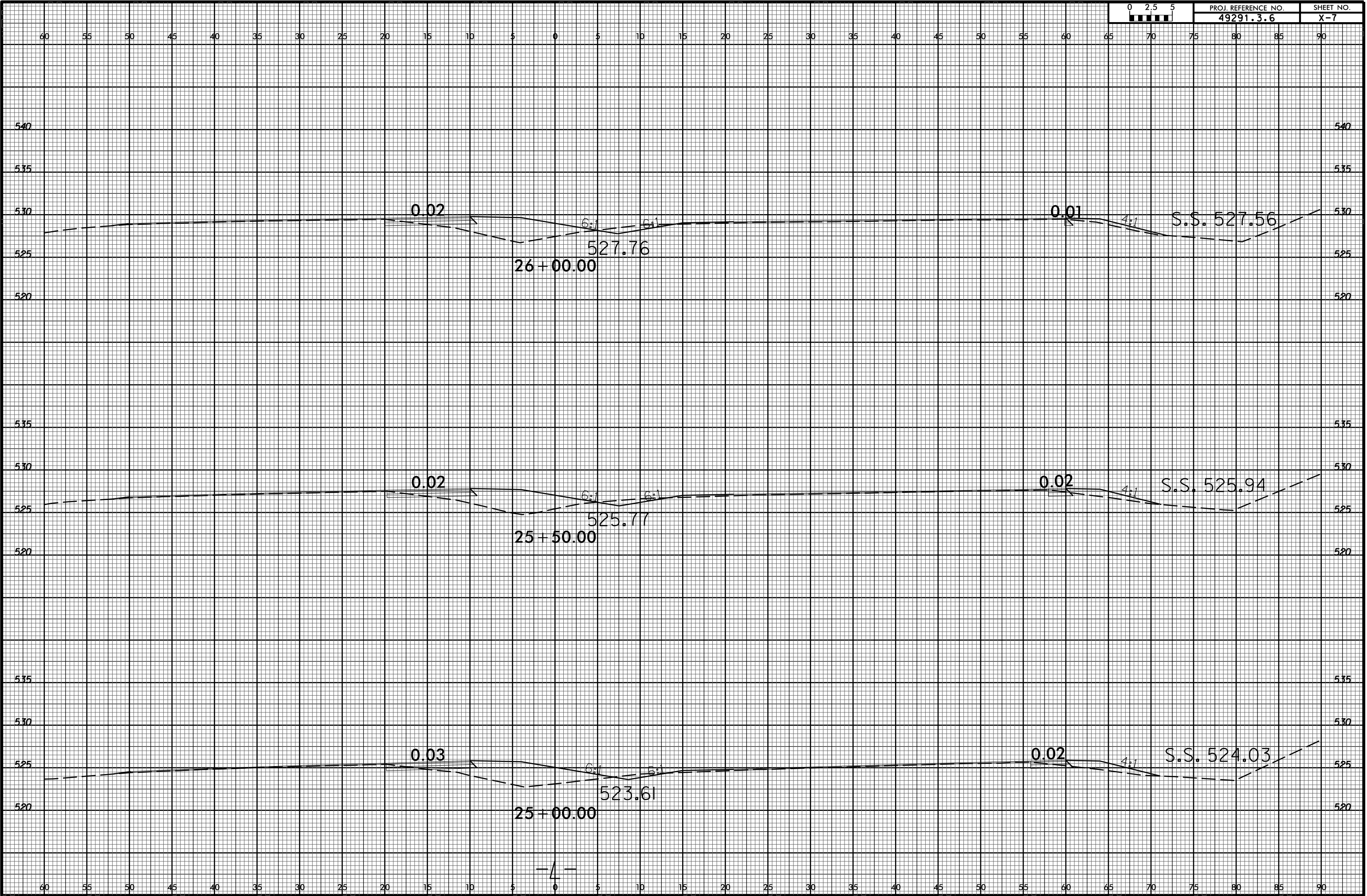
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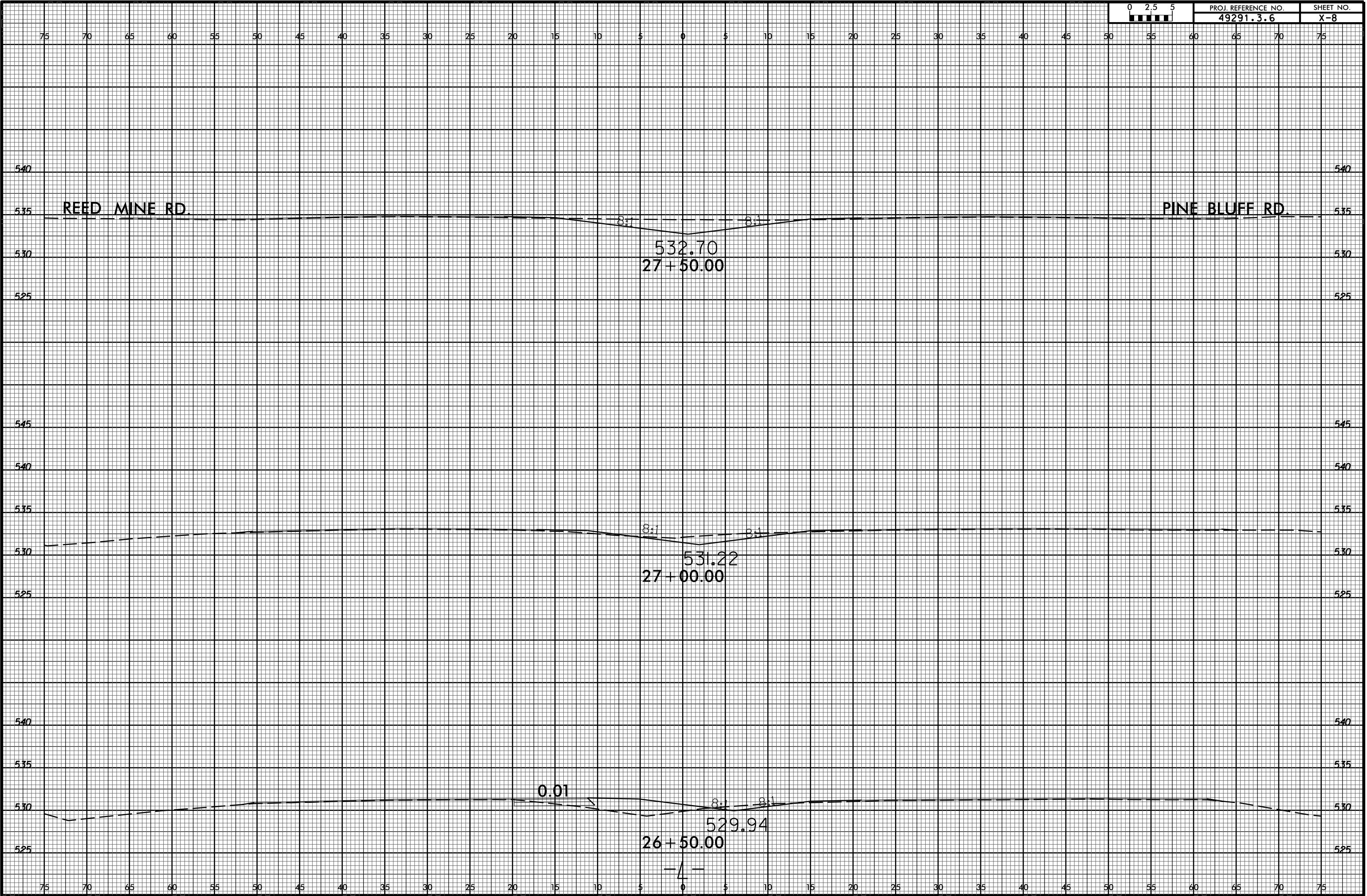


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PROJ. REFERENCE NO.  
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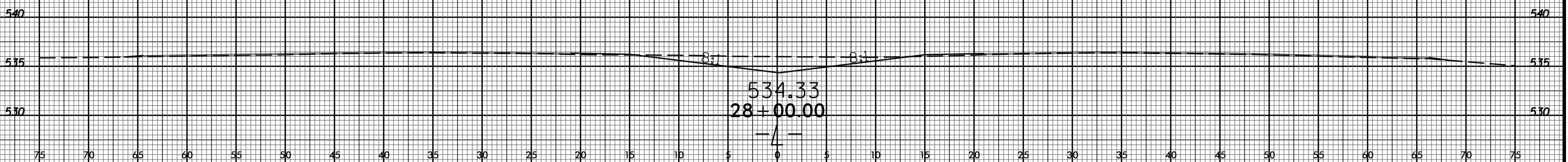
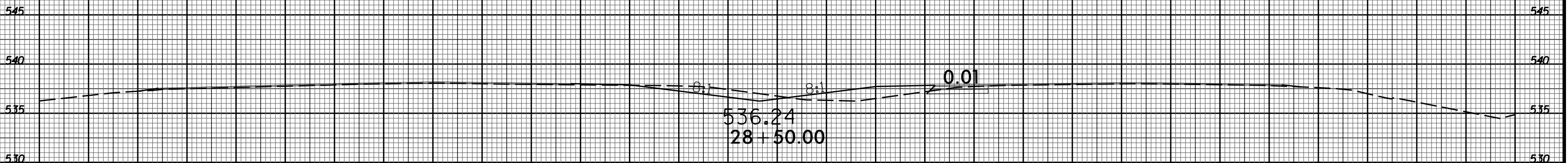
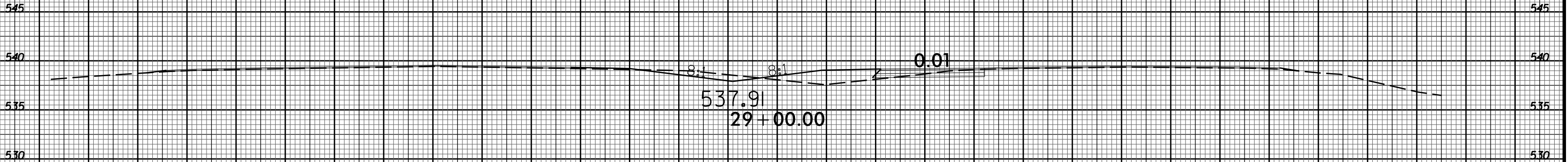
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PROJ. REFERENCE NO.  
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SHEET NO.  
X-10

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542.39  
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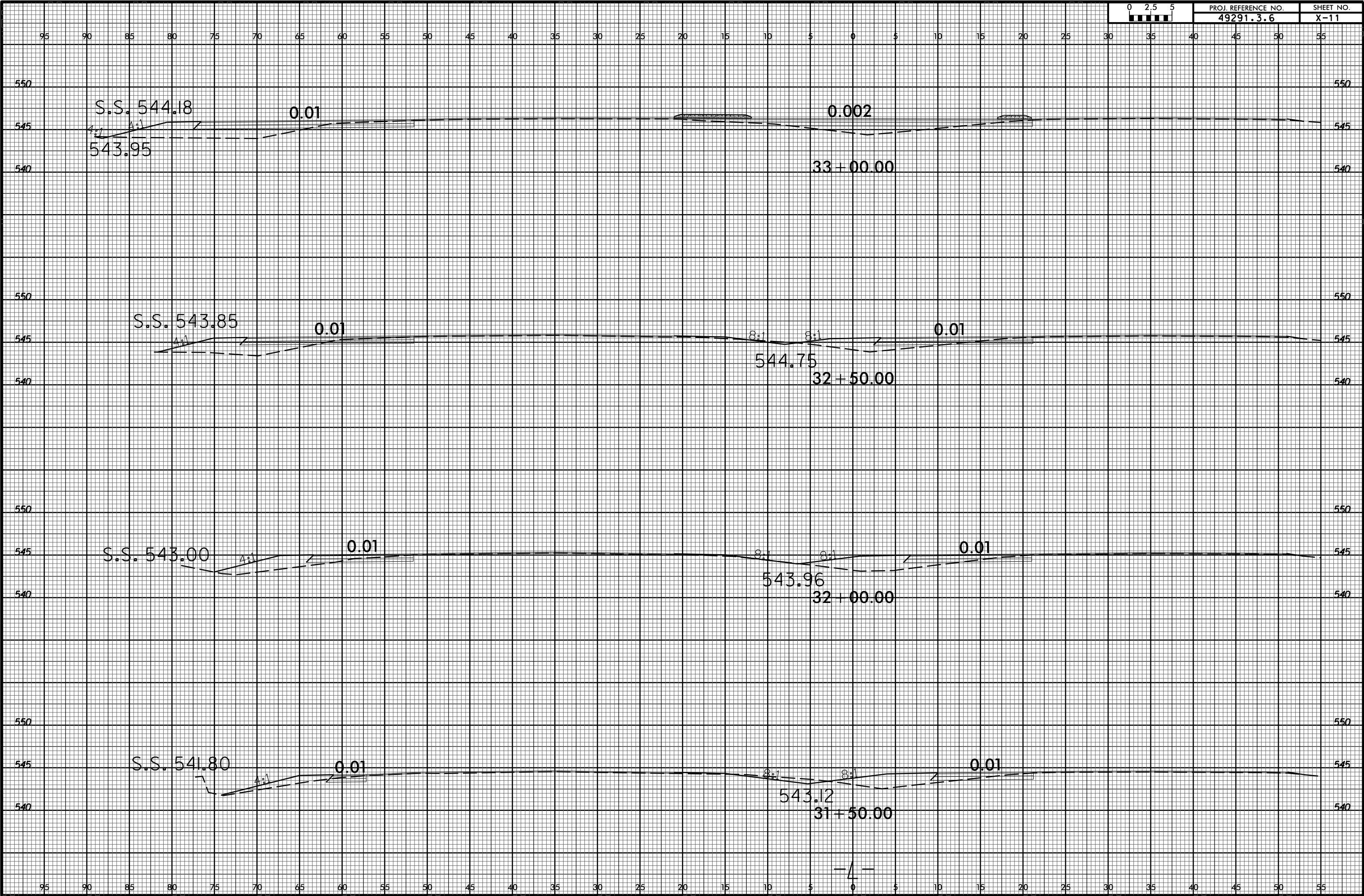
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