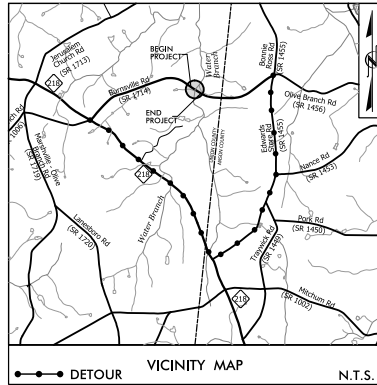


PROJECT No: BP10-R023

CONTRACT: DJ00599

See Sheet 1A For Index of Sheets
See Sheet 1B For Standard Symbolology Sheet



FINAL PLANS

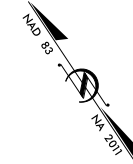
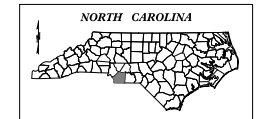
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UNION COUNTY

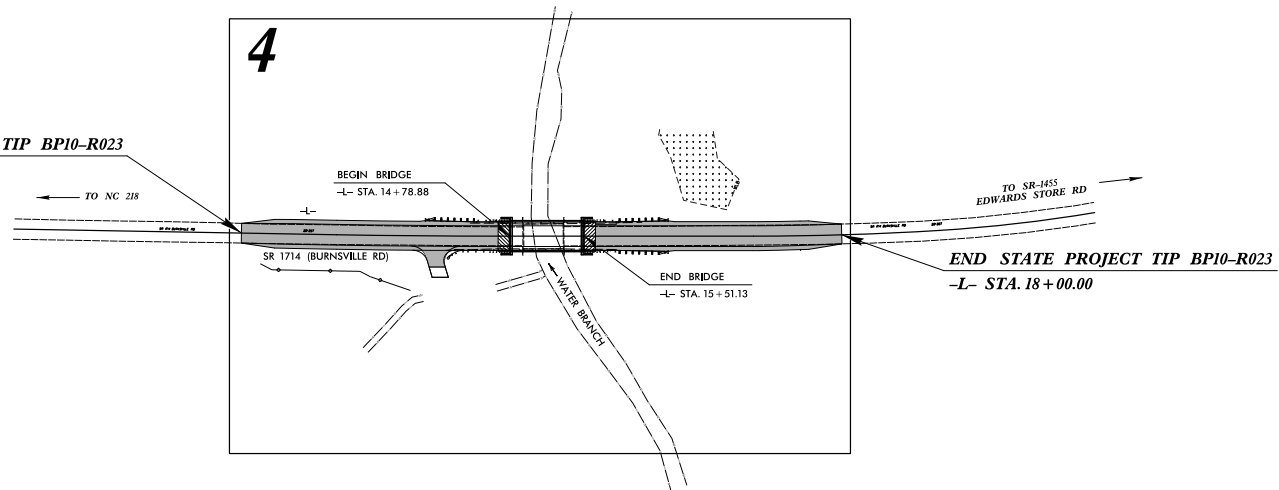
LOCATION: BRIDGE #890048 OVER WATER BRANCH
ON SR 1714 (BURNSVILLE RD)

TYPE OF WORK: GRADING, DRAINAGE, PAVING, & STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BP10-R023	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
BP10.R023.1	N/A	PE	
BP10.R023.2	N/A	RW, UTIL.	
BP10.R023.3	N/A	CONST.	

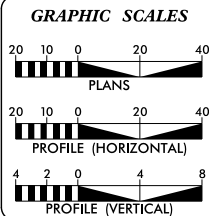


BEGIN STATE PROJECT TIP BP10-R023
-L- STA. 12 + 20.00



THIS PROJECT IS NOT WITHIN THE BOUNDARIES OF ANY MUNICIPALITY.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA	
ADT 2026 =	798
ADT 2046 =	1178
DHV =	N/A
D =	N/A
T =	6%
V =	55 MPH
FUNC. CLASSIFICATION:	LOCAL
SUB REGIONAL TIER	

PROJECT LENGTH	
LENGTH OF ROADWAY PROJECT TIP BP10-R023 =	0.096 MILES
LENGTH OF STRUCTURE PROJECT TIP BP10-R023 =	0.014 MILES
TOTAL LENGTH OF PROJECT TIP BP10-R023 =	0.110 MILES

NCDOT CONTACT: THEO GHITEA, PE
Division Bridge Manager

PLANS PREPARED FOR THE NCDOT BY:



STV Engineers, Inc.
2131 Hopkins Street, Suite 1400
Charlotte, NC 28203
NC License Number 1-0991

RIGHT OF WAY DATE:
DECEMBER 21, 2025

LETTING DATE:
OCTOBER 7, 2026

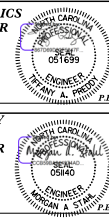
MORGAN STAHL, PE
PROJECT ENGINEER

CARLOS OWENS
PROJECT DESIGNER

HYDRAULICS
ENGINEER

SIGNATURE:
ROADWAY
DESIGN
ENGINEER

SIGNATURE:



GENERAL NOTES

STANDARD DRAWINGS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-I-B	CONVENTIONAL SYMBOLS
2A-1	TYPICAL SECTIONS SHEET
2C-1 THRU 2C-3	ROADWAY DETAIL SHEETS
3B-1	SUMMARIES SHEET
3G-1	GEOTECHNICAL SUMMARIES SHEET
4	PLAN SHEET
5	PROFILE SHEET
RW-1 THRU RW-4	RIGHT-OF-WAY AND EASMENT DETAILS
RW2C-1 THRU RW2C-2	SURVEY CONTROL SHEETS
RW-2D	PROPOSED ALIGNMENT CONTROL SHEET
RW-3E	RIGHT-OF-WAY CONTROL SHEETS
TMP-1 THRU TMP-5	TRANSPORTATION MANAGEMENT PLANS
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
UD-1 THRU UD-4	UTILITIES BY OTHERS PLANS
X-1	CROSS-SECTION SUMMARY SHEET
X-2 THRU X-10	CROSS-SECTIONS
S-1 THRU S-18	STRUCTURE PLANS
SN	STRUCTURE NOTES

2024 SPECIFICATIONS

EFFECTIVE: 01-16-2024
REVISED:

GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH
STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS.
SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL
SECTIONS.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF
SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

END BENTS:

THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, DETAILS, AND CROSS-SECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE:

WINDSTREAM
PEE DEE ELECTRIC

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

EFF. 08-11-2025
REV. 11-26-2025

2024 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Contracts Standards and Development Unit N. C. Department of Transportation - Raleigh, N. C., Dated January 16, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

STNO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Super-elevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
310.10	Driveway Pipe Construction
DIVISION 4 - MAJOR STRUCTURES	
423.01	Bridge Approach Fills - Type I Approach Fill for Bridge Abutment
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 8 - INCIDENTALS	
840.29	Frames and Narrow Slot Flat Grates
840.35	Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
840.00	Concrete Base Pad for Drainage Structures
866.04	Barbed Wire Fence - with Wood Posts
876.01	Rip Rap in Channels and Ditches
876.02	Guide for Rip Rap at Pipe Outlets

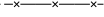
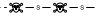
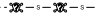
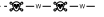
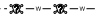
7/23/2026
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9/10/2021

7/14/2026
S:\DWG\2026\11\11-0000\11-0000.dwg
S:\DWG\2026\11\11-0000\11-0000.dwg

Note: Not to Scale

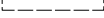
BOUNDARIES AND PROPERTY:

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	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
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	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Wetland	
Proposed Lateral, Tail, Head Ditch	
False Sump	

RAILROADS:

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY & PROJECT CONTROL:

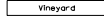
Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Secondary Horiz and Vert Control Point	
Vertical Benchmark	
Existing Right of Way Monument	
Proposed Right of Way Monument (Rebar and Cap)	
Proposed Right of Way Monument (Concrete)	
Existing Permanent Easement Monument	
Proposed Permanent 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	
UG Power Cable Hand Hole	
H-Frame Pole	
UG Power Line Test Hole (SUE - LOS A)*	
UG Power Line (SUE - LOS B)*	
UG Power Line (SUE - LOS C)*	
UG Power Line (SUE - LOS D)*	

TELEPHONE:

Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
UG Telephone Cable Hand Hole	
UG Telephone Test Hole (SUE - LOS A)*	
UG Telephone Cable (SUE - LOS B)*	
UG Telephone Cable (SUE - LOS C)*	
UG Telephone Cable (SUE - LOS D)*	
UG Telephone Conduit (SUE - LOS B)*	
UG Telephone Conduit (SUE - LOS C)*	
UG Telephone Conduit (SUE - LOS D)*	
UG Fiber Optics Cable (SUE - LOS B)*	
UG Fiber Optics Cable (SUE - LOS C)*	
UG Fiber Optics Cable (SUE - LOS D)*	

WATER:

Water Manhole	
Water Meter	
Water Valve	
Water Hydrant	
UG Water Line Test Hole (SUE - LOS A)*	
UG Water Line (SUE - LOS B)*	
UG Water Line (SUE - LOS C)*	
UG Water Line (SUE - LOS D)*	
Above Ground Water Line	

TV:

TV Pedestal	
TV Tower	
UG TV Cable Hand Hole	
UG TV Test Hole (SUE - LOS A)*	
UG TV Cable (SUE - LOS B)*	
UG TV Cable (SUE - LOS C)*	
UG TV Cable (SUE - LOS D)*	
UG Fiber Optic Cable (SUE - LOS B)*	
UG Fiber Optic Cable (SUE - LOS C)*	
UG Fiber Optic Cable (SUE - LOS D)*	

GAS:

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

SANITARY SEWER:

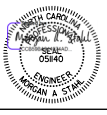
Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
UG Sanitary Sewer Line	
Above Ground Sanitary Sewer	
SS Force Main Line Test Hole (SUE - LOS A)*	
SS Force Main Line (SUE - LOS B)*	
SS Force Main Line (SUE - LOS C)*	
SS Force Main Line (SUE - LOS D)*	

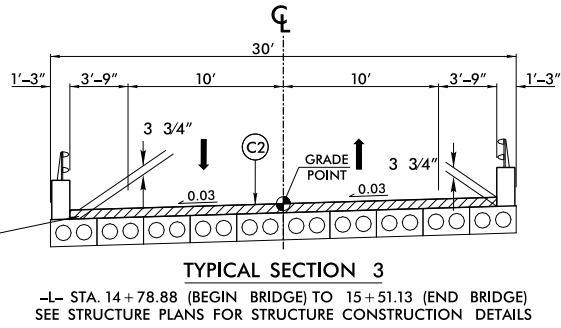
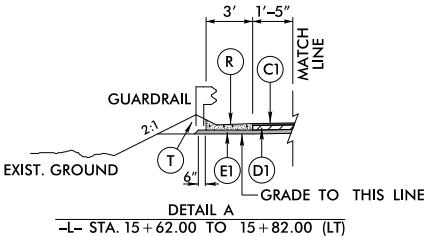
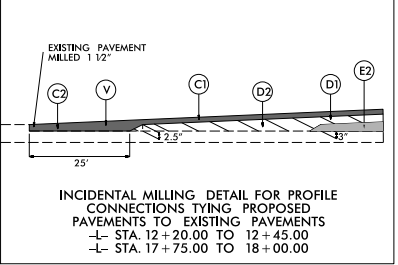
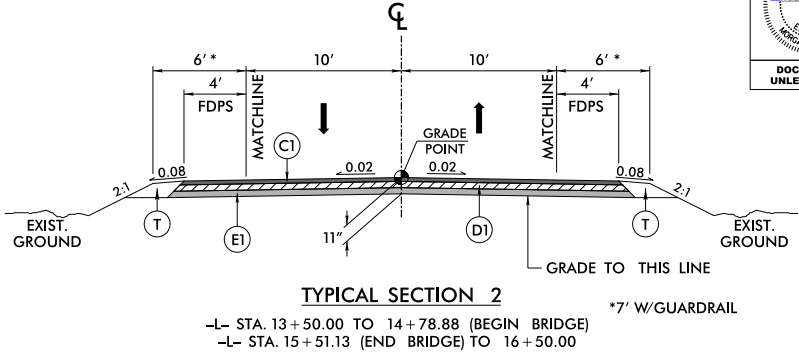
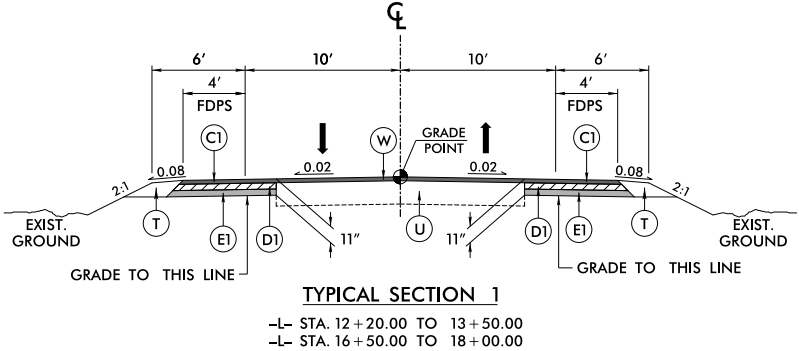
MISCELLANEOUS:

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

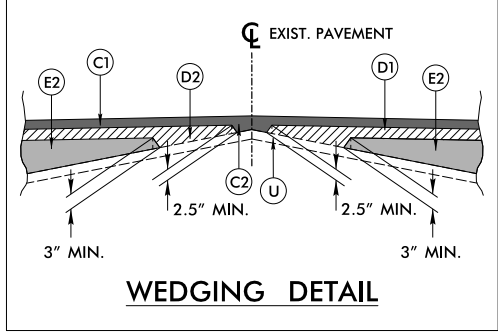
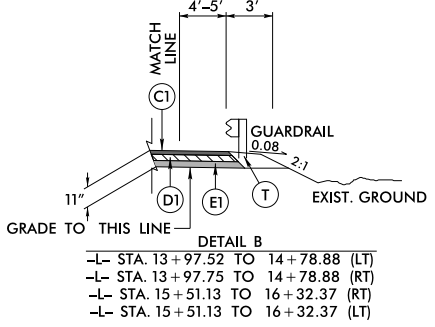
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

stv STV Engineers, Inc.
2101 Howlett Street, Suite 1400
Charlotte, NC 28203
NC License Number E-0991

PROJECT REFERENCE NO. BPI0-R023	SHEET NO. 2A-1
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER 8/21/2008	PAVEMENT DESIGN ENGINEER
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



ASPHALT WEARING SURFACE-
SEE STRUCTURE PLAN SHEET,
S-5 FOR DETAILS

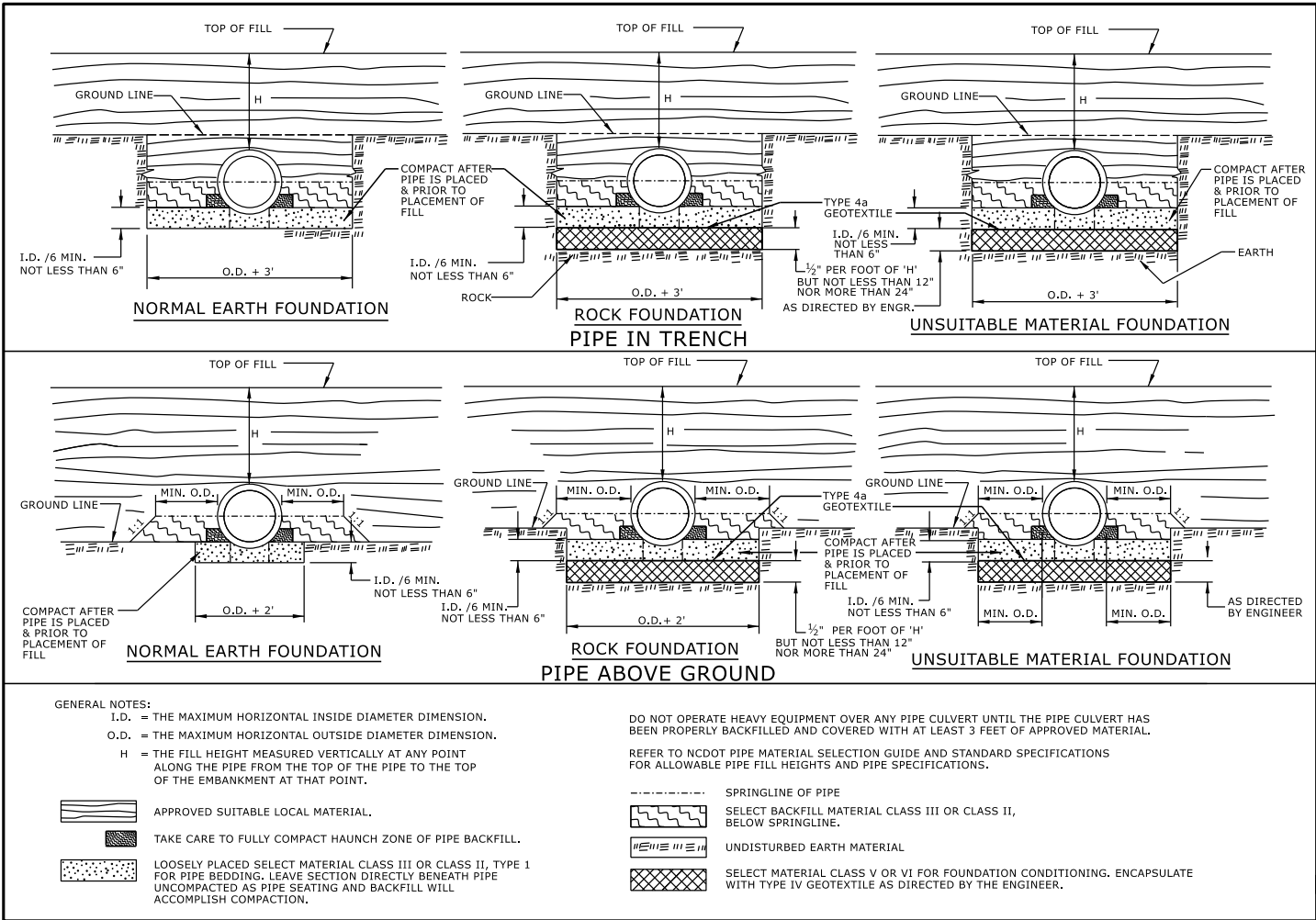


PAVEMENT SCHEDULE ASSUMED 07/07/2026	
C1	PROP. APPROX. 3.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 1.5" IN DEPTH OR GREATER THAN 2.0" IN DEPTH.
D1	PROP. APPROX. 4.0" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 2.5" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3.0" IN DEPTH OR GREATER THAN 5.5" IN DEPTH.
R	SHOULDER BERM GUTTER
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	INCIDENTAL MILLING
W	PAVEMENT WEDGING

ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE INDICATED.

7/14/2026
STV-001
C:\Users\pco\OneDrive\Documents\BPI0-R023-01.dgn

PROJECT REFERENCE NO.	SHEET NO.
BP10-R023	2C-1



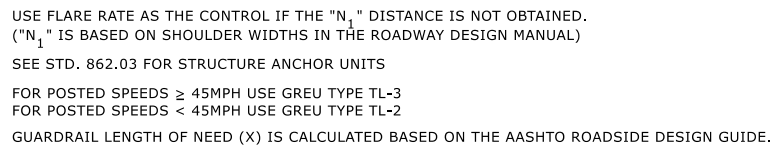
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
METHOD OF PIPE INSTALLATION
RIGID PIPE



SHEET 2 OF 2
300.01

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
CONTRACTS STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
SEE TITLE BLOCK	
ORIGINAL BY: S.CALHOUN	DATE: 7-25-2024
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC:	



SHEET 4 OF 15
862D01

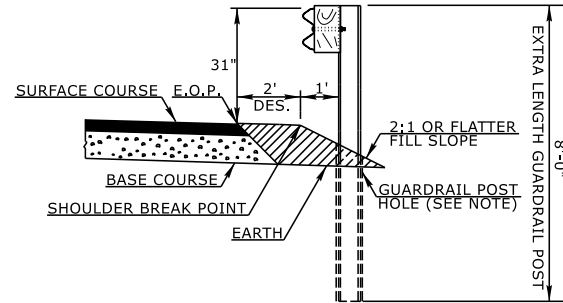
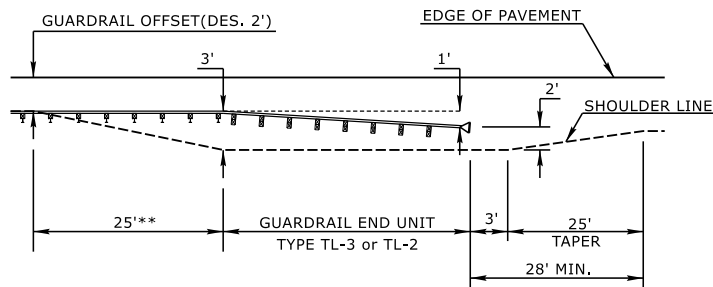
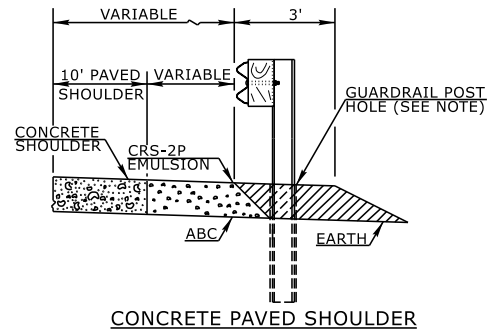
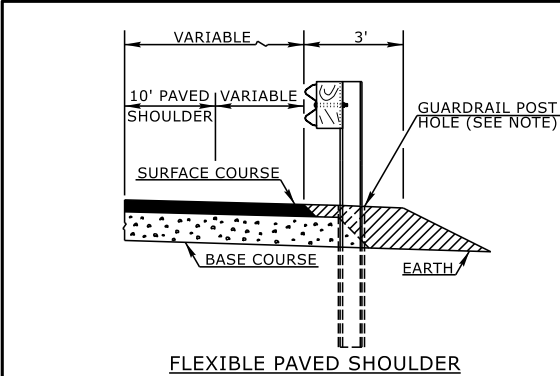
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR GUARDRAIL PLACEMENT



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
CONTRACTS STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
SEE TITLE BLOCK	
ORIGINAL BY: <u>S.CALHOUN</u>	DATE: <u>7-25-2024</u>
MODIFIED BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
FILE SPEC: _____	

PROJECT REFERENCE NO.	SHEET NO.
BP10-R023	2C-3



* THE 8' GUARDRAIL POST ON 2:1 SLOPE DETAIL IS INTENDED FOR USE ONLY IN SEVERELY CONSTRAINED AREAS WITH A POSTED SPEED $\leq$ 60 MPH, GUARDRAIL END UNITS MAY NOT BE PLACED ON THE 2:1 SLOPE AND MUST TRANSITION TO THE SHOULDER.
** 8' GUARDRAIL POST SHOULD BE USED IN THIS RANGE

NOTE:
WHEN WOODEN GUARDRAIL POSTS ARE USED, DRILL HOLES THROUGH EARTH MATERIAL AND BASE COURSE. THE POST MAY THEN BE DRIVEN TO THE PROPER DEPTH. DRILL THE HOLE OF SUFFICIENT SIZE TO ACCOMMODATE THE PARTICULAR POST BEING USED. BACKFILL AND TAMP HOLES USING THE EXCAVATED MATERIAL.

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 11 OF 15
862D01



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
CONTRACTS STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
SEE TITLE BLOCK	
ORIGINAL BY: L.SMITH	DATE: 10-14-2025
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC:	

PROJECT REFERENCE NO.	SHEET NO.
<i>BPIO-R023</i>	<i>3B-1</i>
R/W SHEET NO.	

STATION TO STATION	LT. or RT.	FABRIC LF	4" POSTS EA	5" POSTS EA
-L- 12 + 38.72 to 13 + 83.84	RT	150.06	5	10
NOTE LT. OR RT. INDICATES LEFT OF RIGHT OF THE MAIN LINE	TOTAL:	150.06	5	10
	SAY:	160	5	10

CHAIN	FROM STATION	TO STATION	SIDE	UNCL EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
-L-	12+20.00	14+78.88 (BR)	LT & RT	11		570	559	
-L-	15+51.13 (BR)	18+00.00	LT & RT	34		144	110	
-L-	12+25.00	14+75.00	LT & RT	25		31	6	
TOTAL				70		745	675	
LOSS DUE TO CLEARING AND GRUBBING				-125			205	
MATERIAL FOR SHOULDER CONSTRUCTION						84	84	
PROJECT TOTAL				0		829	964	
ESTIMATE 5% FOR TOPSOIL ON BORROW PITS							48	
GRAND TOTAL				0		829	1,012	
SAY				0			1,015	

SURVEY LINE	BEG. STA.	END STA.	LENGTH
-L- LT	15 + 62.00	15 + 82.00	20
		TOTAL:	20
		SAY:	20

NOTE: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, will be paid for at the contract lump sum price for "Grading."

[illegible]

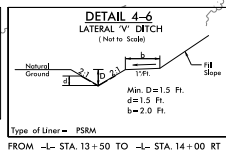
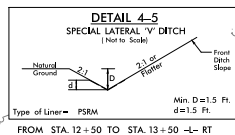
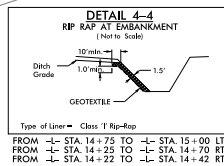
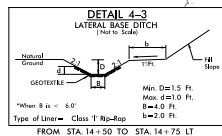
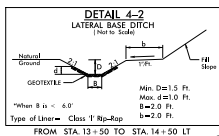
GUARDRAIL SUMMARY

[illegible]

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

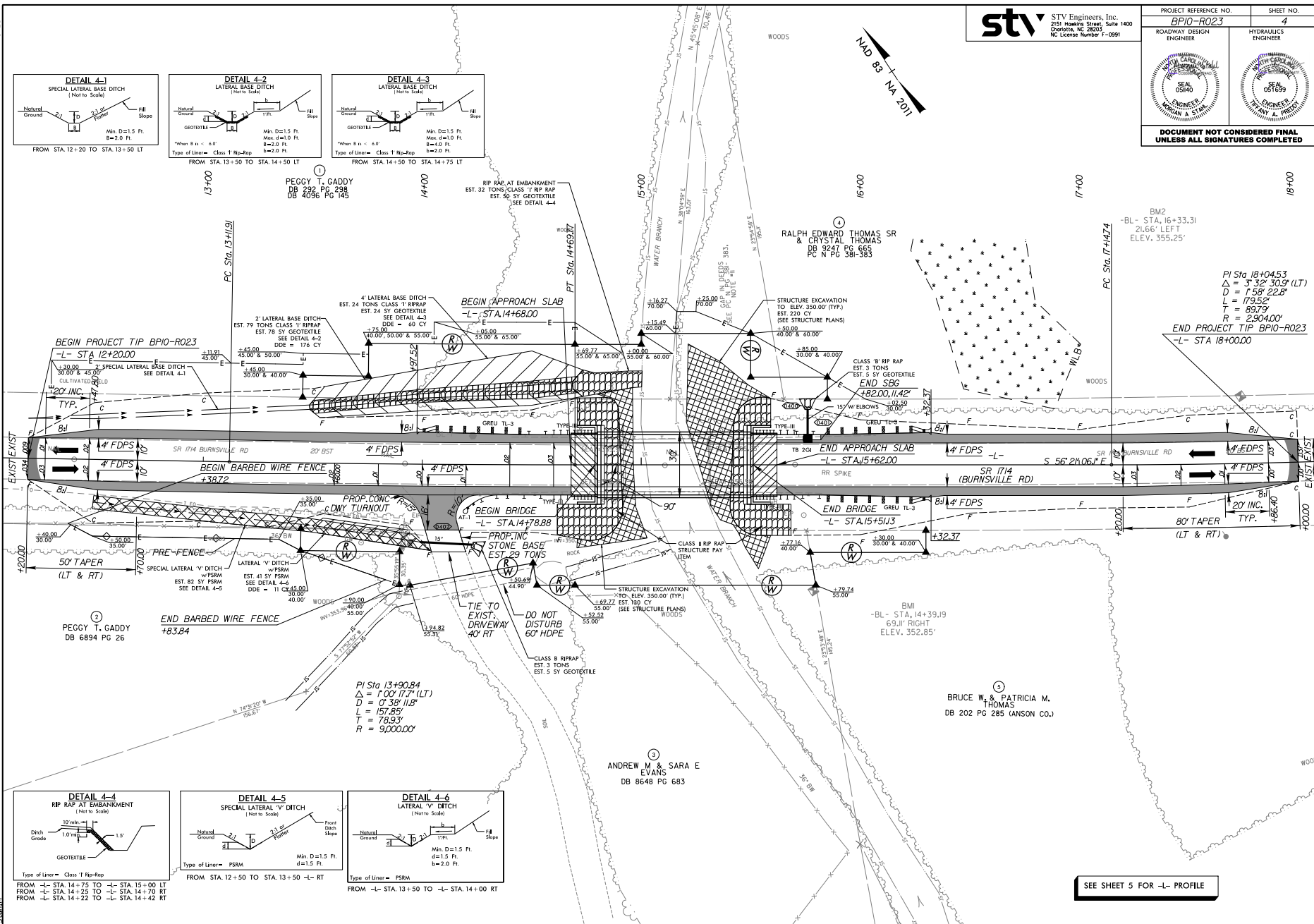
LINE	Station	Station	Aggregate Type* ASU(1/2)/AST	Aggregate Thickness INCHES (R' for ASU(2))	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Soil Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
	CONTINGENCY		ASU	12	100	200	300		
			TOTAL CY(TONS/SY:		100	200**	300**	0	0

*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)
 *AST = Aggregate Stabilization
 **Total tons of "Class IV Subgrade Stabilization" and total square yards of "Geotextile for Soil Stabilization" are only the estimated quantities for ASU(1/2)/AST and may only represent a portion of the subgrade stabilization and geotextile quantities shown in the Item Sheets of the Proposal.



stv STV Engineers, Inc.
2151 Hawkins Street, Suite 1400
Charlotte, NC 28203
NC License Number F-0991

PROJECT REFERENCE NO.		SHEET NO.	
BPO-R023		4	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			





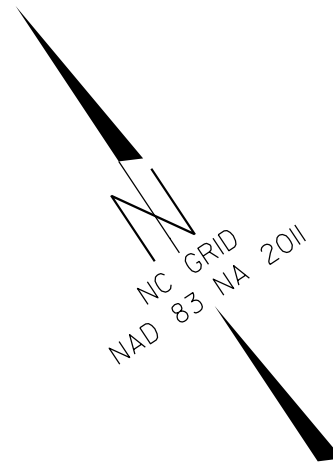
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BP10-R023	RW01	06

TIP PROJECT: BP10-R023

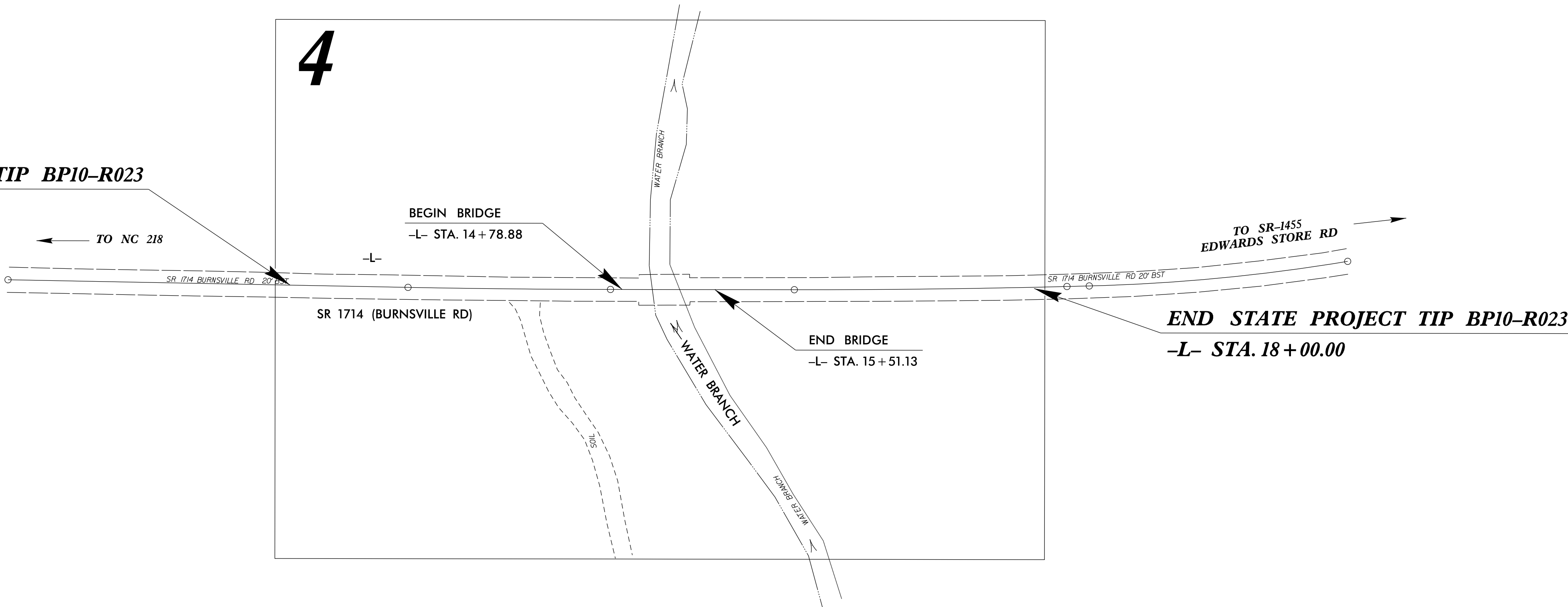
SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

UNION COUNTY

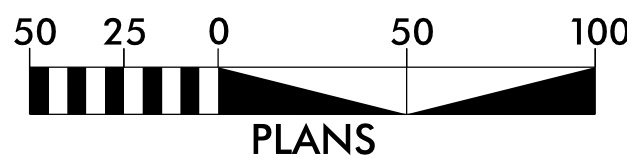
LOCATION: BRIDGE #890048 OVER WATER BRANCH
ON SR 1714 (BURNSVILLE RD)
TYPE OF WORK: GRADING, PAVING, DRAINAGE, & STRUCTURE



BEGIN STATE PROJECT TIP BP10-R023
-L- STA. 12 + 20.00

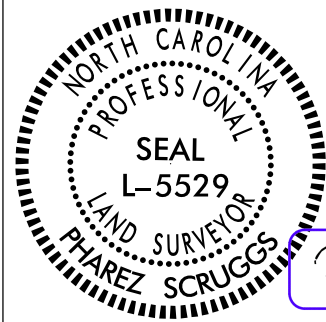


GRAPHIC SCALE



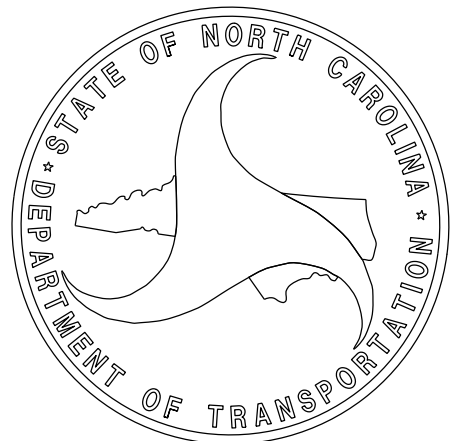
DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT
IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY
NCGS FOR MONUMENT "890048-1"
WITH NAD 83/NSRS 2011 NC STATE PLANE GRID COORDINATES OF
NORTHING: 495580.304(ft) EASTING: 1612741.548(ft)
ELEVATION: 409.711(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
(GROUND TO GRID) IS: 0.999861039
THE N.C. LAMBERT GRID BEARING AND
LOCALIZED HORIZONTAL GROUND DISTANCE FROM
"890048-1" TO -L- STATION 12+20.00 IS
S 55°07'30" E" 579.87'(ft)
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88



Signed by: *Perez Scruggs*
8877DADF5CD5489...
SIGNATURE:

06/29/2026
Date:



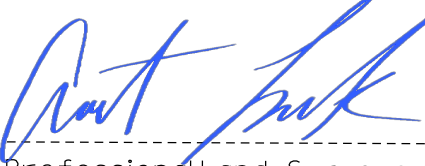
REVISIONS

I, AUGUST A. THICK II, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work items (Base map Compilation, Property, DTMs) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

I further certify that the property lines shown were compiled under my responsible charge from deeds and plats of record, and limited field surveys; that the existing property related markers as shown were field surveyed from existing survey control by others (see notes on control sheets); that the property lines compiled do not represent a boundary survey; that the parcels shown were compiled without the benefit of title reports and may be subject to or encumbered by easements, rights of way and other title matters not shown herein.

Witness my original signature, registration number and seal this 1st day of April, 2022.


Professional Land Surveyor

L-5373
PLS *

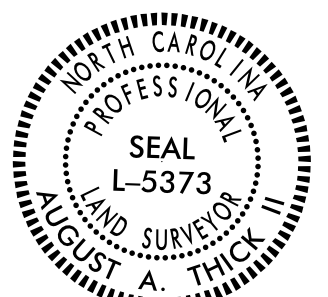
Seal

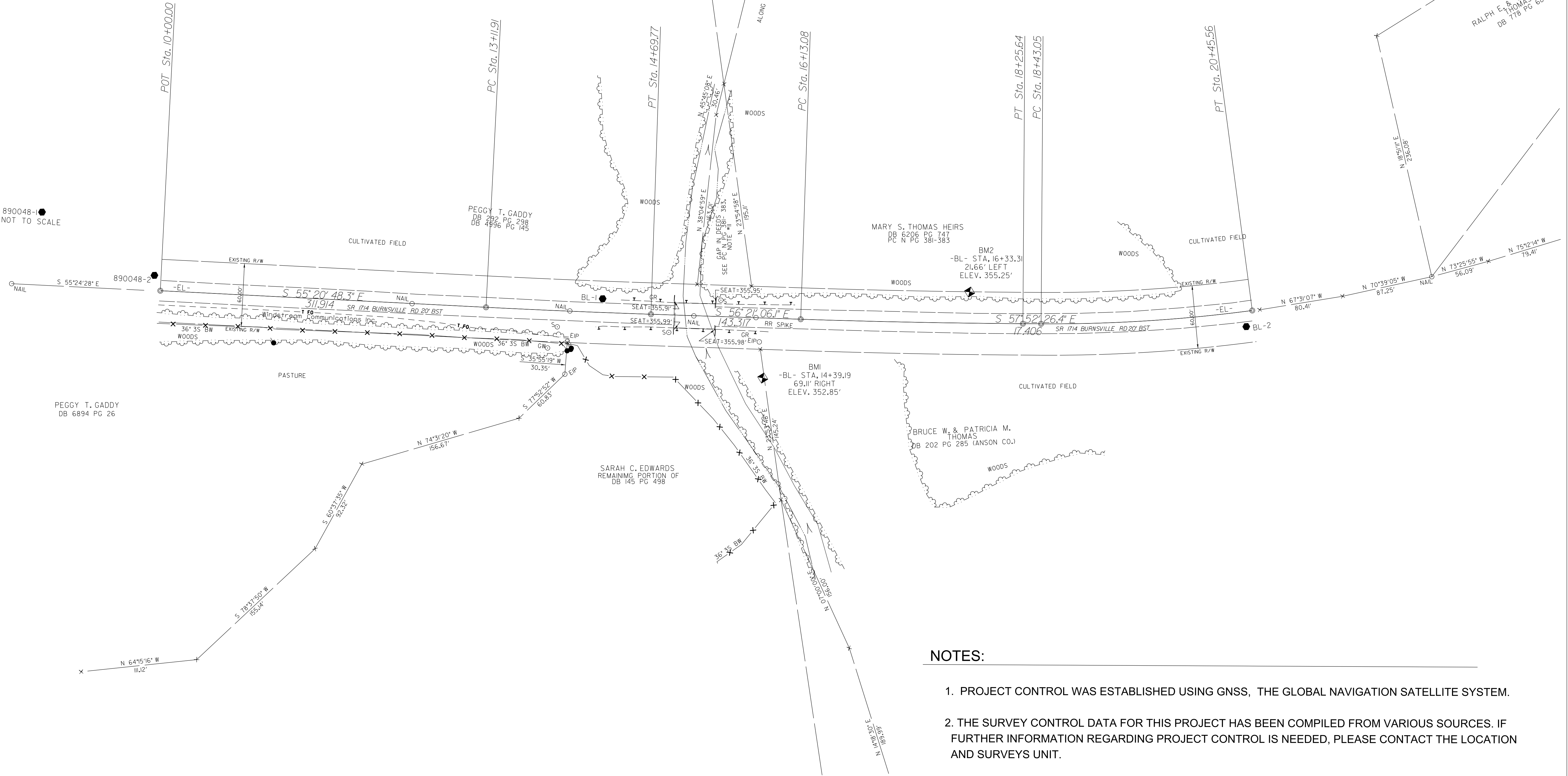


SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



PROJECT REFERENCE NO.	SHEET NO.
BP10.R023.1	RW2C-1
Location and Surveys	
	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

PROJECT REFERENCE NO.	SHEET NO.
BPIO.R023.1	RW2C-2
Location and Surveys	
DRMP	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EL									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT LINE	495373.835	1613036.300	S 55°20'48.3" E	311.91					
PC	495196.478	1613292.884							
CURVE			S 55°50'57.2" E	157.85	01°00'17.7(LT)	00°38'11.8"	157.85	78.93	9000.00
PT	495107.865	1613423.516							
LINE			S 56°21'06.1" E	143.32					
PC	495028.454	1613542.821							
CURVE			S 57°06'46.2" E	212.55	01°31'20.4(LT)	00°42'58.3"	212.56	106.28	8000.00
PT	494913.042	1613721.307							
LINE			S 57°52'26.4" E	17.41					
PC	494903.786	1613736.048							
CURVE			S 61°52'10.8" E	202.35	07°59'28.8(LT)	03°56'45.6"	202.52	101.42	1452.00
PT	494808.381	1613914.499							

```

*****
BM1      ELEVATION = 352.85
N 495000      E 1613482
BL STATION 14+39.19 69 RIGHT
BRIDGE SPIKE SET IN 29' OAK
*****

*****
BM2      ELEVATION = 355.25
N 494966      E 1613694
BL STATION 16+33.31 22 LEFT
BRIDGE SPIKE SET IN 7' OAK
*****

```

Witness my original signature, registration number and seal this 3rd day of February, 2022.

Seal



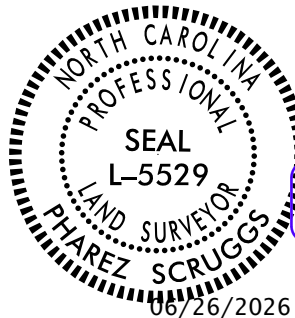
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

C:\NCDOT\08 CORP\IG\Projects\BP10.R023.dgn\260624_sheets\training_files\89-0048_rw02D.dgn
passeruggs AT DIV10-345634L

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
BP10-R023	RW02D
Location and Surveys	



I, PHAREZ SCRUGGS, PLS, certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

This 26TH day of JUNE, 2026.

Signed by:

Pharez Scruggs

PHAREZ SCRUGGS

Professional Land Surveyor L-5529

L			
TYPE	STATION	NORTH	EAST
POT	10+00.00	495373.8355	1613036.3005
PC	13+11.91	495196.4785	1613292.8837
PT	14+69.77	495107.8651	1613423.5156
PC	17+14.74	494972.1284	1613627.4423
PCC	18+94.26	494877.3386	1613779.8628
PT	20+45.59	494808.3807	1613914.4993

NOTES:

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE PROPOSED ALIGNMENT CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

6/2/99

25-JUN-2026 12:14
C:\NC001\08\CONF\IG\Projects\BP10\R023\ dgn\250624_sheets\training_files\89-0048_rw03E.dgn
passerjuggs AT DIV10-345634L

REVISIONS

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
BP10-R023	RW03E
Location and Surveys	

RIGHT OF WAY - L				
ALIGN	STATION	OFFSET	NORTH	EAST
L	13+45.00	-40.00	495210.7034	1613342.7581
L	13+45.00	40.00	495144.7279	1613297.5117
L	13+45.00	30.00	495152.9749	1613303.1675
L	13+45.00	-30.00	495202.4564	1613337.1023
L	13+75.00	-55.00	495206.2511	1613375.8595
L	13+75.00	-40.00	495193.8525	1613367.4170
L	13+90.00	55.00	495106.8443	1613326.4298
L	13+90.00	40.00	495119.2570	1613334.8515
L	13+94.82	55.31	495103.8627	1613330.2675
L	14+50.69	44.90	495081.1287	1613382.6864
L	14+52.52	55.00	495071.7106	1613378.6018
L	14+69.77	55.00	495062.0801	1613393.0404
L	14+69.77	-55.00	495153.6501	1613453.9907
L	15+00.00	-60.00	495141.0607	1613481.9284
L	15+00.00	-55.00	495136.8984	1613479.1579
L	15+50.00	-40.00	495096.7069	1613512.4692
L	15+50.00	-60.00	495113.3560	1613523.5511
L	15+77.16	40.00	495015.0625	1613490.7495
L	15+79.74	55.00	495001.1472	1613484.5841
L	15+85.00	-30.00	495068.9891	1613536.0642
L	15+85.00	-40.00	495077.3136	1613541.6051
L	16+30.00	29.98	494994.1224	1613540.2889
L	16+30.00	40.00	494985.7831	1613534.7381



I, PHAREZ SCRUGGS, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 4/21/2025 to 4/25/2025 and 5/4/2026 to 5/8/2026, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 26TH day of JUNE, 2026.

Signed by: *Pharez Scruggs*
8877DACF5C0D5488
Professional Land Surveyor L-5529

NOTES:

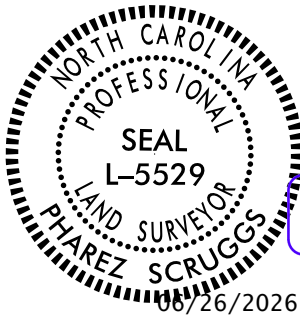
- 1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- 2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 3. RIGHT OF WAY MONUMENTATION ESTABLISHED 4/21/2025 to 4/25/2025 and 5/4/2026 to 5/8/2026.

REVISIONS

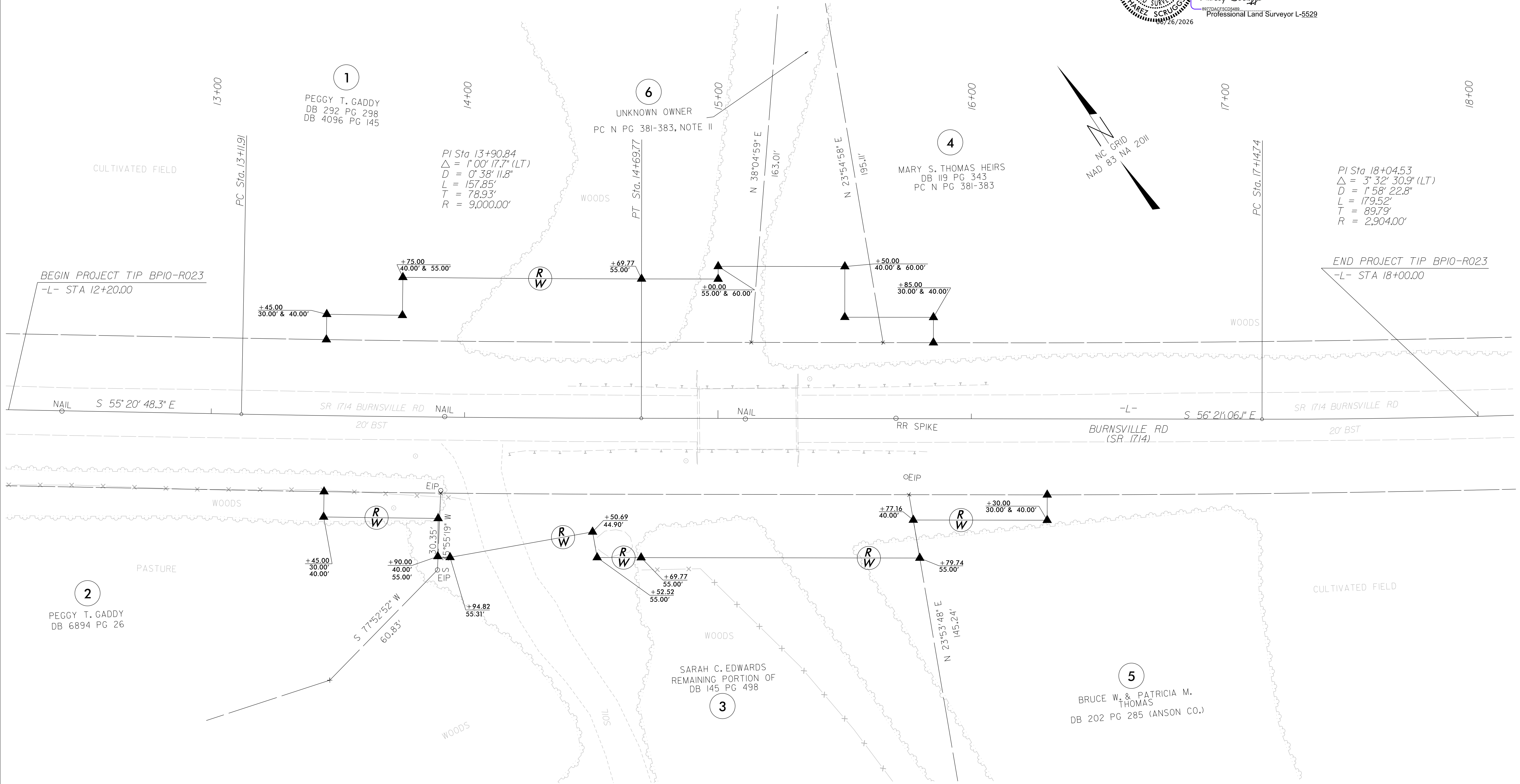
PROJECT REFERENCE NO.	SHEET NO.
BP10-R023	RW04
Location and Surveys	

I, PHAREZ SCRUGGS, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 4/21/2025 to 4/25/2025 and 5/4/2026 to 5/8/2026, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 26TH day of JUNE, 2026.



Signed by: *Pharez Scruggs*
8977DAGFSC05489
Professional Land Surveyor L-5529



NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
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3. RIGHT OF WAY MONUMENTATION ESTABLISHED 4/21/2025 to 4/25/2025 and 5/4/2026 to 5/8/2026.

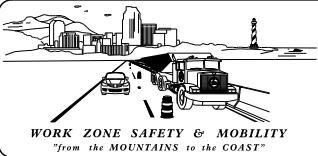
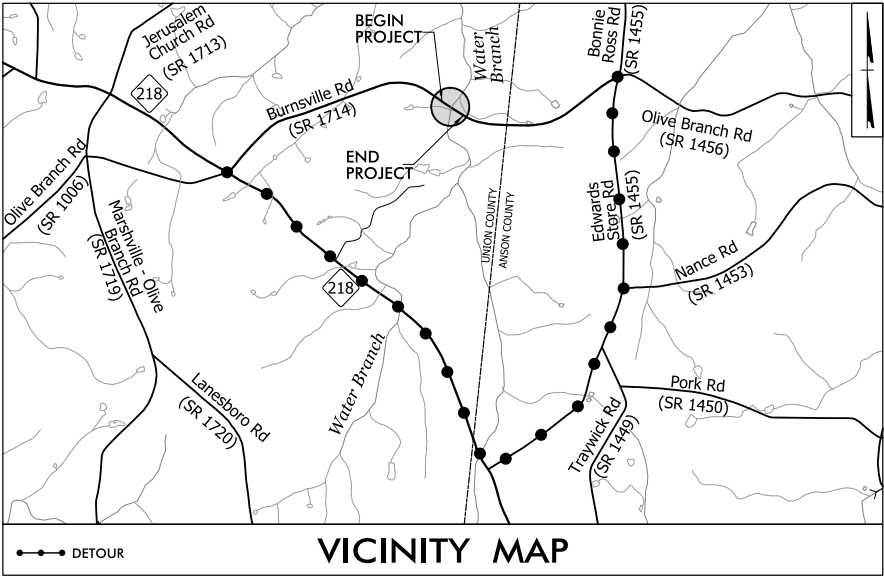
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

UNION COUNTY



**LOCATION: BRIDGE #48 OVER WATER BRANCH
ON SR 1714 (BURNSVILLE RD)**



PLANS PREPARED BY:

MORGAN STAHL, PE
TRAFFIC ENGINEER

CARLOS OWENS
TRANSPORTATION DESIGNER

NCDOT CONTACTS:

THEO GHITEA, PE
PROJECT ENGINEER



INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-2	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-3	TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES, LOCAL NOTES & PHASING)
TMP-4	TEMPORARY TRAFFIC CONTROL DETAILS
TMP-5	SPECIAL SIGN DESIGN

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

stv

STV Engineers, Inc.
2151 Hopkirk Street, Suite 1400
Charlotte, NC 28203
NC License Number F-0991

APPROVED: _____

DATE: _____

SEAL

8/21/2026



TIP PROJECT: BP10-R023

CONTRACT: DJ00599

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" -
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:

<u>STD. NO.</u>	<u>TITLE</u>
1101.03	TEMPORARY ROAD CLOSURES
1110.01	STATIONARY WORK ZONE SIGNS
1145.01	BARRICADES

GENERAL

-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  EXIST. PVMT.
-  NORTH ARROW
-  PROPOSED PVMT.

 WORK AREA

SIGNALS

-  EXISTING
-  PROPOSED
-  TEMPORARY
-  MODIFIED

PAVEMENT MARKINGS

-  EXISTING LINES
-  TEMPORARY LINES

LEGEND

TRAFFIC CONTROL DEVICES

-  BARRICADE (TYPE III)
-  CONE
-  DRUM
-  SKINNY DRUM
-  TUBULAR MARKER
-  TEMPORARY CRASH CUSHION
-  FLASHING ARROW BOARD
-  FLAGGER
-  LAW ENFORCEMENT
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

-  CRYSTAL/CRYSTAL
-  CRYSTAL/RED
-  YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

-  PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

PAINT 4"

- P2 WHITE SOLID LANE LINE

PAINT MARKING SYMBOLS

- P71 RIGHT TURN ARROW



STV Engineers, Inc.
2151 Howland Street, Suite 1400
Charlotte, NC 28203
NC License Number F-0991

PROJ. REFERENCE NO.	SHEET NO.
BP10-R023	TMP-2

APPROVED: _____ DATE: _____ SEAL 8/21/2026			ROADWAY STANDARD DRAWINGS & LEGEND
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

stvy

STV Engineers, Inc.
2130 Haulers Street, Suite 1400
Charlotte, NC 28203
NC License Number F-2991

PROJ. REFERENCE NO.	SHEET NO.
BP10-R023	TMP-3

PROJECT NOTES

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TRAFFIC PATTERN ALTERATIONS

- A) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- B) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

- C) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

- D) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

LOCAL NOTES

1. CONTACT UNION COUNTY AND ANSON COUNTY EMERGENCY SERVICES AND SCHOOLS AT LEAST ONE MONTH PRIOR TO CONSTRUCTION.

PHASING

NOTE: BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL PLACE ADVANCE WORK ZONE WARNING SIGNS. (SEE RSD 1101.01, SHEET 3 OF 3)

PHASE 1

STEP 1

INSTALL OFF-SITE DETOUR SIGNING TO CLOSE BURNSVILLE ROAD TO THROUGH TRAFFIC (SEE TMP-4).

USING RSD 1101.03 (SHEETS 1 AND 2 OF 9) INSTALL TYPE III BARRICADES CLOSE BURNSVILLE ROAD TO THROUGH TRAFFIC.

STEP 2

AWAY FROM TRAFFIC, REMOVE THE EXISTING BRIDGE, CONSTRUCT PROPOSED BRIDGE, DRAINAGE, AND ROADWAY INCLUDING THE FINAL LAYER OF SURFACE CURSE.

STEP 3

PLACE FINAL PAVEMENT MARKINGS.

PHASE 2

STEP 1

USING RSD 1101.04, REMOVE ALL TRAFFIC CONTROL DEVICES, SIGNING AND DETOUR ROUTE SIGNING.

STEP 2

OPEN BURNSVILLE ROAD TO THE FINAL TRAFFIC PATTERN.

7/14/2026
R:\Traffic\TrafficControl\TCP\TMP_SHT\AR023_R0Y_TMP03.dgn
Shahm

APPROVED: _____
DATE: _____

SEAL
8/21/2026



TRANSPORTATION
MANAGEMENT PLAN
PROJECT NOTES

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

OFF-SITE DETOUR SIGNING AND ROAD CLOSURE SIGNING

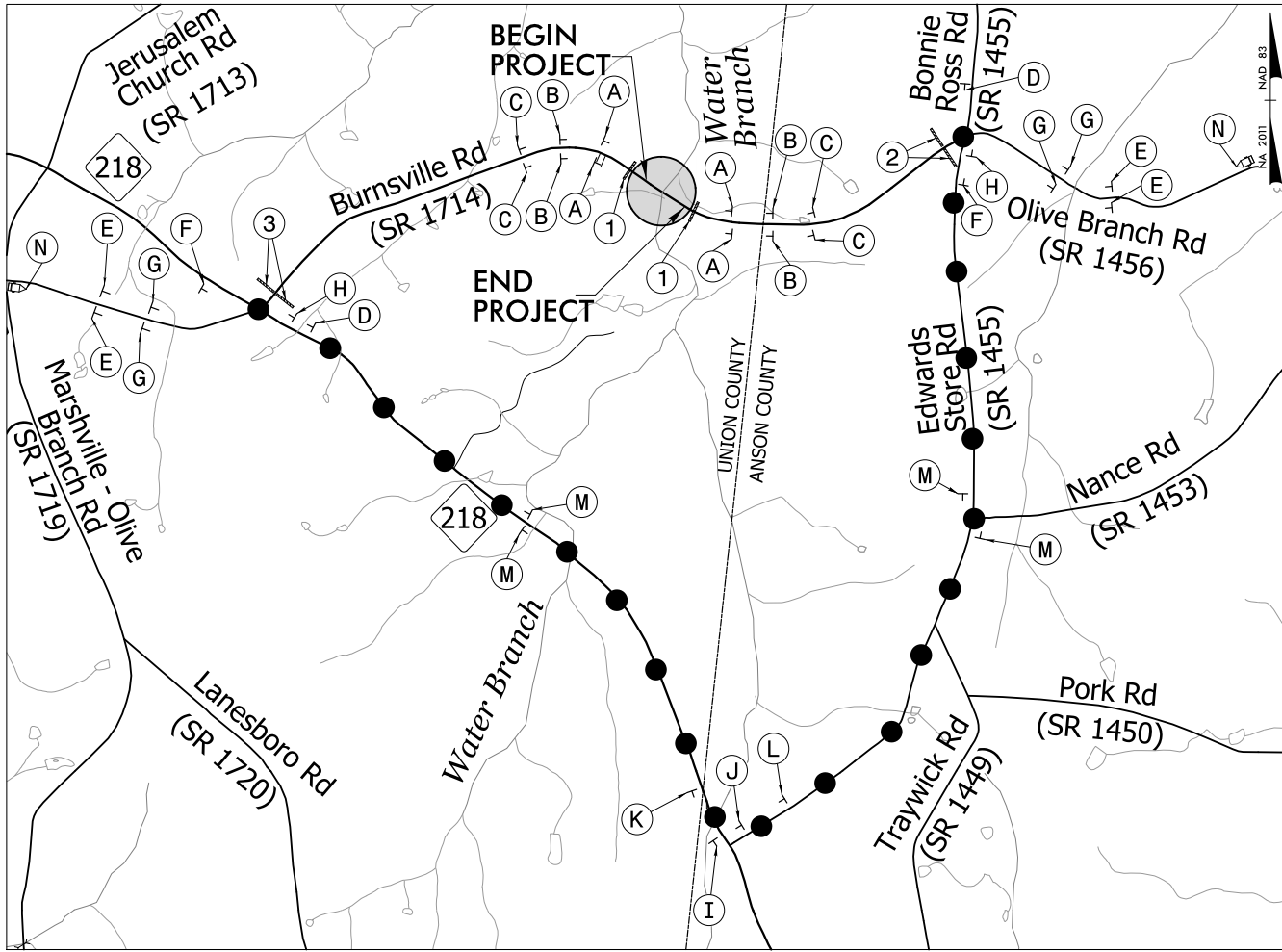


STV Engineers, Inc.
2130 Haulers Street, Suite 1400
Charlotte, NC 28203
NC License Number F-0991

PROJ. REFERENCE NO.	SHEET NO.
BP10-R023	TMP-4

NOTE: MAINTAIN DRIVEWAY ACCESS THROUGHOUT THE PROJECT LIMITS.

SEE ROADWAY STD DWG 1101.03, SHEET 1 & 2 OF 9 FOR ADVANCED WARNING AND BARRICADE PLACEMENT.





ROAD CLOSED 500 FT

W20-3 48" X 48"

A



ROAD CLOSED 1000 FT

W20-3 48" X 48"

B



ROAD CLOSED AHEAD

W20-3 48" X 48"

C



ROAD CLOSED AHEAD

W20-3 48" X 48"

D



ROAD CLOSED AHEAD

W20-3 48" X 48"

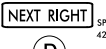
E



ROAD CLOSED AHEAD

W20-3 48" X 48"

F



NEXT RIGHT

SR-4R 42" X 12"

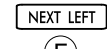
D



1/2 MILES

W16-3P 24" X 24"

E



NEXT LEFT

SR-4L 42" X 12"

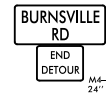
F



DETOUR AHEAD

W20-2 48" X 48"

G



BURNSVILLE RD

END DETOUR

M4-8 A 24" X 18"

H



BURNSVILLE RD

DETOUR

M4-8 24" X 12"

M6-1 L 21" X 15"

I



BURNSVILLE RD

DETOUR

M4-8 24" X 12"

M6-1 21" X 15"

J



BURNSVILLE RD

DETOUR

M4-8 24" X 12"

M5-1 L 21" X 15"

K



BURNSVILLE RD

DETOUR

M4-8 24" X 12"

M5-1 R 21" X 15"

L



BURNSVILLE RD

DETOUR

M4-8 24" X 12"

M6-3 21" X 15"

M

MESSAGE PRIOR TO CLOSURE:		MESSAGE DURING CLOSURE:	
MESSAGE NO. 1	MESSAGE NO. 2	MESSAGE NO. 1	MESSAGE NO. 2
BURNSVILLE RD	STARTING (DAY)	BURNSVILLE RD	FOLLOW
CLOSED	(TIME)	CLOSED	POSTED
CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN	

N



TYPE III BARRICADE(S)

1



TYPE III BARRICADE

2



TYPE III BARRICADE

3

ROADWAY DETOUR

APPROVED: _____

DATE: _____

SEAL

8/21/2025

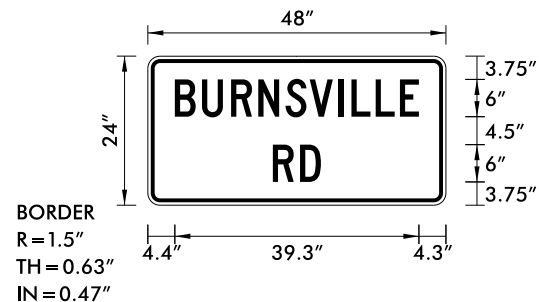
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



TRANSPORTATION MANAGEMENT PLAN DETOUR ROUTE

7/14/2025
R:\TrafficControl\TMP_SHT\BP10-R023-RD-TMP04.dgn
Shahm

DESIGN BY: SLS **CHECKED BY:** GHM
PROJECT ID: BP10.R023.3 **DIV:** 10 **DATE:** Jul 15, 2022



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

[illegible]

NORTH CAROLINA D.O.T. SIGN DETAIL

APPROVED: _____		 TRANSPORTATION MANAGEMENT PLAN SPECIAL SIGN DESIGN BURNSVILLE ROAD
DATE: _____		
SEAL 8/21/2026		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

8/17/24

TIP PROJECT: BP10-R023

7/14/2026 10:10 AM TrafficControl\TCP\SR\BP10R023_PMP-1.dgn

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING & SIGNING PLAN
UNION COUNTY

LOCATION: BRIDGE #890048 OVER WATER BRANCH ON SR 1714 (BURNSVILLE ROAD)

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE SHEET
PMP-2	PAVEMENT MARKING DETAIL

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN 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
940.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON U' CHANNEL SUPPORTS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LBS STEEL U-CHANNEL.....	14	L.F.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	2	EA.

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

- A) INSTALL PAVEMENT MARKINGS ON THE FINAL SURFACE.
- | | | | |
|-----|---------------------------|---------------|---------|
| | ROAD NAME | MARKING | MARKERS |
| -L- | SR 1714 (BURNSVILLE ROAD) | THERMOPLASTIC | NONE |
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
- E) REPLACE ANY PAVEMENT MARKINGS BEYOND THE PROJECT LIMITS DAMAGED BY THE CONTRACTORS' OPERATIONS DURING CONSTRUCTION.

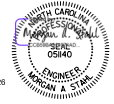
SIGNING GENERAL NOTES

- A) SIGNING PLANS DO NOT INCLUDE TEMPORARY CONSTRUCTION SIGNING. SEE TRAFFIC MANAGEMENT PLANS.
- B) WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER.
- C) ALL EXISTING SIGNS ON U-CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- D) IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY THE CONTRACTOR.
- E) SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

PLAN PREPARED BY:
STV Engineers, Inc.

MORGAN STAHL, PE TRAFFIC ENGINEER
CARLOS OWENS TRANSPORTATION DESIGNER

STV STV Engineers, Inc.
2151 Hawkins Street, Suite 1400
Charlotte, NC 28203
NC License Number T-0991

TIP NO.	SHEET NO.
BP10-R023	PMP-1
APPROVED: _____	
DATE: _____	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

8/17/2026

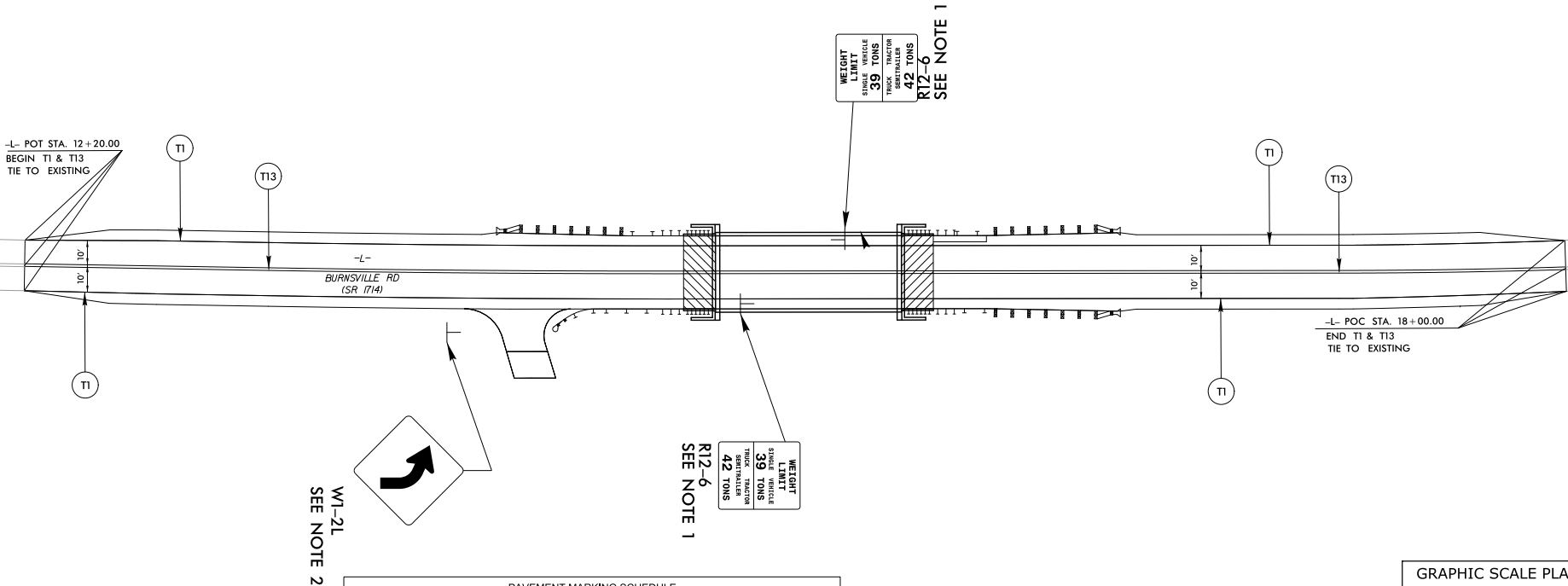
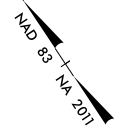
7/14/2026
S:\Projects\TrafficControl\TFC\SH1\BP10-R023_PMP-3.dgn

NOTES	
1.	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
2.	RELOCATE EXISTING SIGN SYSTEM AND ERECT NEW U-CHANNEL

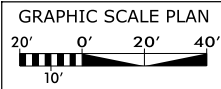


STV Engineers, Inc.
2151 Hawkins Street, Suite 1400
Charlotte, NC 28203
NC License Number F-0991

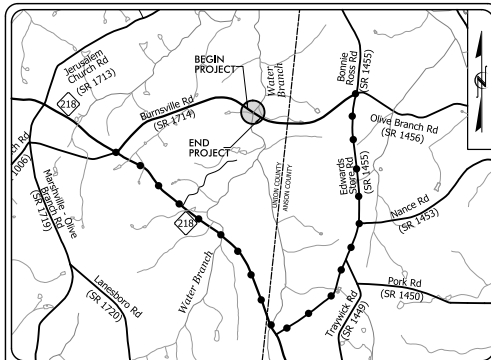
TIP NO.	SHEET NO.
BP10-R023	PMP-2
APPROVED: _____	
DATE: _____	
SEAL	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



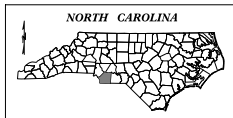
PAVEMENT MARKING SCHEDULE	
(T1)- THERMOPLASTIC	WHITE EDGELINE (4", 90MIL)
(T13)- THERMOPLASTIC	YELLOW DOUBLE CENTER (4", 90MIL)



PAVEMENT MARKING DETAIL



VICINITY MAP
NOT TO SCALE



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

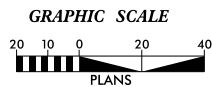
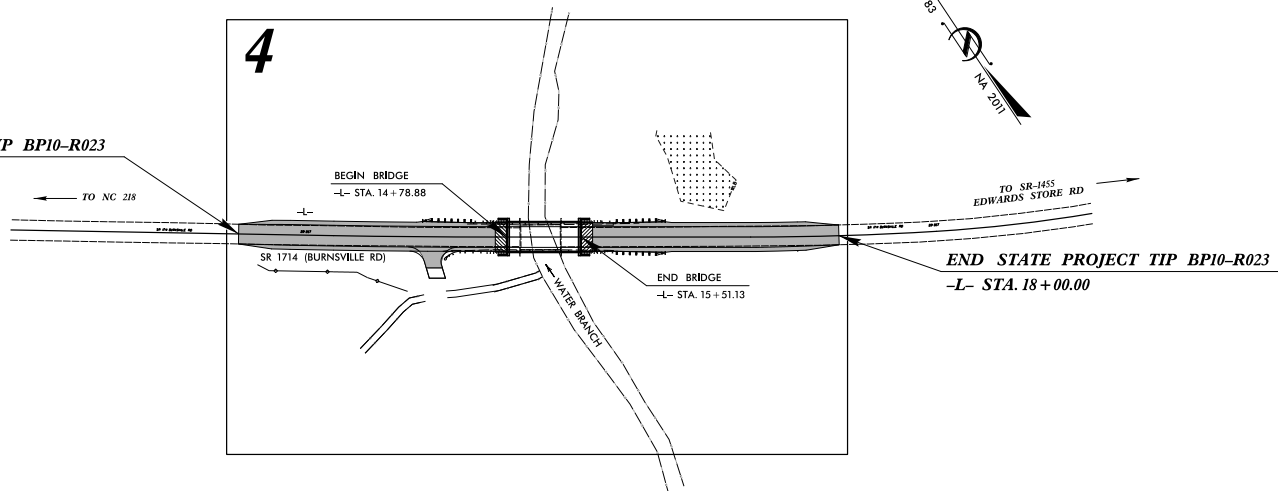
PLAN FOR PROPOSED HIGHWAY EROSION CONTROL UNION COUNTY

LOCATION: BRIDGE #48 OVER WATER BRANCH
ON SR 1714 (BURNSVILLE RD)
TYPE OF WORK: GRADING, PAVING, DRAINAGE, & STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BP10-R023	EC-1	7
STATE PROGRAM	F.A. PROGRAM	DESCRIPTION	
BP10.R023.1		P.E.	
BP10.R023.2		ROW & UTIL	
BP10.R023.3		CONSTRUCTION	

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

BEGIN STATE PROJECT TIP BP10-R023
-L- STA. 12 + 20.00



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

stv STV Engineers, Inc.
2151 Hawkins Street, Suite 1400
Charlotte, NC 28203
NC License Number F-0991

Prepared In the Office of:
STV ENGINEERS, INC.
2151 HAWKINS STREET, SUITE 1400
CHARLOTTE, NC 28203

Designed by:
JOHNELL KINCAID 4881
NAME LEVEL III CERTIFICATION NO.

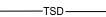
Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C.
Department of Transportation - Raleigh, N. C., dated January 2024
and the latest revision thereto are applicable to this project and by
reference hereby are considered a part of these plans.

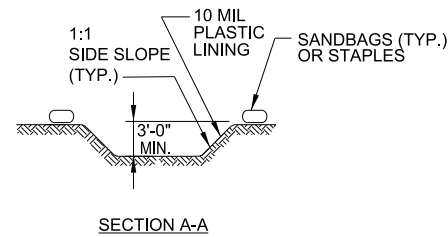
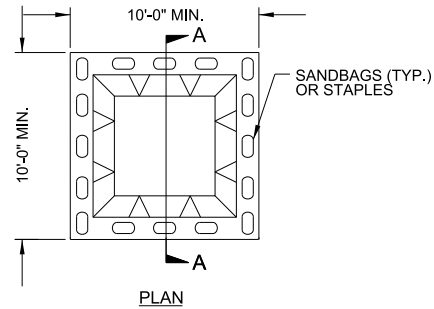
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
BPIO-R023	EC-1A
 STV Engineers, Inc. 2151 Heavens Street, Suite 1400 Charlotte, NC 28203 NC License Number F-0991	

EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1630.02	Silt Basin Type B		1634.01	Temporary Rock Sediment Dam Type A	
1630.03	Temporary Silt Ditch		1634.02	Temporary Rock Sediment Dam Type B	
1630.04	Stilling Basin		1635.01	Rock Pipe Inlet Sediment Trap Type A	
1630.05	Temporary Diversion		1635.02	Rock Pipe Inlet Sediment Trap Type B	
1630.06	Special Stilling Basin		1636.01	Excelsior Wattle Check	
1630.07	Skimmer Basin		1636.01	Excelsior Wattle Check with Flocculant	
1630.08	Tiered Skimmer Basin		1636.01	Coir Fiber Wattle Check	
1630.09	Earthen Dam with Skimmer		1636.01	Coir Fiber Wattle Check with Flocculant	
	Infiltration Basin		1636.02	Silt Fence Excelsior Wattle Break	
	Rock Inlet Sediment Trap:			Silt Fence Coir Fiber Wattle Break	
1632.01	Type A				
1632.02	Type B		1636.03	Excelsior Wattle Barrier	
1632.03	Type C		1636.03	Coir Fiber Wattle Barrier	

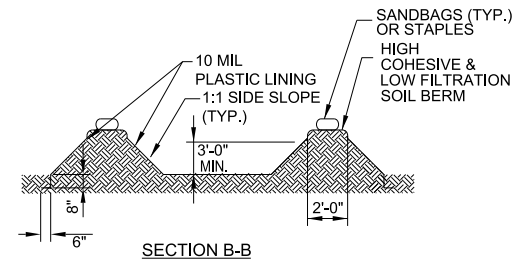
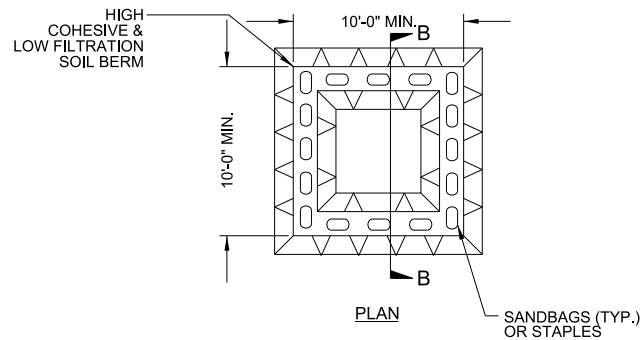
ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



BELOW GRADE WASHOUT STRUCTURE

NOT TO SCALE

- 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.



ABOVE GRADE WASHOUT STRUCTURE

NOT TO SCALE

- 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.

PROJECT REFERENCE NO. <i>BPIO-R023</i>	SHEET NO. <i>EC-3</i>
---	--------------------------

stv STV Engineers, Inc.
2151 Hawkins Street, Suite 1400
Charlotte, NC 28203
NC License Number F-0991

PERMANENT SOIL REINFORCEMENT MAT – TYPE 1

[illegible]

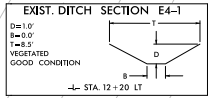
8/26/2026
P:\projects\4021477_0001\50.Deliverables & Submittals\R023.Union Bridge.048\Environmental\Design\EC Sheets\R023_EC_psh03.dgn
c:\psh03

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
BPIO-R023	EC-3A
 STV Engineers, Inc. 2151 Hawkins Street, Suite 1400 Charlotte, NC 28203 NC License Number E-0991	

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 TO 4:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH WITH SLOPES STEEPER THAN 4:1. 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES



PEGGY T. GADDY
DB 292 PG 298
DB 4096 PG 145

4
RALPH EDWARD THOMAS SR
& CRYSTAL THOMAS -
DB 9247 PG 665
PC N PG 381-383

BM2
+BL- STA. 16+33.31
21.66' LEFT
ELEV. 355.25'

END PROJECT TIP BPI0-R023
-L- STA 18+00.00

BEGIN PROJECT TIP BPI0-R023
-L- STA 12+20.00

SR 171

PEGGY T. GADDY
DB 6894 PG 26

EXIST. DITCH SECTION E4-2

D=1.6'
B=0.0'
T=19.0'
VEGETATED
GOOD CONDITION

— STA. 12+50 RT

BMI
-BL- STA. 14+39.19
69.11' RIGHT
ELEV. 352.85'

EXIST. DITCH SECTION E4-3

D=1.0'
B=2.0'
T=6.0'
VEGETATED
GOOD CONDITION

— STA. 18+00 LT

EXIST. DITCH SECTION E4-4

D = 1.5'
B = 2.0'
T = 4.0'

STONE & EXPOSED BEDROCK
FAIR CONDITION
SIDE OF CHANNEL ERODED

— STA. 18+00 RT

BRUCE W. & PATRICIA M.
THOMAS
DB 202 PG 285 (ANSON CO

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

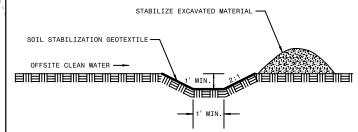
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE -
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS

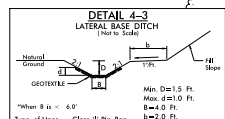
NOTE: UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

NOTE: FOLLOW NCDOT BMP MANUAL FOR CONSTRUCTION ACTIVITIES FOR THE BRIDGE DEMOLITION AND CONSTRUCTION.

CLEAN WATER DIVERSION

(Not to Scale)





EST. 32 TONS CLASS 'T' RIP RAP
EST. 50 SY GEOTEXTILE

EST. 24 TONS CLASS '1' RIPRAP
EST. 24 SY GEOTEXTILE
SEE DETAIL 4-3
DDE - 60 CY

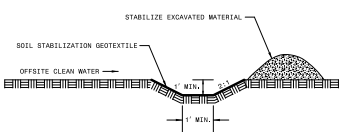
3
ANDREW M & SARA E
EVANS
DB 8648 PG 683

Install Matting for Erosion Control on all Fill Slopes Behind Guardrail as Work Allows

NOTE: FOLLOW NCDOT BMP MANUAL FOR CONSTRUCTION ACTIVITIES FOR THE BRIDGE DEMOLITION AND CONSTRUCTION.

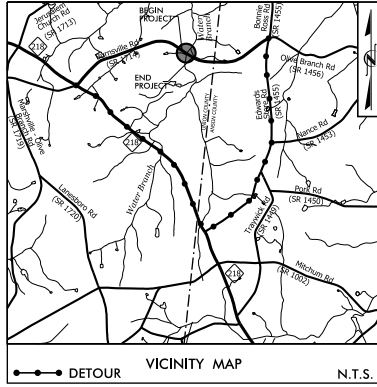
CLEAN WATER DIVERSION

--- CWD --- CWD --- CWD --- CWD --- CWD --- CWD ---
(Not to Scale)



9/13/22

TIP PROJECT: BP10-R023



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES BY OTHERS PLANS
UNION COUNTY

LOCATION: BRIDGE #48 OVER WATER BRANCH
ON SR 1714 (BURNSVILLE RD)
TYPE OF WORK: RELOCATION OF POWER AND TELEPHONE.

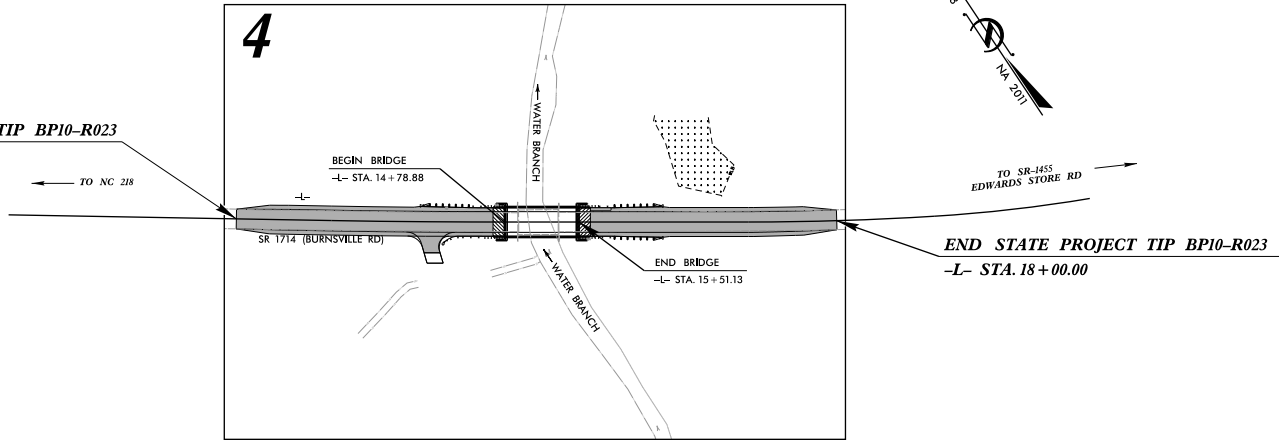
T.I.P. NO.	SHEET NO.
BP10-R023	UO-1

NOTE:
ALL UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS.
NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.



BEGIN STATE PROJECT TIP BP10-R023

-L- STA. 12 + 20.00



END STATE PROJECT TIP BP10-R023
-L- STA. 18 + 00.00

GRAPHIC SCALES



INDEX OF SHEETS

SHEET NO.:

UO-1

UO-2

UO-3

UO-4

DESCRIPTION:

TITLE SHEET

UBO SYMBOLOGY SHEET

OMITTED

UBO PLAN SHEETS

UTILITY OWNERS WITH CONFLICTS

(A) POWER - PEE DEE EMC

(B) TELEPHONE - WINDSTREAM

PREPARED IN THE OFFICE OF:



Charlotte,
North Carolina
104 359 9608
License #C-3097

Nick Asaro, PLS

UTILITY PROJECT MANAGER

Bill Black

PROJECT UTILITY COORDINATOR



DIVISION OF HIGHWAYS
DIVISION 10
DIV ADDRESS
705 W. MAIN ST
ALBEMARLE, NC 28001

Lynn Basinger

DIVISION UTILITY ENGINEER

Adam J. Preslar

SENIOR DIVISION
UTILITY COORDINATOR

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
BP10-R023	U0-2

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	
11¼ Degree Bend	
22½ Degree Bend	
45 Degree Bend	
90 Degree Bend	
Plug	
Tee	
Cross	
Reducer	
Gate Valve	
Butterfly Valve	
Tapping Valve	
Line Stop	
Line Stop with Bypass	
Blow Off	
Fire Hydrant	
Relocate Fire Hydrant	
Remove Fire Hydrant	
Water Meter	
Relocate Water Meter	
Remove Water Meter	
Water Pump Station	
RPZ Backflow Preventer	
DCV Backflow Preventer	
Relocate RPZ Backflow Preventer	
Relocate DCV Backflow Preventer	

PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	
Force Main Sewer Line (Sized as Shown)	
Manhole (Sized per Note)	
Sewer Pump Station	

PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	
Utility Line by Others (Type as Shown)	
Trenchless Installation	
Encasement by Open Cut	
Encasement	

Thrust Block	
Air Release Valve	
Utility Vault	
Concrete Pier	
Steel Pier	
Plan Note	
Pay Item Note	

EXISTING UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Utility Pole	
Utility Pole with Base	
H-Frame Pole	
Power Transmission Line Tower	
Water Manhole	
Power Manhole	
Telephone Manhole	
Sanitary Sewer Manhole	
Hand Hole for Cable	
Power Transformer	
Telephone Pedestal	
CATV Pedestal	
Gas Valve	
Gas Meter	
Located Miscellaneous Utility Object	
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

*Underground Power Line	
*Underground Telephone Cable	
*Underground Telephone Conduit	
*Underground Fiber Optics Telephone Cable	
*Underground TV Cable	
*Underground Fiber Optics TV Cable	
*Underground Gas Pipeline	
Aboveground Gas Pipeline	
*Underground Water Line	
Aboveground Water Line	
*Underground Gravity Sanitary Sewer Line	
Aboveground Gravity Sanitary Sewer Line	
*Underground SS Forced Main Line	
Underground Unknown Utility Line	
SUE Test Hole	
Water Meter	
Water Valve	
Fire Hydrant	
Sanitary Sewer Cleanout	

*For Existing Utilities	
Utility Line Drawn from Record (Type as Shown)	
Designated Utility Line (Type as Shown)	



Charlotte,
North Carolina
704 359 0488
License #C-3097

13+00

PEGGY T. GADDY
DB 292 PG. 298
DB 4096 PG 145

14+00

BEGIN APPROACH SLAB
-L- STA.14+68.00

BEGIN STATE PROJECT TIP BP10-R023
-L- STA 12+20.00

EXISTING R/W

SR 1714 BURNSVILLE RD

BEGIN BRIDGE
-L- STA.14+78.88

MARY S. THOMAS HEIRS
DB 119 PG 343
PC N PG 381-383

NAD 83
NA 2011

16+00

END APPROACH SLAB
-L- STA.15+62.00

BURNSVILLE RD
(SR 1714)

END STATE PROJECT TIP BP10-R023
-L- STA 18+00.00

WINSTREAM TO RELOCATE UG CABLE
TO NEW PEE DEE ELECTRIC POWER POLE

PEE DEE ELECTRIC TO
INSTALL NEW POWER POLE

PEGGY T. GADDY
DB 6894 PG 26

WINSTREAM TO REMOVE
EXISTING TELEPHONE POLE

PEE DEE ELECTRIC TO REMOVE
EXISTING POWER POLE

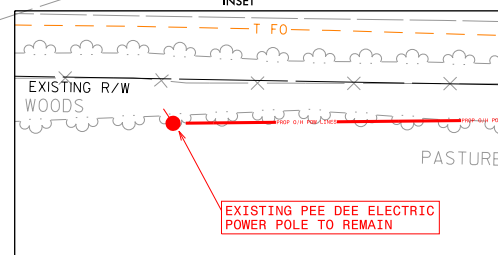
WINSTREAM TO INSTALL AERIAL LINE
TO PEE DEE ELECTRIC POWER POLES

EXISTING PEE DEE ELECTRIC
POWER POLE TO REMAIN

PEE DEE ELECTRIC TO
INSTALL NEW POWER POLE

BRUCE W. & PATRICIA M.
THOMAS
DB 202 PG 285 (ANSON CO.)

INSET



SARAH C. EDWARDS
REMAINING PORTION OF
DB 148 PG 248



UTILITIES BY OTHERS

ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS. NO
PAYMENT WILL BE MADE TO
THE CONTRACTOR FOR
PROPOSED UTILITY WORK
SHOWN ON THIS SHEET.

PROJECT REFERENCE NO.	SHEET NO.
BP10-R023	UD-4
THIS SHEET CORRESPONDS TO RDY-4	

1/2/2025 11:56:00 AM
11/2/2025 11:56:00 AM
11/2/2025 11:56:00 AM

Quantities are approximate only. The Resident Engineer will recross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PROJ. REFERENCE NO.
BP10-R023

SHEET NO.
X-1

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

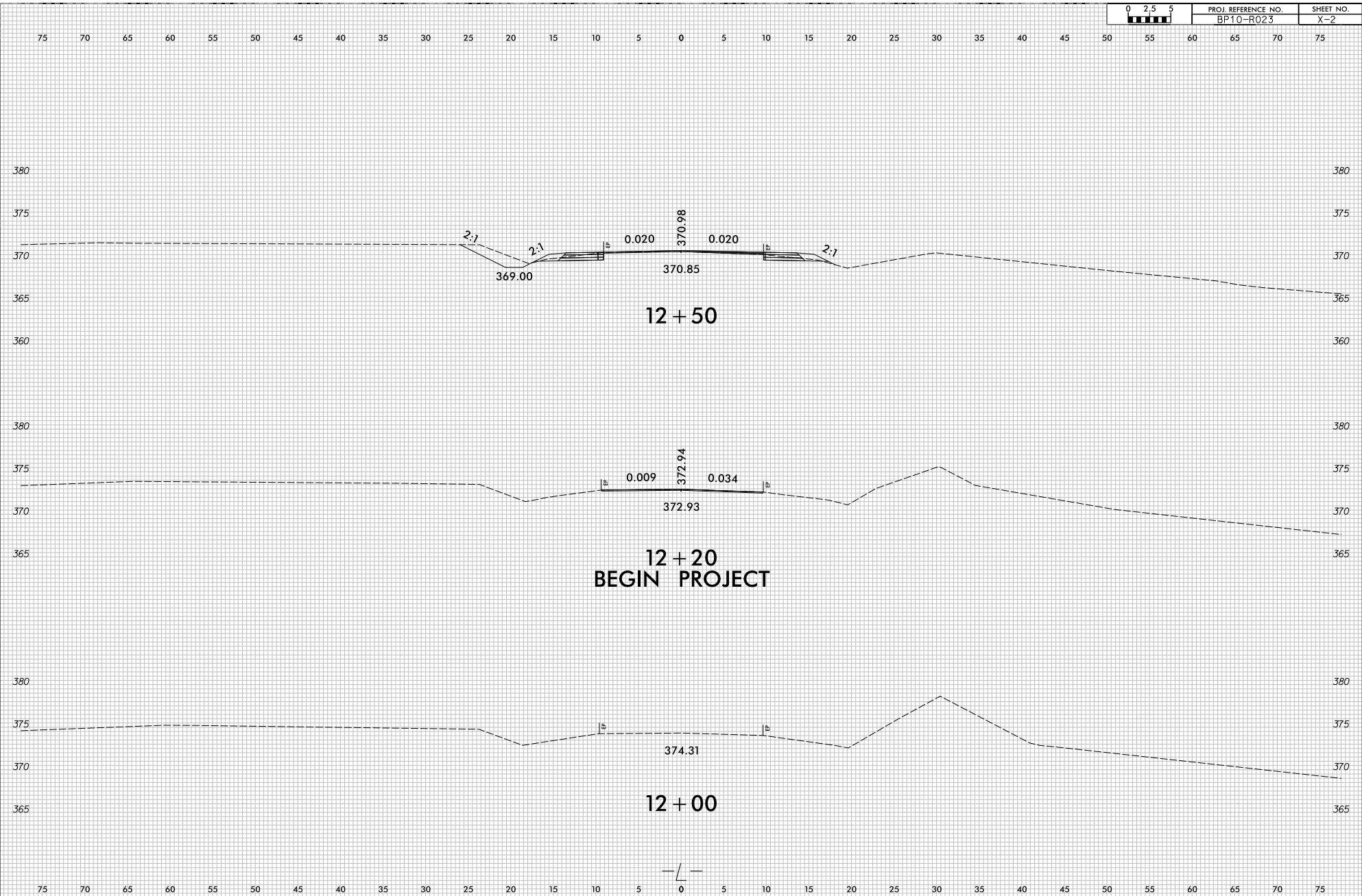
CROSS-SECTION SUMMARY

Station	Uncl. Exc.	Embt
L	(cu. yd.)	(cu. yd.)
12+20.00	0	0
12+50.00	3	0
13+00.00	7	7
13+50.00	1	60
14+00.00	0	157
14+10.00	0	42
14+50.00	0	209
14+78.88	0	0

Station	Uncl. Exc.	Embt
L	(cu. yd.)	(cu. yd.)
15+51.13	0	0
16+00.00	0	0
16+50.00	0	87
17+00.00	3	45
17+50.00	13	28
18+00.00	18	2
18+50.00	0	0

6/23/16
6/12/2026
R:\Roadway\Corridor Modeling\823\dj_sp1.dgn

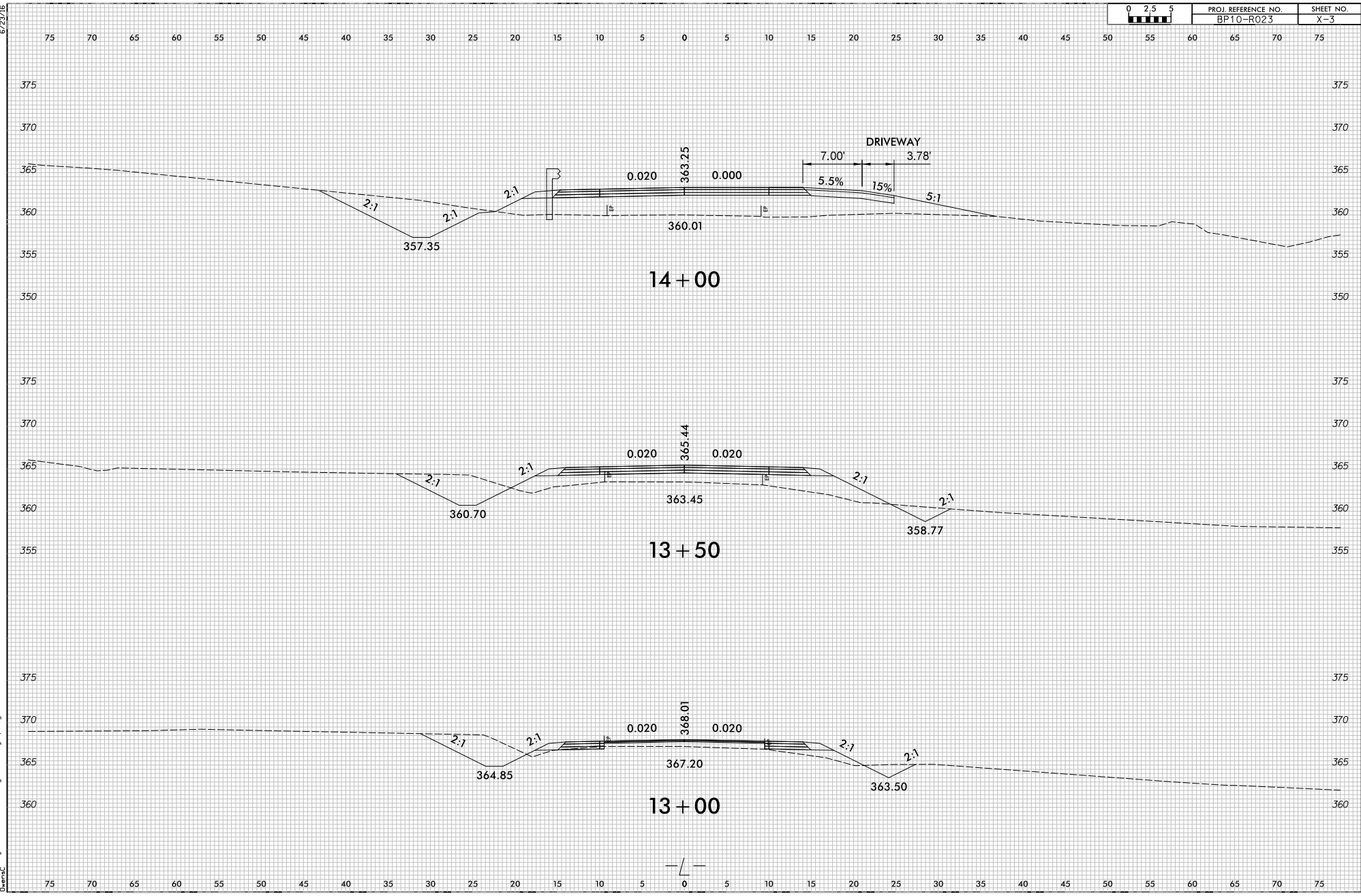
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	BP10-R023	X-2



6/23/16

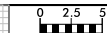
6/12/2016
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0 2.5 5	PROJ. REFERENCE NO. BP10-R023	SHEET NO. X-3
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6/23/16

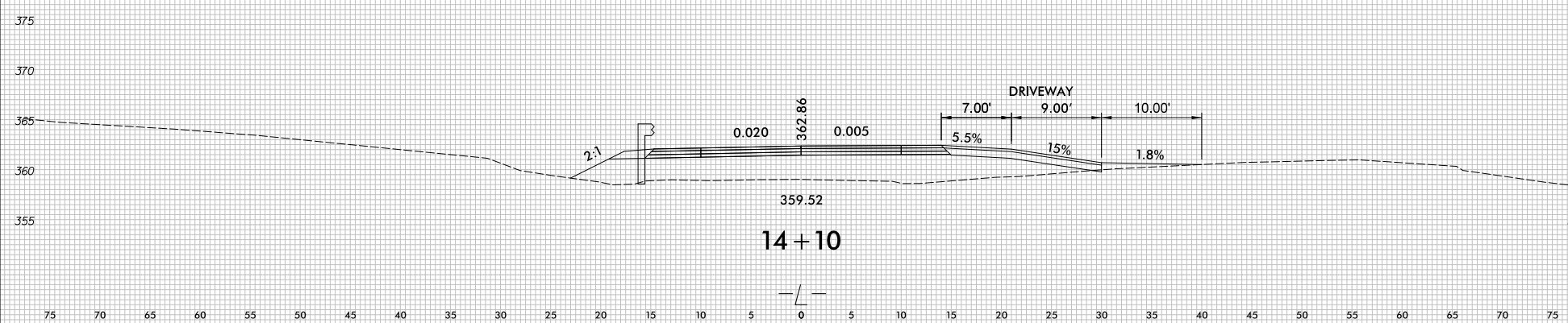
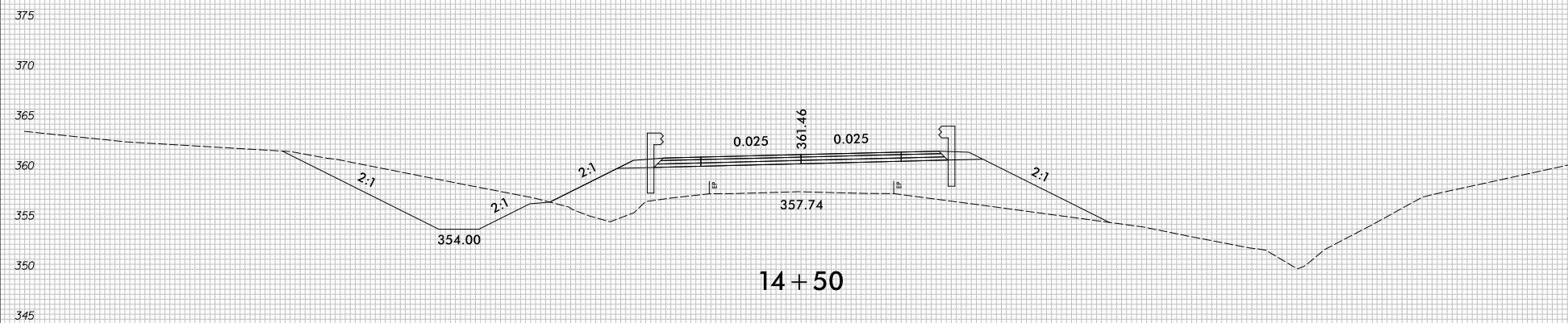
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BP10-R023

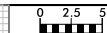
SHEET NO.
X-4

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



6/23/16

6/12/2026
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PROJ. REFERENCE NO.
BP10-R023

SHEET NO.
X-5

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385 385

380 380

375 375

370 370

365 365

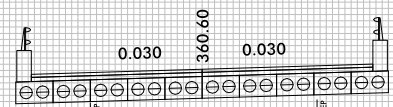
360 360

355 355

350 350

345 345

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



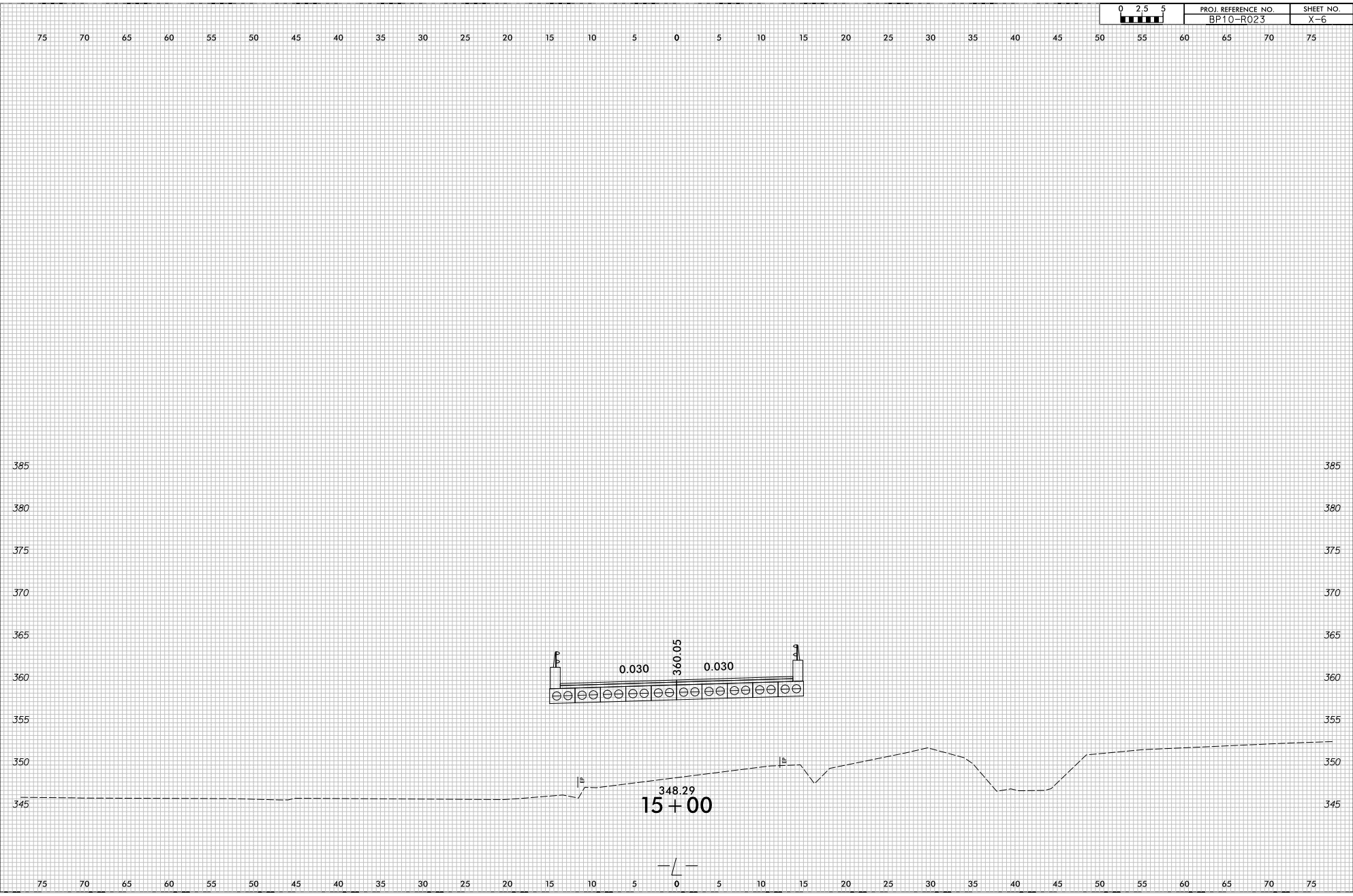
14 + 78.88
BEGIN BRIDGE

-L-

6/23/16

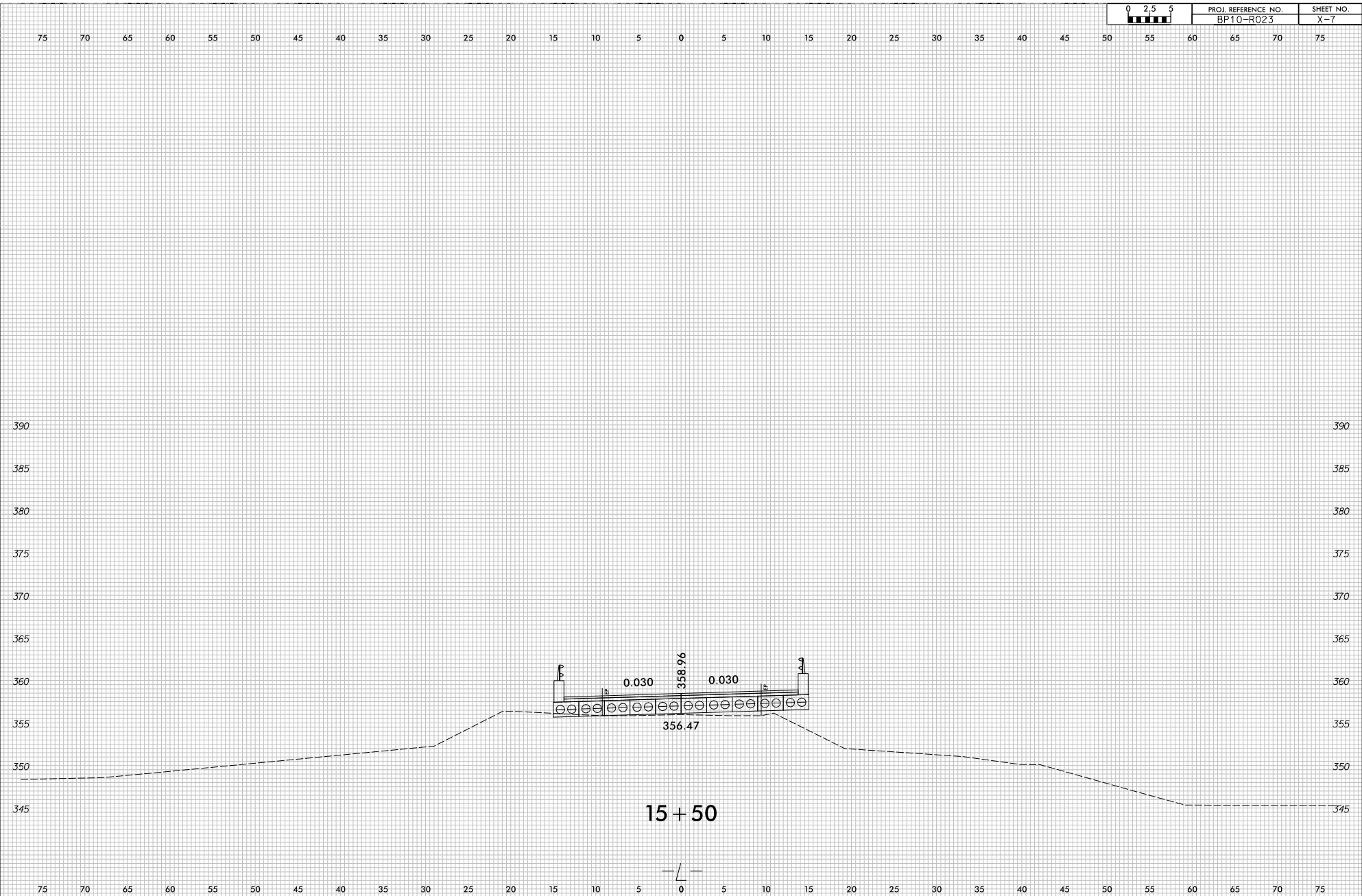
6/12/2026
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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	BP10-R023	X-6



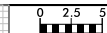
6/23/16
6/12/2026
R:\Roadway\Corridor Modeling\823\dj.spidgn
dj

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	BP10-R023	X-7



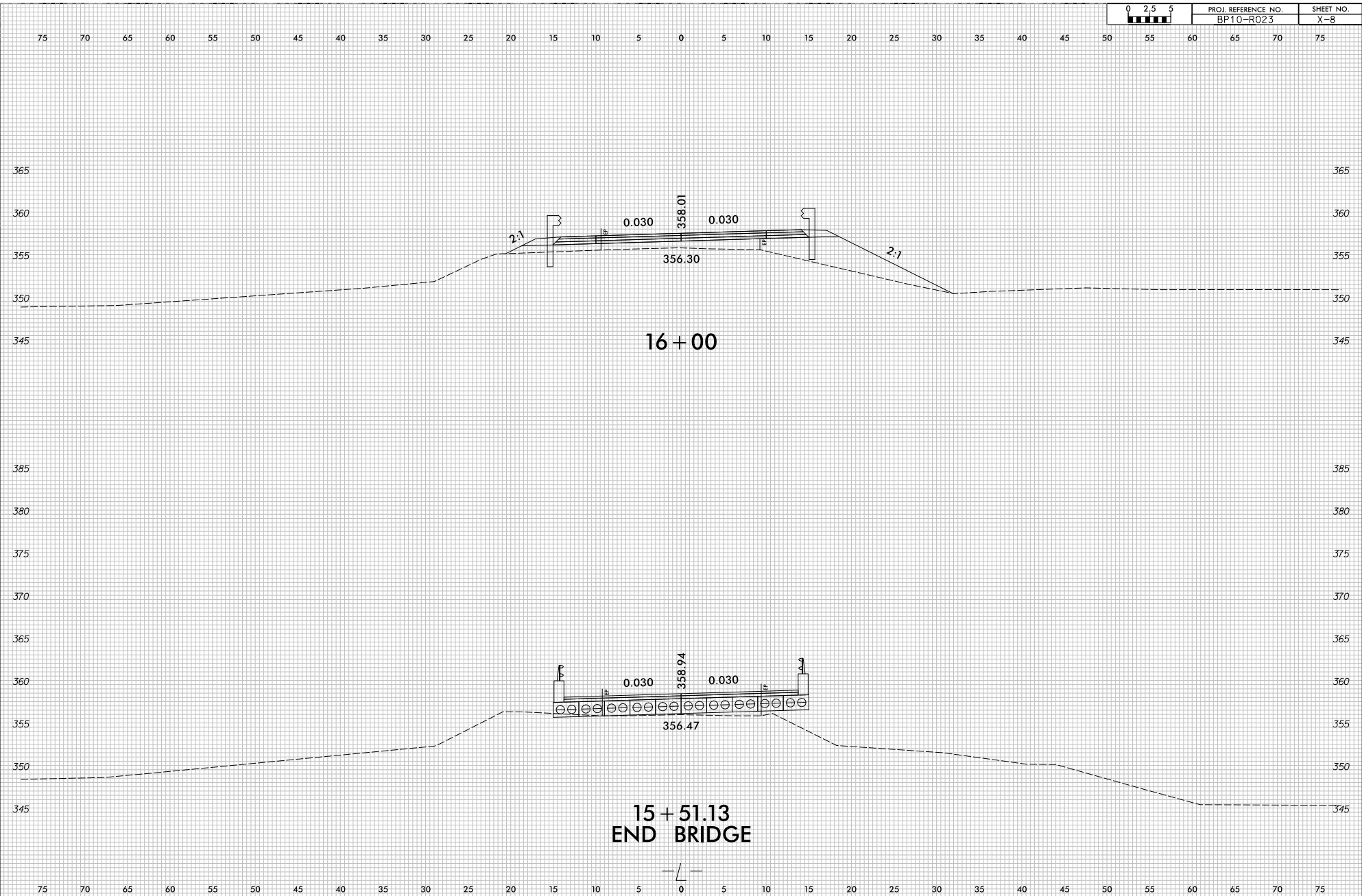
6/23/16

6/12/2026
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PROJ. REFERENCE NO.
BP10-R023

SHEET NO.
X-8



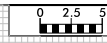
16+00

15+51.13
END BRIDGE

-L-

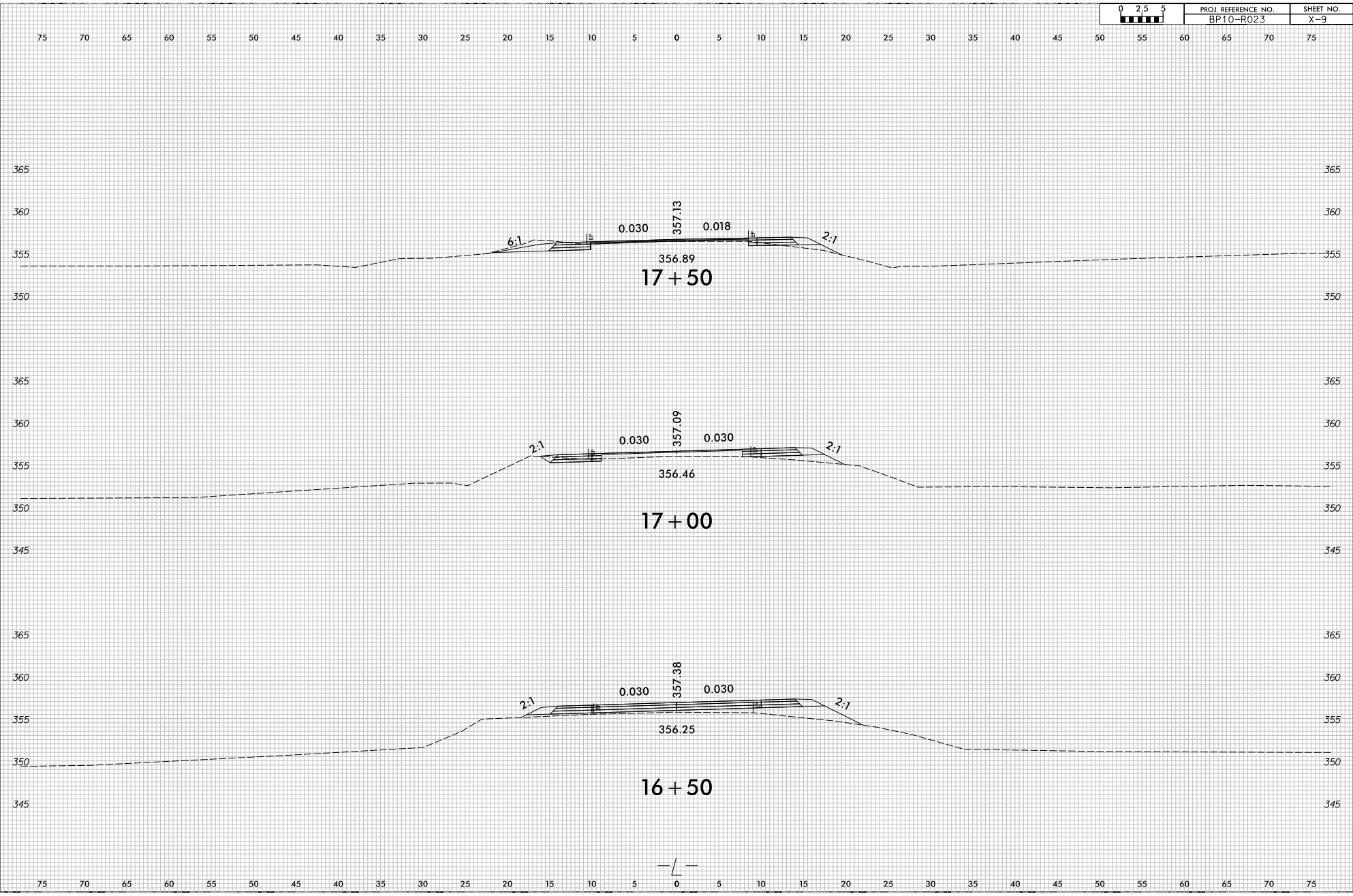
6/23/16

6/12/2016
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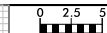
PROJ. REFERENCE NO.
BP10-R023

SHEET NO.
X-9



6/23/16

6/12/2016
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PROJ. REFERENCE NO.
BP10-R023

SHEET NO.
X-10

