

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

James Fritz Brogdon, PE

Digitally signed by: James Fritz Brogdon, PE
DN: CN = James Fritz Brogdon, PE email = fritz.brogdon@arcadis.com C = US O = Arcadis, Inc. OU = Senior Transportation Engineer
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ARCADIS U.S., INC.
1210 PREMIER DRIVE, SUITE 200
CHATTANOOGA, TN

JAMES FRITZ BROGDON, P.E., NO. 106940

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME **SHEET NO.**

SIGNATURE SHEET ROADWAY-SIGN1
TITLE SHEET 1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS ..... 1A – 1A1
STANDARD TRAFFIC OPERATIONS AND STRUCTURE DRAWINGS 1A2
PROJECT COMMITMENTS 1B
ESTIMATED ROADWAY QUANTITIES 2, 2A
TYPICAL SECTIONS AND PAVEMENT SCHEDULE 2B, 2B1-2B3
GENERAL NOTES ..... 2C – 2C1
ENVIRONMENTAL NOTES 2E, 2E1
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RIGHT-OF-WAY DETAILS ..... 4A – 16A
PROPOSED LAYOUTS ..... 4B – 16B
PROPOSED PROFILES ..... 4C – 16C
SIDE ROAD PROFILES & DRIVEWAY PROFILES 18
DRAINAGE MAPS ..... 19, 19A - 19B
CULVERT SECTIONS ..... 20 – 29
EROSION PREVENTION AND SEDIMENT CONTROL PLANS 30, 31,31A, 32-34M
SIGNING AND PAVEMENT MARKING PLANS ..... 35 – 35N
SIGN SCHEDULE SHEETS ..... 35P – 35S
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PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL T1
TRAFFIC CONTROL PLANS ..... T2 – T5M
TRAFFIC CONTROL TABULATED QUANTITIES T5P

NOTE: THE ALPHABETICAL LETTERS “I”, “O” & “Q” ARE NOT USED IN THE NUMBERING OF SHEETS. SHEETS 2D, 17, AND T5N ARE NOT USED

YEAR	PROJECT NO.	SHEET NO.
2026	STP-8(52)	ROADWAY-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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Index Of Sheets
SEE SHEET NO. 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES X	NO
WORK ZONE SIGNIFICANCE DETERMINATION		
SIGNIFICANT	YES X	NO
RAILROAD INVOLVEMENT	YES	NO X

TENN.	YEAR	SHEET NO.
	2026	1
FED. AID PROJ. NO.	STP-8(52)	
STATE PROJ. NO.	33021-3231-14	

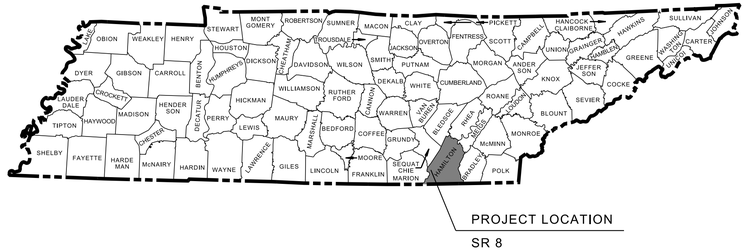
HAMILTON COUNTY

STATE ROUTE 8 (US-127) FROM NEAR STATE ROUTE 27
(SUCK CREEK ROAD) TO NEAR PALISADES DRIVE (IA) (10YP)

PS&E

GRADE, DRAIN, PAVE, STRUCTURES, ROCKFALL MITIGATION

STATE HIGHWAY NO. 8 U.S. ROUTE NO. 127



NO EXCLUSIONS

33021-2231-14
END PROJECT NO. STP-8(52) R.O.W.
STA. 888+76.70
N 287420.5907 E 2164068.0222

33021-3231-14
END PROJECT NO. STP-8(52) CONSTRUCTION
STA. 891+00.00
N 287555.4249 E 2164245.7213

33021-2231-14
BEGIN PROJECT NO. STP-8(52) R.O.W.
STA. 738+32.66
N 281268.4772 E 2168150.5235

33021-3231-14
BEGIN PROJECT NO. STP-8(52) CONSTRUCTION
STA. 738+00.00
N 281240.8470 E 2168167.9153



SCALE: 1"= 1 MILE

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED APRIL 1, 2026 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

R.O.W. LENGTH	2.849 MILES
ROADWAY LENGTH	2.897 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	2.897 MILES

TDOT PROJECT MANAGER : CURTIS DUNCAN, P.E.

DESIGNED BY : ARCADIS U.S., INC.

DESIGNER : JAMES FRITZ BROGDON, P.E. CHECKED BY ERIN WOODSON, P.E.

P.E. NO. 33021-1231-14 (DESIGN)

PIN NO. 124080.00

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

APPROVED:
SHANE HESTER, CHIEF ENGINEER

DATE:

APPROVED:
WILL REID, COMMISSIONER

SURVEY 09-20-17	TRAFFIC DATA	
UPDATED 03-11-20	ADT (2026)	16040
UPDATED 06-08-20	ADT (2046)	17640
UPDATED 06-24-20	DHV (2046)	1940
UPDATED 10-21-20	D	70-30
UPDATED 10-27-20	T (ADT)	11 %
UPDATED 11-09-21	T (DHV)	3 %
UPDATED 02-22-22	V	40 MPH
UPDATED 02-16-26		

COORDINATE VALUES ARE TENNESSEE STATE PLANE NAD/83 (2011) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001, AND ARE TIED TO THE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 USING THE GEOID 12B MODEL, OBTAINED ON 9-20-2017.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	1A
PS&E	2026	STP-8(52)	1A

ROADWAY INDEX

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN1
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A – 1A1
STANDARD TRAFFIC OPERATIONS AND STRUCTURE DRAWINGS	1A2
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ESTIMATED ROADWAY QUANTITIES	2, 2A
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B, 2B1-2B3
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SIGN DETAIL SHEET	35T
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SIDE ROAD CROSS SECTIONS	188 – 192
PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL	T1
TRAFFIC CONTROL PLANS	T2 – T5M
TRAFFIC CONTROL TABULATED QUANTITIES	T5P
GEOTECHNICAL PLANS	G-0
RETAINING WALL PLANS	R-1
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PLANS	S-1
UTILITIES PLANS	U1–1

NOTE: THE ALPHABETICAL LETTERS “I”, “O” & “Q” ARE NOT USED IN THE NUMBERING OF SHEETS. SHEETS 2D, 17, AND T5N ARE NOT USED.

10-100.00 STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS

DWG.	REV.	DESCRIPTION
RD-TP-1	09-26-16	STANDARD ROADWAY DRAWINGS TITLE SHEET
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	01-30-26	STANDARD LEGEND
RD-L-1A		STANDARD LEGEND
RD-L-2	02-20-20	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-5	07-30-24	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL

STANDARD ROADWAY DRAWINGS

10-101.00 STANDARDS ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
RD11-SE-1		TRANSITION AND CROSS SLOPE DETAILS
RD11-SE-2		SUPERELEVATION TRANSITION DETAILS FOR UNDIVIDED ROADWAYS
RD11-SE-2A		SUPERELEVATION TRANSITION SECTIONS FOR UNDIVIDED ROADWAYS
RD11-TS-1A	06-28-19	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD11-TS-3		DESIGN STANDARD FOR ARTERIAL HIGHWAYS (2-LANE)
RD11-LR-2		MINIMUM RUNOFF LENGTHS (LR) FOR RURAL HIGHWAYS
RD11-S-11		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD11-S-11A		ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD11-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD11-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD11-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS

10-102.00 AQUATIC ORGANISM PASSAGE (AOP) DESIGN, PIPE CULVERTS, AND ENDWALLS

DWG.	REV.	DESCRIPTION
D-AOP-1		AOP DESIGN RECESSED PIPE CULVERTS
D-AOP-2		AOP DESIGN RECESSED BOX CULVERTS
D-AOP-3		AOP DESIGN EMBEDDED BOX CULVERTS
D-PB-1	03-01-23	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PO-1	06-28-19	STANDARD OVAL AND REINFORCED CONCRETE ARCH PIPE CULVERT
D-SEW-1A	01-30-26	TYPE "SAFETY" SIDE ENDWALL WITH STEEL PIPE GRATE, FOR 15" THRU 48" PIPES, 6:1 SLOPE
D-PE-4	06-28-19	STRAIGHT CONCRETE ENDWALLS (PIPE SIZES 18" TO 30")
D-PE-5	06-28-19	STRAIGHT CONCRETE ENDWALLS FOR HORIZONTAL OVAL CONCRETE PIPES (ALL SIZES AND SKEWS)
D-PE-30A	04-30-26	TYPE "U" CROSS DRAIN ENDWALL FOR 30" PIPE WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-30B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 30" PIPE, BILL OF STEEL AND PRECAST NOTES
D-PE-36A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 36" PIPE WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-36B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 36" PIPE, BILL OF STEEL AND PRECAST NOTES
D-PEW-1		PROTECTED ENDWALLS FOR ROUND & OVAL PIPES (PIPE SIZES 18" TO 72", ALL SKEWS, 2:1 & 3:1 SLOPES)
D-PEW-2		PROTECTED ENDWALLS FOR ROUND PIPES DETAILS & QUANTITIES (PIPE SIZES 18" TO 72", ALL SKEWS, 2:1 & 3:1 SLOPES)
D-PEW-3		PROTECTED ENDWALLS FOR OVAL PIPES DETAILS & QUANTITIES (EQU. PIPE SIZES 18" TO 72", ALL SKEWS, 2:1 & 3:1 SLOPES)
D-PEW-4		PROTECTED STRAIGHT ENDWALLS (PIPE SIZES 18” TO 30” & EQU. OVAL PIPES)
D-PEW-5		RIP-RAP END TREATMENT FOR CORRUGATED METAL PIPE, OVAL AND PIPE ARCH CULVERTS WITH BEVELED ENDS (PIPE SIZES 42” & LARGER)

10-104.00 CATCH BASINS AND MANHOLES

DWG.	REV.	DESCRIPTION
D-CB-DI		ALTERNATE CATCH BASIN DROP INLET DETAILS
D-CB-12P	02-20-20	STANDARD PRECAST RECTANGULAR CONCRETE NO.12 CATCH BASIN
D-CB-12SE	02-20-20	STANDARD 9' X 9' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-14P	02-20-20	STANDARD PRECAST RECTANGULAR CONCRETE NO. 14 CATCH BASIN
D-CB-38S	03-04-21	STANDARD 32" X 32" SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-38SB	03-04-21	STANDARD 4' X 4' SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-38SC	03-04-21	STANDARD 5' 2" X 5' 2" SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-39S	03-04-21	STANDARD 4' X 4' SQUARE CONCRETE NO. 39 CATCH BASIN
D-CB-40S	03-04-21	STANDARD 4' X 8' RECTANGULAR CONCRETE NO. 40 CATCH BASIN
D-CB-42SB	02-20-20	STANDARD 4' X 4' SQUARE CONCRETE NO. 42 CATCH BASIN
D-JBS-5	02-20-20	STANDARD 9' X 9' SQUARE CONCRETE NO. 5 JUNCTION BOX
D-MH-2	02-20-20	STANDARD PRECAST NO. 3 MANHOLE

10-106.00 ROADWAY, PAVEMENT APPURTENANCES, AND FENCES

DWG.	REV.	DESCRIPTION
RP-SC-1	05-04-22	SLOPING CONCRETE CURB AND CURB AND GUTTER
S-F-1	03-01-23	HIGH VISIBILITY FENCE
S-RP-2	06-28-19	STANDARD CONCRETE RIGHT-OF-WAY MARKERS

10-108.00 SAFETY DESIGN AND GUARDRAILS

DWG.	REV.	DESCRIPTION
S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
S-PL-1	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED
S-PL-1A	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED (FOR RIGID OBJECTS)
S-PL-1B	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED ON CURVED ROADWAYS
S-PL-6	04-30-26	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
S-GR31-1	10-31-25	GUARDRAIL DETAILS
S-GR31-1A	06-28-19	GUARDRAIL AND BLOCK-OUT DETAILS
S-GR31-1B		GUARDRAIL FASTENING HARDWARE
S-GR31-1C	07-07-23	GUARDRAIL GENERAL NOTES AND POST DETAILS
S-GR31-1D	03-01-23	GUARDRAIL POST PLACEMENT IN ROCK
S-GRS-1	06-15-21	SPECIAL CASE LONG SPAN GUARDRAIL 1 POST, 2 OR 3 POSTS OMITTED
S-GRS-4	05-04-22	SPECIAL CASE GUARDRAIL HEIGHT TRANSITION DETAIL
S-GRT-2	06-28-19	TYPE 38 GUARDRAIL END TERMINAL

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	1A
PS&E	2026	STP-8(52)	1A1

STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
10-108.00		**SAFETY DESIGN AND GUARDRAILS**
S-GRT-2P	10-16-20	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
S-GRT-2R	06-28-19	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
S-SSMB-3	10-29-21	51" HALF SIZE SINGLE SLOPE CONCRETE BARRIER WALL
10-109.00		**EROSION PREVENTION AND SEDIMENT CONTROL**
EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3B	06-15-21	SILT FENCE
EC-STR-3C	03-01-23	SILT FENCE WITH WIRE BACKING
EC-STR-8	06-10-14	FILTER SOCK
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-6	11-30-20	ROCK CHECK DAM
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
EC-STR-11	03-16-17	CULVERT PROTECTION TYPE 1
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-34	05-04-22	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-39	08-01-12	CURB INLET PROTECTION TYPE 1 & 2
EC-STR-41		CATCH BASIN FILTER ASSEMBLY (TYPE 1)
EC-STR-41A		CATCH BASIN FILTER ASSEMBLY (TYPE 1) SLIPCOVER DETAILS
EC-STR-42		CATCH BASIN FILTER ASSEMBLY (TYPE 2)
EC-STR-42A		CATCH BASIN FILTER ASSEMBLY (TYPE 2) SLIPCOVER DETAILS
EC-STR-45		CATCH BASIN FILTER ASSEMBLY (TYPE 5)
EC-STR-45A		CATCH BASIN FILTER ASSEMBLY (TYPE 5) SLIPCOVER DETAILS
EC-STR-48		CATCH BASIN FILTER ASSEMBLY (TYPE 8)
EC-STR-48A		CATCH BASIN FILTER ASSEMBLY (TYPE 8) SLIPCOVER DETAILS
EC-STR-11A	08-01-12	CULVERT PROTECTION TYPE 2
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-32	08-01-12	TEMPORARY DIVERSION CULVERTS
EC-STR-33	08-01-12	SUSPENDED PIPE DIVERSION (DOWNSTREAM)
EC-STR-33A	08-01-12	SUSPENDED PIPE DIVERSION (UPSTREAM)
10-110.00		**NATURAL STREAM DESIGN**
D-NSD-30	05-09-25	SUBSTRATE RESTORATION
D-NSD-33	05-01-20	COIR FIBER EROSION CONTROL BLANKET AND COIR FIBER ROLLS

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX
AND
STANDARD
ROADWAY
DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	1A1
PS&E	2026	STP-8(52)	1A2

STANDARD TRAFFIC DESIGN DRAWINGS

DWG.	REV.	DESCRIPTION
10-200.00 SIGN		
T-S-10	07-30-25	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS, ALUMINUM-STEEL DESIGN
T-S-11	07-30-25	DELINEATOR AND MILEPOST DETAILS
T-S-17	07-30-25	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-18	07-30-25	END OF ROADWAY, DEAD END SIGNS, AND METAL BARRICADES (TYPE III)
T-S-19	07-30-25	STANDARD STEEL SIGN SUPPORTS
T-S-20	07-30-25	SIGN DETAILS
10-204.00 DESIGN - TRAFFIC CONTROL		
T-M-1	01-24-25	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	01-24-25	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	01-24-25	MARKING STANDARDS FOR TRAFFIC ISLANDS, PAVED SHOULDERS AND MEDIANS FOR CONVENTIONAL ROADS
T-M-4	01-24-25	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-16	01-24-25	RUMBLE STRIPE INSTALLATION LAYOUT
T-M-16A	01-24-25	RUMBLE STRIPE DETAILS FOR EDGE OF PAVEMENT AND CENTERLINE
T-WZ-10	03-26-25	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-21	03-26-25	LANE CLOSURE WITH LEFT HAND MERGE AND LANE SHIFT
T-WZ-22		ONE LANE CLOSURE DETAIL FOR UNDIVIDED HIGHWAYS
T-WZ-32	03-26-25	TRAFFIC CONTROL PLAN SIGNAL LAYOUT FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-34	03-26-25	TRAFFIC CONTROL PLAN GENERAL NOTES FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-35	03-26-25	TRAFFIC CONTROL PLAN PAY ITEM AND SIGN DETAILS FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-FAB1	03-26-25	FLASHING YELLOW ARROW BOARD
T-WZ-PBR1	03-26-25	INTERCONNECTED PORTABLE BARRIER RAIL
T-WZ-PBR2	03-26-25	DETAILS FOR WORK ZONE CHANNELIZATION DEVICES
T-WZ-PCB1	03-26-25	10 FOOT PORTABLE CONCRETE BARRIER RAIL
T-WZ-PCB2	03-26-25	20 FOOT PORTABLE CONCRETE BARRIER RAIL
T-WZ-PCB2A	03-26-25	20 FOOT PORTABLE CONCRETE BARRIER RAIL STIFFENER TUBE
T-WZ-PCB3	03-26-25	PORTABLE CONCRETE BARRIER RAIL DETAILS
T-WZ-PCB4	07-22-25	PORTABLE CONCRETE BARRIER RAIL ANCHOR PIN DETAILS

STANDARD STRUCTURE DRAWINGS

DWG.	REV.	DESCRIPTION
10-301.00 LRFD BOX CULVERTS		
STD-17-1		INDEX OF DRAWINGS
STD-17-2		TERMINOLOGY OF DRAWINGS
STD-17-3		GENERAL NOTES
STD-17-4		DESIGN SECTION LIMITS
STD-17-5		TYPICAL SECTIONS AND DETAILS
STD-17-6		TYPICAL ELEVATION
STD-17-7		CURB, RAIL & EDGE BEAM DETAILS - SKEW NOT LESS THAN 45 DEG.
STD-17-8		EDGE BEAM DETAILS FOR FILLS GREATER THAN 3' - 6"
STD-17-9		INTERIOR WALL END TREATMENTS
STD-17-10		TYPICAL WINGWALL DETAILS AND NOTES
STD-17-11		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-12		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-13		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-14		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-15		WINGWALL AND SPECIAL RETAINING WALL DESIGN SECTIONS
STD-17-16		WINGWALL DESIGN SECTIONS
STD-17-17	06-01-11	BACKFILL AND DRAINAGE DETAILS
STD-17-18		BACKFILL DETAILS
STD-17-28		END SECTION DETAILS
STD-17-29		PRECAST BOX CULVERT DETAILS
STD-17-56		BOX BRIDGE, 1 BARREL AT 12', CLEAR HTS. 4' - 6', 0 - 60' FILL

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD TRAFFIC OPERATIONS & STRUCTURE DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	1B
PIH	2026	STP-8(52)	1B
PS&E	2026	STP-8(52)	1B

PROJECT COMMITMENTS

COMMITMENT ID	SOURCE DIVISON	DESCRIPTION	STA. / LOCATION
EDHS003	Environmental Division, Historic	The historic Spaceship House property Tract 20, Parcel 116E/A 33 will not be used as a staging area for construction.	Tract 20, Parcel 116E/A 33
EDHS004	Environmental Division, Historic	There will be n driveway work at the historic Spaceship House property Tract 20, Parcel 116E/A 33.	Tract 20, Parcel 116E/A 33
EDHS006	Environmental Division, Historic	There will be no driveway work at the historic Glendale Tourist Court property Tract 1, Parcel 117 G/B 029.	Tract 1, Parcel 117 G/B 029
EDHS007	Environmental Division, Historic	The historic Glendale Tourist Court property Tract 1, Parcel 117 G/B 029 will not be used as a staging area for construction.	Tract 1, Parcel 117 G/B 029
EDHS008	Environmental Division, Historic	If any blasting is proposed in the vicinity of the historic Space House Tract 20, Parcel 116 E/A 33, the contractor will take into consideration the historic Space House Tract 20, Parcel 116 E/A 33 and will take all necessary measures to avoid any impacts to the historic property.	Tract 20, Parcel 116E/A 33
EDHS009	Environmental Division, Historic	No additional temporary or permanent right-of-way or easements will be taken from the historic Space House Tract 20, Parcel 116 E/A 33.	Tract 20, Parcel 116E/A 33

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROJECT COMMITMENTS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	2
PIH	2026	STP-8(52)	2
PS&E	2026	STP-8(52)	2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 33021-3231-14
	105-01	Construction Stakes, Lines And Grades	LS	1
	201-01	Clearing And Grubbing	LS	1
(1)	201-07.01	REMOVAL AND DISPOSAL OF BRUSH & TREES	LS	1
	202-01.56	Removal Of Structures & Obstructions (2 Catchbasins)	LS	1
	202-01.57	Removal Of Structures & Obstructions (2 Manhole)	LS	1
(2)(3)(4)(5)	202-01.58	REMOVAL OF STRUCTURES & OBSTRUCTIONS (See Footnotes)	LS	1
(26)	202-02.01	Removal Of Pipe (Various Locations, Various Sizes)	L.F.	721
(6)	202-03	Removal of Rigid Pavement, Sidewalk, Etc.	S.Y.	400
(7)	202-03.01	Removal Of Asphalt Pavement	S.Y.	1944
(8)	202-06.01	REMOVAL OF BUILDINGS (TRACT NO. 1)	LS	1
	202-08.10	REMOVAL OF CURB (TRACT NO. 22)	L.F.	40
(9)(10)(55)	203-01	Road & Drainage Excavation (Unclassified)	C.Y.	15824
(11)	203-04	Placing And Spreading Topsoil	C.Y.	2600
	203-06	Water	M.G.	24
(12)(13)(14)	203-11	Scaling And Trimming	S.Y.	1100
(15)	203-20.01	Channel Substrate	C.Y.	98
	204-08	Foundation Fill Material	C.Y.	22
(16)	204-08.01	Backfill Material (Flowable Fill)	C.Y.	62
	208-01.05	Brooming & Degrassing Shoulders	L.M.	6
(17)(18)	209-02.05	12" Temporary Slope Drain	L.F.	612
(17)(18)	209-02.07	18" Temporary Slope Drain	L.F.	160
(17)(18)	209-03.21	Filter Sock (12 Inch)	L.F.	1539
(17)(18)	209-03.31	Stream Mitigation-Coconut Fiber Rolls	L.F.	200
(17)(18)	209-05	Sediment Removal	C.Y.	359
(17)(18)(19)	209-08.02	Temporary Silt Fence (With Backing)	L.F.	7200
(17)(18)	209-08.03	Temporary Silt Fence (Without Backing)	L.F.	391
(17)(18)	209-08.08	Enhanced Rock Check Dam	EACH	21
(17)(18)(54)	209-09.01	Sandbags	BAG	2974
(17)(18)	209-09.04	Sediment Filter Bag (15"x10')	EACH	3
(17)(18)	209-09.41	Curb Inlet Protection (Type 2)	EACH	2
(17)(18)(20)	209-20.03	Polyethylene Sheeting (6 Mil. Minimum)	S.Y.	33
(17)(18)	209-40.33	Catch Basin Protection (Type D)	EACH	24
(17)(18)	209-40.41	Catch Basin Filter Assembly(Type 1)	EACH	5
(17)(18)	209-40.42	Catch Basin Filter Assembly(Type 2)	EACH	6
(17)(18)	209-40.45	Catch Basin Filter Assembly(Type 5)	EACH	1
(17)(18)	209-40.48	Catch Basin Filter Assembly(Type 8)	EACH	8
(21)	209-65.01	Temporary Stream Diversion (Pump Around)	LS	1
	303-01	Mineral Aggregate, Type A Base, Grading D	TON	1649
	303-01.01	Granular Backfill (Roadway)	TON	1834
(17)(18)(22)	303-10.01	Mineral Aggregate (Size 57)	TON	591
	307-02.08	Asphalt Concrete Mix (PG70-22) (BPMB-HM) Grading B-M2	TON	978
	403-01	Bituminous Material For Tack Coat (Tc)	TON	26
	407-20.05	Saw Cutting Asphalt Pavement	L.F.	924
	411-12.04	Scoring For Rumble Stripe (Non-Continous) (4In Width)	L.M.	6
	411-02.10	ACS Mix(PG70-22) Grading D	TON	4006
	415-01.01	Cold Planing Bituminous Pavement	TON	3950
	604-01.01	Class A Concrete (Roadway)	C.Y.	57
	604-01.02	Steel Bar Reinforcement (Roadway)	LB.	10724
(23)	604-03.74	Class X Concrete	C.Y.	488
(24)	604-07.01	Retaining Wall (Wall 1D)	S.F.	7162
(24)	604-07.02	Retaining Wall (Wall 2D)	S.F.	6218
(24)	604-07.03	Retaining Wall (Wall 3D)	S.F.	2371
(60)	604-07.04	Retaining Wall (Wall 4D)	S.F.	712
	604-07.28	Retaining Wall Excavation	C.Y.	825
(25)	606-28.14	Micropile (10 3/4" x 0.545" Micropile)	L.F.	7675
(26)(27)	607-03.02	18" Concrete Pipe Culvert (Class III)	L.F.	50
(26)(27)	607-05.02	24" Concrete Pipe Culvert (Class III)	L.F.	298
(26)(27)	607-06.02	30" Concrete Pipe Culvert (Class III)	L.F.	128
(26)(27)	607-07.02	36" Concrete Pipe Culvert (Class III)	L.F.	861
(26)(27)	607-07.11	36" Concrete Pipe Culvert (Class V) Trenchless	L.F.	114
(26)(27)	607-08.02	42" Concrete Pipe Culvert (Class III)	L.F.	56

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 33021-3231-14
(26)(27)	607-16.02	30"X 19" Horizontal Oval Concrete Pipe Culvert	L.F.	78
(26)(27)	607-16.04	38"X 24" Horizontal Oval Concrete Pipe Culvert	L.F.	26
(26)(27)	607-16.09	60"X 38" Horizontal Oval Concrete Pipe Culvert	L.F.	84
(26)(27)	607-16.10	68"X 43" Horizontal Oval Concrete Pipe Culvert	L.F.	207
(26)(27)	607-16.11	76"X 48" Horizontal Oval Concrete Pipe Culvert	L.F.	173
(26)(27)	607-57.06	Reinforced Concrete Pipe Arch (58" X 36")	L.F.	48
	611-01.02	Manholes, > 4' - 8' Depth	EACH	1
	611-02.14	Junction Box, Type 5	EACH	3
	611-07.01	Class A Concrete (Pipe Endwalls)	C.Y.	136
	611-07.02	Steel Bar Reinforcement (Pipe Endwalls)	LB.	6270
	611-07.31	18in Endwall (Side Drain)	EACH	2
	611-07.60	30in Endwall (Cross Drain) 3:1	EACH	2
	611-07.63	36in Endwall (Cross Drain) 3:1	EACH	1
	611-12.02	Catch Basins, Type 12, > 4' - 8' Depth	EACH	1
	611-14.02	Catch Basins, Type 14, > 4' - 8' Depth	EACH	3
	611-38.02	Catch Basins, Type 38, > 4' - 8' Depth	EACH	5
	611-39.02	Catch Basins, Type 39, > 4' - 8' Depth	EACH	1
	611-40.01	Catch Basins, Type 40, 0' - 4' Depth	EACH	3
	611-40.02	Catch Basins, Type 40, > 4' - 8' Depth	EACH	2
	611-42.02	Catch Basins, Type 42, > 4' - 8' Depth	EACH	5
(28)	621-03.02	18" Temporary Drainage Pipe	L.F.	30
	621-03.03	24" Temporary Drainage Pipe	L.F.	35
	621-03.04	30" Temporary Drainage Pipe	L.F.	30
(29)	621-05.02	Temporary Shoring	LS	1
(12)(30)(59)	622-01.06	Shotcrete 12 In Thickness	S.F.	400
(31)	624-03.01	Retaining Wall Reinforcing Steel	LB.	76423
(53)	702-01.01	Extruded Sloping Curb	L.F.	300
(32)	703-01	Portland Cement Concrete Ditch Paving	C.Y.	919
	705-02.10	Guardrail Transition 27In.To 31In.	EACH	23
	705-04.09	Earth Pad For Type 38 Gr End Treatment	EACH	10
	705-04.50	Portable Barrier Rail Delineator	EACH	110
	705-06.01	W Beam Gr (Type 2) Mash TI-3	L.F.	2338
	705-06.20	Tangent Energy Absorbing Term Mash TI-3	EACH	10
	706-01	Guardrail Removed	L.F.	1288
(12)(33)	707-02.43	Rock Anchors, Type I	L.F.	12250
(17)(18)	707-08.11	High-Visibility Construction Fence	L.F.	902
(12)(34)(35)	707-10.06	Rockfall Drape (TYPE II)	S.Y.	11150
(36)	707-11.01	Pedestrian Construction Barrier Fence	L.F.	500
	708-02.01	Markers (Concrete R.O.W. Posts)	EACH	150
(17)(18)(37)	709-05.05	Machined Rip-Rap (Class A-3)	TON	315
(17)(18)(38)	709-05.06	Machined Rip-Rap (Class A-1)	TON	640
	709-05.08	Machined Rip-Rap (Class B)	TON	103
	709-05.09	Machined Rip-Rap (Class C)	TON	528
(57)(58)	709-10.05	Gabions (Gabion Mattress)	C.Y.	95
(56)	711-05.72	SINGLE SLOPE HALF CONCRETE BARRIER WALL	L.F.	1350
	712-01	Traffic Control	LS	1
	712-02.02	Interconnected Portable Barrier Rail	L.F.	2200
	712-02.60	Temporary Work Zone Crash Cushion (Mash TL-3)	EACH	14
	712-04.01	Flexible Drums (Channelizing)	EACH	400
	712-06	Signs (Construction)	S.F.	921
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	60
	712-08.03	Arrow Board (Type C)	EACH	5
	713-02.04	Delineator (Mile Marker) & Steel Post	EACH	1
	713-11.02	Perforated/Knockout Square Tube Post	LB.	2890
	713-13.02	Flat Sheet Aluminum Signs (0.080" Thick)	S.F.	220
	713-13.03	Flat Sheet Aluminum Signs (0.100" Thick)	S.F.	202
(39)	713-15	Removal of Signs, Posts And Footings	LS	1
(40)	713-15.02	Removal & Relocation of Sign & Support	EACH	3
(36)	713-16.01	Changeable Message Sign Unit	EACH	10
	716-01.06	Temporary Raised Pavement Marker,White	EACH	3366
	716-01.07	Temporary Raised Pavement Marker,Yellow	EACH	3366

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
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STATE OF TENNESSEE
6/29/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	2A
PS&E	2026	STP-8(52)	2A

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 33021-3231-14
(41)	716-01.21	Snowplowable Raised Pavement Markers (Bi-Dir) (1 Color)	EACH	1683
(42)	716-01.23	Snowplowable Raised Pavment Markers (BI-Dir) (2 Color)	EACH	539
	716-01.30	Removal Of Snowplowable Reflective Pavement Marker	EACH	1112
	716-02.04	Plastic Pavement Marking(Channelization Striping)	S.Y.	45
	716-02.05	Plastic Pavement Marking (Stop Line)	L.F.	88
	716-02.07	Plastic Pavement Marking (24" Barrier Line)	L.F.	117
	716-04.14	Plastic Pavement Marking (Lane Reduction Arrow)	EACH	7
(43)	716-05.02	Painted Pavement Marking (8" Barrier Line)	L.F.	57932
	716-05.05	Painted Pavement Marking (Stop Line)	L.F.	204
	716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	L.F.	137280
	716-08.24	Removal Of Pavement Marking (Lane Reduction Arrow)	EACH	7
(44)	716-12.02	Enhanced Flatline Thermo Pvmt Mrkng (6in Line)	L.M.	14
	717-01	Mobilization	LS	1
(45)	730-40.01	Portable Traffic Signal System	EACH	4
	740-06.01	Geomembrane	S.Y.	7334
(17)(18)(46)	740-10.03	Geotextile (Type III)(Erosion Control)	S.Y.	1431
	740-10.04	Geotextile (Type IV)(Stabilization)	S.Y.	284
(47)	801-01	Seeding(With Mulch)	UNIT	2
(17)(18)(47)	801-02	Seeding(Without Mulch)	UNIT	8
(47)(48)	801-01.38	Native Seed Mx Final Stablizatn Of Slopes	UNIT	5
(49)	801-03	Water (Seeding & Sodding)	M.G.	89
(50)	803-01	Sodding (New Sod)	S.Y.	7298
(51)	805-01.03	Turf Reinforcement Mat (Class III)	S.Y.	3372
(52)	805-12.02	Erosion Control Blanket (Type II)	S.Y.	7537
	805-12.08	700 Gram Coir Fiber Erosion Blanket	S.Y.	300

FOOTNOTES

(1) TRACT NO. 19 - (3) 6' THUJA GREEN GIANTS, (3) 8' THUJA GREEN GIANTS, (7) 30' THUJA GREEN GIANTS, (2) LARGE MISCANTHUS (ADAGIO) ORNAMENTAL GRASSES, AND TRACT NO. 22

(2) TRACT NO. 5 - 44 LF FENCING, (4) STEEL BOLLARDS, AND CABLE ENCLOSURE.

(3) TRACT NO. 7 - 7 RUBBER PARKING BUMPERS.

(4) TRACT NO. 38 - TIMBER LANDSCAPING FENCE 192 LF, RETAINING WALL 32 LF, LANDSCAPING, AND BOULDER BY ROAD.

(5) THIS ITEM WILL BE USED FOR THE REMOVAL OF THE BARRIER RAIL LOCATED ON TRACT 16.

(6) THIS ITEM WILL BE USED FOR ANY CONCRETE DITCHES SHOWN FOR REMOVAL IN THE PLANS.

(7) THIS ITEM WILL BE USED FOR THE REMOVAL OF THE DRIVEWAYS LOCATED ON TRACTS 39 & 49 AND PIPE EXTENSION LOCATIONS.

(8) MOBILE HOME

(9) INCLUDES 2033 C.Y. FOR EROSION CONTROL

(10) QUANTITY INCLUDES 800 C.Y. OF MATERIAL REMOVED BY SCALING AND TRIMMING, CLEARING, AND RESHAPING AS DIRECTED BY THE ENGINEER.

(11) INCLUDES 1410 C.Y. FOR EROSION CONTROL

(12) FOR ROCKFALL MITIGATION.

(13) REFER TO TDOT SPECIAL PROVISION 203E. TO BE PERFORMED BY A ROCKFALL MITIGATION SPECIALTY CONTRACTOR. TEMPORARY ROCKFALL BARRIERS, OR OTHER DEVICES AS APPROVED BY THE ENGINEER, SHALL BE REQUIRED DURING CONSTRUCTION. PAYMENT FOR THESE TEMPORARY MEASURES SHALL BE INCLUDED IN THIS ITEM.

(14) SCALING AND TRIMMING TO BE DONE FROM STATION 841+55 TO 842+27, 843+46 TO 843+76, 844+32 TO 844+53, 844+82 TO 845+25, 845+27 TO 845+39, 845+36 TO 845+46, 845+40 TO 845+60, 845+45 TO 845+67, 846+18 TO 846+34, AND 847+05 TO 847+24. SEE SHEETS G8 THRU G11 FOR LOCATIONS.

(15) USED FOR EMBEDDED CULVERT BACKFILL MATERIAL AND SUBSTRATE RESTORATION.

(16) INCLUDES 62 C.Y. FOR PLUGGING PIPES.

(17) TO BE USED FOR EROSION CONTROL.

(18) SEE SUBSECTION 209-07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE AND REPLACEMENT. ALL QUANTITIES TO BE USED AS DIRECTED BY THE ENGINEER.

(19) INCLUDES 6941 L.F. FOR PERIMETER AND STREAM PROTECTION USING AN ADJUSTMENT FACTOR OF 2 AND INCLUDES 5% CONTINGENCY. PLUS 259 L.F. FOR SEDIMENT FILTER BAGS.

(20) TO BE USED ON THE LOCATIONS SPECIFIED PER PLANS AND SHOWN AS INSETS. ALL OTHER LOCATIONS ARE COVERED UNDER 209-65.01.

(21) SEE SHEET 31A FOR DETAILED NOTES AND PAY ITEM DESCRIPTION.

(22) INCLUDES 62 TONS FOR CULVERT PROTECTION TYPE I, 14 TONS FOR SEDIMENT FILTER BAGS, 28 TONS FOR TEMPORARY CULVERT CROSSING PLUS A 10% CONTINGENCY, AND 476 TON FOR BACKFILLING BARRIER WALL AT RETAINING WALLS.

(23) INCLUDES ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR INSTALLATION OF THE CAST-IN-PLACE CONCRETE FACING. ALL COSTS (FORM LINERS, CONCRETE STAINING, ETC.) ASSOCIATED WITH THE FORMLINED/STAINED FINISH ARE ALSO INCLUDED WITH THIS ITEM. REINFORCING STEEL IS TO BE PAID FOR SEPARATELY UNDER ITEM 624-03.01.

(24) ITEM INCLUDES ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR INSTALLATION OF MISCELLANEOUS WALL ITEMS INCLUDING GEOCOMPOSITE SHEET DRAINS, NON-PERFORATED PVC PIPE, PREFORMED EXPANSION JOINT FILLER AND WATERSTOPS AND GRANUALR BACKFILL MATERIAL (TYPE 57).

(25) ITEM INCLUDES ALL LABOR, EQUIPMENT AND MATERIALS INCLUDING MICROPILE CASINGS, BEARING PLATES, WELDED STUD CONNECTORS, LAGGING SUPPORT ANGLES, #10 REINFORCING BARS, SPACERS, GROUT NECESSARY FOR INSTALLATION OF MICROPILES.

(26) SEE TABULATED QUANTITIES

(27) INCLUDES QUANTITIES FOR STORM SEWER AND CROSS DRAINS.

(28) 18" TEMP DRAINAGE PIPE TO BE USED AS DIRECTED BY THE PLANS. ITEM INCLUDES ALL PIPE CONNECTIONS

(29) TEMP. SHORING IS FOR SHORING NEEDED FOR WALL CONSTRUCTION AND NOT RELATED TO LAGGING. THE COST OF LAGGING IS CONSIDERED INCIDENTAL AND WILL NOT BE PAID FOR DIRECTLY AND SHOULD BE INCLUDED IN THE COST OF OTHER ITEMS. SEE FOOTNOTES 5 & 8 SHEET R-1 FOR ADDTIONAL DETAILS.

(30) QUANTITY INCLUDES SHOTCRETE, WIRE MESH, AND NO. 4 REBAR REINFORCEMENT ENCAPSULATING SANDSTONE LAYERS ALONG ROCK FACE. REFER TO SECTION 622 OF THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION. SHOTCRETE TO BE LOCATED FROM STATION 845+90 TO 846+16.

(31) ITEM INCLUDES ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR INSTALLATION OF THE REINFORCING STEEL FOR THE CAST-IN-PLACE CONCRETE FACING.

(32) INCLUDES 827 C.Y. FOR SPECIAL DITCHES AND 92 C.Y. FOR WALL DITCHES.

(33) QUANTITY INCLUDES 300 LINEAR FEET OF SHOTCRETE DOWEL ANCHORS.

(34) REFER TO SPECIAL PROVISIONS 707D AND 707E.

(35) ROCKFALL DRAPE MESH TO BE LOCATED FROM STATION 841+55 TO 842+00 AND 846+00 TO 847+52. ROCKFALL PINNED MESH TO BE LOCATED FROM STATION 842+00 TO 846+00. SHEETS G8 THRU G11.

(36) TO BE USED AT THE DISCRETION OF THE TDOT ENGINEER.

(37) FOR TEMPORARY CONSTRUCTION EXITS.

(38) INCLUDES 282 TONS FOR CULVERT PROTECTION TYPE I, 132 TONS FOR 12" TEMPORARY SLOPE DRAINS, 91 TONS FOR TEMP. CULVERT CROSSING, AND 12 TONS FOR 18' SLOPE DRAINS PLUS 5% CONTINGENCY. 97 TONS UTILIZED FOR RIPRAP APRONS.

(39) PRICE BID INCLUDES THE REMOVAL OF ALL SIGNS AND SIGN FOOTINGS BEING SHOWN AS REPLACED OR MARKED FOR REMOVAL IN THE PLANS.

(40) ITEM INCLUDES THREE (3) EXISTING ROADWAY SIGNS LOCATED ON SHEET 35E AND MARKED AS REMOVE AND RELOCATE.

(41) 1614 - YELLOW AND 69 - CLEAR

(42) CLEAR AND RED

(43) INCLUDES 28966 L.F. WHITE AND 28966 L.F. YELLOW.

(44) INCLUDES 6.6 MILES YELLOW AND 7.4 MILES WHITE.

(45) PRICE BID TO INCLUDE THE COST OF RELOCATION/REUSE OVER THE LENGTH OF THE PROJ. THE TEMPORARY TRAFFIC SIGNAL SYSTEM PROVIDED SHALL MEET THE SPECIFICATIONS SHOWN IN STD. DRAWING T-WZ-34 AND BE CAPABLE OF INCORPORATING SIDEROADS AS NEEDED.

(46) INCLUDES 599 S.Y. FOR CULVERT PROTECTION TYPE I, 515 S.Y. FOR TEMPORARY CONSTRUCTION EXITS, 217 S.Y. FOR SEDIMENT BAGS, AND 100 S.Y. FOR TEMPORARY CULVERT CROSSING.

(47) THE COST OF FERTILIZER AND LIME USED IN INITIAL SEED BED PERPARATION IS TO BE INCLUDED IN THE COST OF SEEDING. SEE SECTION 801 OF TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

(48) PERMANENT STABILIZATION WITH NATIVE OR NATURALIZED PERENNIAL VEGETATION IS REQUIRED IN ALL AREAS AUTHORIZED FOR TEMPORARY AND PERMANENT IMPACTS TO STREAMS AND RIPARIAN AREAS, INCLUDING ADJACENT BUFFER ZONES WITHIN 60 FT OF THE EDGE OF WATER. THE APPROPRIATE SEED MIXTURE FOR THE REGION AND SITE CONDITIONS SHALL BE SELECTED FROM TABLE 7.9-1 (PREFERRED SEED MIXES USING NATIVES OR NATURALIZED PLANTS AND PLANTING DATES) FOUND IN CHAPTER 7.9 (PERMANENT VEGETATION) OF THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) TENNESSEE EROSION & SEDIMENT CONTROL HANDBOOK 4TH EDITION.

(49) INCLUDE 79 M.G. FOR EROSION PREVENTION AND SEDIMENT CONTROL

(50) INCLUDES 2986 S.Y. FOR DITCHES.

(51) TURF REINFORCEMENT MAT TO BE USED FROM THE BACKSLOPE OF THE CONCRETE DITCH TO THE TOP OF THE CUT LINE INSTEAD OF SOD FOR FINAL STABILIZATION AT STATIONS:STA 748+50 to 751+50, STA 769+50 to 772+50, STA 776+50 to 779+00, STA 782+00 to 783+50,STA 787+50 to 789+00, and STA 794+50 to 796+50.

(52) TO BE USED ON 2:1 SLOPES WITH ITEM No. 801-02.

(53) PRICE BID SHALL INCLUDE DOWEL BARS, DOWEL BAR INSTALLATION, AND EXPOXY CEMENT.

(54) INCLUDES 275 SANDBAGS FOR TEMPORARY DIVERSION CULVERTS, 1495 BAGS FOR STREAM DIVERSION AS DETAILED BY THE PLANS, AND 934 BAGS FOR SUSPENDED PIPE DIVERSION PLUS 10% CONTINGENCY.

(55) AN ABANDONED TROLLY LINE MAYBE ENCOUNTERED DURING EXCAVATION ACTIVITIES ACROSS SR-8. ANY COST ASSOCIATED WITH REMOVING ELEMENTS OF THE TROLLEY LINE WILL BE INCLUDE IN THE PRICE BID FOR THIS ITEM.

(56) FOR USE WITH RETAINING WALLS

(57) THIS ITEM IS INTENDED TO PROVIDE A GABION MATTRESS SYSTEM FOR STRUCTURAL SUPPORT AND EROSION PROTECTION. THE SYSTEM SHALL CONSIST OF DOUBLE TWISTED HEXAGONAL WIRE MESH OR WELDED WIRE MESH UNITS FABRICATED FROM GALVANIZED STEEL AND FORMED INTO RECTANGULAR COMPARTMENTS DESIGNED TO PROVIDE UNIFORM LOAD DISTRIBUTION AND ALLOW THE SYSTEM TO CONFORM TO IRREGULAR TERRAIN. THE GABION MATTRESS SYSTEM SHALL BE LISTED ON TDOT QPL 46.

(58) PAYMENT SHALL INCLUDES FURNISHING AND INSTALLING THE GABION MATTRESS SYSTEM LISTED ON TDOT QPL 46, INCLUDING ALL MATERIALS (SUCH AS BUT NOT LIMITED TO: WIRE MESH UNITS, DIAPHRAGMS, TIE WIRES, FASTENERS, STONE FILL, GEOTEXTILE FABRIC, ANCHORAGE), LABOR, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE PLANS. THE CY PAYMENT WILL BE MEASURED BY THE INSTALLED DIMENSIONS OF THE GABION MATTRESS BASKETS AND NOT INCLUDE ANY ANCHORAGE DIMENSIONS. ANY GABIONS DAMAGED PRIOR TO FINAL ACCEPTANCE OF THE SYSTEM, SHALL BE REPAIRED OR RECONSTRUCTED AS DIRECTED BY THE ENGINEER. ALL COSTS OF REPAIRS OR RECONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE.

(59) INCLUDES 300 SF FOR ROCKFALL MITIGATION AND 100 SF FOR SHOTCRETE DITCH REPAIR.

(60) THE PRICE BID SHALL BE FOR A COMPLETE AND IN-PLACE INSTALLATION OF RETAINING WALL 4D. RETAINING WALL 4D SHALL BE DESIGNED IN ACCORDANCE WITH THE STANDARDS SET FORTH IN TDOT SP 624 (MOST CURRENT EDITION).

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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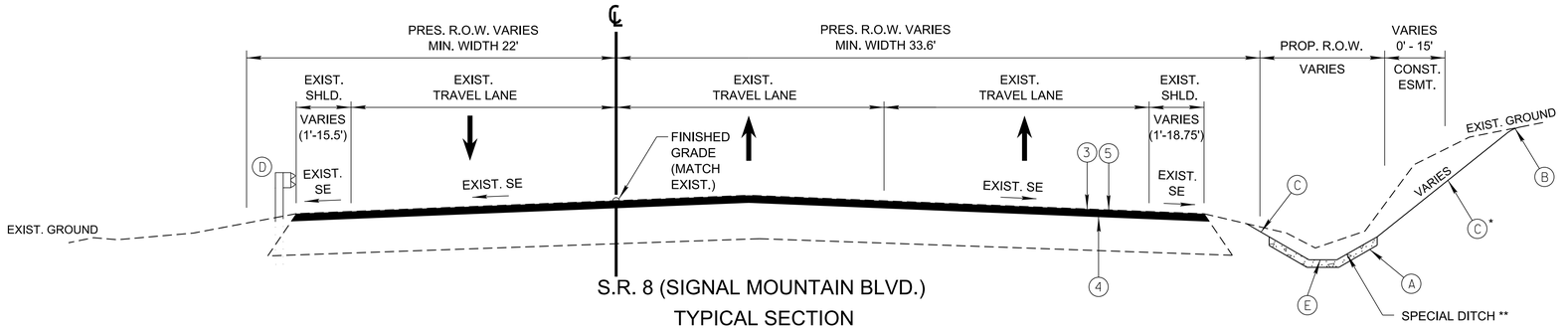
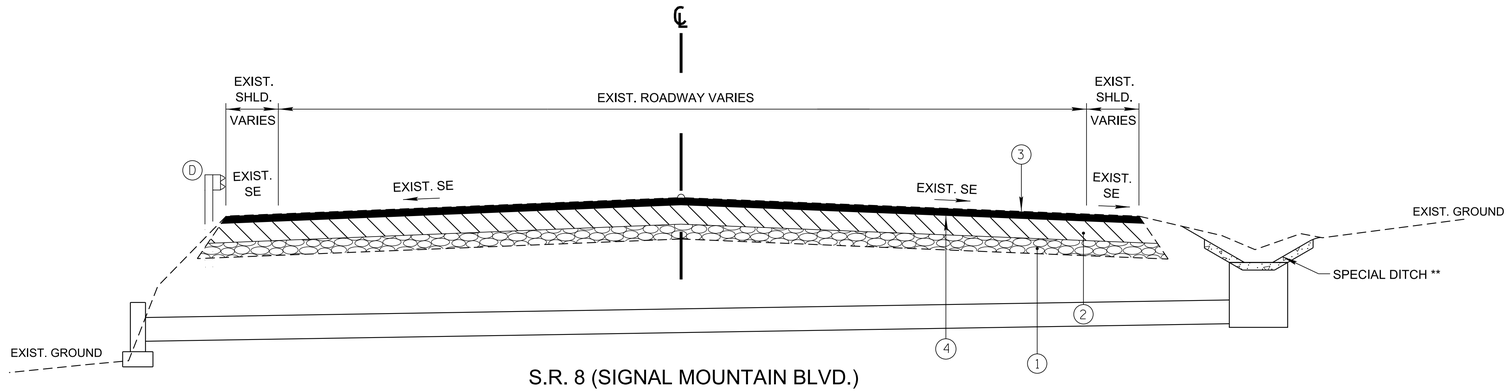
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	2B
PIH	2026	STP-8(52)	2B
PS&E	2026	STP-8(52)	2B



S.R. 8 (SIGNAL MOUNTAIN BLVD.)
TYPICAL SECTION

(BASED ON STD. DWG. RD11-TS-3)

STA. 738+00.00 TO STA. 757+73.04 (34' TRAVELWAY WIDTH)
STA. 757+73.04 TO STA. 763+53.55 (35' TRAVELWAY WIDTH)
STA. 763+53.55 TO STA. 802+75.00 (33' TRAVELWAY WIDTH)
STA. 806+75.00 TO STA.815+17.46 (34' TRAVELWAY WIDTH)
STA. 815+17.46 TO STA. 826+50.00 (32' TRAVELWAY WIDTH)



S.R. 8 (SIGNAL MOUNTAIN BLVD.)
TYPICAL SECTION FOR PIPE INSTALLATION

(BASED ON STD. DWG. RD11-TS-3)

STA. 738+45.00
STA. 751+97.00
STA. 758+50.00
STA. 768+60.00
STA. 775+80.62
STA. 778+94.95
STA. 833+11.69
STA. 834+50.00
STA. 844+30.00
STA. 858+54.35
STA. 863+75.03
STA. 888+73.23

PROPOSED PAVEMENT SCHEDULE

1	MINERAL AGGREGATE BASE (12") ROADWAY & FULL DEPTH UNDER SHOULDERS 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D
2	BITUMINOUS PLANT MIX BASE (HOT MIX) (8") (APPROX. 226.0 LBS/SY) 307-02.08 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2
3	ASPHALT CONCRETE SURFACE (HOT MIX) (1.25") (APPROX. 132.5 LBS/SY) 411-02.10 ACS MIX (PG70-22) GRADING D
4	TACK COAT (RATE 0.05 - 0.10 GAL/SY GENERAL USE, 0.08 - 0.12 GAL/SY WITH COLD PLANING) 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)
5	COLD PLANING (1.25") 415-01.01 COLD PLANING BITUMINOUS PAVEMENT (TON)

NOTE:

* - TURF REINFORCEMENT MAT (TRM) SHALL BE USED FROM THE BACKSLOPE OF THE CONCRETE DITCH TO THE TOP OF THE CUT LINE INSTEAD OF SOD FOR FINAL STABILIZATION AT STATIONS: STA 748+50 to 751+50, STA 769+50 to 772+50, STA 776+50 to 779+00, STA 782+00 to 783+50,STA 787+50 to 789+00, and STA 794+50 to 796+50. A 30' BUFFER WILL BE PROVIDED BETWEEN THE TRM AND ANY AQUATIC FEATURE ON THE PROJECT. SOD SHALL USED IN THE BUFFER AREAS.

** - SEE SHEETS 2B3 AND 2F3 FOR ADDITONAL SPECIAL DITCH DETAILS.

NOTE:

NO ROADWAY WORK IS PERFORMED BETWEEN STA 806+75.00 to STA 815+17.46

GENERAL NOTES

(A) SEE STANDARD DRAWING RD11-S-11A FOR ROADSIDE DITCH DETAILS.

(B) SEE STANDARD DRAWING RD11-S-11 FOR FILL AND CUT SLOPE TABLES, ROUNDING ON TOP OF CUT SLOPES AND TOE OF FILL SLOPES, AND SPECIAL ROCK CUT TREATMENT.

(C) ITEM NO. 803-01 (NEW SOD) SHALL BE USED ON ALL SLOPES. EXCEPT WHERE NOTED DIFFERENTLY IN THE PLANS.

(D) SEE STANDARD ROADWAY DRAWINGS FOR GUARDRAIL PLACEMENT AND FLARE DETAILS.

(E) SEE DETAIL OF CONC. DITCH SHEET 2B3.

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DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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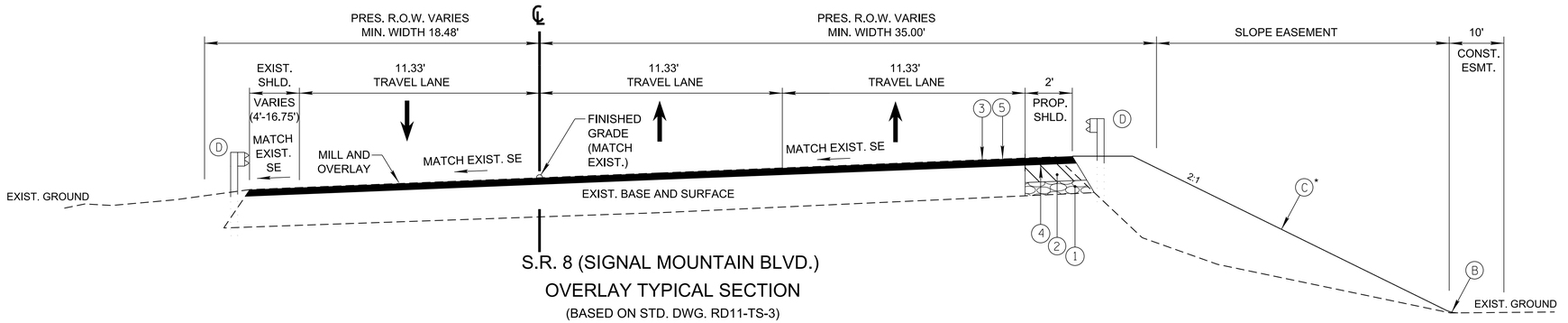
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	2B1
PIH	2026	STP-8(52)	2B1
PS&E	2026	STP-8(52)	2B1



S.R. 8 (SIGNAL MOUNTAIN BLVD.)
OVERLAY TYPICAL SECTION

(BASED ON STD. DWG. RD11-TS-3)

STA. 802+75.00 TO STA. 806+75.00

PROPOSED PAVEMENT SCHEDULE

(1)	MINERAL AGGREGATE BASE (12") ROADWAY & FULL DEPTH UNDER SHOULDERS 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D
(2)	BITUMINOUS PLANT MIX BASE (HOT MIX) (8") (APPROX. 226.0 LBS/SY) 307-02.08 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2
(3)	ASPHALT CONCRETE SURFACE (HOT MIX) (1.25") (APPROX. 132.5 LBS/SY) 411-02.10 ACS MIX (PG70-22) GRADING D
(4)	TACK COAT (RATE 0.05 - 0.10 GAL/SY GENERAL USE, 0.08 - 0.12 GAL/SY WITH COLD PLANING) 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)
(5)	COLD PLANING (1.25") 415-01.01 COLD PLANING BITUMINOUS PAVEMENT (TON)

NOTE:

* - TURF REINFORCEMENT MAT (TRM) SHALL BE USED FROM THE BACKSLOPE OF THE CONCRETE DITCH TO THE TOP OF THE CUT LINE INSTEAD OF SOD FOR FINAL STABILIZATION AT STATIONS: STA 748+50 to 751+50, STA 769+50 to 772+50, STA 776+50 to 779+00, STA 782+00 to 783+50,STA 787+50 to 789+00, and STA 794+50 to 796+50. A 30' BUFFER SHALL BE PROVIDED BETWEEN THE TRM AND ANY AQUATIC FEATURE ON THE PROJECT. SOD SHALL USED IN THE BUFFER AREAS.

GENERAL NOTES

(A) SEE STANDARD DRAWING RD11-S-11A FOR ROADSIDE DITCH DETAILS.

(B) SEE STANDARD DRAWING RD11-S-11 FOR FILL AND CUT SLOPE TABLES, ROUNDING ON TOP OF CUT SLOPES AND TOE OF FILL SLOPES, AND SPECIAL ROCK CUT TREATMENT.

(C) ITEM NO. 803-01 (NEW SOD) SHALL BE USED ON ALL SLOPES. EXCEPT WHERE NOTED DIFFERENTLY IN THE PLANS.

(D) SEE STANDARD ROADWAY DRAWINGS FOR GUARDRAIL PLACEMENT AND FLARE DETAILS.

(E) SEE DETAIL OF CONC. DITCH SHEET 2B3.

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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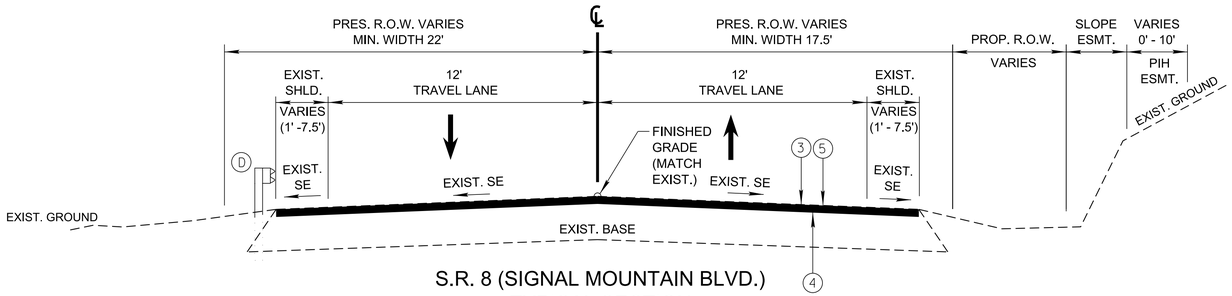
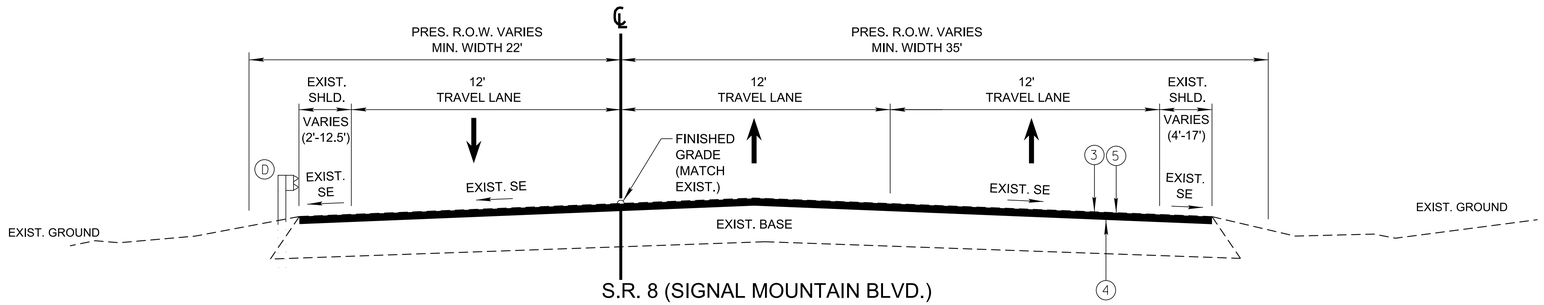
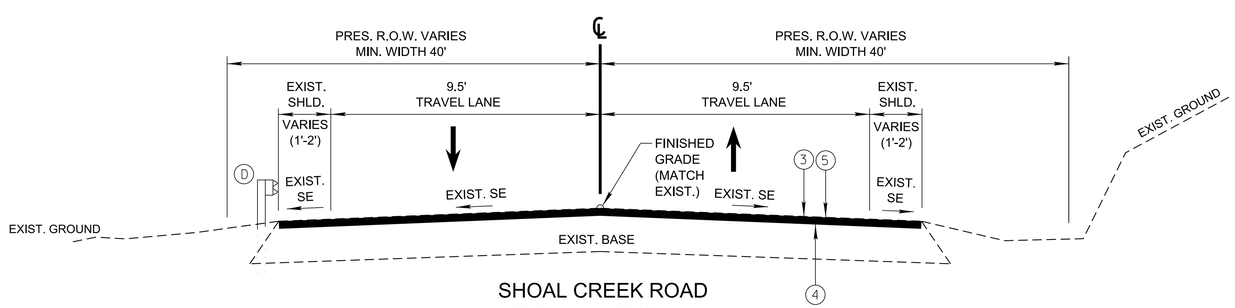
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	2B2
PIH	2026	STP-8(52)	2B2
PS&E	2026	STP-8(52)	2B2



S.R. 8 (SIGNAL MOUNTAIN BLVD.)
TYPICAL SECTION
(BASED ON STD. DWG. RD11-TS-3)
STA. 826+50.00 TO STA. 876+00.00



S.R. 8 (SIGNAL MOUNTAIN BLVD.)
TYPICAL SECTION
(BASED ON STD. DWG. RD11-TS-3)
STA. 876+00.00 TO STA. 891+00.00



SHOAL CREEK ROAD
TYPICAL SECTION
(BASED ON STD. DWG. RD11-TS-1A)
STA. 60+50.00 TO STA. 62+75.00

PROPOSED PAVEMENT SCHEDULE

3	ASPHALT CONCRETE SURFACE (HOT MIX) (1.25") (APPROX. 132.5 LBS/SY) 411-02.10 ACS MIX (PG70-22) GRADING D
4	TACK COAT (RATE 0.05 - 0.10 GAL/SY GENERAL USE, 0.08 - 0.12 GAL/SY WITH COLD PLANING) 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)
5	COLD PLANING (1.25") 415-01.01 COLD PLANING BITUMINOUS PAVEMENT (TON)

GENERAL NOTES

(D) SEE STANDARD ROADWAY DRAWINGS FOR GUARDRAIL PLACEMENT AND FLARE DETAILS.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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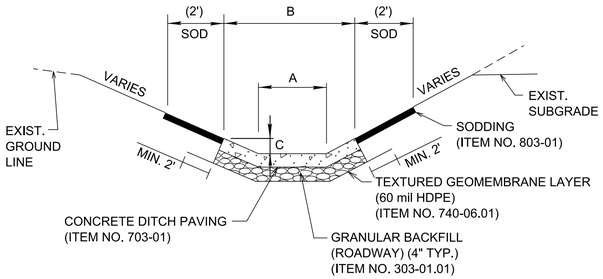
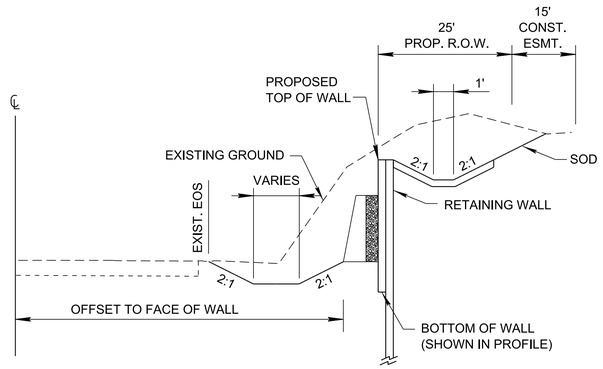
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	2B3
PIH	2026	STP-8(52)	2B3
PS&E	2026	STP-8(52)	2B3



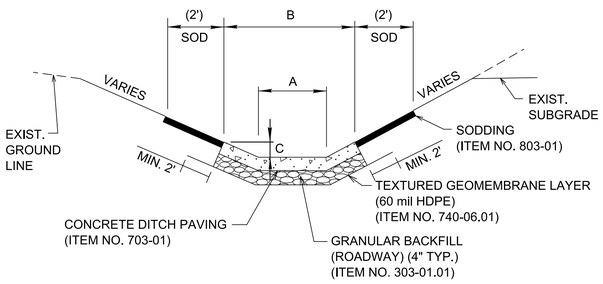
DETAIL OF T CONCRETE DITCH

STA. 738+68.59 TO STA. 739+00.00 (A=4', B=16')
STA. 739+71.71 TO STA. 741+88.87 (A=3.5', B=13.5')
STA. 742+09.42 TO STA. 742+64.12 (A=3.5', B=13.5')
STA. 742+98.04 TO STA. 743+83.42 (A=3', B=13')
STA. 744+24.39 TO STA. 744+90.40 (A=3', B=13')
STA. 745+64.06 TO STA. 751+50.00 (A=1.5', B=9.5')
STA. 751+50.00 TO STA. 752+50.00 (A=4.2', B=12')
STA. 752+50.00 TO STA. 756+15.66 (A=1.5', B=9.5')
STA. 756+76.26 TO STA. 758+00.00 (A=1.5', B=9.5')
STA. 758+00.00 TO STA. 759+00.00 (A=4.2', B=12.2')
STA. 759+00.00 TO STA. 761+00.00 (A=1.5', B=9.5')
STA. 761+00.00 TO STA. 761+39.96 (A=3', B=11')
STA. 761+48.59 TO STA. 768+00.00 (A=1.5', B=9.5')
STA. 768+00.00 TO STA. 769+50.00 (A=2.7', B=10.7')
STA. 769+50.00 TO STA. 774+50.00 (A=1.5', B=9.5')
STA. 775+58.70 TO STA. 778+50.00 (A=1.5', B=9.5')
STA. 778+50.00 TO STA. 779+50.00 (A=4.2', B=12.2')
STA. 779+50.00 TO STA. 784+00.20 (A=1.5', B=9.5')
STA. 790+23.86 TO STA. 799+50.00 (A=1.5', B=9.5')
STA. 815+17.04 TO STA. 816+50.00 (A=2', B=8')
STA. 816+50.00 TO STA. 817+50.00 (A=4', B=7.5')
STA. 817+50.00 TO STA. 818+50.00 (A=5.25', B=9.75')
STA. 818+50.00 TO STA. 819+50.00 (A=4', B=7.5')
STA. 819+50.00 TO STA. 820+50.00 (A=3', B=11')
STA. 822+13.52 TO STA. 822+50.00 (A=5.3', B=9')
STA. 822+50.00 TO STA. 823+00.00 (A=4', B=9.25')
STA. 823+00.00 TO STA. 824+20.61 (A=3', B=7')
STA. 824+73.34 TO STA. 825+50.00 (A=5.3', B=9')
STA. 825+50.00 TO STA. 826+50.00 (A=3.5', B=11.5')



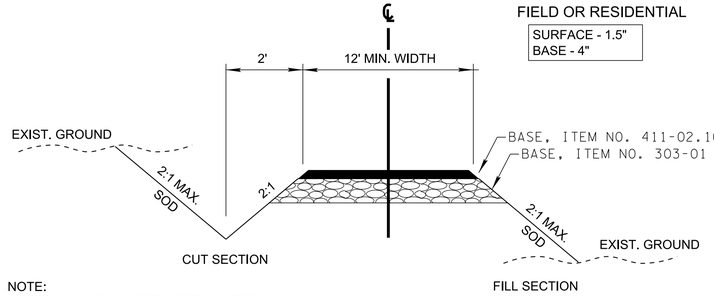
D-WALL DETAIL

1D: STA. 762+00.00 TO STA. 768+51.78
2D: STA. 769+00.00 TO STA. 774+50.00
3D: STA. 817+00.00 TO STA. 819+00.00



DETAIL OF T CONCRETE CHANNEL

STA. 774+50.00 TO STA. 775+58.70 (A=1.5', B=9.5') (STR-1)
STA. 784+00.20 TO STA. 790+23.86 (A=1.5', B=9.5') (STR-3)



NOTE:
1. DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER.

TYPICAL SECTION

PRIVATE DRIVE TO
FIELD OR RESIDENTIAL PROPERTY

SEALED BY



GENERAL NOTES

(C) ITEM NO. 803-01 (NEW SOD) SHALL BE USED ON ALL SLOPES. EXCEPT WHERE SHOWN DIFFERENTLY IN THE PLANS.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	2C
PS&E	2026	STP-8(52)	2C

GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

(2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.

SEEDING AND SODDING

(1) ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, TOPSOILED AND SEEDED. SCARIFYING AND OBLITERATING THE PAVEMENT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS. TOPSOIL, IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 203-04 AND/OR 203-07. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 801-01.

(2) SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.

(3) ITEM NO. 801-02, SEEDING (WITHOUT MULCH) AND EROSION CONTROL BLANKET, SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AS WELL AS LOCATIONS DIRECTED BY THE ENGINEER.

GUARDRAIL

(1) THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

DRAINAGE

(1) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(2) EXCAVATION FOR PIPE CULVERTS, STORM SEWERS, ALL OTHER CULVERTS AND MINOR STRUCTURES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE.

(3) CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(4) THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).

(5) WHERE A CULVERT (PIPE, SLAB OR BOX) IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION, NO INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT WILL BE MADE DUE TO SUCH CHANGE.

(6) DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

(7) ALL EXISTING PIPES AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER THAT ARE TO BE LEFT IN PLACE AND ABANDONED MUST BE BACKFILLED AND PLUGGED. ALL COST FOR THIS WORK SHALL BE INCLUDED IN ITEM NO. 204-08.01, BACKFILL MATERIAL (FLOWABLE FILL), C.Y.

MISCELLANEOUS

(1) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

ROAD CLOSURE

(1) NO LESS THAN SEVEN (7) DAYS PRIOR TO THE CLOSURE OF THE ROAD, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES COMPLETELY DESCRIBING THE AFFECTED ROADS AND THE APPROXIMATE DURATION OF THE CONSTRUCTION: THESE PARTIES INCLUDE, BUT ARE NOT LIMITED TO: (1) LOCAL LAW ENFORCEMENT OFFICE, (2) LOCAL FIRE DEPARTMENT, (3) AMBULANCE SERVICE, (4) LOCAL SCHOOL SUPERINTENDENT, (5) UNITED STATES POSTAL SERVICE, AND (6) LOCAL ROAD SUPERINTENDENT.

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKINGS ON INTERMEDIATE LAYERS

(1) WIDE (8 INCH) TEMPORARY PAVEMENT MARKING LINE WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.02 PAINTED PAVEMENT MARKING (8" BARRIER LINE), L.F.

FINAL PAVEMENT MARKING

(2) THE CONTRACTOR WILL BE REQUIRED TO PERFORM THE FOLLOWING WORK:

a. BROOMING & DE-GRASSING SHOULDERS SHALL INCLUDE CLIPPING OF MATERIAL INTERFERING WITH PROPER DRAINAGE OF ROADWAY (INCLUDING PAVED AND GRAVEL SHOULDERS), AS DIRECTED BY THE ENGINEER.

b. ALL MATERIAL FROM CLIPPING, BROOMING AND DE-GRASSING SHOULDERS SHALL BE PICKED UP, REMOVED AND PROPERLY DISPOSED AS DIRECTED BY THE ENGINEER.

c. ALL COSTS ASSOCIATED WITH PICKING UP, REMOVAL AND PROPER DISPOSAL SHALL BE PAID FOR UNDER ITEM NO. 208-01.05.

d. REMOVE ALL GARBAGE AND CONSTRUCTION DEBRIS FROM PROJECT. THE COST FOR THIS WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(3) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-12.02, ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

SNOWPLOWABLE REFLECTIVE PAVEMENT MARKERS

(4) REMOVE EXISTING SNOWPLOWABLE MARKERS PRIOR TO PAVING AND/OR COLD PLANING. REMOVE ALL ADHESIVES PRIOR TO PAVING. PATCH ANY HOLES OR DIVOTS RESULTING FROM THE REMOVAL OF A MARKER IN A MANNER WHICH ENSURES A UNIFORM PAVED SURFACE. PATCH WORK SHALL BE INCLUDED WITH COST OF OTHER ITEMS OF CONSTRUCTION.

PAVEMENT

PAVING

(1) THE CONTRACTOR SHALL BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.

(2) THE CONTRACTOR SHALL ATTACH A DEVICE TO THE SCREED OF THE PAVER SUCH THAT MATERIAL IS CONFINED AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A CONSOLIDATED WEDGE-SHAPE PAVEMENT EDGE OF APPROXIMATELY 25 TO 30 DEGREES AS IT LEAVES THE PAVER (MEASURED FROM A LINE PARALLEL TO THE PAVEMENT SURFACE.) THE DEVICE SHALL MEET THE REQUIREMENTS THAT ARE CURRENTLY SET FORTH IN SPECIAL PROVISION 407SE.

RESURFACING

(3) WHERE DIRECTED BY THE TDOT ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SHAPE PUBLIC SIDE ROADS, BUSINESS ENTRANCES, AND PRIVATE DRIVES, AS WELL AS CLEANING OF EXISTING DRAINS BEFORE PLACING MATERIALS. ALL COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(4) ALL PUBLIC SIDE ROADS SHALL BE PAVED ONE PAVER WIDTH THROUGH THE INTERSECTION AS A MINIMUM. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD OR BUSINESS ENTRANCE SHALL BE PROVIDED. SHOULD THE PAVEMENT OF THE INTERSECTING PUBLIC ROAD BE DISTRESSED, THE RESURFACING WIDTH MAY BE INCREASED TO THE NORMAL RIGHT OF WAY LINE.

(5) PRIVATE DRIVEWAYS, FIELD ENTRANCES, AND BUSINESS ENTRANCES WILL BE RESURFACED A PAVER WIDTH (LANE WIDTH) AS A MINIMUM. A PAVEMENT TAPER TO TRANSITION THE NEW PAVEMENT SHALL BE REQUIRED, IT SHALL BE BASED ON AN ADDITIONAL ONE FOOT OF WIDTH PER ONE INCH DEPTH OF PAVEMENT. IF THE SHOULDER IS NARROW ENOUGH THAT THE SUM OF THE SHOULDER AND THE TRANSITION ARE LESS THAN A PAVER WIDTH, THE TRANSITION SHALL OCCUR WITHIN THE PAVER WIDTH. IF THE SUM OF THE SHOULDER AND THE TRANSITION IS GREATER THAN A PAVER WIDTH (LANE WIDTH), THE TRANSITION SHALL OCCUR OUTSIDE OF THE PAVER WIDTH.

(6) IN ALL CASES, THE LENGTH OF THE PAVEMENT TRANSITION, THE THICKNESS AND WIDTH OF THE RESURFACING AND ANY ADDITIONAL PAVEMENT MATERIALS SHALL BE AS DIRECTED BY THE TDOT ENGINEER.

GRADED SOLID ROCK

(1) THE ROCK FILL (GRADED SOLID ROCK) MATERIAL SHALL CONSIST OF SOUND, NON-DEGRADABLE LIMESTONE OR SANDSTONE WITH A MAXIMUM SIZE OF 3'-0". AT LEAST 50% (BY WEIGHT) OF THE ROCK SHALL BE UNIFORMLY DISTRIBUTED BETWEEN 1'-0" AND 3'-0" IN DIAMETER, AND NO GREATER THAN 10% (BY WEIGHT) SHALL BE LESS THAN 2" IN DIAMETER. THE MATERIAL SHALL BE ROUGHLY EQUIDIMENSIONAL; THIN, SLABBY MATERIALS WILL NOT BE ACCEPTED. THE CONTRACTOR SHALL BE REQUIRED TO PROCESS THE MATERIAL WITH AN ACCEPTABLE MECHANICAL MEANS (A SCREENING PROCESS CAPABLE OF PRODUCING THE REQUIRED GRADATION). THE ROCK SHALL BE APPROVED BY A REPRESENTATIVE OF THE DIVISION OF MATERIALS AND TESTS BEFORE USE.

(2) THIS GRADED SOLID ROCK MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING FIVE FEET IN DEPTH.

SIGNING

(1) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ORDERING MATERIAL OR ERECTION. IF THE SUPPORT LENGTHS DIFFER BY MORE THAN 2 FEET FROM THOSE SHOWN ON THE PLANS, THE ENGINEER SHALL VERIFY THE SUPPORT TYPE WITH THE TRAFFIC DESIGN DIVISION, SIGNING SECTION, TELEPHONE NO. (615)-741-0802.

(2) THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.

(3) AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE APPROPRIATE REGIONAL OPERATIONS OR CONSTRUCTION OFFICE PRIOR TO ORDERING MATERIAL OR INSTALLING THE SUPPORTS. PAYMENT FOR LOCATION AND STAKING SHALL BE INCLUDED IN THE BID PRICE FOR OTHER ITEMS OF CONSTRUCTION. ANY RELOCATION REQUIRED DUE TO INCORRECT INSTALLATION SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

(4) ALL SIGNS MARKED "TO BE REMOVED" ARE TO BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER ITEM NO. 713-15 AND BECOME THE PROPERTY OF THE CONTRACTOR.

(5) THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.

(6) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY THE SILK SCREENING PROCESS, EXCEPT THAT CUT-OUT DIRECT APPLIED COPY SHALL BE USED ON SIGNS WITH GREEN OR BROWN BACKGROUNDS.

(7) ALL SIGNS WHICH INTERFERE WITH CONSTRUCTION WILL BE RELOCATED OUTSIDE LIMITS OF CONSTRUCTION BY THE CONTRACTOR. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR WILL RESTORE THE SIGNS TO ORIGINAL LOCATION. THE CONTRACTOR SHALL CHECK WITH THE REGIONAL TRAFFIC ENGINEER PRIOR TO MOVING ANY PERMANENT SIGNS.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.

(2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.

(3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.

(4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

(5) USE OF BARRICADES, PORTABLE BARRIER RAILS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR

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JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2024	STP-8(52)	2C
PS&E	2026	STP-8(52)	2C1

GENERAL NOTES

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(6) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

(8) THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING CONSTRUCTION SIGNS. THE COST OF THIS WORK SHALL BE INCLUDED IN ITEM NO. 712-06, SIGNS (CONSTRUCTION), S.F.

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DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	2E
PIH	2026	STP-8(52)	2E
PS&E	2026	STP-8(52)	2E

ENVIRONMENTAL NOTES

ENVIRONMENTAL GENERAL NOTES

NATURAL RESOURCES

(1) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT NATURAL RESOURCES AND WATER QUALITY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG NATURAL RESOURCES IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS, WETLANDS OR OTHER NATURAL FEATURES IN ACCORDANCE WITH TDOT STANDARDS. EPSC MEASURES SHALL BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.

(2) NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL.

(3) INSTREAM EPSC DEVICES REQUIRE THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN WATER QUALITY PERMITS.

(4) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS, IS NOT ALLOWED.

(5) THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING, NOT TO EXCEED THE WIDTH SPECIFIED IN THE STANDARD DRAWING.

(6) STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CULVERT CROSSINGS SHALL BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES SHALL BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK SHALL BE USED AT THE CROSSING POINT AND CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, WHICH CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS. OTHER MATERIALS USED FOR ALL TEMPORARY FILLS SHALL BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO PREEXISTING ELEVATIONS. ALL TEMPORARY CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (E.G. BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.) FROM TOP OF BANK TO TOP OF BANK OR THE APPROPRIATE USE OF BARGES AT THE CROSSING TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.

(7) HEAVY EQUIPMENT WORKING IN WETLANDS WITH PERMITTED TEMPORARY IMPACTS SHALL BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE AND COMPACTION UNLESS SPECIFICALLY ADDRESSED IN THE CONSTRUCTION PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT SHALL BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED. ALL AFFECTED AREAS SHOULD BE RETURNED TO PRE-EXISTING CONDITIONS.

(8) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION PLANS AND PERMITS.

(9) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS PRIOR TO ANY CONSTRUCTION AND MAINTENANCE ACTIVITIES TO ENSURE THAT ENVIRONMENTAL FEATURES (E.G., STREAMS, WETLANDS, SPRINGS, ETC.) ARE NOT IMPACTED BEYOND PERMITTED LOCATIONS. IF THE CONTRACTOR OR TDOT INSPECTOR IS UNSURE OF THE IDENTITY OF AN ENVIRONMENTAL FEATURE, THE INSPECTOR SHALL CONTACT THE TDOT REGION ENVIRONMENTAL TECH GROUP IMMEDIATELY.

SPECIES

(10) NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA.

(11) SHOULD CLIFF SWALLOW OR BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG AND ADULTS) BE PRESENT, THE CONTRACTOR SHALL CONTACT THE REGIONAL ECOLOGY OFFICE TO DETERMINE IF SEASONAL RESTRICTIONS WILL BE NECESSARY. GENERALLY, BIRDS, NESTS, AND EGGS MAY NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS CAN BE REMOVED OR DESTROYED SO LONG AS BIRDS OR EGGS ARE NOT PRESENT, AND MEASURES IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (I.E., CLOSING OFF AREA USING NETTING).

(12) IF THE REMOVAL OF ANY TREES WITH A DIAMETER AT BREAST HEIGHT (DBH) GREATER THAN 3 INCHES IS DEEMED NECESSARY, THE TDOT SUPERVISOR SHALL CONTACT THE TDOT ENVIRONMENTAL DIVISION, ECOLOGY SECTION IMMEDIATELY.

PERMITS, PLANS & RECORDS

(13) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO ARCHAEOLOGY, ECOLOGY, HISTORICAL, HAZARDOUS MATERIALS, AIR AND NOISE, TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING ANY MATERIAL AND STAGING AREAS AND THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS TO BE USED. ANY SUCH PERMITS SHALL BE SUPPLIED TO THE TDOT PROJECT RESPONSIBLE PARTY PRIOR TO THE USE OF THE PERMITTED AREA(S).

(14) ANY DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT RESPONSIBLE PARTY. THE ENVIRONMENTAL DIVISION, DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.

(15) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE TDOT PERMIT SECTION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS ARE NEEDED. THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

(16) THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATE. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

(17) ALL WATER QUALITY PERMITS SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BRIEF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

SUPPORT ACTIVITIES

(18) MATERIALS AND STAGING AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY ENVIRONMENTAL PERMITS, OBTAINED SOLELY BY THE CONTRACTOR. THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATES. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

ENVIRONMENTAL

(19) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

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ENVIRONMENTAL NOTES

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ENVIRONMENTAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	2E1
PIH	2026	STP-8(52)	2E1
PS&E	2026	STP-8(52)	2E1

ENVIRONMENTAL SPECIAL NOTES

ENVIRONMENTAL

(1) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE SHALL BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS.

ECOLOGY

(2) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR A DESIGNATED CONSULTANT WILL NEED TO BE ONSITE FOR WORK BEING DONE WHICH COULD AFFECT WATERS OF THE STATE/U.S. OR SPECIES.

(3) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECTS WHICH HAVE THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT PROXIMAL TO SCHEDULED WORK. THIS WILL PROVIDE THE OPPORTUNITY TO ENSURE THAT PERSONNEL INCLUDING THE CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE MADE AWARE OF THE NECESSARY PRECAUTIONS THAT MUST BE FOLLOWED.

PROJECT COMMITMENTS

(4) SEE PROJECT COMMITMENTS, SHEET 1B, FOR DETAILS RELATING TO SPECIAL ENVIRONMENTAL COMMITMENTS REQUIRED BY THIS PROJECT.

SCOPE OF WORK

(5) GRADE, DRAIN, PAVE, STRUCTURES, SLOPE STABILIZATION AT VARIOUS LOCATIONS FOR ROCK FALL MITIGATION; REPAIRS AND UPGRADES TO CULVERTS AND OTHER DRAINAGE FEATURES.

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ENVIRONMENTAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	2F
PIH	2026	STP-8(52)	2F
PS&E	2026	STP-8(52)	2F

REV. 12-10-21: UPDATED QUANTITIES IN "RIGHT OF WAY MARKERS" TABULATED BOX.

REV. 3-8-22: UPDATED QUANTITIES IN RIGHT OF WAY MARKERS AND STORM DRAIN ENDWALLS TABULATED BOXES.

REMOVAL OF PIPES (LF) 202-02.01

SHEET NO.	LOCATION	SIDE		STATION	DESCRIPTION		LENGTH (FT)
		LT	RT		DIAMETER (IN)	MATERIAL	
4	S.R.8		X	738+45.00	48"	RCP	97
4	S.R.8		X	738+53.14	48"	RCP	25
4	S.R.9		X	739+37.89	48"	RCP	58
4	S.R.8		X	742+81.33	30"	RCP	33
4	S.R.8		X	744+04.53	60" x 34"	RCP	49
4	S.R.8		X	745+03.11	60" x 34"	RCP	42
4	S.R.8		X	745+27.77	60" x 34"	RCP	48
4	S.R.8		X	745+57.07	53" x 34"	RCP	81
4	S.R.8		X	745+51.69	38" x 24"	RCP	25
5	S.R.8		X	756+54.43	15"	CMP	19
10	S.R.8		X	821+03.20	18"	CMP	70
10	S.R.8		X	821+80.75	18"	CMP	70
10	S.R.8		X	824+50.23	18"	CMP	26
10	PALISADES		X	23+44.57	28" x 20"	CMP	38
11	S.R.8		X	826+31.16	18'	CMP	41
				TOTAL			721

ESTIMATED GRADING QUANTITIES

DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)
	EXC.	EMB.	EXC.
MAINLINE	9695	3689	8241
SIDE ROADS	0	0	0
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES	0	0	0
INDEPENDENT DITCHES	0	0	0
TEMPORARY CONSTRUCTION EXITS	36	0	31
OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...)	0	0	0
TOPSOIL (EMB.)	815		
TOPSOIL (EXC.)	2445		
TOPSOIL TOTALS (SEE TOPSOIL TAB)			

ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL)	EMB. (UNCL)	EXC. (COMMON)	EXC (AVAIL.)	EXC. (ADJ.)
0	0	12991	3689	12991	9731	8272

BALANCE SUMMARY

SHRINK = 15 % SWELL= 15 %

EMB.		EXC.
3,689	VS.	-8,272
AVAILABLE	=	-4,583
BORROW MATERIAL	=	0

STORM DRAIN ENDWALLS

LOCATION \ SHEET NO.	STATION	OFFSET (FT.)	SKEW	CODE	TYPE	STANDARD DRAWING NO.	PROTECTED ENDWALLS			
							CLASS "A" CONCRETE 611-07.01 (C.Y.)	STEEL BAR REINFORCING 611-07.02 (LB.)	30" IN. 3:1 611-07.60 (EACH)	36" IN. 3:1 611-07.63 (EACH)
S.R.8 \ 4B	738+25.66	61.10	90°	A14	A	D-PEW-1	8.61	447		
S.R.8 \ 4B	738+69.81	50.27	75°	A12	A	D-PEW-1	8.83	457		
S.R.8 \ 4B	739+00.00	60.00	90°	A11	A	D-PEW-1	8.61	447		
S.R.8 \ 4B	739+71.71	53.84	90°	A10	A	D-PEW-1	8.61	447		
S.R.8 \ 4B	741+88.87	49.83	90°	A9B	A	D-PEW-1	7.16	319		
S.R.8 \ 4B	742+09.42	47.40	90°	A9A	A	D-PEW-1	7.16	319		
S.R.8 \ 4B	742+64.12	48.79	90°	A9	A	D-PEW-1	7.16	319		
S.R.8 \ 4B	743+98.04	48.88	90°	A8	A	D-PEW-1	7.16	319		
S.R.8 \ 4B	743+83.42	39.20	90°	A7	A	D-PEW-1	7.16	319		
S.R.8 \ 4B	744+24.39	31.75	90°	A6	A	D-PEW-1	7.16	319		
S.R.8 \ 4B	744+90.40	64.66	90°	A5	A	D-PEW-1	7.16	319		
S.R.8 \ 4B	745+66.06	134.38	90°	A2	A	D-PEW-1	5.82	226		
S.R.8 \ 4B	745+61.65	46.76	90°	A1	A	D-PEW-1	2.11	70		
S.R.8 \ 5B	751+82.19	20.00	90°	B4	STR	D-PE-4	1.50	70		
S.R.8 \ 5B	758+50.00	27.70	90°	C2	STR	D-PE-4	1.50	70		
S.R.8 \ 6B	761+02.47	44.60	75°	D2	A	D-PEW-1	3.98	151		
S.R.8 \ 6B	768+60.00	26.54	90°	E2	A	D-PEW-1	3.89	147		
S.R.8 \ 7B	775+77.22	20.18	90°	F2	STR	D-PE-4	3.00	140		
S.R.8 \ 7B	775+81.17	43.68	90°	F1	U	D-PE-30A	-	-	2	
S.R.8 \ 7B	778+92.27	24.00	90°	G2	A	D-PEW-1	4.88	208		
S.R.8 \ 10B	817+78.00	24.00	90°	M11*	A	D-PEW-1	8.61	447		
S.R.8 \ 11B	833+11.69	45.00	90°	L3	U	D-PE-36A	-	-		1
S.R.8 \ 11B	834+54.98	21.70	90°	R2	STR	D-PE-4	1.50	70		
S.R.8 \ 12B	844+30.00	34.35	90°	N3	A	D-PEW-1	3.89	147		
S.R.8 \ 13B	858+52.05	26.76	90°	P4	STR	D-PE-4	1.10	73		
S.R.8 \ 13B	863+80.63	18.75	90°	U1	STR	D-PE-4	3.00	140		
S.R.8 \ 13B	863+68.05	20.75	90°	U2	STR	D-PE-4	3.00	140		
S.R.8 \ 15B	888+80.91	26.60	90°	AA1	STR	D-PE-4	1.50	70		
S.R.8 \ 15B	888+61.65	39.80	90°	AA2	STR	D-PE-4	1.50	70		
TOTALS							136	6270	2	1

* Note: M11 quantities are based on a 48" X 76" opening per D-PEW-3

TOPSOIL

IF EXISTING TOPSOIL IS SUITABLE FOR REUSE

PROPOSED SLOPE AREA S.F.	EXISTING TOPSOIL (EXC.)	EXISTING TOPSOIL (EMB.)	EXISTING TOPSOIL (TOTAL) C.Y.	REQUIRED TOPSOIL C.Y.	PLACING TOPSOIL 203-04 C.Y.	FURNISHED TOPSOIL 203-07 C.Y.	EXCESS TOPSOIL C.Y.	ADJUSTED WASTE TOTAL (C.Y.)
64252	2445	815	3260	1190	1190	0	2070	13800

IF EXISTING TOPSOIL IS NOT SUITABLE FOR REUSE

PROPOSED SLOPE AREA S.F.	EXISTING TOPSOIL (EXC.)	EXISTING TOPSOIL (EMB.)	EXISTING TOPSOIL (TOTAL) C.Y.	REQUIRED TOPSOIL C.Y.	PLACING TOPSOIL 203-04 C.Y.	FURNISHED TOPSOIL 203-07 C.Y.	EXCESS TOPSOIL C.Y.	ADJUSTED WASTE TOTAL (C.Y.)
	N/A	N/A	N/A	0	N/A	0	N/A	N/A

RIGHT OF WAY MARKERS

SHEET NO.	QUANTITIES			
	"A"	"B"	"C"	TOTALS
004A	11	3	2	16
005A	10	7	5	22
006A	5	6	4	15
007A	7	9	8	24
008A	6	0	1	7
009A	0	3	4	7
010A	3	9	10	22
011A	2	3	6	11
012A	6	5	5	16
013A	0	3	3	6
015A	0	2	2	4
TOTALS	50	50	50	150

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REGISTERED ENGINEER
AGRICULTURE COMMERCE
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6/29/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	2F1
PIH	2026	STP-8(52)	2F1
PS&E	2026	STP-8(52)	2F1

REV. 3-8-22: UPDATED QUANTITIES IN STORM DRAIN TABULATED BOX.

STORM DRAIN AND CROSS DRAIN PIPES

SHEET NO.	INLET		OUTLET		% GRADE	REINFORCED CONCRETE PIPE - CLASS, ITEM NO., SIZE & LENGTH (FT.)											
	CODE NO.	OUTLET ELEV.	CODE NO.	INLET ELEV.		CLASS III 607-03.02 18"	CLASS III 607-05.02 24"	CLASS III 607-06.02 30"	CLASS V 607-07.11 36"	CLASS III 607-07.02 36"	CLASS III 607-08.02 42"	CLASS III 607-16.02 30"X19"	CLASS III 607-16.04 38"X24"	CLASS III 607-16.09 60"X38"	CLASS III 607-57.06 58"X36"	CLASS III 607-16.10 68"X43"	CLASS III 607-16.11 76"X48"
4B	A1	760.74	A3	757.00	14.38%								26'				
4B	A2	760.00	A3	754.50	6.55%									84'			
4B	A3	754.50	A4	752.50	3.70%											54'	
4B	A4	752.50	A5	751.93	1.24%											46'	
4B	A6	747.15	A7	742.01	10.71%											48'	
4B	A8	737.04	A9	734.30	8.06%											34'	
4B	A9A	731.37	A9B	730.15	4.88%											25'	
4B	A10	718.86	A11	713.90	8.27%												60'
4B	A12	712.42	A13	712.30	0.75%												16'
4B	A13	712.20	A14	711.27	0.96%												97'
5B	B1	836.22	B2	834.39	3.66%	50'											
5B	B3	799.30	B4	798.35	1.90%		50'										
5B	C1	843.57	C2	842.65	1.53%		60'										
6B	D1	858.12	D2	847.77	9.08%				114'								
6B	E1	913.60	E2	912.17	2.86%					50'							
7B	F1	966.40	F2	964.05	3.67%			128'									
7B	G1	981.82	G2	980.99	1.48%						56'						
10B	M1	1241.14	M3	1235.63	4.21%					131'							
10B	M3	1235.53	M4	1233.72	3.85%					47'							
10B	M4	1233.62	M5	1232.09	3.26%					47'							
10B	M5	1231.99	M6	1230.00	1.99%					100'							
10B	M6	1229.90	M7	1225.41	2.33%					193'							
10B	M7	1225.31	M8	1223.95	2.57%					53'							
10B	M8	1223.85	M9	1222.45	2.64%					53'							
10B	M9	1222.35	M10	1221.86	0.64%					77'							
10B	M10	1221.10	M11	1220.08	2.12%										48'		
11B	L1	1273.80	L2	1273.15	1.91%					34'							
11B	L2	1273.03	L3	1272.64	1.95%					20'							
11B	R1	1282.36	R2	1281.68	2.00%		34'										
12B	N1	1336.69	N3	1335.67	1.82%					56'							
13B	P1	1419.30	P2	1418.54	7.60%							10'					
13B	P2	1418.44	P3	1417.64	8.00%							10'					
13B	P3	1417.47	P4	1415.79	2.90%							58'					
13B	U1	1446.23	U2	1443.00	7.51%		86'										
15B	AA1	1634.13	AA2	1629.07	7.44%		68'										
TOTALS						50'	298'	128'	114'	861'	56'	78'	26'	84'	48'	207'	173'

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	2F2
PIH	2026	STP-8(52)	2F2
PS&E	2026	STP-8(52)	2F2

REV. 3-8-22: UPDATED QUANTITIES IN CATCH BASIN, SIDE DRAIN AND CULVERT/BRIDGE TABULATED BOXES.

CATCH BASINS, JUNCTION BOXES & MANHOLES

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE ELEV.	INVERT ELEV.	DEPTH (FT.)	STANDARD DRAWING NO.	ITEM NUMBERS									REMARKS
									TYPE 12 611-12.02 > 4'-8'	TYPE 14 611-14.02 > 4'-8'	TYPE 38 611-38.02 > 4'-8'	TYPE 39 611-39.02 > 4'-8'	TYPE 40 611-40.01 0'-4'	TYPE 40 611-40.02 > 4'-8'	TYPE 42 611-42.02 > 4'-8'	JB 5 611-02.14	MH 611-01.02 > 4'-8'	
4B	S.R.8	745+44.48	59.23	A3	761.38	754.50	6.88	D-JBS-5								1		
4B	S.R.8	745+16.34	92.43	A4	759.38	752.50	6.88	D-JBS-5								1		
4B	S.R.8	738+58.94	33.32	A13	719.64	712.20	7.44	D-CB-12SE	1									
5B	S.R.8	751+97.00	30.91	B3	803.83	799.30	4.53	D-CB-38S			1							
5B	S.R.8	758+50.00	34.20	C1	847.93	843.57	4.36	D-CB-38S			1							
6B	S.R.8	761+46.45	63.79	D1	865.38	858.12	7.26	D-CB-38SB			1							
6B	S.R.8	768+60.11	29.77	E1	919.78	913.60	6.18	D-CB-38SB			1							
7B	S.R.8	778+98.70	31.73	G1	988.55	981.82	6.73	D-CB-38SC			1							
10B	S.R.8	824+85.00	25.00	M1	1245.75	1241.14	4.61	D-CB-40S				1						
10B	S.R.8	823+50.00	25.00	M3	1241.08	1235.53	5.55	D-CB-42SB							1			
10B	S.R.8	823+00.00	25.00	M4	1239.84	1233.62	6.22	D-CB-42SB							1			
10B	S.R.8	822+50.00	25.00	M5	1238.09	1231.99	6.10	D-CB-40S						1				
10B	S.R.8	821+42.00	25.00	M6	1238.59	1229.90	8.69	D-JBS-5								1		
10B	S.R.8	819+50.00	25.00	M7	1230.86	1225.31	5.55	D-CB-42SB							1			
10B	S.R.8	819+00.00	25.00	M8	1229.40	1223.85	5.55	D-CB-42SB							1			
10B	S.R.8	818+50.00	25.00	M9	1227.90	1222.35	5.55	D-CB-42SB							1			
10B	S.R.8	817+77.72	25.00	M10	1225.88	1221.10	4.78	D-CB-40S						1				
11B	S.R.8	833+11.79	25.00	L1	1279.52	1273.80	5.72	D-CB-DI		1								DI PAID UNDER TYPE 14 CB
11B	S.R.8	833+11.79	-22.00	L2	1279.15	1273.03	6.12	D-MH-2									1	
11B	S.R.8	834+46.97	13.49	R1	1288.09	1282.36	5.73	D-CB-DI		1								DI PAID UNDER TYPE 14 CB
12B	S.R.8	844+29.94	21.65	N1	1340.69	1336.69	4.00	D-CB-DI		1								DI PAID UNDER TYPE 14 CB
13B	S.R.8	858+88.58	37.08	P1	1422.45	1419.30	3.15	D-CB-40S					1					
13B	S.R.8	858+72.83	34.91	P2	1421.59	1418.44	3.15	D-CB-40S					1					
13B	S.R.8	858+57.28	32.74	P3	1420.69	1417.47	3.22	D-CB-40S					1					
TOTALS									1	3	5	1	3	2	5	3	1	

SIDE DRAIN ENDWALLS

LOCATION	DRIVE OR ENTRANCE STATION	OFFSET (FT.)	TYPE	STANDARD DRAWING NO.	SKEW	RIP-RAP CLASS xx 709-05.xx (TON)	ENDWALLS 18 IN. 6:1 611-07.31 (EACH)	24 IN. 6:1 611-07.32 (EACH)	30" IN. 6:1 611-07.33 (EACH)	36" IN. 6:1 611-07.34 (EACH)
S.R.8	756+44.03	32.92	SD	D-SEW-1A	90°		1			
S.R.8	756+68.04	31.5	SD	D-SEW-1A	90°		1			
TOTALS						0	2	0	0	0

BOX CULVERT\BRIDGE TABULATION

STATION	LOCATION	TYPE BOX	TYPE SLAB	SKEW	NO. BARRELS	WIDTH	HEIGHT	LENGTH	DRANAGE AREA (ACRES)	STANDARD DRAWING NO.	BRIDGE > 20 FT. CLASS "A" CONCRETE 604-01.01 (CU. YD.)	BRIDGE > 20 FT. STEEL BAR REINF. 604-01.02 (LB.)	STD. DWG. STD-17-17 & 18 FOUNDATION FILL MATERIAL 204-08 (CU. YD.)	STD. DWG. STD-17-17 & 18 GRANULAR BACKFILL 303-01.01 (TONS)
23+44.85	PALISADES ROAD	X		90°	1	12	5	36	72	STD-17-56 STD 17-11	57	10724	22	285
TOTALS											57	10724	22	285

* ALL COST OF CULVERT EXCAVATION WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

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TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	2F3
PIH	2026	STP-8(52)	2F3
PS&E	2026	STP-8(52)	2F3

PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE		STATIONS		W BEAM GR (TYPE 2) MASH TL3 705-06.01 (L.F.)	TYPE 38 MASH TL3 (46.875') 705-06.20 (EACH)	REMARKS
		LT	RT	FROM	TO			
4B	S.R. 8	X		737+87.21	738+59.63	75		TIE TO EXIST.
5B	S.R. 8	X		751+66.24	752+26.	62.5		TIE TO EXIST.
5B	S.R. 8	X		758+20.81	758+80.3	62.5	1	TIE TO EXIST.
6B	S.R. 8	X		768+29.12	768+89.94	62.5		TIE TO EXIST.
7B	S.R. 8	X		775+43.33	776+11.8	75		TIE TO EXIST.
7B	S.R. 8	X		778+64.22	779+22.96	62.5		TIE TO EXIST.
9B	S.R. 8		X	802+81.36	806+68.63	387.5		TIE TO EXIST.
10B	S.R. 8	X		817+25.85	818+25.85	100		TIE TO EXIST.
10B	S.R. 8	X		821+43.	822+68.	37.5	2	
11B	S.R. 8	X		833+10.	835+00.	200	1	TIE TO EXIST.
12B	S.R. 8	X		843+72.8	844+32.8	62.5		TIE TO EXIST.
13B	S.R. 8	X		857+69.3	858+69.3	100		TIE TO EXIST.
13B	S.R. 8		X	863+38.65	863+99.97	62.5		TIE TO EXIST.
13B-14B	S.R. 8	X		861+07.96	866+38.62	537.5	2	
15B	S.R. 8	X		887+70.3	889+91.24	225	2	
15B	S.R. 8		X	887+54.25	889+75.3	225	2	
TOTALS						2337.5	10	

GUARDRAIL REMOVED (L.F.) 706-01

SHEET NO.	LOCATION	SIDE		STATION		LENGTH (FT)
		LT	RT	FROM	TO	
4B	S.R. 8	X		737+87.21	738+59.63	80
5B	S.R. 8	X		751+66.00	752+26.00	60
5B	S.R. 8	X		758+20.81	758+80.30	60
6B	S.R. 8	X		768+29.12	768+89.94	60
7B	S.R. 8	X		775+43.33	776+11.80	70
7B	S.R. 8	X		778+64.22	779+22.96	60
9B	S.R. 8		X	802+81.36	806+68.63	388
10B	S.R. 8	X		817+25.85	818+25.85	100
11B	S.R. 8	X		833+10.00	835+00.00	190
12B	S.R. 8	X		843+72.80	844+32.80	60
13B	S.R. 8	X		857+69.30	858+69.30	100
13B	S.R. 8		X	863+38.65	863+99.97	60
TOTALS						1288

SPECIAL DITCHES

ROAD	STATION		SIDE		LENGTH	DESCRIPTION	DIMENSION "A" (FT)	DIMENSION "B" (FT)	SOD (SY) 803-01	CEMENT CONCRETE DITCH PAVING (CY) 703-01	GEOMEMBRANE (SY) 740-06.01	GRANULAR BACKFILL (ROADWAY) (TON) 303-01.01	REMARKS
	FROM	TO	LT	RT									
S.R. 8	738+69	739+00		X	31	T-CONC	4	16	14	7	56	13	
S.R. 8	739+72	741+89		X	217	T-CONC	3.5	13.5	97	37	326	65	
S.R. 8	742+10	742+64		X	54	T-CONC	3.5	13.5	24	9	82	16	
S.R. 8	742+98	743+84		X	86	T-CONC	3	13	39	14	125	25	
S.R. 8	744+24	744+91		X	67	T-CONC	3	13	30	11	98	20	
S.R. 8	745+64	751+50		X	586	T-CONC	1.5	9.5	261	69	619	121	
S.R. 8	751+50	752+50		X	100	T-CONC	4.2	12	45	15	134	27	
S.R. 8	752+50	756+16		X	366	T-CONC	1.5	9.5	163	43	387	76	
S.R. 8	756+76	758+00		X	124	T-CONC	1.5	9.5	56	15	132	27	
S.R. 8	758+00	759+00		X	100	T-CONC	4.2	12.2	45	16	136	28	
S.R. 8	759+00	761+00		X	200	T-CONC	1.5	9.5	89	24	212	42	
S.R. 8	761+00	761+40		X	40	T-CONC	3	11	18	6	50	11	
S.R. 8	761+49	768+00		X	651	T-CONC	1.5	9.5	290	77	688	135	
S.R. 8	768+00	769+50		X	150	T-CONC	2.7	10.7	67	20	179	35	
S.R. 8	769+50	778+50		X	900	T-CONC	1.5	9.5	400	106	951	186	
S.R. 8	778+50	779+50		X	100	T-CONC	4.2	12.2	45	16	136	28	
S.R. 8	779+50	799+50		X	2000	T-CONC	1.5	9.5	889	235	2112	412	
S.R. 8	815+17	816+50		X	133	T-CONC	2	8	60	14	119	25	
S.R. 8	816+50	817+50		X	100	T-CONC	4	7.5	45	10	84	18	
S.R. 8	817+50	818+50		X	100	T-CONC	5.25	9.75	45	13	109	23	
S.R. 8	818+50	819+50		X	100	T-CONC	4	7.5	45	10	84	18	
S.R. 8	819+50	820+50		X	100	T-CONC	3	11	45	14	123	25	
S.R. 8	822+13	822+50		X	37	T-CONC	5.3	9	17	5	38	9	
S.R. 8	822+50	823+00		X	50	T-CONC	4	9.25	23	6	52	11	
S.R. 8	823+00	824+21		X	121	T-CONC	3	7	54	11	95	20	
S.R. 8	824+73	825+50		X	77	T-CONC	5.3	9	35	9	78	16	
S.R. 8	825+50	826+50		X	100	T-CONC	3.5	11.5	45	15	129	27	
TOTALS									2986	827	7334	1459	

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	3
PIH	2026	STP-8(52)	3
PS&E	2026	STP-8(52)	3

RIGHT-OF-WAY

(1) ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S "POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS", THE MANUAL ON RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY, STANDARD DRAWING RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.

(2) EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.

(3) WHERE THE EXISITNG DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.

(4) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.

(5) ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.

(6) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

(7) ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PERVIDED IN THE PLANS.

UTILITIES

(1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. ABOVE GRADE AND UNDERGROUND UTILITIES SHOWN WERE TAKEN FROM VISIBLE APPURTENANCES AT THE SITE, PUBLIC RECORDS, AND/OR MAPS PREPARED BY OTHERS. THEREFORE, RELIANCE UPON THE TYPE, SIZE, AND LOCATION OF UTILITIES SHOWN SHOULD BE DONE SO WITH THIS CIRCUMSTANCE CONSIDERED. DETAILED VERIFICATION OF EXISTENCE, LOCATION, AND DEPTH SHOULD ALSO BE MADE PRIOR TO ANY DECISION RELATIVE THERETO IS MADE. AVAILABILITY AND COST OF SERVICE SHOULD BE CONFIRMED WITH THE APPROPRIATE UTILITY COMPANY. IN TENNESSEE, IT IS A REQUIREMENT, PER "THE UNDERGROUND UTILITY DAMAGE PREVENTION ACT", THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNERS, NO LESS THAN THREE (3) OR NOT MORE THAN TEN (10) WORKING DAYS PRIOR TO THE DATE OF THEIR INTENT TO EXCAVATE AND ALSO TO AVOID ANY POSSIBLE HAZARD OR CONFLICT. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.

(2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR ITS REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.

(3) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(4) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.

(5) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

UTILITY OWNERS

TELEPHONE:
BELLSOUTH DBA AT&T
300 E. MARTIN LUTHER KING BOULEVARD, 5TH FLOOR
CHATTANOOGA, TN 37403
CONTACT MR. JOE PERREL
PHONE: (423) 266-1566
EMAIL: jp1389@att.com

ELECTRIC:
ELECTRIC POWER BOARD OF CHATTANOOGA
P.O. BOX 182255
CHATTANOOGA, TN 37422
CONTACT MR. ADAM NORWOOD
PHONE: (423) 483-3305
EMAIL: norwoodaw@epb.net

GAS:
CHATTANOOGA GAS COMPANY
(SOUTHERN CO-ATLANTIC GAS)
10 PEACHTREE PLACE
ATLANTA, GA 30309
CONTACT MS. TAHA HAVELIWALA
PHONE: (404) 499-5694
EMAIL: X2Thavel@southernco.com

WATER, SEWER:
TENNESSEE AMERICAN WATER COMPANY
1500 RIVERSIDE DRIVE
CHATTANOOGA, TN 37406
CONTACT MR. JON SPARKMAN
PHONE: (423) 681-4206
EMAIL: sparkman.jon@amwater.com

TOWN OF SIGNAL MOUNTAIN
1111 RIDGEWAY AVENUE
SIGNAL MOUNTAIN, TN 37377
CONTACT DAN LANDRUM
DIRECTOR OF WATER DEPARTMENT
PHONE: (423) 886-2177
EMAIL: dlandrum@signalmountain.gov

CITY OF CHATTANOOGA
1250 MARKET STREET, SUITE 3050
CHATTANOOGA, TN 37402-2713
CONTACT MR. MICHAEL PATRICK
PHONE: (423) 643-6157
EMAIL: mpatrick@hailtontn.gov

HAMILTON COUNTY WWTA
1250 MARKET STREET, SUITE 3050
CHATTANOOGA, TN 37402-2713
CONTACT MR. MICHAEL PATRICK
PHONE: (423) 209-7842
EMAIL: mpatrick@hailtontn.gov

CABLE:
COMCAST (XFINITY)
2030 EAST POLYMER DRIVE
CHATTANOOGA, TN 37421
CONTACT MR. TIM GREGORY
PHONE: (706) 252-4185
EMAIL: tim_gregory@comcast.com

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY
NOTES,
UTILITY NOTES
AND
UTILITY OWNERS

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R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (ACRES)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE		LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAIN	SLOPE	CONSTRUCTION	AIR RIGHTS
				BOOK	PAGE												
1	TENNESSEE 1 PROPERTIES,	117G/B	29	GI 13370	100		3.305	3.305		0.250	0.250		3.055				
	A TENNESSEE LIMITED LIABILITY COMPANY																
2	TENNESSEE 1 PROPERTIES,	117G/B	30	GI 13370	100		0.345	0.345		0.120	0.120		0.225				
	A TENNESSEE LIMITED LIABILITY COMPANY																
3	VICTOR GLENN WHITE	117G/B	31	7061	143		1.360	1.360		3622 S.F.	3622 S.F.		1.277				
~~4~~	~~CITY OF CHATTANOOGA~~	~~117~~	~~4.01~~	~~2253~~	~~805~~	~~6.181~~		~~6.181~~				~~6.181~~					
5	SIGNAL MOUNTAIN CEMENT HOURLY EMPLOYEES	117G/B	32	3815	421		0.480	0.480		2136 S.F.	2136 S.F.		0.431				
	REAL ESTATE TRUST, INC																
6	MICHAEL R. HARRISON & NANCY E. HARRISON	117G/B	33	10605	810		0.232	0.232					0.232			1057 S.F.	
7	BROWN HOME SOLUTIONS, LLC	117G/A	30	13210	137		1.227	1.227					1.227	2056 S.F.		1003 S.F.	
8	BUZZI UNICEM USA, INC.	117G/A	31	6237	944		0.555	0.555		444 S.F.	444 S.F.		0.545			2101 S.F.	
9	BUZZI UNICEM USA, INC.	117G/A	32	4758	531		0.505	0.505		2034 S.F.	2034 S.F.		0.458			1352 S.F.	
10	LITTLE COMPANY OF TENNESSEE, LLC	117	2	9978	170		19.013	19.013		0.619	0.619		18.394			0.180	
11	TOWN OF SIGNAL MOUNTAIN, INC	117	5	1462	686	2.547		2.547	1513 S.F.		1513 S.F.	2.512					
~~12~~	~~SIGNAL MOUNTAIN CEMENT COMPANY~~	~~117~~	~~6~~	~~6237~~	~~944~~	~~1.275~~		~~1.275~~				~~1.275~~					
~~13~~	~~TOWN OF SIGNAL MOUNTAIN, INC~~	~~NONE~~	~~NONE~~	~~960~~	~~653~~		~~0.830~~	~~0.830~~					~~0.830~~				
14	LITTLE COMPANY OF TENNESSEE, LLC	117	2	9978	170		1.582	1.582		0.164	0.164		1.418				
15	BUZZI UNICEM USA, INC.	117	4	6237	944	231.711		231.711	0.349		0.349	231.362					
16	BUZZI UNICEM USA, INC.	117	4.02	6237	944		36.053	36.053		3.258	3.258		32.795		0.154	1.229	
~~17~~	~~STEVEN L. COULTER & BEVERLY H. COULTER~~	~~116~~	~~26.01~~	~~9951~~	~~760~~	~~13.167~~		~~13.167~~				~~13.167~~					
18	STEVEN H. ROBERTS	116E/A	31	6364	121	2.181		2.181	615 S.F.		615 S.F.	2.167		459 S.F.		3140 S.F.	
19	KYLE G. EDWARDS & MICHAEL W. TREAS	116E/A	4	9883	771	0.620		0.620				0.620				1151 S.F.	
~~20~~	~~QUEST HOLDINGS, LLC~~	~~116E/A~~	~~33~~	~~8823~~	~~580~~	~~0.398~~		~~0.398~~				~~0.398~~					
21	STATE OF TENNESSEE	116E/A	2.01	9973	539	0.193		0.193	1708 S.F.		1708 S.F.	0.154					
22	DAVID C. BASIL	116E/A	1.01	6751	965	0.325		0.325	1051 S.F.		1051 S.F.	0.301					
		116E/A	1	6751	965	0.270		0.270	1704 S.F.		1704 S.F.	0.231					
~~24~~	~~CHARLES R. BORIN & PRICILLA S. BORIN~~	~~117H/C~~	~~14~~	~~2436~~	~~111~~		~~1.024~~	~~1.024~~					~~1.024~~				
~~25~~	~~DENNIS C. WOODEN & MARSHA L. WOOD-WOODEN~~	~~117H/B~~	~~15.01~~	~~4298~~	~~570~~		~~0.670~~	~~0.670~~					~~0.670~~				
~~26~~	~~CHERIE GILLIAM~~	~~117H/B~~	~~14~~	~~9971~~	~~128~~		~~0.552~~	~~0.552~~					~~0.552~~				
~~27~~	~~LAURA S. STEPHENS & DOUGLAS E. STEPHENS~~	~~117H/B~~	~~13~~	~~4335~~	~~848~~		~~1.129~~	~~1.129~~					~~1.129~~				
~~28~~	~~NUMBER NOT USED~~																
~~29~~	~~NUMBER NOT USED~~																
~~30~~	~~MICHAEL D. RICH & MOLLY M. RICH~~	~~117H/B~~	~~11~~	~~4253~~	~~537~~		~~0.767~~	~~0.767~~					~~0.767~~				
31	THOMAS H. JONES, JR.	116E/C	5.01	13230	111		6.936	6.936					6.936			2745 S.F.	
~~32~~	~~FISHER E. WISE~~	~~116E/A~~	~~5~~	~~11668~~	~~305~~	~~0.345~~		~~0.345~~				~~0.345~~					
33	FISHER E. WISE	116E/A	6	11668	305	0.566		0.566	582 S.F.		582 S.F.	0.553		935 S.F.		1986 S.F.	
34	CISCILY BLYTHE STEWART & SPOUSE,	116E/A	7	13274	190	1.052		1.052	2660 S.F.		2660 S.F.	0.991				1667 S.F.	
	TROY SANDFORD STEWART																
35	THOMAS H. JONES, JR.	116E/C	6.02	4797	374		1.744	1.744		0.156	0.156		1.588			0.147	
~~36~~	~~RICHARD M. COWART & JULIE F. COWART~~	~~116E/A~~	~~8~~	~~5478~~	~~718~~	~~1.080~~		~~1.080~~				~~1.080~~					
~~37~~	~~ANGELO MS MARQUES & DIANNE E. TASKER~~	~~116E/A~~	~~9~~	~~10545~~	~~144~~	~~1.355~~		~~1.355~~				~~1.355~~					
38	MATTHEW WARREN & DANIELLE WARREN	116E/C	7	9382	267		1.096	1.096		1408 S.F.	1408 S.F.		1.064			1086 S.F.	
~~39~~	~~JOHN E. ATCHLEY, JR.~~	~~116E/A~~	~~10~~	~~4144~~	~~315~~	~~0.460~~		~~0.460~~				~~0.460~~					
40	GREGORY M. DUBOIS	116E/C	6.01	7222	389		0.310	0.310		388 S.F.	388 S.F.		0.301				
41	JONATHAN POPE AND WIFE, JESSICA POPE	116E/C	6.03	10043	193		0.248	0.248		2086 S.F.	2086 S.F.		0.200				
ACQUISITION TOTALS (ACRES)									**5.420**					**3450 S.F.**	**0.154**	**1.954**	

① FOR CONSTRUCTION WORKING ROOM AND INSTALLATION AND MAINTENANCE OF EPSC DEVICES.

REV. 8-15-25: REMOVED PROPOSED ROW FROM TRACT 13 AND LINED OUT TRACT 13. REMOVED PROP. ROW FROM TRACT 6 AND ADD TCE TO TRACT 6. REVISED AREA TO BE ACQUIRED ON TRACT 22.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	3A
PIH	2026	STP-8(52)	3A
PS&E	2026	STP-8(52)	3A

REV. 12-10-21: CHANGED CONSTRUCTION EASEMENT AREA FOR TRACT NO. 10. CHANGED AREA TO BE ACQUIRED AND CONSTRUCTION EASEMENT AREA FOR TRACT NO. 16. UPDATED EXISTING AREA FOR TRACT NO. 21 TO 0.193 AC.

REV. 3-8-22: UPDATED EXISTING AREA FOR TRACTS 32 & 33. CHANGED CONSTRUCTION EASEMENT FOR TRACT 38. ADDED ACQUISITIONS FOR TRACTS 18, 19, 33 & 34.

REV. 8-9-23: MODIFIED TEMPORARY CONSTRUCTION EASEMENT TRACT NO.38.

REV. 9-21-23: UPDATED AREA FOR TRACT NO. 35.

REV. 3-19-24: REVISED PROPERTY OWNER AND DEED INFORMATION FOR TRACTS 1, 2, AND 34. UPDATED DEED INFORMATION FOR TRACT 35. ADDED CONSTRUCTION EASEMENT TRACT 41. UPDATED PROPERTY OWNERS FOR TRACTS NO. 8, 9, 15 &16. CORRECTED CONSTRUCTION EASEMENT FOR TRACT 38.

REV. 11-22-24: COMBINED TRACT 22 & 23. ELIMINATED TRACT 23. ADDED PROP. ROW TRACT 21 & 22. ADDED PERM. DRAINAGE EASEMENT TRACT 7. REVISED PROP. ROW TRACT 7 & 23. ADDED NOTE FOR TCE USE. REVISED TRACT 21 & 40 PROPERTY OWNERS. REVISED AREAS FOR TRACT 34 & 35. REMOVED CONST EASEMENT FROM TRACT 41 & 45.

REV. 1-21-25: REVISED TRACT 7, 19, AND 35 INFO.

REV. 2-12-25: REVISED TRACT 31 OWNER AND DEED INFO. REVISED PREVIOUS REVISION NOTE DATE.

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

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R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (ACRES)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE		LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAIN	SLOPE	CONSTRUCTION ①	AIR RIGHTS
				BOOK	PAGE												
~~42~~	~~STEVEN P. HIXON~~	~~116E/A~~	~~11.02~~	~~7391~~	~~132~~	~~0.279~~		~~0.279~~				~~0.279~~					
~~43~~	~~JAMES C. JOHNSON & CYNTHIA G. JOHNSON~~	~~116E/A~~	~~11.01~~	~~9477~~	~~656~~	~~0.227~~		~~0.227~~				~~0.227~~					
~~44~~	~~JAMES C. CAWTHORNE~~	~~116E/A~~	~~11~~	~~9503~~	~~400~~	~~0.524~~		~~0.524~~				~~0.524~~					
45	YI ZHANG	116E/C	6.04	11111	869		0.293	0.293		115 S.F.	115 S.F.		0.290				
				11066	565												
46	OSCAR ZENDEJAS & JOHN PARSHALL	116E/C	6.05	11305	96		0.322	0.322		695 S.F.	695 S.F.		0.306				
~~47~~	~~KASAY COMBS~~	~~116E/A~~	~~14~~	~~10270~~	~~235~~	~~0.412~~		~~0.412~~				~~0.412~~					
~~48~~	~~TRAVIS HORTON, RANCE HORTON, JIM HORTON, ANDY LEE,~~	~~116E/A~~	~~16.01~~	~~10165~~	~~569~~	~~0.322~~		~~0.322~~				~~0.322~~					
	DAVID LEE, JAMES D. HUTCHERSON AND																
	TRIPLE H. INVESTMENTS, G.P.																
49	THOMAS H. JONES, JR.	116E/C	6.06	9481	756		0.622	0.622		1780 S.F.	1780 S.F.		0.581				
~~50~~	~~SALLY L. REEVE~~	~~116E/A~~	~~17~~	~~3423~~	~~515~~	~~0.941~~		~~0.941~~				~~0.941~~					
~~51~~	~~SALLY L. REEVE~~	~~116E/A~~	~~18~~	~~4786~~	~~146~~	~~1.203~~		~~1.203~~				~~1.203~~					
~~52~~	~~PETER HENCHEY~~	~~116E/A~~	~~19~~	~~12552~~	~~319~~	~~1.132~~		~~1.132~~				~~1.132~~					
53	PETER HENCHEY	116E/A	20	12552	319	1.548		1.548	1232 S.F.		1232 S.F.	1.520				430 S.F.	
~~54~~	~~SUZANNE D. CLINTON & RICHARD F. CLINTON~~	~~116~~	~~21.04~~	~~7437~~	~~931~~	~~38.862~~		~~38.862~~				~~38.862~~					
55	TOWN OF SIGNAL MOUNTAIN	107	5	3055	611	128.600		128.600	1600 S.F.		1600 S.F.	128.563				233 S.F.	
55-S	TOWN OF SIGNAL MOUNTAIN	107	5	3055	611	128.563		128.563	0.308		0.308	128.255					
56	THOMAS H. JONES, JR.	116E/C	6	4797	374		15.681	15.681		0.488	0.488		15.193		0.386	0.260	
~~57~~	~~JOYCE J. SMITH~~	~~116D/C~~	~~22~~	~~6093~~	~~947~~		~~0.980~~	~~0.980~~					~~0.980~~				
~~58~~	~~LYNDA K. GRIFFIN, TRUSTEE OF THE~~	~~116D/C~~	~~21~~	~~9474~~	~~130~~		~~1.290~~	~~1.290~~					~~1.290~~				
	~~LYNDA K. GRIFFIN REVOCABLE TRUST~~																
~~59~~	~~DAVID W. D. MALEY AND WIFE, BROOKE E. MALEY~~	~~116D/C~~	~~20~~	~~11311~~	~~445~~		~~1.255~~	~~1.255~~					~~1.255~~				
~~60~~	~~THOMAS H. JONES, JR.~~	~~116D/C~~	~~15~~	~~10661~~	~~630~~		~~0.756~~	~~0.756~~					~~0.756~~				
~~61~~	~~CHARLES M. STAFFORD AND LINDA STAFFORD~~	~~116D/C~~	~~14~~	~~9274~~	~~686~~		~~0.854~~	~~0.854~~					~~0.854~~				
~~62~~	~~WILLIAM GARDNER AND MICHELLE M. GARDNER~~	~~116D/C~~	~~13~~	~~10524~~	~~337~~		~~1.337~~	~~1.337~~					~~1.337~~				
~~63~~	~~M. SCOTT FERGUSON AND WIFE, MARGARET F. FERGUSON~~	~~116D/C~~	~~12~~	~~9192~~	~~728~~		~~1.621~~	~~1.621~~					~~1.621~~				
~~64~~	~~THOMAS F. LUTHRINGER~~	~~116D/C~~	~~5~~	~~11060~~	~~605~~		~~2.490~~	~~2.490~~					~~2.490~~				
~~65~~	~~ROBERT R. RIESE & JENNIFER PAIGE RIESE~~	~~116D/C~~	~~4~~	~~10706~~	~~430~~		~~1.209~~	~~1.209~~					~~1.209~~				
~~66~~	~~WILLIAM CARL STEELE, III & HARRIET SUSAN STEELE~~	~~116D/C~~	~~3~~	~~4413~~	~~592~~		~~1.095~~	~~1.095~~					~~1.095~~				
~~67~~	~~JUDITH G. ZWICKNAGEL & PAUL J. ZWICKNAGEL~~	~~116D/C~~	~~2~~	~~10235~~	~~262~~		~~1.360~~	~~1.360~~					~~1.360~~			~~150 S.F.~~	
~~68~~	~~DAVID O. EASON & MARCIA J. EASON~~	~~107M/C~~	~~36~~	~~9876~~	~~026~~		~~2.841~~	~~2.841~~					~~2.841~~				
		~~107M/C~~	~~35~~														
69	TOWN OF SIGNAL MOUNTAIN, TENNESSEE	107M/B	2	4622	129		4.100	4.100		708 S.F.	708 S.F.		4.084				
~~70~~	~~THE TOWN OF SIGNAL MOUNTAIN, TENNESSEE~~	~~107M/A~~	~~16~~	~~5866~~	~~667~~	~~0.940~~		~~0.940~~				~~0.940~~					
~~71~~	~~ELECTRIC POWER BOARD~~	~~107M/A~~	~~16.01~~	~~5302~~	~~929~~	~~1.299~~		~~1.299~~				~~1.299~~					
~~72~~	~~THE TOWN OF SIGNAL MOUNTAIN, TENNESSEE~~	~~107M/A~~	~~16~~	~~5866~~	~~667~~	~~5.554~~		~~5.554~~				~~5.554~~					
~~73~~	~~THE TOWN OF SIGNAL MOUNTAIN, TENNESSEE~~	~~107M/A~~	~~19~~	~~5866~~	~~665~~	~~3.966~~		~~3.966~~				~~3.966~~					
~~74~~	~~ST. TIMOTHY'S EPISCOPAL CHURCH OF SIGNAL MOUNTAIN~~	~~107L/K~~	~~1~~	~~5126~~	~~753~~	~~1.604~~		~~1.604~~				~~1.604~~					
~~75~~	~~ST. TIMOTHY'S EPISCOPAL CHURCH OF SIGNAL MOUNTAIN~~	~~107L/K~~	~~3~~	~~1182~~	~~592~~	~~7.839~~		~~7.839~~				~~7.839~~					
~~76~~	~~TOWN OF SIGNAL MOUNTAIN~~	~~107L/K~~	~~9~~	~~1198~~	~~488~~	~~5.277~~		~~5.277~~				~~5.277~~					
77	TOWN OF SIGNAL MOUNTAIN	107M/B	3	G27	158		10.277	10.277		327 S.F.	327 S.F.		10.269				
ACQUISITION TOTALS (ACRES)									**0.945**						**0.386**	**0.279**	

① FOR CONSTRUCTION WORKING ROOM AND INSTALLATION AND MAINTENANCE OF EPSC DEVICES.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	3B
PIH	2026	STP-8(52)	3B
PS&E	2026	STP-8(52)	3B

REV. 12-10-21: CHANGED DRAINAGE AND CONSTRUCTION EASEMENTS FOR TRACT NO. 44. CHANGED CONSTRUCTION EASEMENT FOR TRACT NO. 47. CHANGE AREA TO BE ACQUIRED FOR TRACT NO. 55.

REV. 3-8-22: ADDED ACQUISITIONS FOR TRACT 53. REMOVED ACQUISITIONS FOR TRACTS 44 & 47.

REV. 9-21-23: MODIFIED ACQUISITION FOR TRACT NO.'S 55 AND 56. UPDATED RECORDS AND AREA FOR TRACT NO. 56. REPLACED TRACT NO. 54 WITH TRACT NO. 88.

REV. 3-19-24: REVISED PROPERTY OWNER AND DEED INFORMATION FOR TRACTS 52 & 53. ADDED CONSTRUCTION EASEMENT TRACT 45.

REV. 11-22-24: REVISED CONST EASEMENT ON TRACT 53. REVISED AREAS FOR TRACT NO. 55, 56, 69, AND 77. REMOVED CONST EASEMENT FROM TRACT 45. REMOVED DUPLICATE OF TRACT 72 THRU TRACT 77 ENTRIES. ADDED NOTE FOR TCE USE.

REV 1-21-25: REVISED TRACT 45 AND 53 INFO. LINED OUT TRACT 62.

REV. 2-12-25: REVISED PREVIOUS REVISION NOTE DATE.

REV. 5-26-26: ADDED TRACT 55-S.

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

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R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (ACRES)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE		LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAIN	SLOPE	CONSTRUCTION	AIR RIGHTS
				BOOK	PAGE												
~~78~~	~~DIANE CROXALL~~	~~107L/K~~	~~8~~	~~11176~~	~~679~~	~~3.135~~		~~3.135~~				~~3.135~~					
	DENNIS E. WOLFGANG & MARTHA A. WOLFGANG			6952	289												
	JOSEPH LESLIE MILBURN & DAVID MALCOLM MILBURN,			10728	286												
	CO-TRUSTEES OF THE MILBURN JOINT REVOCABLE TENNESSE																
	COMMUNITY PROPERTY TRUST DATED APRIL 22, 2016																
	EUGENE L. JONES & PATRICIA L. K. CARROLL			7163	743												
	CAROL B. SIMMONS			6228	756												
	GARY P. WESTCOTT, CAROL J. WESTCOTT & GARY W. WESTC			9978	371												
	JIMMIE L. COLLINS & DEBBIE H. COLLINS			9017	206												
	TIMOTHY C. FOSTER & HEATHER L. FOSTER			10051	371												
	JULIE G. MASON			10994	632												
	STEPHANIE J. STAKEL			10332	470												
	LYNN W. COOPER			5942	506												
	OLIVIA S. NEALL			4439	8												
	NEIL A. PANZIER & GERALD M. CARNLEY			9099	335												
	DON W. CLOSE & DONNA A. CLOSE			8704	451												
	JAMES BERNARD HINES, II, TRUSTEE OF THE REVOCABLE TRU			9733	702												
	OF JAMES BERNARD HINES, II DATED AUGUST 22, 2012																
	SUSAN GUNNELL COLLINS			6976	826												
	CAROL WOODS			2674	757												
	KATHERINE LENORE KESSLER			10556	215												
	VICKI B. ANDERSON			9919	324												
	SARAH LOCKE STEWART			11469	322												
	EDWARD R. KELLY & PEGGY W. KELLY			9493	838												
	CHAPIN B. MILLER, II & SUSAN H. MILLER			9828	919												
	MARY H. BROWN			10224	54												
	JUDITH E. FREER			10293	424												
~~79~~	~~BENJAMIN F. NOWLIN, JR. & JUDY H. NOWLIN~~	~~107M/B~~	~~4~~	~~2514~~	~~27~~		~~0.944~~	~~0.944~~					~~0.944~~				
~~80~~	~~CHARLES CLEMONS & EDNA R. CLEMONS~~	~~107M/B~~	~~5~~	~~2137~~	~~624~~		~~1.501~~	~~1.501~~					~~1.501~~				
~~81~~	~~TOWN OF SIGNAL MOUNTAIN, TENNESSEE~~	~~107M/B~~	~~8~~	~~7706~~	~~431~~		~~0.906~~	~~0.906~~					~~0.906~~				
~~82~~	~~CSMTN LLC~~	~~107M/B~~	~~7~~	~~10487~~	~~318~~		~~1.848~~	~~1.848~~					~~1.848~~				
~~83~~	~~THE TOWN OF SIGNAL MOUNTAIN~~	~~107L/J~~	~~10~~	~~3504~~	~~52~~	~~0.269~~		~~0.269~~				~~0.269~~					
~~84~~	~~PRISCILLA LYNNE FINNELL~~	~~116E/A~~	~~13~~	~~4622~~	~~73~~	~~0.388~~		~~0.388~~				~~0.388~~					
~~85~~	~~JASON R. PAINTER~~	~~116E/A~~	~~14~~	~~12497~~	~~442~~	~~0.445~~		~~0.445~~				~~0.445~~					
~~86~~	~~MARY NELL MOORE~~	~~116E/A~~	~~25~~	~~9231~~	~~924~~	~~0.495~~		~~0.495~~				~~0.495~~					
~~87~~	~~DEBORAH P. MYNATT, TRUSTEE~~	~~116E/A~~	~~24~~	~~9973~~	~~539~~	~~1.843~~		~~1.843~~				~~1.843~~					
88	TENNESSEE RIVER GORGE TRUST INC	116	21.04	12645	343	47.668		47.668	1850 S.F.		1850 S.F.	47.626					
88-S	TENNESSEE RIVER GORGE TRUST INC	116	21.04	12645	343	47.626		47.626	629 S.F.		629 S.F.	47.612					
ACQUISITION TOTALS (ACRES)									**2479 S.F.**								

① FOR CONSTRUCTION WORKING ROOM AND INSTALLATION AND MAINTENANCE OF EPSC DEVICES.

DISTURBED AREA

IN BETWEEN SLOPE LINES	4.040	(AC)
15 FOOT WIDE STRIP (OUT SIDE SLOPE LINES)	5.550	(AC)
TOTAL DISTURBED AREA	9.590	(AC)
TOTAL PROJECT AREA	30.618	(AC)

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	3C
PIH	2026	STP-8(52)	3C
PS&E	2026	STP-8(52)	3C

REV. 12-10-21: CHANGED DRAINAGE AND CONSTRUCTION EASEMENTS FOR TRACT NO.'S 84, 86 AND 87. CHANGED DRAINAGE EASEMENT AND ADDED CONSTRUCTION EASEMENT FOR TRACT NO. 85.

REV. 3-8-22: REMOVED ACQUISITIONS FOR TRACTS 84, 85, 86 & 87.

REV. 9-21-23: ADDED TRACT NO. 88.

REV. 11-22-24: ADDED NOTE FOR TCE USE.

REV. 5-26-26: ADDED TRACT 88-S.

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

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33021-3231-14
BEGIN PROJ. NO. STP-8(52) CONST.
STA. 738+00.00
N 281240.8470
E 2168167.9153

33021-2231-14
BEGIN PROJ. NO. STP-8(52) R.O.W.
STA. 738+32.66 S.R.8
N 281268.4772
E 2168150.5235

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	3D
PIH	2026	STP-8(52)	3D
PS&E	2026	STP-8(52)	3D

REV. 11-22-24: REMOVED PROP. ROW FROM TRACT 7. ADDED PERMANENT DRAINAGE EASEMENT TO TRACT 7.

N

S.R. 27 (SUCK CREEK RD.)

PRES. R.O.W.

STA. 736+94.20 S.R. 8 =
STA. 10+00.00 S.R. 27
N 281158.4263
E 2168234.2145

WEEKS ST.

PROP. R.O.W.

740 745 750 755 760 765

(SEE INSET "A" BELOW)

S.R. 8 (SIGNAL MOUNTAIN RD.)

15' CONST. ESMT.

MATCH LINE STA. 770+00 SEE SHT. NO. 3E

GLENDALE DR.

PROP. DRAIN ESMT.

PROP. CONST. ESMT.

STA. 745+31.69 S.R. 8 =
STA. 20+00.00 GLENDALE DR.
N 281859.1258
E 2167873.4731

INSET "A"
SCALE: 1" = 800'

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

COORDINATES ARE NAD 83(2001), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 735+50 TO STA. 770+00
SCALE: 1"=100'

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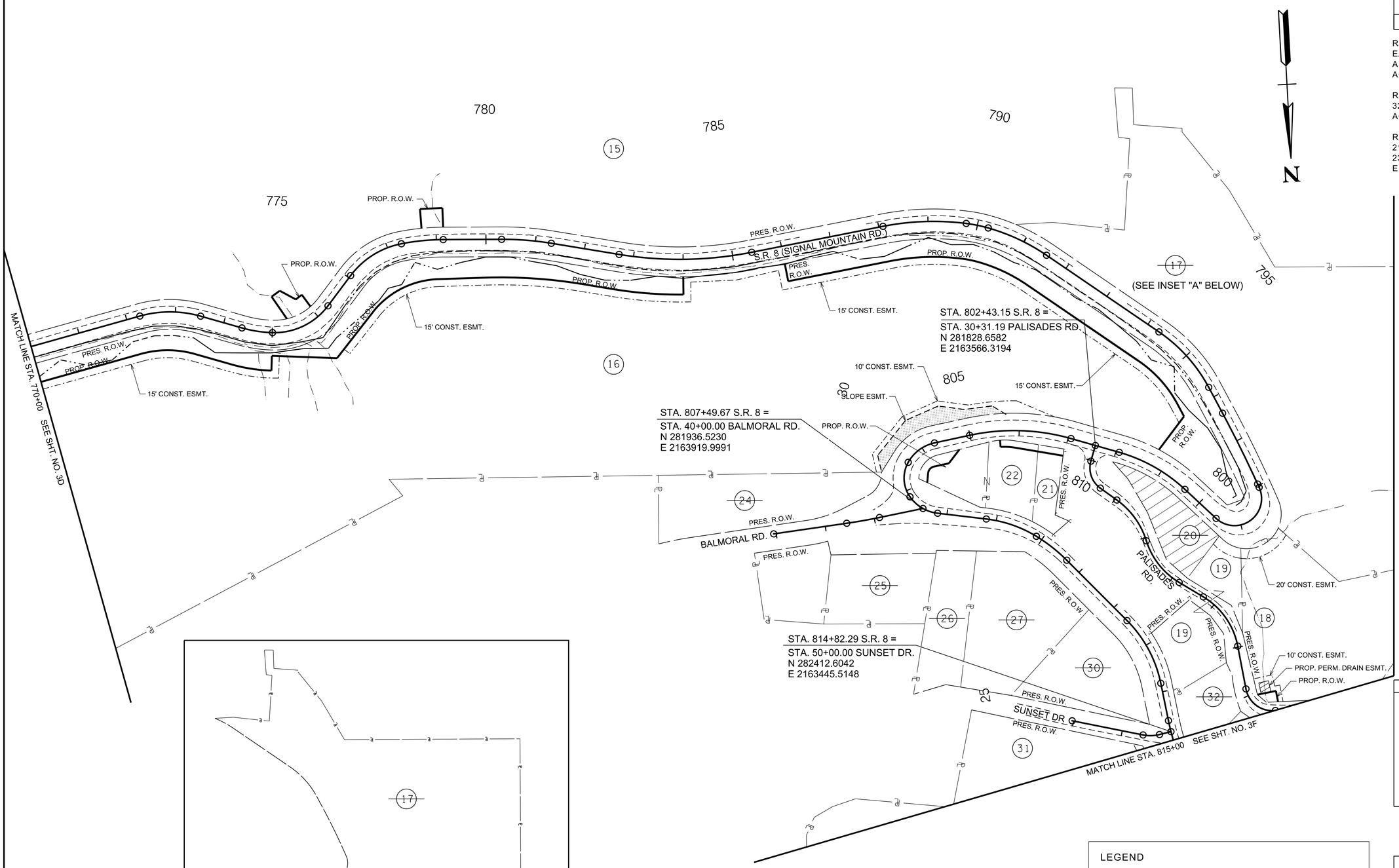
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	3E
PIH	2026	STP-8(52)	3E
PS&E	2026	STP-8(52)	3E

REV. 12-10-21: ADDED CONSTRUCTION EASEMENT TO TRACT 16 AT STA. 785+00 AND 792+00 AND ADDED R.O.W. ACQUISITION AT STA. 792.00.

REV. 3-8-22: MODIFIED EXISTING TRACT 32. ADDED VARIOUS R.O.W. ACQUISITIONS TO TRACTS 18 & 19.

REV. 11-22-24: ADD PROP. ROW TO TRACT 21 & 22. REVISED PROP. ROW FOR TRACT 23. COMBINED TRACTS 22 & 23. ELIMINATED TRACT 23.



INSET "A"
SCALE: 1" = 200'

LEGEND

HISTORIC PROPERTY (NATIONAL REGISTER BOUNDARY)

NOTE:
NO TEMPORARY OR PERMANENT RIGHT-OF-WAY OR EASEMENTS WILL BE TAKEN FROM THE HISTORIC PROPERTY.

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COORDINATES ARE NAD 83(2001), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 770+00 STA.815+00
SCALE: 1"=100'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	3F
PIH	2026	STP-8(52)	3F
PS&E	2026	STP-8(52)	3F

REV. 12-10-21: MODIFIED TRACT NO.'S 44, 47, 84, 85 86 AND 87. UPDATED ASSOCIATED ACQUISITIONS WITH MODIFIED TRACTS.

REV. 3-8-22: MODIFIED EXISTING TRACTS 32 & 33. ADDED VARIOUS R.O.W. ACQUISITIONS TO TRACTS 18, 33, 34, 38 & 53. REMOVED R.O.W. ACQUISITIONS FROM TRACTS 44, 47, 84, 85, 86 & 87.

REV. 8-9-23: MODIFIED TEMPORARY CONSTRUCTION EASEMENT TRACT NO. 38.

REV. 9-21-23: REPLACED TRACT NO. 54 WITH TRACT NO. 88. MODIFIED TRACT NO. 55. MODIFIED HAMILTON COUNTY/SIGNAL MOUNTAIN CITY LIMIT BOUNDARY.

REV. 3-19-24: CHANGED A PORTION OF TRACT 35 TO TRACT 56. ADDED PROPERTY LINE BETWEEN TRACTS 35 & 56.

REV. 11-22-24: REVISED TEMP. CONSTRUCTION EASEMENTS ON TRACT 53. REMOVED TEMP. CONSTRUCTION EASEMENTS ON TRACT 41 AND TRACT 45.

REV. 5-26-26: ADDED TRACT 55-S AND TRACT 88-S.

N

(SEE INSET "B" BELOW)

(SEE INSET "A" BELOW)

MATCH LINE STA. 815+00 SEE SHT. NO. 3E

MATCH LINE STA. 842+00 SEE SHT. NO. 3G

POT 90+00.00
N 282677.8340
E 2162811.1694

POT 97+71.33

POT 22+62.93
N 282371.1382
E 2163162.7524

PALISADES RD.

S.R. 8 (SIGNAL MOUNTAIN RD.)

CHATTANOOGA CITY LIMIT

SIGNAL MOUNTAIN CITY LIMIT

HAMILTON COUNTY

HAMILTON COUNTY SIGNAL MOUNTAIN CITY LIMIT

PROP. R.O.W.

PROP. PERM. DRAIN ESMT.

10' CONST. ESMT.

PRES. R.O.W.

15' CONST. ESMT.

820 825 830 835 840

INSET "A"
SCALE: 1" = 200'

INSET "B"
SCALE: 1" = 800'

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AGRICULTURE
COMMERCE
STATE OF TENNESSEE
6/29/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 815+00 TO STA. 842+00
SCALE: 1"=100'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	3G
PIH	2026	STP-8(52)	3G
PS&E	2026	STP-8(52)	3G

REV. 9-21-23: MODIFIED TRACT NO. 55.
MODIFIED HAMILTON COUNTY/SIGNAL MOUNTAIN CITY LIMIT BOUNDARY.
ADDED 10' CONST ESMT. TO TRACT NO. 56.

REV. 1-21-25: REMOVED TCE FROM TRACT 62. LINED OUT TRACT 62.

REV. 5-26-26: ADDED TRACT 55-S.

N

STA. 858+60.84 S.R. 8 =
STA. 60+00.00 SHOAL CREEK RD.
N 285872.9206
E 2161639.6807

(SEE INSET "A" BELOW)

55

55S

PROP. R.O.W.

PRES. R.O.W.

S.R. 8 (SIGNAL MOUNTAIN RD.)

PRES. R.O.W.

10' CONST. ESMT.

15' CONST. ESMT.

SLOPE ESMT.

SHOAL CREEK

PROP. R.O.W.

PRES. R.O.W.

SHOAL CREEK RD.

PRES. R.O.W.

PROP. R.O.W.

15' CONST. ESMT.

SLOPE ESMT.

PRES. R.O.W.

PRES. R.O.W.

PRES. R.O.W.

PRES. R.O.W.

MATCH LINE STA. 842+00 SEE SHT. NO. 3F

MATCH LINE STA. 872+00 SEE SHT. NO. 3H

845 850 855 860 865 870

55 56 61 62 63 64 65 66 67 68 69 70 71 72 73

INSET "A"
SCALE: 1" = 800'

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STATE OF TENNESSEE

6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 842+00 TO STA. 872+00
SCALE: 1"=100'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	3H
PIH	2026	STP-8(52)	3H
PS&E	2026	STP-8(52)	3H

33021-2231-14
END PROJ. NO. STP-8(52) R.O.W.
STA. 888+76.70 S.R.8
N 287420.5907
E 2164068.0222

33021-3231-14
END PROJ. NO. STP-8(52) CONST.
STA. 891+00.00
N 287555.4249
E 2164245.7213

STA. 898+30.59 S.R. 8 =
STA. 90+00.00 MISSISSIPPI AVE.
N 287815.6644
E 2164926.4625

STA. 895+14.97 S.R. 8 =
STA. 70+00.00 SIGNAL MOUNTAIN BLVD.
N 287708.3305
E 2164629.9636

STA. 898+23.78 S.R. 8 =
STA. 80+00.00 PALISADES DR.
N 287812.8148
E 2164920.2652

MATCH LINE STA. 872+00 SEE SHT. NO. 3G

SHOAL CREEK RD.

S.R. 8 (SIGNAL MOUNTAIN RD.)

SIGNAL MOUNTAIN BLVD.

MISSISSIPPI AVE.

CARLIN ST.

PALISADES DR.

PRES. R.O.W.

PROP. R.O.W.

(SEE INSET "A" BELOW)

INSET "A"
SCALE: 1" = 400'

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 872+00 TO STA. 898+50
SCALE: 1"=100'

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33021-3231-14
BEGIN PROJ. NO. STP-8(52) CONST.
STA. 738+00.00
N 281240.8470
E 2168167.9153

33021-2231-14
BEGIN PROJ. NO. STP-8(52) R.O.W.
STA. 738+32.66 S.R.8
N 281268.4772
E 2168150.5235

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	4
PIH	2026	STP-8(52)	4
PS&E	2026	STP-8(52)	4

REV. 9-21-23: UPDATED SURVEY FOR TRACT NO. 1 AND TRACT NO. 6. ADDED PROPOSED PVT DRIVE FOR TRACT NO. 2 AT STA. 742+00.00.

REV. 3-19-24: REVISED PROPERTY OWNER NAMES FOR TRACTS 1, 2, 8 & 9.

REV. 4-5-24: ADDED BUILDING AND FENCE TO TRACT 1.

REV. 11-22-24: REMOVED PROP. ROW FROM TRACT 7. ADDED PERMANENT DRAINAGE EASEMENT TO TRACT 7. ADDED PROPOSED PVT DRIVE FOR TRACT NO. 5 AT STA. 744+00.00.

REV. 1-21-25: UPDATED TRACT 7 OWNER INFORMATION. ADDED ADDITIONAL PARKING FEATURES TO TRACT 7.

REV. 8-15-25: REMOVED PROP. ROW FROM TRACT 6. ADDED CONST ESMT. TO TRACT 6. ADDED NOTE REGARDING EXISTING DITCH NEAR TRACT 6. ADDED NOTE REGARDING EXISTING SIGN ON TRACT 6. ADJUSTED SLOPE LINES AT TRACT 6.

CURVE SR8-1
PI 738+95.84
N 281,314.0915
E 2,168,106.0517
Δ 39° 04' 00" (RT)
D 16° 22' 13"
R 350.00
L 238.64
T 124.17
SE N/A
DS N/A

CURVE SR8-2
PI 741+83.02
N 281,610.9597
E 2,168,103.8064
Δ 32° 19' 00" (LT)
D 25° 27' 53"
R 225.00
L 126.91
T 65.19
SE N/A
DS N/A

CURVE SR8-3
PI 745+52.58
N 281,924.6993
E 2,167,902.0023
Δ 93° 27' 00" (LT)
D 38° 11' 50"
R 150.00
L 244.65
T 159.32
SE N/A
DS N/A

CURVE GLENDALE DR-1
PI 20+49.65
N 281,908.0131
E 2,167,882.1544
Δ 44° 57' 23" (RT)
D 47° 44' 47"
R 120.00
L 94.16
T 49.65
SE N/A
DS N/A

STA. 736+94.20 S.R. 8 =
STA. 10+00.00 S.R. 27
N 281158.4263
E 2168234.2145

STA. 745+31.69 S.R. 8 =
STA. 20+00.00 GLENDALE DR.
N 281859.1258
E 2167873.4731

MATCH LINE STA. 747+50 SEE SHT. NO. 5

TENNESSEE 1 PROPERTIES, LLC,
A LIMITIED LIABILITY COMPANY

TENNESSEE 1 PROPERTIES, LLC,
A LIMITIED LIABILITY COMPANY

CITY OF CHATTANOOGA

VICTOR GLENN WHITE

BUZZI UNICEM USA, INC.

BUZZI UNICEM USA, INC.

BROWN HOME SOLUTIONS, LLC

MICHAEL R. HARRISON & NANCY E. HARRISON

SIGNAL MOUNTAIN CEMENT HOURLY EMPLOYEES REAL ESTATE TRUST, INC

NOTE: EXISTING DITCH BACKSLOPE SHALL BE MAINTAINED AND EXISTING CONCRETE/STONE LINING REMOVED.

NOTE: CONTRACTOR SHALL NOT DAMAGE, RELOCATE, OR REMOVE THE EXISTING SIGN DURING THE COMPLETION OF THE PROPOSED WORK ON TRACT 6.

SEALED BY
JAMES FRITZ BROGDON
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AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 735+50 TO STA. 747+50
SCALE: 1"= 50'

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33021-3231-14
BEGIN PROJ. NO. STP-8(52) CONST.
STA. 738+00.00
N 281240.8470
E 2168167.9153

33021-2231-14
BEGIN PROJ. NO. STP-8(52) R.O.W.
STA. 738+32.66 S.R.8
N 281268.4772
E 2168150.5235

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	4A
PIH	2026	STP-8(52)	4A
PS&E	2026	STP-8(52)	4A

REV. 3-19-24: REVISED PROPERTY OWNER NAMES FOR TRACTS 1, 2, 8 & 9.

REV. 11-22-24:REMOVED PROP. ROW FROM TRACT 7. ADDED PERMANENT DRAINAGE EASEMENT TO TRACT 7. ADDED PROPOSED PVT DRIVE FOR TRACT NO. 5 AT STA. 744+00.00.

REV.1-21-25: SHEET 4A: UPDATED TRACT 7 OWNER INFORMATION.

REV. 2-12-25: REVISED PHASE STAMP.

REV. 8-15-25: REMOVED PROP. ROW FROM TRACT 6. ADDED CONST ESMT. TO TRACT 6. ADJUSTED SLOPE LINES AT TRACT 6.

N

737+18.23
137.63'
N 6° 47' 28" W
6.18'
737+13.03
140.97'
S 89° 36' 3" W
110.15'
736+43.51
55.53'
S.R.27 (SUCK CREEK RD.)
N 79° 15' 18" E
N 67° 51' 38" E
N 36° 37' 0" W
46.52'
R=305.00'
L=37.97'
738+35.71
119.43'
737+72.61
118.20'
738+07.39
118.29'
N 29° 29' 0" W
42.36'
738+67.18
121.68'
738+97.23
137.32'
R=100.00'
L=44.38'
739+33.90
101.29'
740
4
CITY OF CHATTANOOGA
N 39° 30' 00" W
S.R. 8
APPROX. PRES. R.O.W.
N 6° 34' 23" E
219.41'
737+86.22
44.62'
L=40.72'C
738+32.66
42.49'
N 14° 31' 19" E
39.50'
738+68.03
68.51'
N 1° 30' 17" W
22.99'
738+95.27
76.37'
R=300.00'
L=158.10'
N 25° 11' 31" W
54.60'
739+62.49
65.50'
N 13° 7' 23" E
132.90'
740+10.37
35.85'
N 0° 26' 00" W
741+24.03
30.33'
741+31.14
63.90'
S 83° 24' 28" E
34.04'
R=192.69'
L=104.55'
742+44.73
30.00'
743+87.98
30.00'
N 32° 45' 0" W
143.25'
R=115.00'
L=179.45'
PROP. R.O.W.
CUT
741+27.74
32.38'
N 2° 13' 39" W
118.85'
741+00.76
99.31'
742+34.31
32.19'
742+73.47
33.80'
743+46.26
33.11'
744+37.32
38.34'
744+86.89
69.62'
N 32° 45' 00" W
N 32° 14' 51" W
45.95'
APPROX. PRES. R.O.W.
N 33° 17' 55" W
72.80'
S 34° 20' 55" E
101.57'
N 34° 20' 55" W
73.84'
741+20.74
90.87'
741+52.75
77.40'
R=349.00'
L=121.32'
N 27° 44' 32" W
95.51'
R=349.00'
L=40.71'
CUT
38.91'
15' CONST. ESMT.
N 83° 23' 45" W
58.83'
742+25.05
61.91'
742+56.22
64.02'
743+04.67
66.12'
743+80.64
56.58'
744+32.84
51.14'
S 11° 39' 32" W
86.66'
N 30° 16' 21" W
48.50'
N 39° 54' 17" W
37.66'
N 46° 1' 24" W
56.35'
744+25.47
48.19'
743+42.04
61.43'
N 29° 45' 22" W
10.25'
S 65° 44' 5" W
171.37'
S 65° 44' 5" W
102.33'
N 54° 8' 5" E
109.13'
GLENDALE DR.
N 55° 01' 33" E
94.94'
CONC.
CONC.
3
VICTOR GLENN WHITE
5
6
1
TENNESSEE 1 PROPERTIES, LLC, A LIMITIED LIABILITY COMPANY
2
TENNESSEE 1 PROPERTIES, LLC, A LIMITIED LIABILITY COMPANY
RAILROAD SPIKE
N 40° 11' 53" W
314.00'
STA. 736+94.20 S.R. 8 =
STA. 10+00.00 S.R. 27
N 281158.4263
E 2168234.2145

745
MATCH LINE STA. 747+50 SEE SHT. NO. 5A
STA. 745+31.69 S.R. 8 =
STA. 20+00.00 GLENDALE DR.
N 281859.1258
E 2167873.4731
S 57° 50' 30" W
239.12'
S.R. 8
S 53° 48' 0" W
155.16'
S 53° 48' 0" W
156.47'
CUT
4.88'
℄ CONC.
35.14'
746+79.00
35.00'
746+80.30
75.00'
S 38° 3' 55" E
247.21'
10
746+79.16
39.88'
S 53° 48' 0" W
42.39'
S 49° 50' 35" W
80.10'
S 83° 46' 16" E
48.69'
℄ POS
746+08.61
49.20'
746+37.92
75.00'
9
BUZZI UNICEM USA, INC.
746+20.43
40.11'
746+08.61
49.20'
S 76° 50' 13" W
34.72'
745+82.35
45.05'
10' CONST. ESMT.
S 38° 47' 32" E
279.46'
R=115.00'
L=179.45'
745+50.22
65.05'
32.87'
745+42.33
50.47'
S 81° 32' 56" W
10.09'
PROP. R.O.W.
745+50.68
64.99'
745+69.75
125.04'
8
BUZZI UNICEM USA, INC.
745+51.95
68.62'
10' CONST. ESMT.
S 38° 3' 55" E
298.08'
N 38° 3' 55" W
4.07'
18.22'
S 29° 57' 23" E
71.30'
745+73.27
144.32'
N 54° 8' 5" E
70.02'
PROP. PERM. DRAIN ESMT.
S 54° 8' 5" W
61.76'
745+43.26
66.30'
745+67.34
126.67'
745+64.23
150.91'
745+62.34
130.37'
745+13.88
107.37'
745+60.18
132.09'
745+07.89
98.32'
7
BROWN HOME SOLUTIONS, LLC
MICHAEL R. HARRISON & NANCY E. HARRISON
SIGNAL MOUNTAIN CEMENT HOURLY EMPLOYEES REAL ESTATE TRUST, INC

R.O.W. LINE	DIRECTION	DISTANCE
LINE 1	N 35° 51' 55" W	13.56'
LINE 2	N 60° 2' 37" E	4.39'
LINE 3	S 29° 57' 23" E	20.40'
LINE 4	N 60° 2' 37" E	19.11'
LINE 5	N 29° 57' 23" W	20.40'
LINE 6	S 29° 57' 23" E	63.30'
LINE 7	S 81° 32' 56" E	0.66'
LINE 8	N 56° 25' 19" E	47.53'

SEALED BY
JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 735+50 TO STA. 747+50
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	4B
PIH	2026	STP-8(52)	4B
PS&E	2026	STP-8(52)	4B

REV. 9-21-23: ADDED PROPOSED PVT DRIVE AND SIDEDRAIN FOR TRACT NO. 2 AT STA. 742+00.00.

REV. 11-22-24: ADDED PROPOSED PVT DRIVE FOR TRACT NO. 5 AT STA. 744+00.00.

REV. 8-15-25: ADDED NOTE REGARDING PROPOSED DITCH NEAR TRACT 6.

33021-3231-14
BEGIN PROJ. NO. STP-8(52) CONST.
STA. 738+00.00
N 281240.8470
E 2168167.9153

33021-2231-14
BEGIN PROJ. NO. STP-8(52) R.O.W.
STA. 738+32.66 S.R.8
N 281268.4772
E 2168150.5235

STA. 736+94.20 S.R. 8 =
STA. 10+00.00 S.R. 27
N 281158.4263
E 2168234.2145

STA. 745+31.69 S.R. 8 =
STA. 20+00.00 GLENDALE DR.
N 281859.1258
E 2167873.4731

BEGIN PROP. GUARDRAIL TIE TO EXIST. GUARDRAIL STA. 737+87.21

INV. 711.27 (A14 EW) (TIE TO EXISTING CONC. DITCH)

TIE TO EXISTING DITCH WITH 4' TRAP DITCH (SEE DITCH TYPICAL) (COST TO BE INCLUDED IN PRICE BID FOR ENDWALL)

S.R. 224 (SUCK CREEK RD.)

79' 15" RT. ℄

INV-709.44

EXIST. 35" RCP (TO REMAIN)

WTL-01

REPLACE 80' OF EXIST. GR

11' ASP.

EXIST. 76"X48" RCP (TO REMAIN)

DI TOP-709.92 INV-702.64

DIR.

LS

INV-708.93

EW

WWC-1/EPH-1

CONC. DITCH

N 67° 51' 38" E

INV-706.7

N 39° 30' 00" W

S.R. 8

END PROP. GUARDRAIL TIE TO EXIST. GUARDRAIL STA. 738+59.63

A13 #12 GT. EL. 719.64
IN. EL. 713.90 (EXIST.)
IN. EL. 712.30
OUT.EL. 712.20

EXIST. GUARDRAIL (TO REMAIN)

740

CONCRETE DITCH TYPICAL (CONNECTING A14 TO EXISTING DITCH)
NTS

745

MATCH LINE STA. 747+50 SEE SHT. NO. 5B

747+50.00 26.87'

747+00.00 29.12'

746+50.00 29.85'

S 53° 48' 00" W

S.R. 8

WWC-3/ EPH-3

746+00.00 33.76'

745+61.65 46.76'

A1 EW INV. 760.74

745+64.06 45.67'

26 LF PROP. 38"x24" HOCPC

84 LF PROP. 60"x38" HOCPC

A2 EW INV. 760.00

WWC-1/ EPH-1

A3 JB IN. EL. 757.00 (A1)
IN. EL. 756.00 (A2)
OUT. EL. 754.5

A4 JB IN. EL. 754.00
OUT. EL. 752.5

54 LF PROP. 68"x43" HOCPC

LIMIT OF PAVING 738+00.00

97 LF PROP. 76"x48" HOCPC

16 LF PROP. 76"x48" HOCPC

60 LF PROP. 76"x48" HOCPC

15° RT.

N 0° 26' 00" W

739+71.71 53.84

740+00.00 52.97'

A10 EW INV. 718.86

INV. 712.42 A12 EW

738+68.59 48.48'

739+00.00 60.00'

740+50.00 71.50'

WWC-1/ EPH-1

741+50.00 62.01'

741+88.87 49.83'

741+00.00 80.50'

INV. 713.90 A11 EW

PROP. CONC. T-DITCH

WWC-2/ EPH-2

N 32° 45' 00" W

34' ASP.

744+50.00 36.82'

SEE NOTE

46 LF PROP. 68"x43" HOCPC

EXIST. RW

WWC-1/ EPH-1

744+90.40 64.66

744+24.39 31.75'

744+91.84 66.11

INV. 751.93 A5 EW

GLENDALE DR.

N 55° 01' 33" E

INV. 730.15 A9B EW

LIMIT OF CONST.
0+64.60
STA. 742+00.00
14' ASP. RES. ENT.
34 LF PROP.
68"X 43" HOCPC
(SEE CROSS SECTION)

INV. 731.37 A9A EW

742+09.42 47.34'

742+50.00 48.50'

742+64.12 48.79'

34 LF PROP. 68"x43" HOCPC

INV. 734.30 A9 EW

742+98.04 48.88

743+83.42 39.20

INV. 737.04 A8 EW

WWC-1/ EPH-1

48 LF PROP. 68"x43" HOCPC

INV. 742.01 A7 EW

LIMIT OF CONST.
0+51.67
STA. 744+00.00
14' ASP. RES. ENT.
48 LF PROP.
68"X 43" HOCPC
(SEE CROSS SECTION)

INV. 747.15 A6 EW

NOTE: EXISTING DITCH BACKSLOPE SHALL BE MAINTAINED AND LINED WITH CONCRETE DITCH PAVING.

NOTE: THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF WTL-1 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

LEGEND

AREA TO BE COLD PLANED AND RESURFACED

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 735+50 TO STA. 747+50
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	4C
PIH	2026	STP-8(52)	4C
PS&E	2026	STP-8(52)	4C

EXC. (UNCL.) COMMON 12991 C.Y.
EMB. 3689 C.Y.
EXCESS 4583 C.Y. SHR. = 15% SW. = 15%

33021-3231-14
BEGIN PROJ. NO. STP-8(52) CONST.
STA. 738+00.00
N 281240.8470
E 2168167.9153

33021-2231-14
BEGIN PROJ. NO. STP-8(52) R.O.W.
STA. 738+32.66 S.R.8
N 281268.4772
E 2168150.5235

STA. 745+31.69 S.R. 8 (SIGNAL MOUNTAIN RD.) =
STA. 20+00 GLENDALE DR.
N 281859.1258
E 2167873.4731

OH WIRE
STA. 745+85.63
LOW WIRE EL.785.02'
TEMP. ____ DEG.
_ POWER
1 TELEPHONE
_ CABLE
_ GUY WIRE

OH WIRE
STA. 745+33.04
LOW WIRE EL.779.83'
TEMP. ____ DEG.
2 POWER
1 TELEPHONE
_ CABLE
GUY WIRE

OH WIRE
STA. 740+06.03
LOW WIRE EL.753.78'
TEMP. ____ DEG.
2 POWER
2 TELEPHONE
_ CABLE
_ GUY WIRE

OH WIRE
STA. 740+12.95
LOW WIRE EL.747.79'
TEMP. ____ DEG.
_ POWER
1 TELEPHONE
_ CABLE
_ GUY WIRE

OH WIRE
STA. 736+29.89
LOW WIRE EL.736.22'
TEMP. ____ DEG.
4 POWER
2 TELEPHONE
_ CABLE
_ GUY WIRE

OH WIRE
STA. 736+90.03
LOW WIRE EL.736.78'
TEMP. ____ DEG.
6 POWER
_ TELEPHONE
_ CABLE
1 GUY WIRE

OH WIRE
STA. 736+54.31
LOW WIRE EL.733.98'
TEMP. ____ DEG.
1 POWER
_ TELEPHONE
_ CABLE
_ GUY WIRE

60"X38" ST (TO BE REMOVED)
MH (TO BE REMOVED)
STA. 745+16.29
92.51' (RT)
TOP 760.02
INVERT 754.21
60"X38" ST (TO BE REMOVED)
A4 JB
A3 JB
PROP. 38"x24" HOCPC
PROP. 68"x43" HOCPC
MH STA. 745+40.71 51.87' (RT) TOP 761.30 INVERT 754.50
INV-748.62
MH (TO BE REMOVED)
STA. 745+44.48
59.23' (RT)
TOP 762.32
INVERT 756.61
MH
STA. 744+73.61
176.18' (RT)
TOP 756.82INVERT 743.62
MH
STA. 743+25.88
93.83' (RT)
TOP 748.01
INVERT 733.86
CB (TO REMAIN)
STA. 739+20.64
29.51' (RT)
TOP 722.47
INVERT 717.25
DI (TO REMAIN)
STA. 737+17.63
37.60' (RT)
TOP 713.44
INVERT NOT MEASURED
DI (TO REMAIN)
STA. 736+30.69
41.90' (LT)
TOP 709.92
INVERT 702.64
DI (TO BE REMOVED)
STA. 738+48.23
33.92' (RT)
TOP 719.08
INVERT 710.83
MH
STA. 737+01.02
45.75' (RT)
TOP 712.56
INVERT 703.16
MH
STA. 738+91.01
44.28' (RT)
TOP 719.99
INVERT 709.39
OUTLET NOT LOCATED
48" ST (TO BE REMOVED)
18" ST (TO REMAIN)
76"x48" ST
PROP. 76"x48" HOCPC
PROP. 68"x43" HOCPC
A13 #12
EXISTING GROUND
SPECIAL DITCH RT
12" WATER LINE STA 739+46.43
8" WATER LINE STA 744+30.10
8" WATER LINE STA 744+65.72
VPI 738+68.59 EL. 712.42
VPI 739+00.00 EL. 713.90
VPI 740+00.00 EL. 722.00
VPI 740+50.00 EL. 725.00
VPI 741+00.00 EL. 726.00
VPI 741+50.00 EL. 729.50
VPI 742+00.00 EL. 732.50
VPI 742+50.00 EL. 733.10
VPI 742+64.2 EL. 734.30
VPI 743+00.00 EL. 737.04
VPI 743+50.00 EL. 741.30
VPI 743+69.42 EL. 742.01
VPI 744+00.00 EL. 744.24.39
VPI 744+24.39 EL. 747.15
VPI 744+90.40 EL. 752.26
VPI 746+00.00 EL. 765.10
VPI 746+50.00 EL. 768.11
VPI 747+00.00 EL. 771.97
VPI 747+50.00 T
T (UG)
W (UG)
SA
2.27 %
8.20 %
1.20 %
7.00 %
2.00 %
11.70%
6.00 %
4.97 %
12.03 %
13.93 %
8.02 %
5.72 %
8.04 %

STATION	738+34.90
STRUCTURE	97' OF 76"x48" HOCPC, 16' OF 76"x48" HOCPC
SKEW	109°25'03" RT
DRAINAGE AREA	92.29 AC.
DESIGN DISCHARGE (Q050)	170.43 CFS
DESIGN DISCHARGE (Q100)	188.05 CFS
OVERTOPPING ELEV.	719.60
ALLOWABLE HEADWATER ELEV.	718.60
Q050 HEADWATER ELEV.	716.41
Q0100 HEADWATER ELEV.	716.99
VELOCITY (Q050)	12.56 FT/S
VELOCITY (Q100)	12.92 FT/S
INLET ELEVEVATION	712.42
OUTLET ELEVATION	711.27

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JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE COMMERCE & INDUSTRY
STATE OF TENNESSEE
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 735+50 TO STA. 747+50

SCALE: 1"= 50' HORIZ.
1"=5 ' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	5
PIH	2026	STP-8(52)	5
PS&E	2026	STP-8(52)	5

REV. 3-19-24: REVISED PROPERTY OWNER NAME FOR TRACT 15.

REV. 8-15-25: REMOVED PROP. ROW FROM TRACT 13. LINED THRU TRACT 13.

CURVE SR8-5
PI 750+55.45
N 281,640.0789
E 2,167,409.6924
Δ 4° 16' 34" (RT)
D 5° 43' 46"
R 1,000.00
L 74.63
T 37.33
SE N/A
DS N/A

CURVE SR8-4
PI 749+28.64
N 281,658.9025
E 2,167,538.8370
Δ 27° 54' 26" (RT)
D 15° 16' 44"
R 375.00
L 182.65
T 93.18
SE N/A
DS N/A

CURVE SR8-10
PI 760+58.49
N 281,754.2253
E 2,166,437.7726
Δ 21° 16' 48" (LT)
D 28° 38' 52"
R 200.00
L 74.28
T 37.57
SE N/A
DS N/A

CURVE SR8-6
PI 753+87.98
N 281,616.7837
E 2,167,077.9429
Δ 35° 46' 00" (RT)
D 22° 55' 06"
R 250.00
L 156.06
T 80.67
SE N/A
DS N/A

CURVE SR8-7
PI 755+81.87
N 281,721.5855
E 2,166,908.5851
Δ 43° 36' 00" (LT)
D 38° 11' 50"
R 150.00
L 114.14
T 60.00
SE N/A
DS N/A

CURVE SR8-8
PI 757+54.67
N 281,684.9013
E 2,166,733.7502
Δ 32° 09' 00" (RT)
D 22° 55' 06"
R 250.00
L 140.28
T 72.04
SE N/A
DS N/A

CURVE SR8-9
PI 759+62.35
N 281,758.2709
E 2,166,535.4065
Δ 22° 40' 22" (LT)
D 19° 05' 55"
R 300.00
L 118.71
T 60.14
SE N/A
DS N/A

TOWN OF SIGNAL MOUNTAIN, INC (11)

BUZZI UNICEM USA, INC. (15)

CITY OF CHATTANOOGA (4) ~~CITY OF CHATTANOOGA~~

~~SIGNAL MOUNTAIN CEMENT COMPANY~~ (12)

LITTLE COMPANY OF TENNESSEE, LLC (10)

TOWN OF SIGNAL MOUNTAIN, INC (13)

LITTLE COMPANY OF TENNESSEE, LLC (14)

WOODS

DISC GOLF TEE

TRAFFIC COUNTER

GRAV.

EXIST. RIP RAP

PROP. R.O.W.

WITNESS POST (UNDERGROUND TELEPHONE)

INV IN-842.89 OUTLET NOT FOUND (PLUG & ABANDON)

INV-794.47 (PLUG & ABAND.)

INV-801.05 (PLUG & ABAND.)

INV 934.00 (TO BE REMOVED)

24" CMP

APPROX. PRES. R.O.W.

~~APPROX. PRES. R.O.W.~~

PCC 750+18.12

PC 748+35.47

PT 750+92.75

C 753+07.32

PT 754+53.38

PC 755+21.88

PT 756+36.02

PC 756+82.63

PT 758+22.91

PC 759+02.20

PCC 760+20.92

CURVE SR8-4

CURVE SR8-5

CURVE SR8-6

CURVE SR8-7

CURVE SR8-8

CURVE SR8-9

CURVE SR8-10

S 53° 48' 00" W

S 85° 59' 00" W

N 58° 15' 00" W

S 78° 09' 00" W

N 68° 42' 00" W

CUT

WWC-3/EPH-3

WWC-4/EPH-4

WWC-5/EPH-5

WWC-6/EPH-6

WWC-7/EPH-7

WWC-A/EPH-A

15' CONST. ESMT.

RW (FOOTING)

S.R. 8

MATCH LINE STA. 747+50 SEE SHT. NO. 4

MATCH LINE STA. 760+50 SEE SHT. NO. 6

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.747+50 TO STA.760+50
SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	5A
PIH	2026	STP-8(52)	5A
PS&E	2026	STP-8(52)	5A

REV. 3-19-24: REVISED PROPERTY OWNER NAME FOR TRACT 15.

REV. 8-15-25: REMOVED PROP. ROW FROM TRACT 13. LINED THRU TRACT 13.

TOWN OF SIGNAL MOUNTAIN, INC

11

BUZZI UNICEM USA, INC.

15

750

4

~~CITY OF CHATTANOOGA~~

~~SIGNAL MOUNTAIN CEMENT COMPANY~~

12

755

7

N

R=1025.00'
L=76.51'

751+66.59
56.00'

S 27° 50' 12" E
33.89'

751+80.27
25.00'

750+18.11
25.00'

750+92.75
25.00'

748+61.92
25.00'

S 57° 50' 30" W
239.12'

S.R. 8

S 53° 48' 00" W

S 53° 48' 0" W
156.47'

S 53° 48' 0" W
155.16'

748+35.47
75.00'

15' CONST. ESMT.

MATCH LINE STA. 747+50

SEE SHT. NO. 4A

R=400.00'
L=166.60'

748+35.47
35.00'

R=340.00'
L=165.60'

750+18.11
35.00'

750+92.75
35.00'

R=965.00'
L=72.03'

750+18.12
75.00'

R=925.00'
L=69.04'

750+92.75
75.00'

R=300.00'
L=146.12'

PROP. R.O.W.

N 27° 50' 12" W
125.78'

S 27° 50' 12" E
361.53'

S 85° 59' 0" W
48.80'

752+15.39
56.00'

S 27° 50' 12" E
33.89'

33.89'

752+29.07
25.00'

S 85° 59' 0" W
87.52'

S 85° 59' 0" W
48.80'

S 85° 59' 00" W

S 85° 59' 0" W
78.24'

753+07.32
25.00'

APPROX.
PRES. R.O.W.

753+07.32
35.00'

APPROX. PRES. R.O.W.

S 85° 59' 0" W
214.56'

S 86° 57' 25" W
79.95'

752+27.38
48.89'

N 54° 25' 31" E
49.89'

753+07.32
50.25'

S 85° 59' 0" W
92.12'

751+84.87
75.00'

CUT

R=199.75'
L=125.27'

754+63.95
50.25'

R=275.00'
L=171.67'

754+63.38
25.00'

754+63.38
35.00'

R=215.00'
L=134.24'

N 58° 15' 00" W

N 58° 15' 00" W
58.50'

N 58° 15' 11" W
102.16'

PROP. R.O.W.

755+21.88
25.00'

N 58° 15' 0" W
58.50'

755+21.88
35.00'

S 34° 29' 36" E
395.53'

S 34° 29' 36" E
719.42'

755+81.03
25.00'

R=125.00'
L=45.83'

R=125.00'
L=49.29'

R=185.00'
L=16.65'

756+38.02
25.00'

S 78° 9' 0" W
44.61'

S 78° 9' 0" W
2.00'

756+82.63
25.00'

756+36.02
25.00'

S 78° 9' 0" W
19.58'

S 78° 09' 00" W

756+63.05

756+82.63
35.00'

R=275.00'
L=154.31'

758+31.38
25.00'

758+22.91
25.00'

8.48'

758+22.91
35.00'

R=215.00'
L=120.64'

756+22.52
35.00'

27.03'

35.00'

16.19'

16.78'

13.35'

R=185.00'
L=124.13'

755+54.44
55.37'

R=96.18'
L=88.49'

756+17.56
53.48'

S 69° 39' 54" W
14.98'

756+28.39
49.99'

756+36.02
35.00'

PROP. R.O.W.

756+82.63
50.00'

R=200.00'
L=140.73'

758+51.32
52.03'

S 45° 11' 23" E
51.20'

758+97.90
73.27'

N 20° 17' 58" E
28.20'

758+31.38
53.20'

PROP. R.O.W.

S 85° 53' 51" W
90.01'

759+18.15
90.09'

N 4° 6' 9" W
33.79'

759+33.43
58.31'

R=175.01'
L=40.78'

S 14° 20' 11" W
33.31'

759+02.20
25.00'

759+33.43
25.00'

760+20.92
R=275.00'
L=80.20'

N 69° 42' 0" W
70.82'

N 69° 42' 00" W

N 69° 42' 0" W
79.29'

R=28.62'

R=335.00'
L=22.54'

S.R. 8

759+02.20
35.00'

760+00.73
35.00'

760+20.92
35.00'

R=335.00'
L=110.03'

CUT

N 79° 50' 10" W
66.68'

759+52.62
66.70'

S 79° 41' 53" W
60.23'

R=234.99'
L=87.24'

760+01.07
49.69'

N 81° 30' 4" E
99.09'

N 0° 4' 17" W
398.57'

MATCH LINE STA. 760+50

SEE SHT. NO. 6A

N 34° 29' 36" W
549.48'

N 34° 29' 36" W
624.76'

PROP. R.O.W.

10

LITTLE COMPANY OF TENNESSEE, LLC

13

TOWN OF SIGNAL MOUNTAIN, INC

14

LITTLE COMPANY OF TENNESSEE, LLC

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

6/29/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA.747+50 TO STA.760+50
SCALE: 1"=50'

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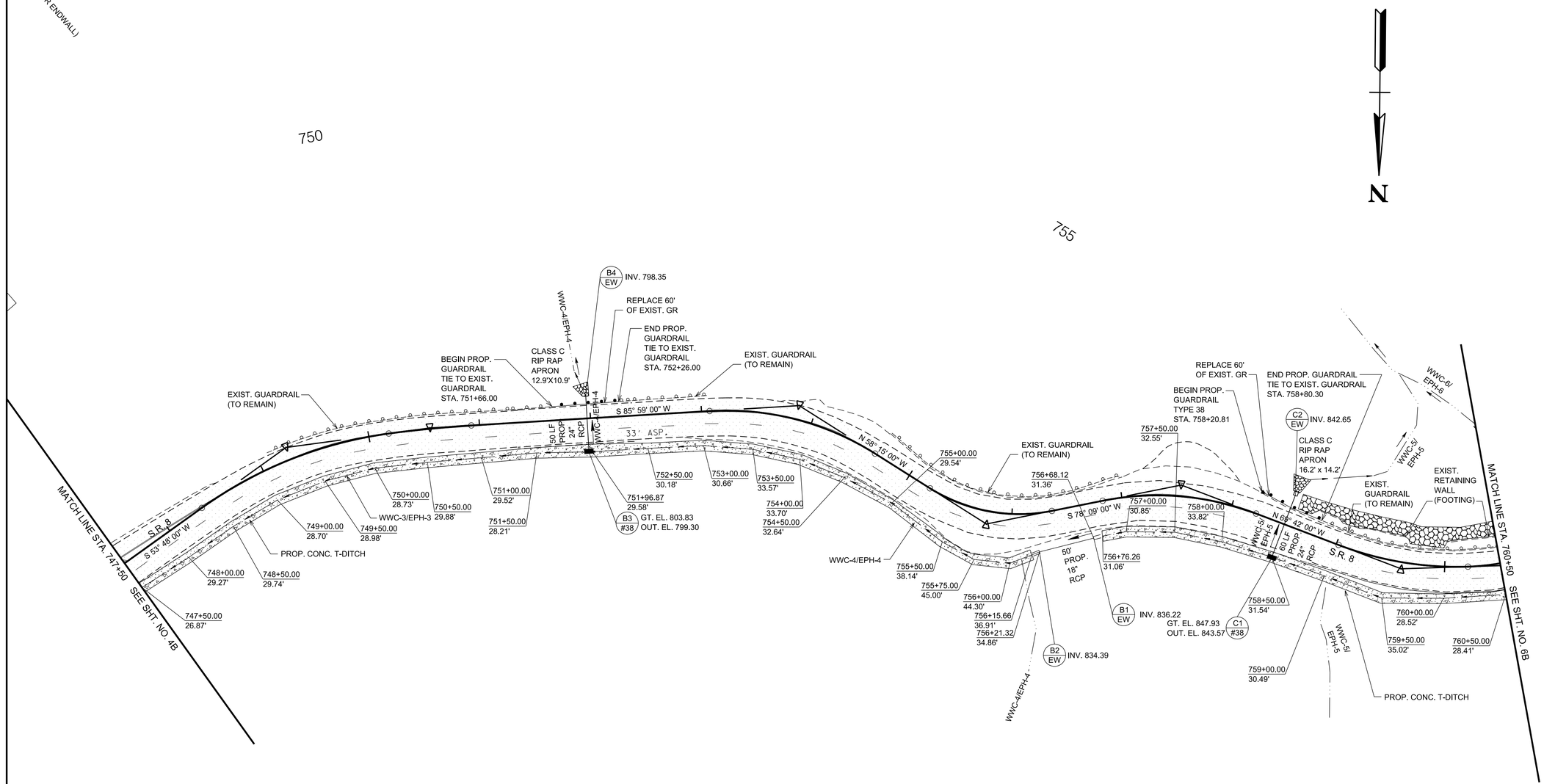
CE BID FOR ENDWALL)

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	5B
PIH	2026	STP-8(52)	5B
PS&E	2026	STP-8(52)	5B

REV. 8-15-25: EXTENDED PROPOSED 18" RCP PIPE (B1 TO B2).



LEGEND

AREA TO BE COLD PLANED AND RESURFACED

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.747+50 TO STA.760+50
SCALE: 1"=50'

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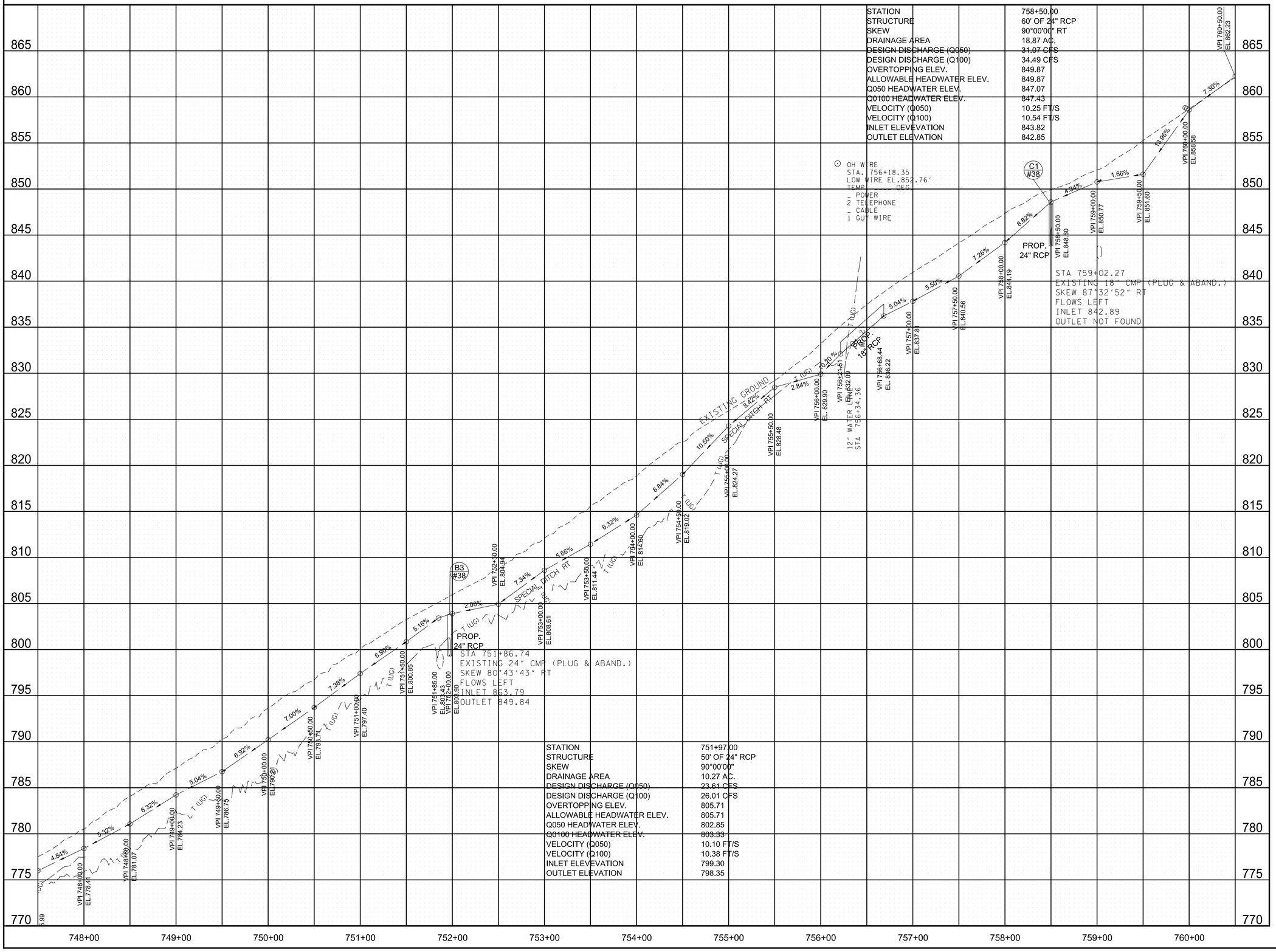
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	5C
PIH	2026	STP-8(52)	5C
PS&E	2026	STP-8(52)	5C



STATION	758+50.00
STRUCTURE	60' OF 24" RCP
SKEW	90°00'00" RT
DRAINAGE AREA	18.87 AC.
DESIGN DISCHARGE (Q050)	31.07 CFS
DESIGN DISCHARGE (Q100)	34.49 CFS
OVERTOPPING ELEV.	849.87
ALLOWABLE HEADWATER ELEV.	849.87
Q050 HEADWATER ELEV.	847.07
Q0100 HEADWATER ELEV.	847.43
VELOCITY (Q050)	10.25 FT/S
VELOCITY (Q100)	10.54 FT/S
INLET ELEVEVATION	843.82
OUTLET ELEVATION	842.85

STATION	751+97.00
STRUCTURE	50' OF 24" RCP
SKEW	90°00'00"
DRAINAGE AREA	10.27 AC.
DESIGN DISCHARGE (Q050)	23.61 CFS
DESIGN DISCHARGE (Q100)	26.01 CFS
OVERTOPPING ELEV.	805.71
ALLOWABLE HEADWATER ELEV.	805.71
Q050 HEADWATER ELEV.	802.85
Q0100 HEADWATER ELEV.	803.33
VELOCITY (Q050)	10.10 FT/S
VELOCITY (Q100)	10.38 FT/S
INLET ELEVEVATION	799.30
OUTLET ELEVATION	798.35

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA.747+50 TO STA.760+50

SCALE: 1"=50' HORIZ.
1"=5' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	6
PIH	2026	STP-8(52)	6
PS&E	2026	STP-8(52)	6

REV. 3-19-24: REVISED PROPERTY OWNER NAMES FOR TRACTS 15 & 16.

CURVE SR8-13
PI 764+64.76
N 281,400.9143
E 2,166,296.7112
Δ 108° 56' 30" (RT)
D 49° 23' 34"
R 116.00
L 220.56
T 162.45
SE N/A
DS N/A

CURVE SR8-14
PI 766+97.58
N 281,554.8115
E 2,165,996.7233
Δ 26° 51' 33" (LT)
D 22° 55' 06"
R 250.00
L 117.20
T 59.69
SE N/A
DS N/A

CURVE SR8-15
PI 768+05.75
N 281,555.3878
E 2,165,886.3589
Δ 12° 50' 57" (LT)
D 12° 43' 57"
R 450.00
L 100.92
T 50.67
SE N/A
DS N/A

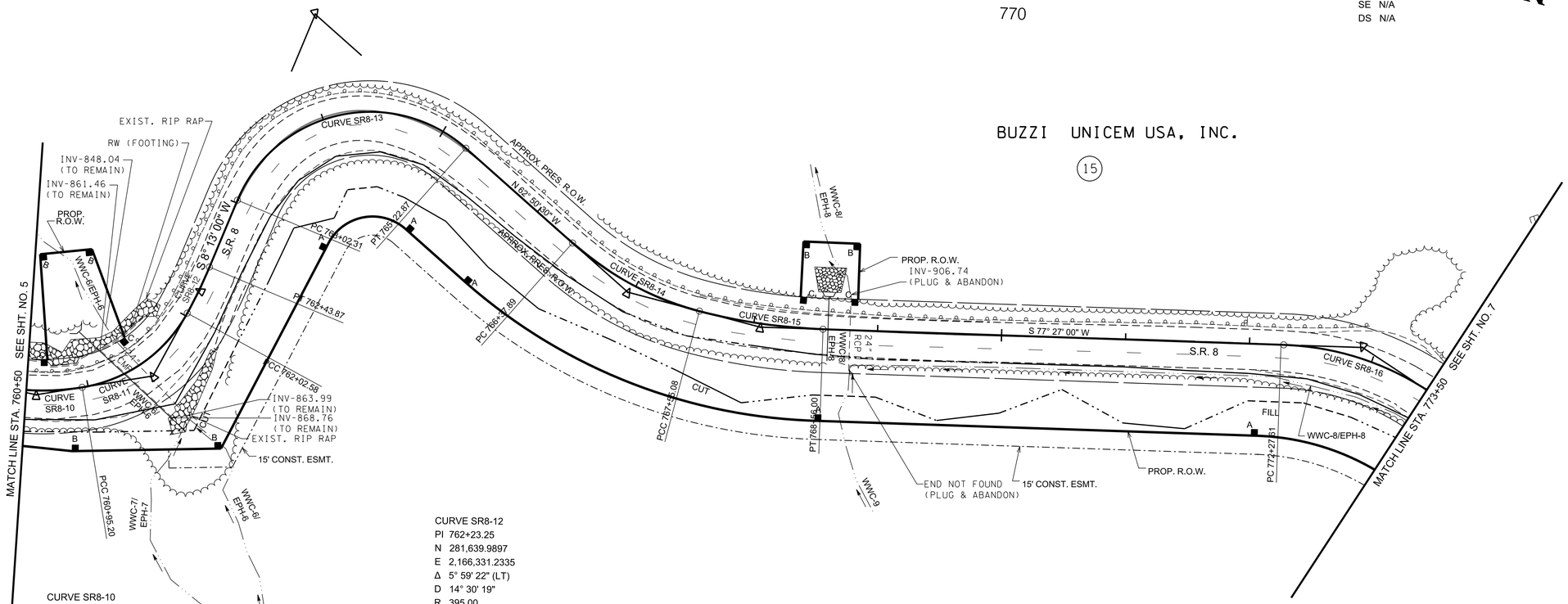
CURVE SR8-16
PI 772+91.17
N 281,449.8186
E 2,165,412.1262
Δ 31° 33' 00" (RT)
D 25° 27' 53"
R 225.00
L 123.90
T 63.56
SE N/A
DS N/A

765

770

BUZZI UNICEM USA, INC.

15



CURVE SR8-10
PI 760+58.49
N 281,754.2253
E 2,166,437.7726
Δ 21° 16' 48" (LT)
D 28° 38' 52"
R 200.00
L 74.28
T 37.57
SE N/A
DS N/A

CURVE SR8-11
PI 761+52.93
N 281,715.9892
E 2,166,350.4729
Δ 52° 08' 28" (LT)
D 48° 33' 21"
R 118.00
L 107.38
T 57.73
SE N/A
DS N/A

CURVE SR8-12
PI 762+23.25
N 281,639.9897
E 2,166,331.2335
Δ 5° 59' 22" (LT)
D 14° 30' 19"
R 395.00
L 41.29
T 20.66
SE N/A
DS N/A

16

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.760+50 TO STA.773+50
SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	6A
PIH	2026	STP-8(52)	6A
PS&E	2026	STP-8(52)	6A

REV. 3-19-24: REVISED PROPERTY OWNER NAMES FOR TRACT 15 & 16.

REV. 2-12-25: REVISED BEARINGS FOR LINES 5 AND 6.

R.O.W. LINE	DIRECTION	DISTANCE
LINE 1	S 18° 24' 49" E	85.02'
LINE 2	S 69° 52' 16" W	41.95'
LINE 3	N 34° 47' 23" W	76.06'
LINE 4	N 12° 27' 40" W	44.87'
LINE 5	S 11° 31' 49" E	44.78'
LINE 6	S 77° 50' 56" W	45.66'

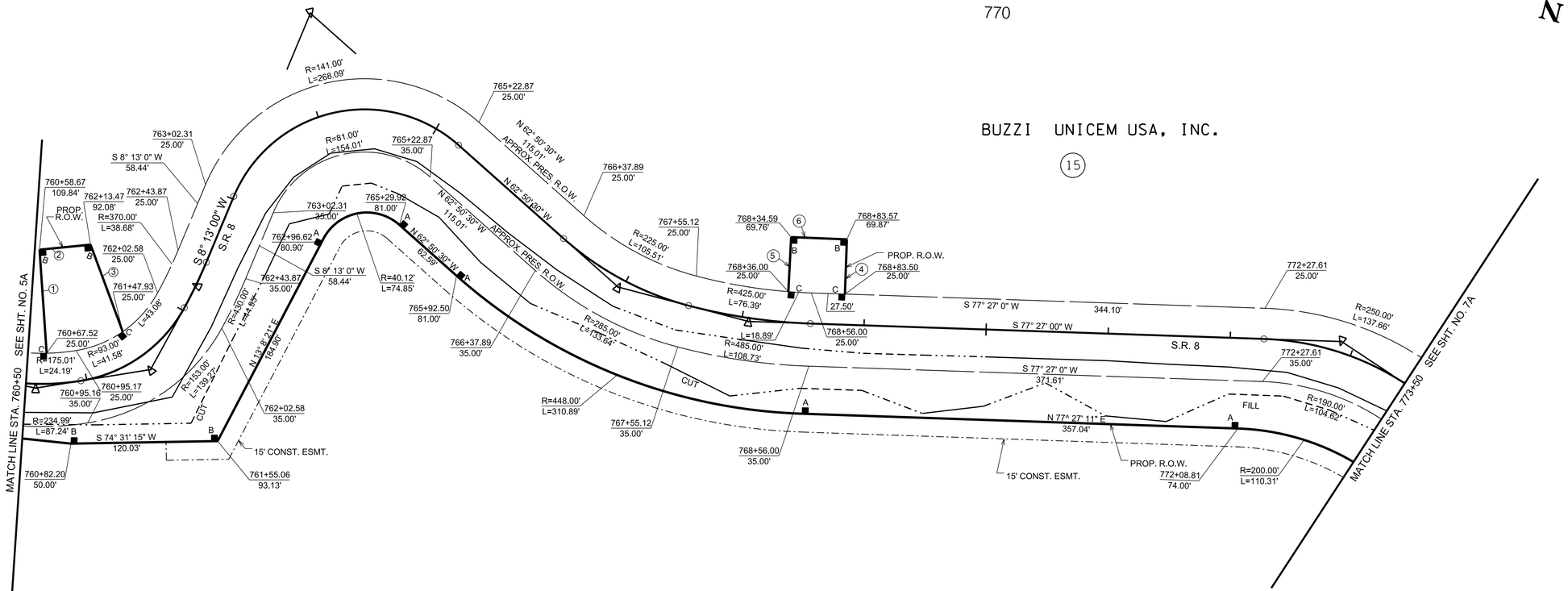
765

770

N

BUZZI UNICEM USA, INC.

15



16

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA.760+50 TO STA.773+50
SCALE: 1"=50'

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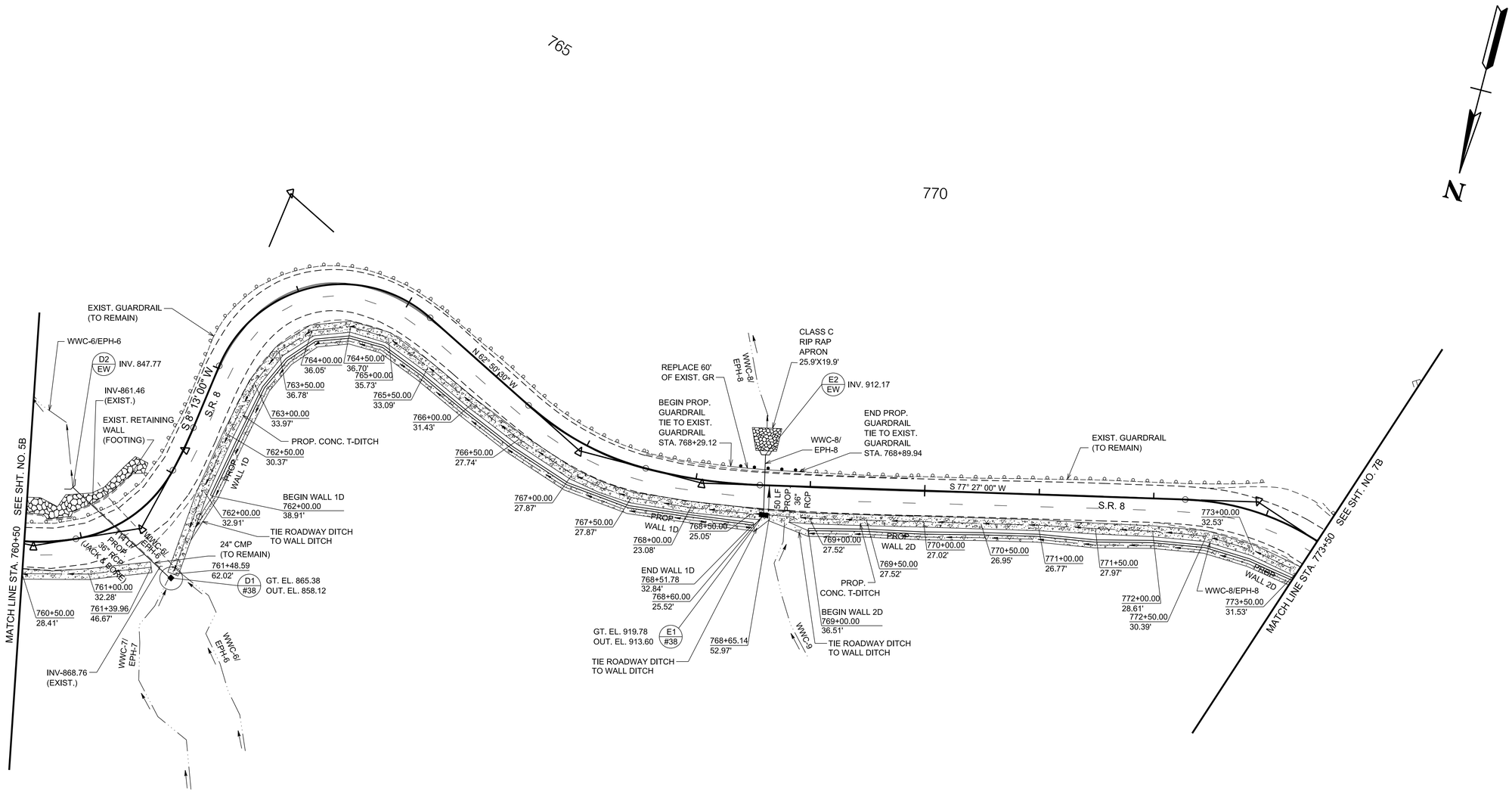
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	6B
PIH	2026	STP-8(52)	6B
PS&E	2026	STP-8(52)	6B



LEGEND

AREA TO BE COLD PLANED AND RESURFACED

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.760+50 TO STA.773+50
SCALE: 1"=50'

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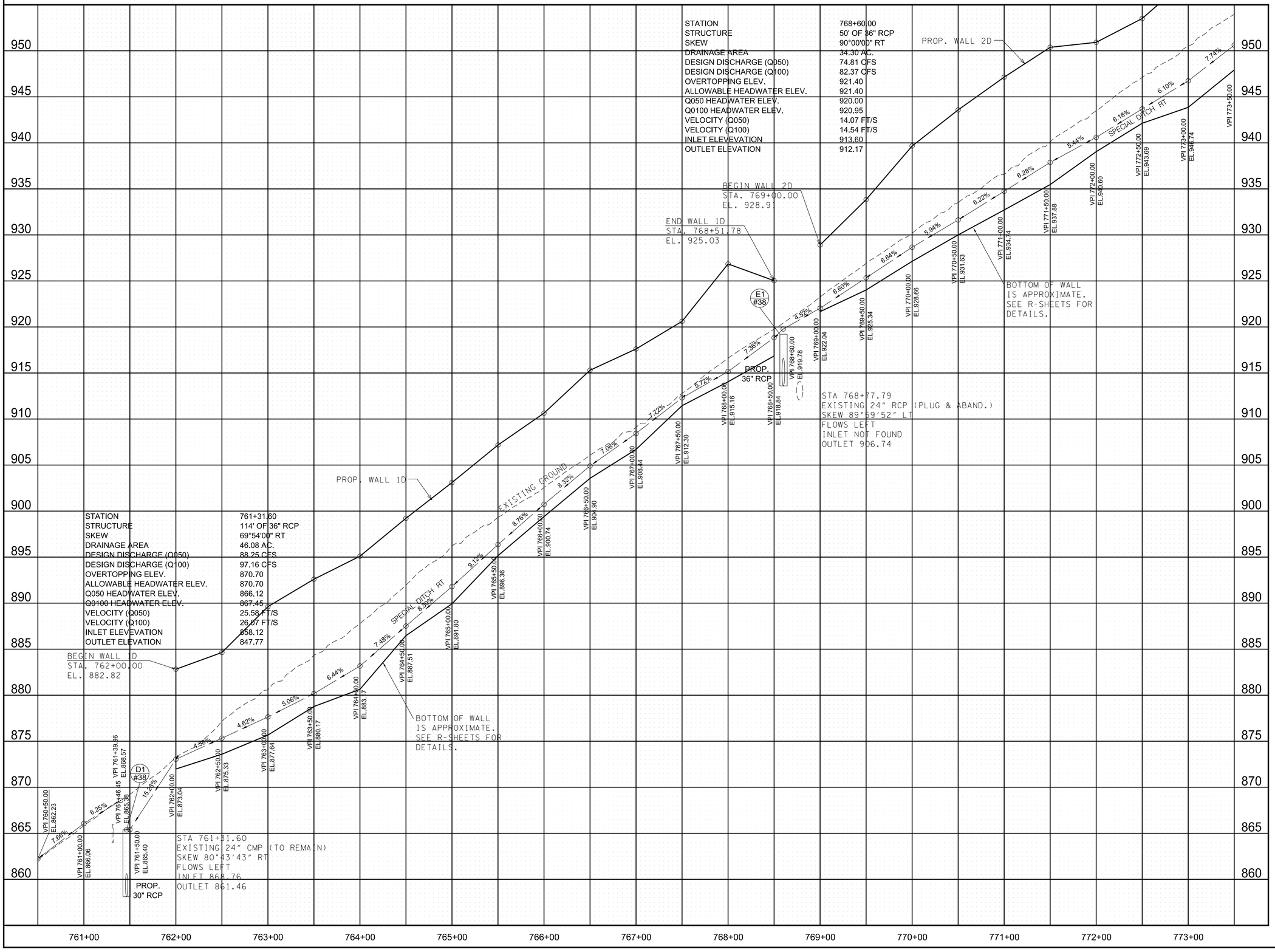
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	6C
PIH	2026	STP-8(52)	6C
PS&E	2026	STP-8(52)	6C



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COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA.760+50 TO STA.733+50

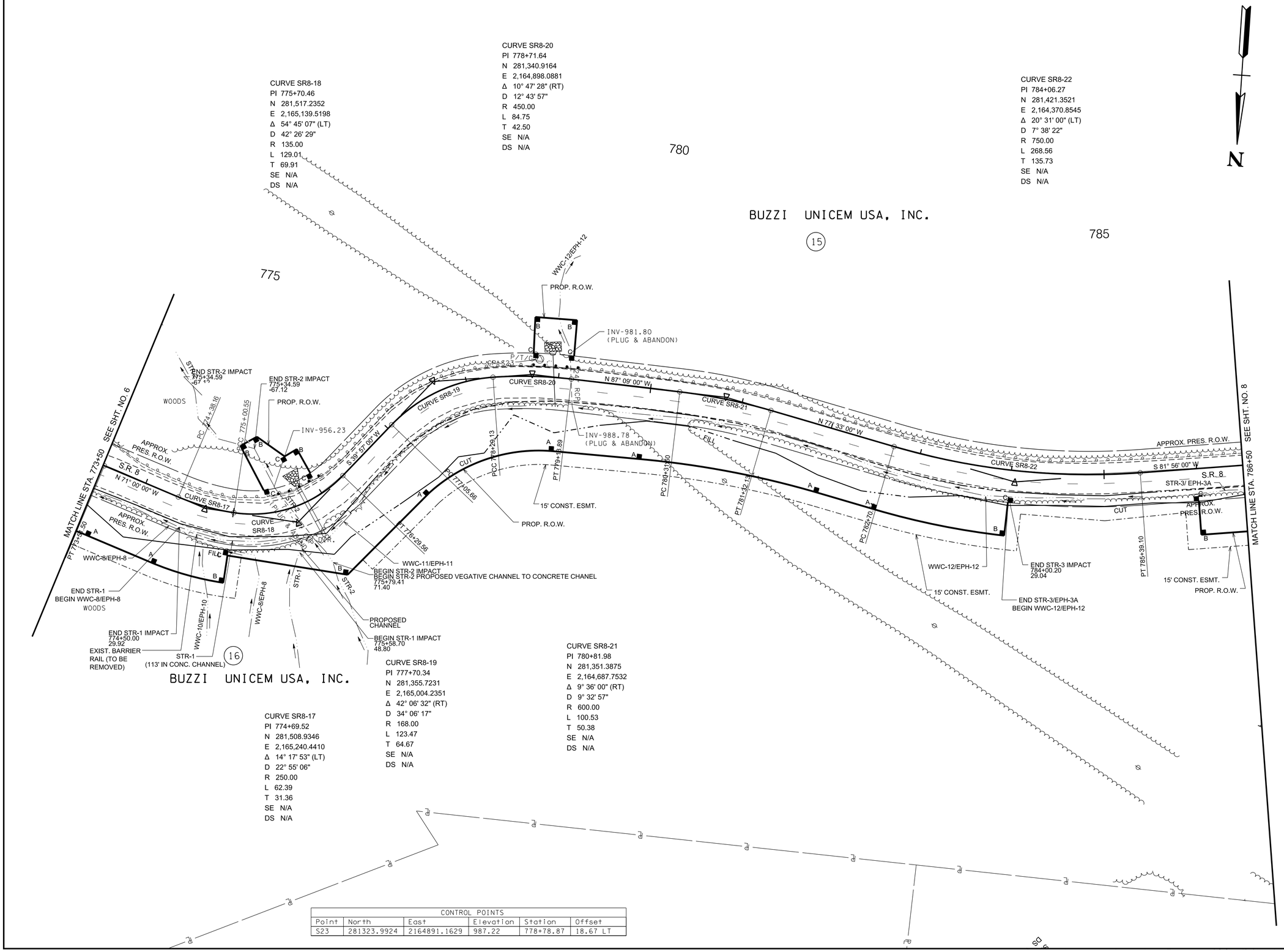
SCALE: 1"=50' HORIZ.
1"=5' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	7
PIH	2026	STP-8(52)	7
PS&E	2026	STP-8(52)	7

REV. 12-10-21: MODIFIED SLOPE LINES AND ADDED CONSTRUCTION EASEMENT TO TRACT 16 AT STA. 785+00.

REV. 3-19-24: REVISED PROPERTY OWNER NAMES FOR TRACTS 15 & 16.

REV. 11-22-24: REVISED STREAM 3 LEADER BY REMOVING EPH-3A.



CURVE SR8-17
PI 774+69.52
N 281,508.9346
E 2,165,240.4410
Δ 14° 17' 53" (LT)
D 22° 55' 06"
R 250.00
L 62.39
T 31.36
SE N/A
DS N/A

CURVE SR8-19
PI 777+70.34
N 281,355.7231
E 2,165,004.2351
Δ 42° 06' 32" (RT)
D 34° 06' 17"
R 168.00
L 123.47
T 64.67
SE N/A
DS N/A

CURVE SR8-21
PI 780+81.98
N 281,351.3875
E 2,164,687.7532
Δ 9° 36' 00" (RT)
D 9° 32' 57"
R 600.00
L 100.53
T 50.38
SE N/A
DS N/A

CONTROL POINTS

Point	North	East	Elevation	Station	Offset
S23	281323.9924	2164891.1629	987.22	778+78.87	18.67 LT

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.773+50 TO STA.786+50
SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	7A
PIH	2026	STP-8(52)	7A
PS&E	2026	STP-8(52)	7A

REV. 12-10-21: MODIFIED SLOPE LINES AND ADDED CONSTRUCTION EASEMENT TO TRACT 16 AT STA. 785+00.

REV. 3-19-24: REVISED PROPERTY OWNER NAMES FOR TRACTS 15 & 16.

REV. 2-12-25: REVISED BEARINGS FOR LINES 1 AND 2.

N

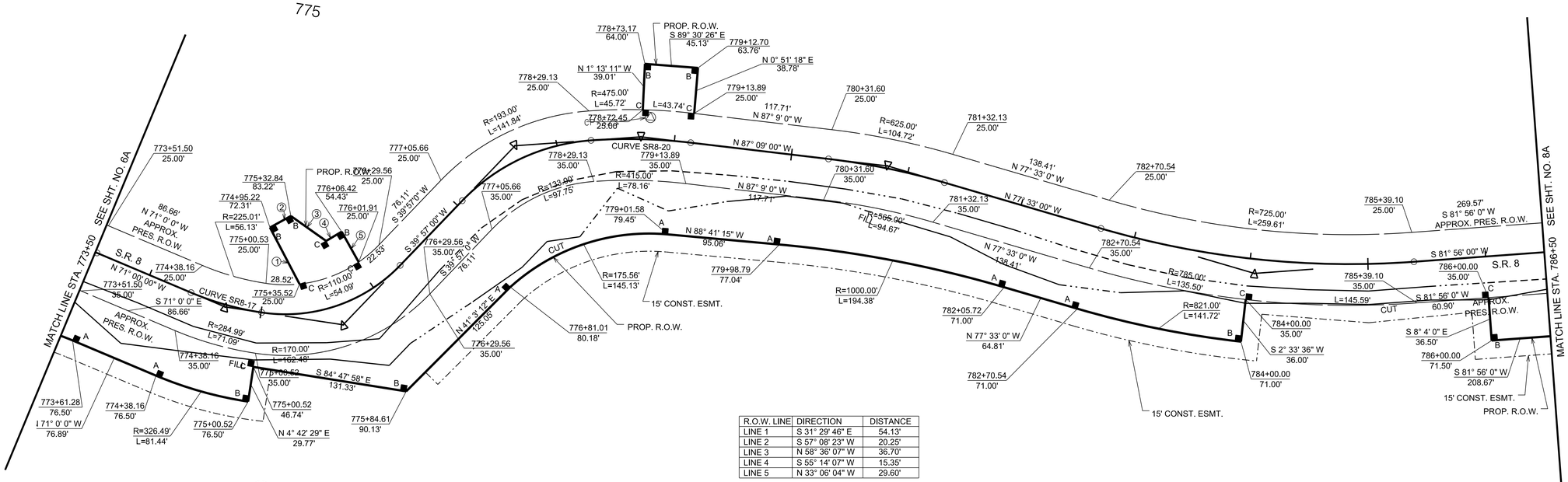
780

BUZZI UNICEM USA, INC.

15

775

785



R.O.W. LINE	DIRECTION	DISTANCE
LINE 1	S 31° 29' 46" E	54.13'
LINE 2	S 57° 08' 23" W	20.25'
LINE 3	N 58° 36' 07" W	36.70'
LINE 4	S 55° 14' 07" W	15.35'
LINE 5	N 33° 06' 04" W	29.60'

16

BUZZI UNICEM USA, INC.

CONTROL POINTS					
Point	North	East	Elevation	Station	Offset
S23	281323.9924	2164891.1629	987.22	778+78.87	18.67 LT

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA.773+50 TO STA.786+50
SCALE: 1"=50'

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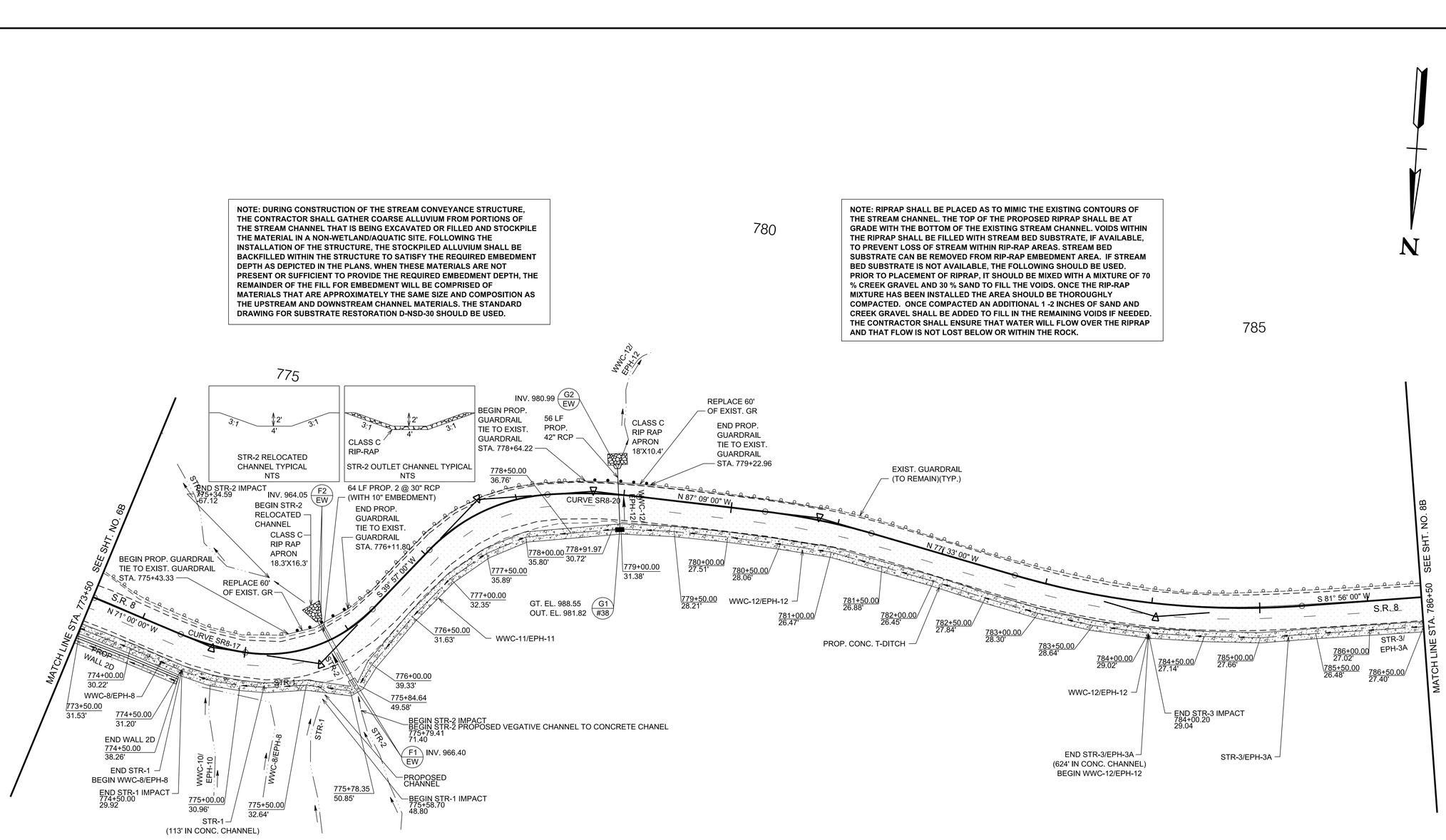
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	7B
PIH	2026	STP-8(52)	7B
PS&E	2026	STP-8(52)	7B

NOTE: DURING CONSTRUCTION OF THE STREAM CONVEYANCE STRUCTURE, THE CONTRACTOR SHALL GATHER COARSE ALLUVIUM FROM PORTIONS OF THE STREAM CHANNEL THAT IS BEING EXCAVATED OR FILLED AND STOCKPILE THE MATERIAL IN A NON-WETLAND/AQUATIC SITE. FOLLOWING THE INSTALLATION OF THE STRUCTURE, THE STOCKPILED ALLUVIUM SHALL BE BACKFILLED WITHIN THE STRUCTURE TO SATISFY THE REQUIRED EMBEDMENT DEPTH AS DEPICTED IN THE PLANS. WHEN THESE MATERIALS ARE NOT PRESENT OR SUFFICIENT TO PROVIDE THE REQUIRED EMBEDMENT DEPTH, THE REMAINDER OF THE FILL FOR EMBEDMENT WILL BE COMPRISED OF MATERIALS THAT ARE APPROXIMATELY THE SAME SIZE AND COMPOSITION AS THE UPSTREAM AND DOWNSTREAM CHANNEL MATERIALS. THE STANDARD DRAWING FOR SUBSTRATE RESTORATION D-NSD-30 SHOULD BE USED.

NOTE: RIPRAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIPRAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL. VOIDS WITHIN THE RIPRAP SHALL BE FILLED WITH STREAM BED SUBSTRATE, IF AVAILABLE, TO PREVENT LOSS OF STREAM WITHIN RIP-RAP AREAS. STREAM BED SUBSTRATE CAN BE REMOVED FROM RIP-RAP EMBEDMENT AREA. IF STREAM BED SUBSTRATE IS NOT AVAILABLE, THE FOLLOWING SHOULD BE USED. PRIOR TO PLACEMENT OF RIPRAP, IT SHOULD BE MIXED WITH A MIXTURE OF 70 % CREEK GRAVEL AND 30 % SAND TO FILL THE VOIDS. ONCE THE RIP-RAP MIXTURE HAS BEEN INSTALLED THE AREA SHOULD BE THOROUGHLY COMPACTED. ONCE COMPACTED AN ADDITIONAL 1 -2 INCHES OF SAND AND CREEK GRAVEL SHALL BE ADDED TO FILL IN THE REMAINING VOIDS IF NEEDED. THE CONTRACTOR SHALL ENSURE THAT WATER WILL FLOW OVER THE RIPRAP AND THAT FLOW IS NOT LOST BELOW OR WITHIN THE ROCK.



NOTE: THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF STR-1, STR-2, AND STR-3 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

LEGEND

AREA TO BE COLD PLANED AND RESURFACED

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.773+50 TO STA.786+50
SCALE: 1"=50'

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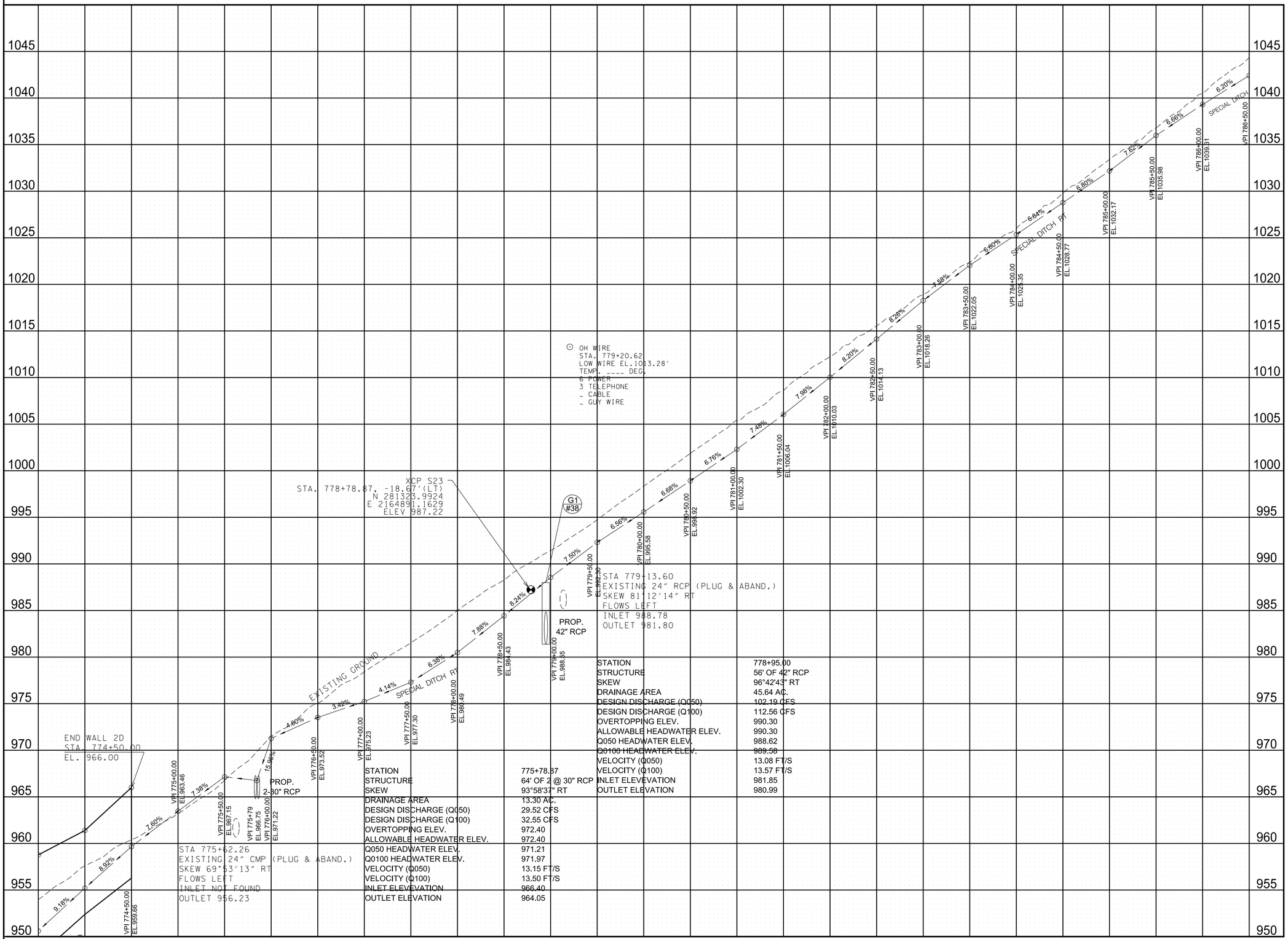
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	7C
PIH	2026	STP-8(52)	7C
PS&E	2026	STP-8(52)	7C



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA.773+50 TO STA.786+50

SCALE: 1"=50' HORIZ.
1"=5' VERT.

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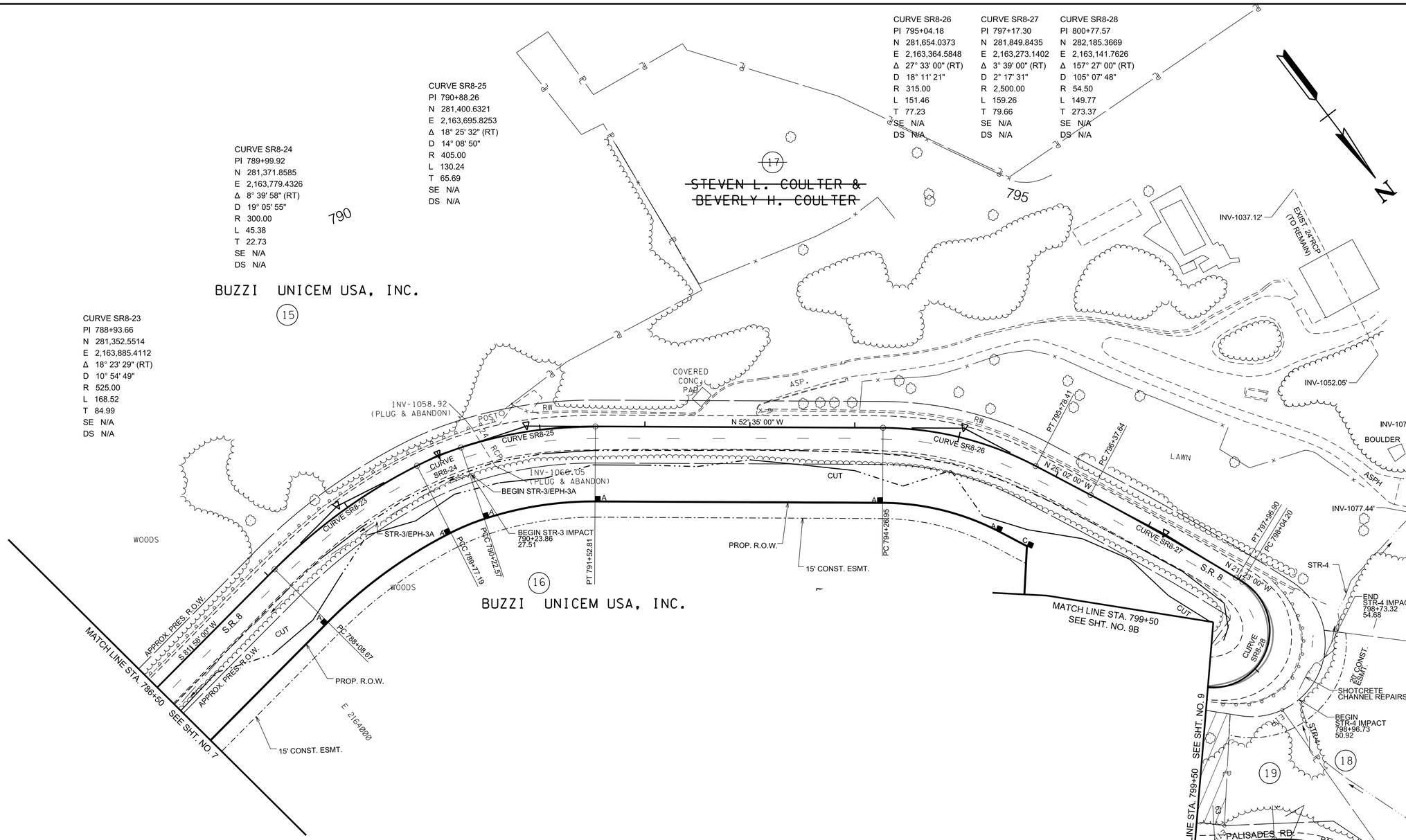
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	8
PIH	2026	STP-8(52)	8
PS&E	2026	STP-8(52)	8

REV. 12-10-21: ADDED CONSTRUCTION EASEMENT AND R.O.W. ACQUISITION TO TRACT 16 AT STA. 792+00.

REV. 3-8-22: ADDED CONSTRUCTION EASEMENT TO TRACTS 18 & 19.

REV. 3-19-24: REVISED PROPERTY OWNER NAMES FOR TRACTS 15 & 16.

REV. 11-22-24: REVISED STREAM 3 LEADER BY REMOVING EPH-3A.



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JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

LEGEND

HISTORIC PROPERTY (NATIONAL REGISTER BOUNDARY)

NOTE:
NO TEMPORARY OR PERMANENT RIGHT-OF-WAY OR EASEMENTS WILL BE TAKEN FROM THE HISTORIC PROPERTY.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.786+50 TO STA.799+50
SCALE: 1"=50'

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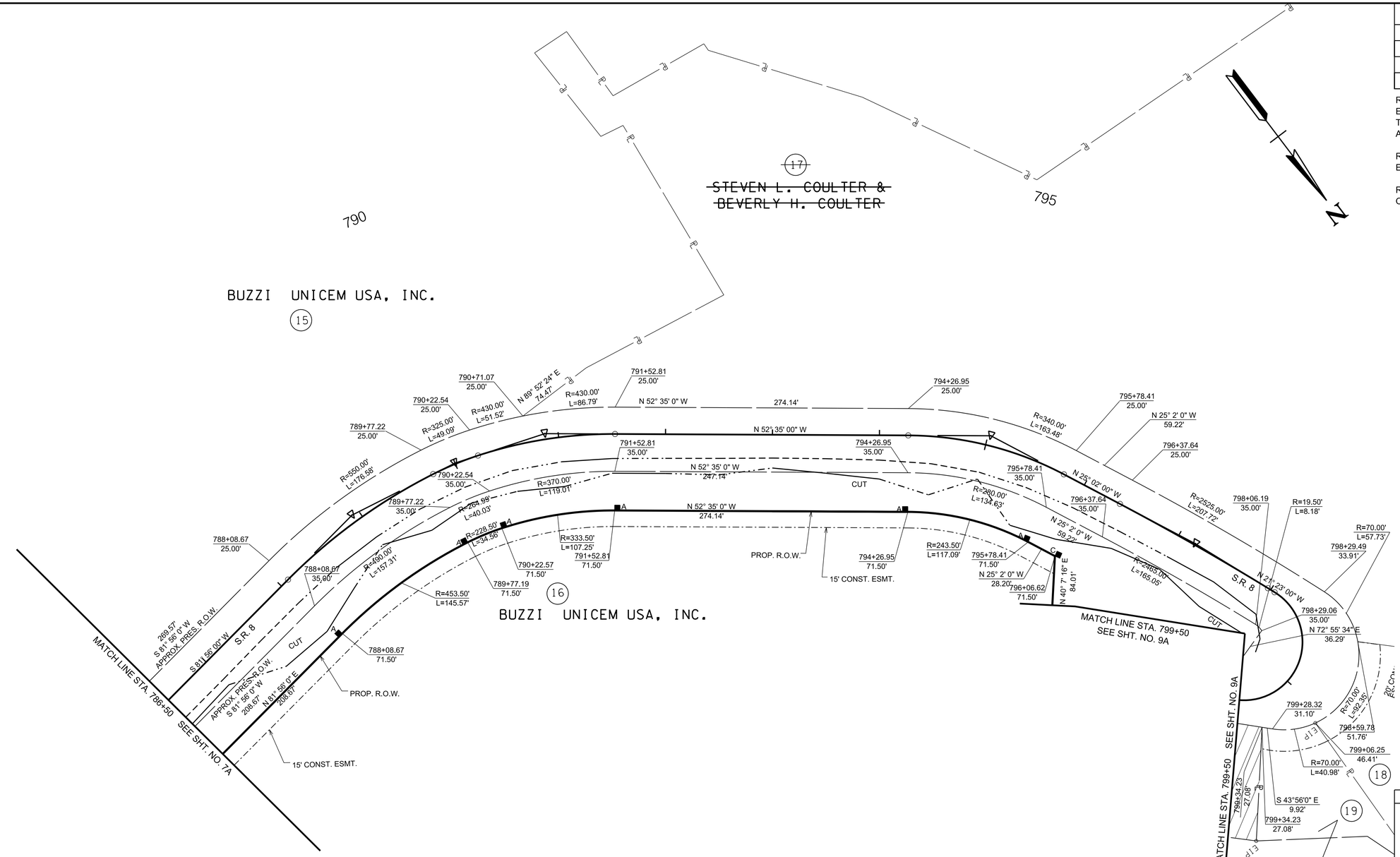
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	8A
PIH	2026	STP-8(52)	8A
PS&E	2026	STP-8(52)	8A

REV. 12-10-21: ADDED CONSTRUCTION EASEMENT AND R.O.W. ACQUISITION TO TRACT 16 AT STA. 792+00 AND UPDATED ACCORDINGLY.

REV. 3-8-22: ADDED CONSTRUCTION EASEMENT TO TRACTS 18 & 19.

REV. 3-19-24: REVISED PROPERTY OWNER NAMES FOR TRACTS 15 & 16.



PROPERTY OWNERS	
TRACT NO.	OWNER
18	STEVEN H. ROBERTS
19	KYLE G. EDWARDS & MICHAEL W. TREAS

LEGEND

HISTORIC PROPERTY (NATIONAL REGISTER BOUNDARY)

NOTE:
NO TEMPORARY OR PERMANENT RIGHT-OF-WAY OR EASEMENTS WILL BE TAKEN FROM THE HISTORIC PROPERTY.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA.786+50 TO STA.799+50
SCALE: 1"=50'

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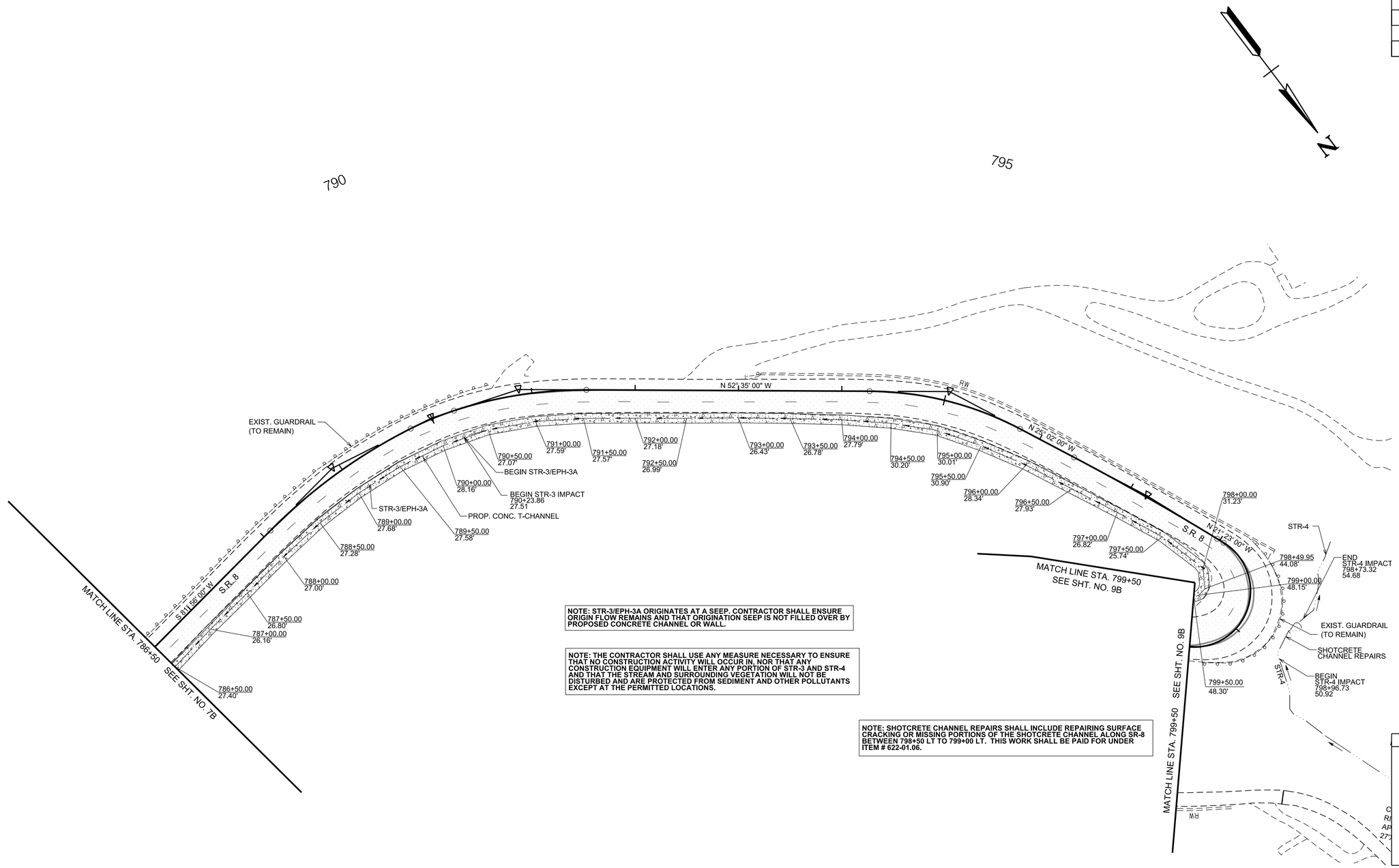
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	8B
PIH	2026	STP-8(52)	8B
PS&E	2026	STP-8(52)	8B



NOTE: STR-3/EPH-3A ORIGINATES AT A SEEP. CONTRACTOR SHALL ENSURE ORIGIN FLOW REMAINS AND THAT ORIGINATION SEEP IS NOT FILLED OVER BY PROPOSED CONCRETE CHANNEL OR WALL.

NOTE: THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF STR-3 AND STR-4 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

NOTE: SHOTCRETE CHANNEL REPAIRS SHALL INCLUDE REPAIRING SURFACE CRACKING OR MISSING PORTIONS OF THE SHOTCRETE CHANNEL ALONG SR-8 BETWEEN 798+50 LT TO 799+00 LT. THIS WORK SHALL BE PAID FOR UNDER ITEM # 622-01.06.

LEGEND

AREA TO BE COLD PLANED AND RESURFACED

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.786+50 TO STA.799+50
SCALE: 1"=50'

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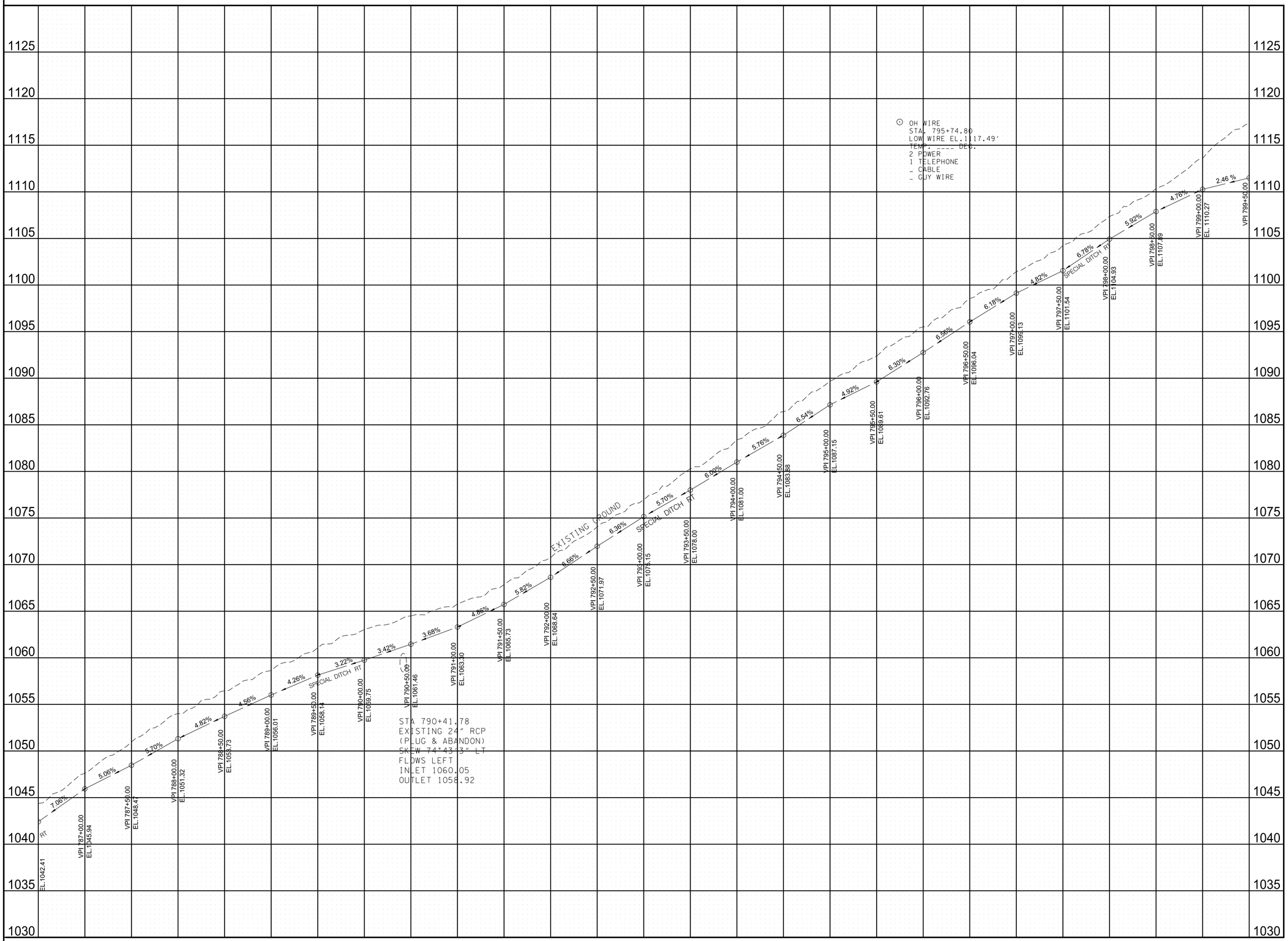
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	8C
PIH	2026	STP-8(52)	8C
PS&E	2026	STP-8(52)	8C



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 786+50 TO STA. 799+50

SCALE: 1"= ' HORIZ.
1"= ' VERT.

Point	North	East	Elevation	Station	Offset
S21	282051.7631	2163663.8483	1190.83	810+42.43	16.66 RT
S22	281851.1385	2163975.6604	1165.16	806+58.69	24.69 RT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	9
PIH	2026	STP-8(52)	9
PS&E	2026	STP-8(52)	9

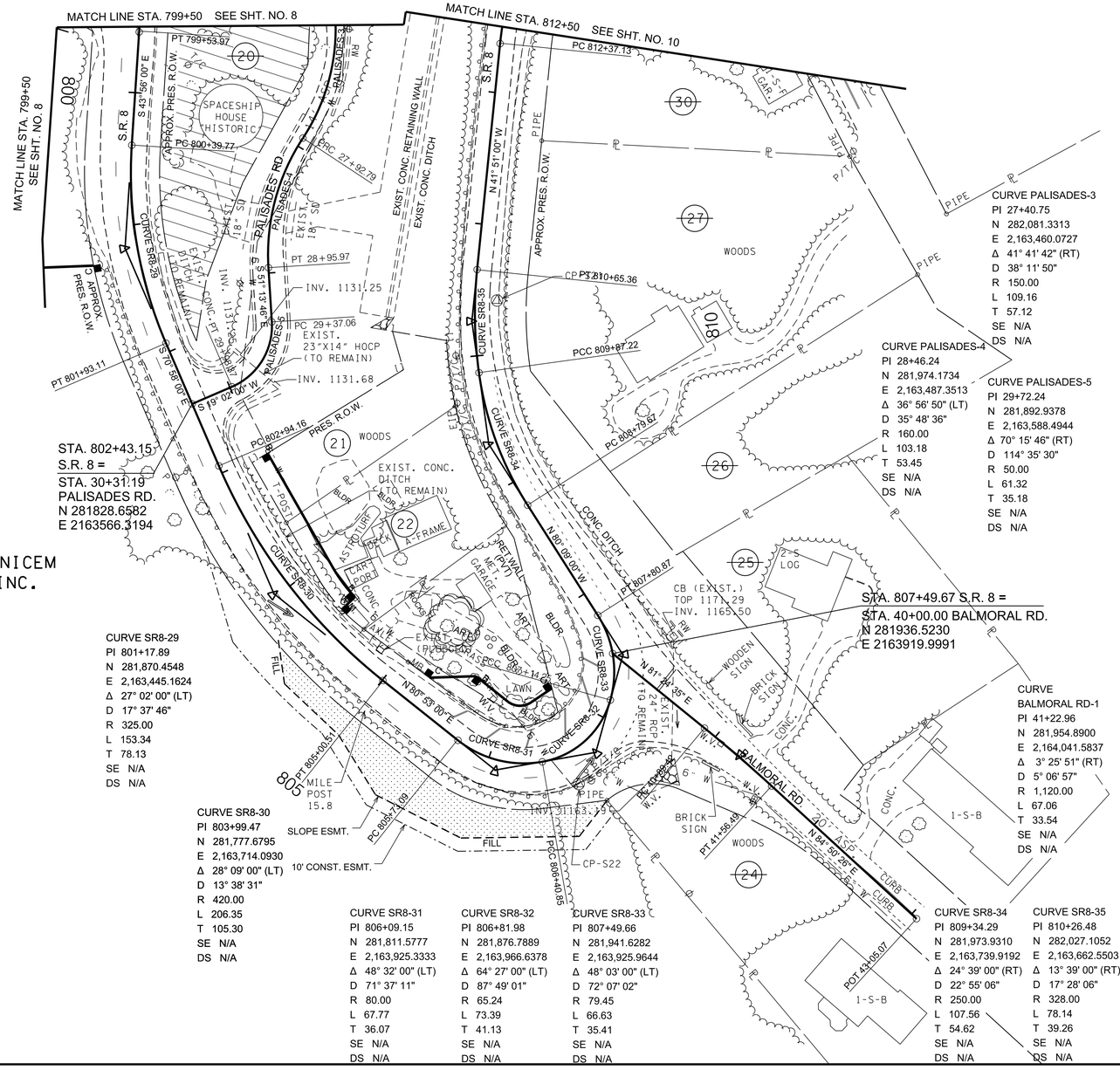
REV. 3-8-22: UPDATED PALISADES ROAD ALIGNMENT, CALLOUTS AND CURVE TABLES.

REV. 9-21-23: UPDATED SURVEY WITH GRASS DRIVEWAY AND LANDSCAPING FEATURES.

REV. 3-19-24: REVISED PROPERTY OWNER NAME FOR TRACT 16.

REV. 11-22-24: ADD PROP. ROW TO TRACT 21 & 22. REVISED PROP. ROW FOR TRACT 23. COMBINED TRACTS 22 AND 23. ELIMINATED TRACT 23.

REV. 1-21-25: ADDED ADDITIONAL SURVEY FEATURES TO TRACT 22.



LEGEND

HISTORIC PROPERTY (NATIONAL REGISTER BOUNDARY)

NOTE:
NO TEMPORARY OR PERMANENT RIGHT-OF-WAY OR EASEMENTS WILL BE TAKEN FROM THE HISTORIC PROPERTY.

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AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.799+50 TO STA.812+50
SCALE: 1"=50'

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LEGEND

HISTORIC PROPERTY
(NATIONAL REGISTER BOUNDARY)

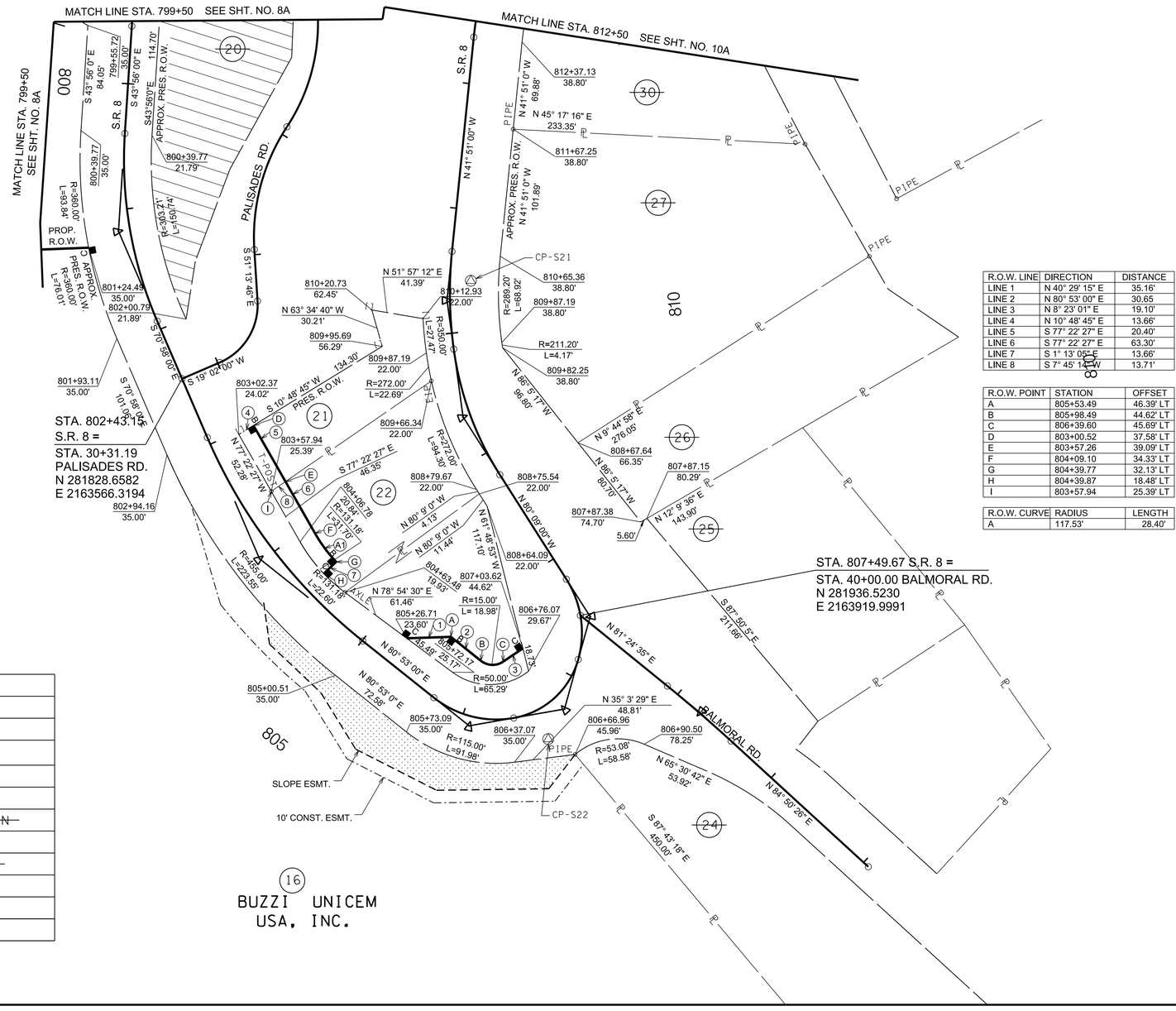
NOTE:
NO TEMPORARY OR PERMANENT RIGHT-OF-WAY OR EASEMENTS WILL BE TAKEN FROM THE HISTORIC PROPERTY.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	9A
PIH	2026	STP-8(52)	9A
PS&E	2026	STP-8(52)	9A

REV. 3-8-22: UPDATED PALISADES ROAD ALIGNMENT AND CALLOUTS.

REV. 3-19-24: REVISED PROPERTY OWNER NAME FOR TRACT 16.

REV. 11-22-24: ADD PROP. ROW TO TRACT 21 & 22. REVISED PROP. ROW FOR TRACT 23. COMBINED TRACT 22 AND 23. ELIMINATED TRACT 23. REVISED OWNER FOR TRACT 21.



R.O.W. LINE	DIRECTION	DISTANCE
LINE 1	N 40° 29' 15" E	35.16'
LINE 2	N 80° 53' 00" E	30.65
LINE 3	N 8° 23' 01" E	19.10'
LINE 4	N 10° 48' 45" E	13.66'
LINE 5	S 77° 22' 27" E	20.40'
LINE 6	S 77° 22' 27" E	63.30'
LINE 7	S 1° 13' 05" E	13.66'
LINE 8	S 7° 45' 14" W	13.71'

R.O.W. POINT	STATION	OFFSET
A	805+53.49	46.39' LT
B	805+98.49	44.62' LT
C	806+39.60	45.69' LT
D	803+00.52	37.58' LT
E	803+57.26	39.09' LT
F	804+09.10	34.33' LT
G	804+39.77	32.13' LT
H	804+39.87	18.48' LT
I	803+57.94	25.39' LT

R.O.W. CURVE	RADIUS	LENGTH
A	117.53'	28.40'

PROPERTY OWNERS	
TRACT NO.	OWNER
~~20~~	~~QUEST HOLDINGS, LLC~~
21	STATE OF TENNESSEE
22	DAVID C. BASIL
~~24~~	~~CHARLES R. BORIN & PRICILLA S. BORIN~~
~~25~~	~~DENNIS C. WOODEN & MARSHA L. WOOD WOODEN~~
~~26~~	~~CHERIE GILLIAM~~
~~27~~	~~LAURA S. STEPHANS & DOUGLAS E. STEPHENS~~
28	NUMBER NOT USED
29	NUMBER NOT USED
~~30~~	~~MICHAEL D. RICH & MOLLY M. RICH~~

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AGRICULTURE
SUMMERVILLE
TENNESSEE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 799+50 TO STA. 812+50
SCALE: 1"= 50'

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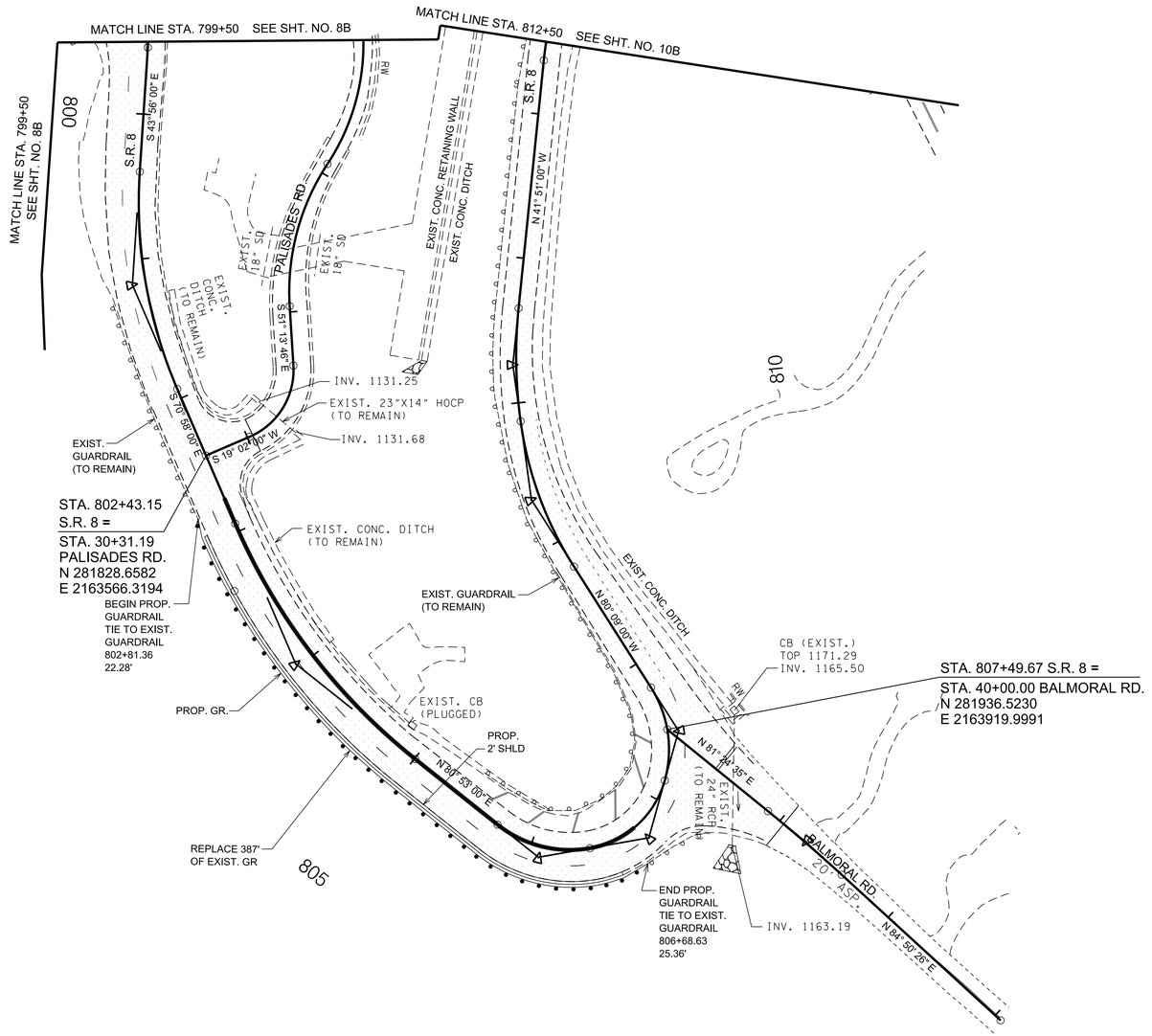
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	9B
PIH	2026	STP-8(52)	9B
PS&E	2026	STP-8(52)	9B

REV. 3-8-22: UPDATED PALISADES ROAD ALIGNMENT AND CALLOUTS.



LEGEND

AREA TO BE COLD PLANED AND RESURFACED

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 799+50 TO STA. 812+50
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	9C
PIH	2026	STP-8(52)	9C
PS&E	2026	STP-8(52)	9C

REV. 3-8-22: UPDATED INTERSECTION CALLOUT AT PALISADES ROAD.

OH WIRE
STA. 810+05.02
LOW WIRE EL.1213.04'
TEMP. ____ DEG.
1 POWER
1 TELEPHONE
_ CABLE
_ GUY WIRE

XCP S21
STA. 810+42.43, 16.66'(RT)
N 282051.7631
E 2163663.8483
ELEV 1190.83

OH WIRE
STA. 806+73.06
LOW WIRE EL.1186.03'
TEMP. ____ DEG.
8 POWER
2 TELEPHONE
_ CABLE
_ GUY WIRE

EXISTING GROUND

EXIST. 24" RCP (TO REMAIN)

XCP S22
STA. 806+58.69, 24.69'(RT)
N 281851.1385
E 2163975.6604
ELEV 1165.16

STA. 802+43.15 S.R. 8 (SIGNAL MOUNTAIN RD.) =
STA. 30431.19 PALISADES RD.
N 281828.6582
E 2163566.3194

OH WIRE
STA. 802+53.69
LOW WIRE EL.1155.08'
TEMP. ____ DEG.
3 POWER
1 TELEPHONE
_ CABLE
_ GUY WIRE

SR 8 GRAPHIC GRADE

6" WATER LINE
STA 806+55.33

CB (TO REMAIN)
STA. 804+83.83
16.54' (LT)
TOP 1148.58
INVERT 1146.52

STA. 807+49.87 S.R. 8 (SIGNAL MOUNTAIN RD.) =
STA. 40+00.00 BALMORAL RD.
N 281936.5230
E 2163919.9991

18" ST (TO REMAIN)

CB (TO REMAIN)
STA. 802+38.54
15.70' (LT)
TOP 1132.49
INVERT 1130.14

INV-1130.42

INV-1123.23

6" W

1205 1200 1195 1190 1185 1180 1175 1170 1165 1160 1155 1150 1145 1140 1135 1130 1125 1120 1115 1110

800+00 801+00 802+00 803+00 804+00 805+00 806+00 807+00 808+00 809+00 810+00 811+00 812+00

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 799+50 TO STA. 812+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	10
PIH	2026	STP-8(52)	10
PS&E	2026	STP-8(52)	10

REV. 12-10-21: MODIFIED TRACT NO.'S 44, 47, 84 AND 85. UPDATED ASSOCIATED ACQUISTIONS WITH MODIFIED TRACTS.

REV. 3-8-22: EXTENDED PALISADES ALIGNMENT. MODIFIED EXISTING TRACTS 32 & 33. ADDED VARIOUS R.O.W. ACQUISITIONS TO TRACTS 18, 19, 33, 34 & 38. REMOVED R.O.W. ACQUISITIONS FROM TRACTS 44, 47, 84 & 85.

REV. 8-9-23: MODIFIED TEMPORARY CONSTRUCTION EASEMENT TRACT NO. 38.

REV. 3-19-24: REVISED PROPERTY OWNER NAME FOR TRACT 34. ADDED DRIVEWAY TO TRACT 45. ADDED DRIVEWAY CONSTRUCTION EASEMENTS TO TRACTS 41 & 45. ADDED PROPERTY LINE BETWEEN TRACTS 35 & 56.

REV. 1-21-25: REMOVED TCE FROM TRACTS 41 & 45.

REV. 2-12-25: REVISED TRACT 31 OWNER.

REV. 3-26-26: WATERLINE LOCATION ALONG PALISADES ROAD UPDATED IN THE VICINITY OF STA. 22+62.93 LT TO STA. 24+00 LT.

CURVE PALISADES-1
PI 23+83.67
N 282,384.6485
E 2,163,283.2579
Δ 85° 49' 50" (RT)
D 106° 06' 12"
R 54.00
L 80.89
T 50.21
SE N/A
DS N/A

CURVE PALISADES-2
PI 25+68.54
N 282,182.1268
E 2,163,310.7681
Δ 48° 14' 27" (LT)
D 38° 42' 48"
R 148.00
L 124.61
T 66.27
SE N/A
DS N/A

CURVE SR8-36
PI 813+12.06
N 282,240.1091
E 2,163,471.7681
Δ 33° 22' 00" (RT)
D 22° 55' 06"
R 250.00
L 145.59
T 74.92
SE N/A
DS N/A

CURVE DSUNSETDR-1
PI 50+40.81
N 282,420.4618
E 2,163,485.5652
Δ 25° 31' 00" (RT)
D 76° 23' 40"
R 75.00
L 33.40
T 16.98
SE N/A
DS N/A

CURVE SR8-37
PI 817+60.95
N 282,688.2979
E 2,163,404.9191
Δ 62° 22' 00" (LT)
D 11° 30' 19"
R 498.00
L 542.07
T 301.40
SE N/A
DS N/A

CURVE SR8-38
PI 821+65.23
N 282,840.8420
E 2,162,965.6385
Δ 15° 01' 00" (RT)
D 13° 28' 53"
R 425.00
L 111.39
T 56.02
SE N/A
DS N/A

CURVE SR8-39
PI 822+75.36
N 282,903.0515
E 2,162,873.9852
Δ 17° 47' 00" (RT)
D 16° 22' 13"
R 350.00
L 108.63
T 54.76
SE N/A
DS N/A

CURVE SR8-40
PI 824+07.45
N 283,007.7584
E 2,162,792.0320
Δ 6° 48' 00" (RT)
D 6° 30' 39"
R 880.00
L 104.44
T 52.28
SE N/A
DS N/A

CONTROL POINTS					
Point	North	East	Elevation	Station	Offset
S18	282882.5516	2162880.5959	1240.50	822+56.87	15.21 LT
S19	282659.0547	2163364.4535	1230.52	817+33.69	34.30 RT
S20	282219.4460	2163479.9965	1205.81	812+88.82	13.26 LT

STA. 814+82.29 S.R. 8 =
STA. 50+00.00 SUNSET DR
N 282412.6042
E 2163445.5148

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AGRICULTURE
CIVIL
COMMERCE
6/29/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 812+50 TO STA. 825+50
SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	10A
PIH	2026	STP-8(52)	10A
PS&E	2026	STP-8(52)	10A

REV. 12-10-21: MODIFIED TRACT NO.'S 44, 47, 84 AND 85. UPDATED ASSOCIATED ACQUISTIONS WITH MODIFIED TRACTS AND UPDATED CALLOUTS ACCORDINGLY.

REV. 3-8-22: EXTENDED PALISADES ALIGNMENT. MODIFIED EXISTING TRACTS 32 & 33. ADDED VARIOUS R.O.W. ACQUISITIONS TO TRACTS 18, 19, 33, 34 & 38. REMOVED R.O.W. ACQUISITIONS FROM TRACTS 44, 47, 84 & 85.

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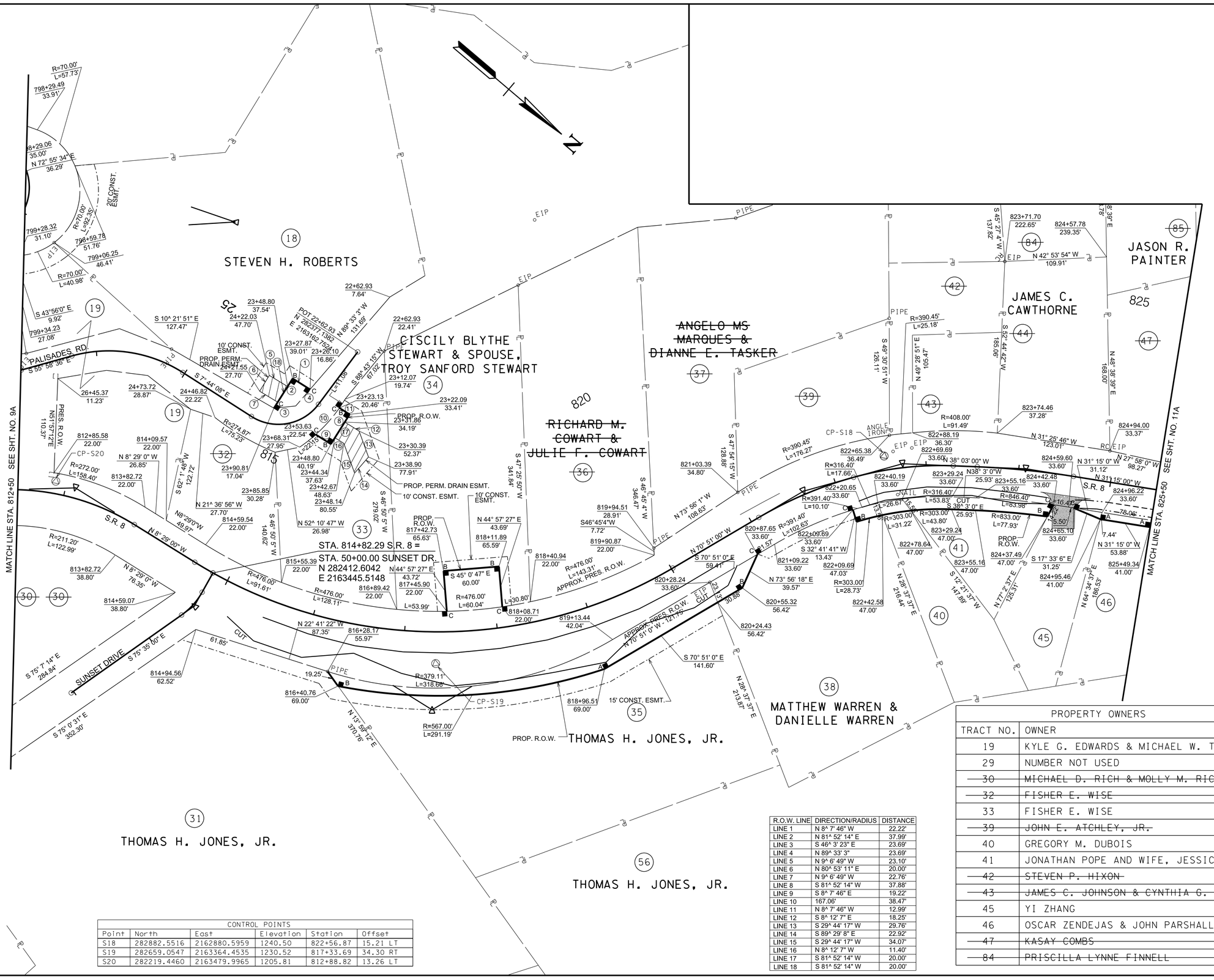
REV. 3-19-24: REVISED PROPERTY OWNER NAME FOR TRACT 34. ADDED DRIVEWAY TO TRACT 45. ADDED DRIVEWAY CONSTRUCTION EASEMENTS TO TRACTS 41 & 45. ADDED PROPERTY LINE BETWEEN TRACTS 35 & 56.

REV. 11-22-24: REMOVED DRIVEWAY CONSTRUCTION EASEMENTS ON TRACTS 41 & 45. CHANGED TRACT 40 PROPERTY OWNER.

REV. 2-12-25: REVISED TRACT 31 OWNER.



CONTROL POINTS					
Point	North	East	Elevation	Station	Offset
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S19	282659.0547	2163364.4535	1230.52	817+33.69	34.30 RT
S20	282219.4460	2163479.9965	1205.81	812+88.82	13.26 LT

R.O.W. LINE	DIRECTION/RADIUS	DISTANCE
LINE 1	N 8^ 7' 46" W	22.22'
LINE 2	N 81^ 52' 14" E	37.99'
LINE 3	S 46^ 3' 23" E	23.69'
LINE 4	N 89^ 33' 3"	23.69'
LINE 5	N 9^ 6' 49" W	23.10'
LINE 6	N 80^ 53' 11" E	20.00'
LINE 7	N 9^ 6' 49" W	22.76'
LINE 8	S 81^ 52' 14" W	37.88'
LINE 9	S 8^ 7' 46" E	19.22'
LINE 10	167.06'	38.47'
LINE 11	N 8^ 7' 46" W	12.99'
LINE 12	S 8^ 12' 7" E	18.25'
LINE 13	S 29^ 44' 17" W	29.76'
LINE 14	S 89^ 29' 8" E	22.92'
LINE 15	S 29^ 44' 17" W	34.07'
LINE 16	N 8^ 12' 7" W	11.40'
LINE 17	S 81^ 52' 14" W	20.00'
LINE 18	S 81^ 52' 14" W	20.00'

PROPERTY OWNERS	
TRACT NO.	OWNER
19	KYLE G. EDWARDS & MICHAEL W. TREAS
29	NUMBER NOT USED
~~30~~	~~MICHAEL D. RICH & MOLLY M. RICH~~
~~32~~	~~FISHER E. WISE~~
33	FISHER E. WISE
~~39~~	~~JOHN E. ATCHLEY, JR.~~
40	GREGORY M. DUBOIS
41	JONATHAN POPE AND WIFE, JESSICA POPE
~~42~~	~~STEVEN P. HIXON~~
~~43~~	~~JAMES C. JOHNSON & CYNTHIA G. JOHNSON~~
45	YI ZHANG
46	OSCAR ZENDEJAS & JOHN PARSHALL
~~47~~	~~KASAY COMBS~~
~~84~~	~~PRISCILLA LYNNE FINNELL~~

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 812+50 TO STA. 825+50
SCALE: 1"= 50'

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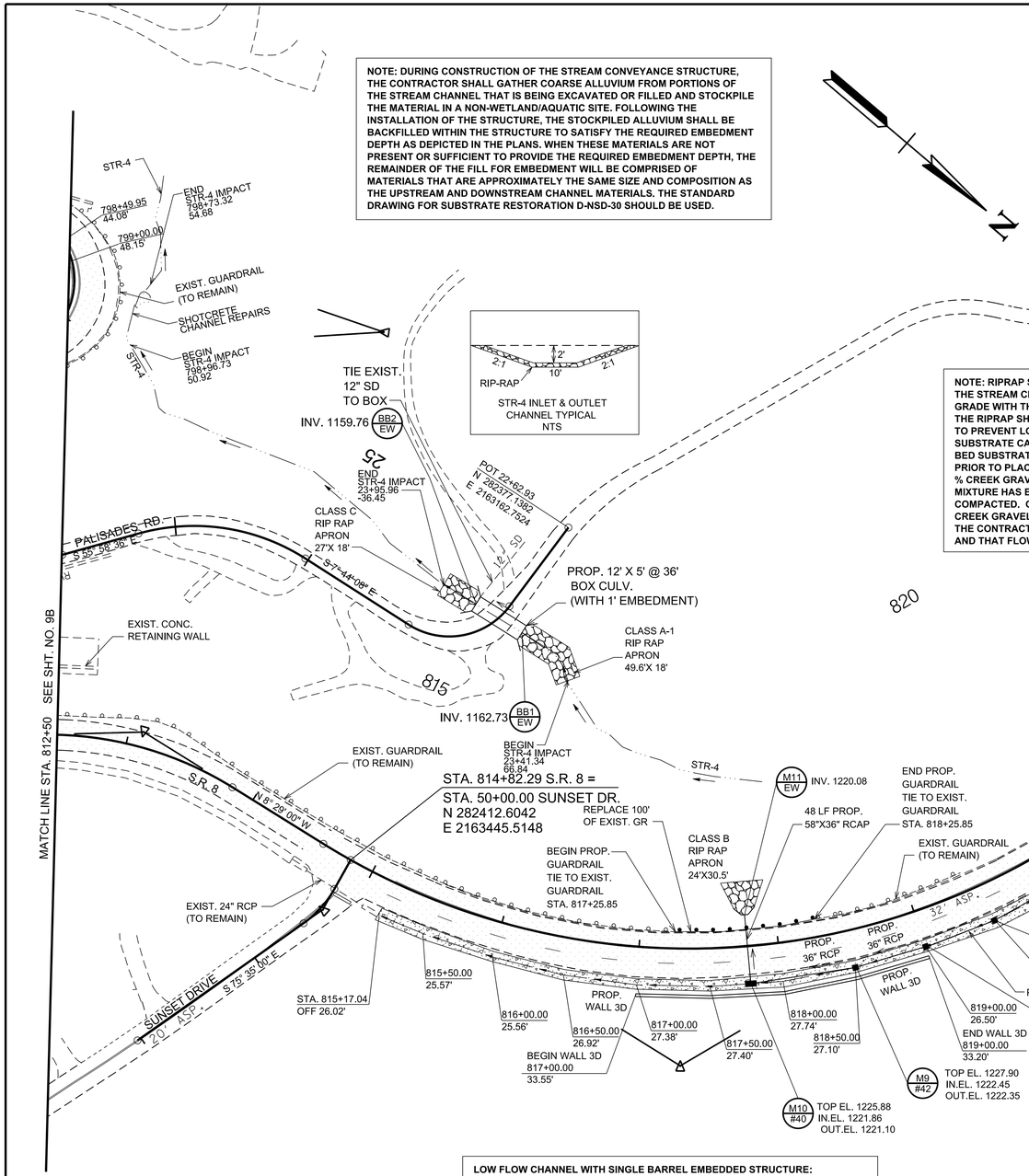
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	10B
PIH	2026	STP-8(52)	10B
PS&E	2026	STP-8(52)	10B

REV. 12-10-21: UPDATED DRAINAGE CALLOUTS M2 AND M3.

REV. 3-8-22: MODIFIED "M" SERIES DRAINAGE. ADDED PROPOSED BOX CULVERT ON PALISADES ROAD. REMOVED "L" SERIES DRAINAGE.

REV. 3-19-24: ADDED DRIVEWAY AT STA 824+50 RT.

NOTE: DURING CONSTRUCTION OF THE STREAM CONVEYANCE STRUCTURE, THE CONTRACTOR SHALL GATHER COARSE ALLUVIUM FROM PORTIONS OF THE STREAM CHANNEL THAT IS BEING EXCAVATED OR FILLED AND STOCKPILE THE MATERIAL IN A NON-WETLAND/AQUATIC SITE. FOLLOWING THE INSTALLATION OF THE STRUCTURE, THE STOCKPILED ALLUVIUM SHALL BE BACKFILLED WITHIN THE STRUCTURE TO SATISFY THE REQUIRED EMBEDMENT DEPTH AS DEPICTED IN THE PLANS. WHEN THESE MATERIALS ARE NOT PRESENT OR SUFFICIENT TO PROVIDE THE REQUIRED EMBEDMENT DEPTH, THE REMAINDER OF THE FILL FOR EMBEDMENT WILL BE COMPRISED OF MATERIALS THAT ARE APPROXIMATELY THE SAME SIZE AND COMPOSITION AS THE UPSTREAM AND DOWNSTREAM CHANNEL MATERIALS. THE STANDARD DRAWING FOR SUBSTRATE RESTORATION D-NSD-30 SHOULD BE USED.



NOTE: RIPRAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIPRAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL. VOIDS WITHIN THE RIPRAP SHALL BE FILLED WITH STREAM BED SUBSTRATE, IF AVAILABLE, TO PREVENT LOSS OF STREAM WITHIN RIP-RAP AREAS. STREAM BED SUBSTRATE CAN BE REMOVED FROM RIP-RAP EMBEDMENT AREA. IF STREAM BED SUBSTRATE IS NOT AVAILABLE, THE FOLLOWING SHOULD BE USED. PRIOR TO PLACEMENT OF RIPRAP, IT SHOULD BE MIXED WITH A MIXTURE OF 70 % CREEK GRAVEL AND 30 % SAND TO FILL THE VOIDS. ONCE THE RIP-RAP MIXTURE HAS BEEN INSTALLED THE AREA SHOULD BE THOROUGHLY COMPACTED. ONCE COMPACTED AN ADDITIONAL 1 -2 INCHES OF SAND AND CREEK GRAVEL SHALL BE ADDED TO FILL IN THE REMAINING VOIDS IF NEEDED. THE CONTRACTOR SHALL ENSURE THAT WATER WILL FLOW OVER THE RIPRAP AND THAT FLOW IS NOT LOST BELOW OR WITHIN THE ROCK.

LOW FLOW CHANNEL WITH SINGLE BARREL EMBEDDED STRUCTURE:
THE STREAM AT THE INLET AND OUTLET OF PROPOSED EMBEDDED STREAM CONVEYANCE STRUCTURES SHALL BE RESTORED TO THE PRECONSTRUCTION STREAM CHANNEL CROSS-SECTION MATCHING THE CHANNEL BOTTOM WIDTH AND BANK HEIGHT AND WIDTH. THE RESTORED STREAM CHANNEL WILL BE CONSTRUCTED FROM THE EXCAVATED STREAM AND STREAM BANK MATERIALS, OR OTHER MATERIALS IF SPECIFIED, ONCE THE CONSTRUCTION OF THE STREAM CONVEYANCE STRUCTURE IS COMPLETE. REFER TO THE "EMBEDDING OF STRUCTURES" NOTE FOR SPECIFICATIONS OF EXCAVATED STREAM MATERIALS TO BE USED, IF APPLICABLE.
WHEN RECONSTRUCTING THE STREAM BANK, USE A COIR FIBER ROLL AT THE TOE OF THE BANK TO PROVIDE BANK STABILITY WHILE NATIVE VEGETATION ESTABLISHES. STANDARD DRAWING D-NSD-33 MUST BE USED FOR COIR FIBER ROLL INSTALLATION. STREAM BANK MATERIALS EXCAVATED DURING THE CONSTRUCTION OF THE STREAM CONVEYANCE STRUCTURE, OR OTHER MATERIALS IF SPECIFIED, SHOULD BE USED WHEN RECONSTRUCTING THE STREAM BANK ONCE THE STRUCTURE IS COMPLETE. NATIVE SEED MIXTURES AS SPECIFIED IN STANDARD DRAWING STD-17-20 SHALL BE PLANTED ONCE THE BANK CONSTRUCTION IS COMPLETE. IF NATURAL CHANNEL DESIGN IS PROPOSED AT THE STRUCTURE INLET, OUTLET, OR BOTH, IMPLEMENT THE DESIGN AS SHOWN IN THE NATURAL CHANNEL DESIGN PLANS INSTEAD OF RESTORING THE CHANNEL TO THE PRECONSTRUCTION CROSS-SECTION.

NOTE:
THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF STR-4 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

LEGEND

AREA TO BE COLD PLANED AND RESURFACED

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 812+50 TO STA. 825+50
SCALE: 1"= 50'

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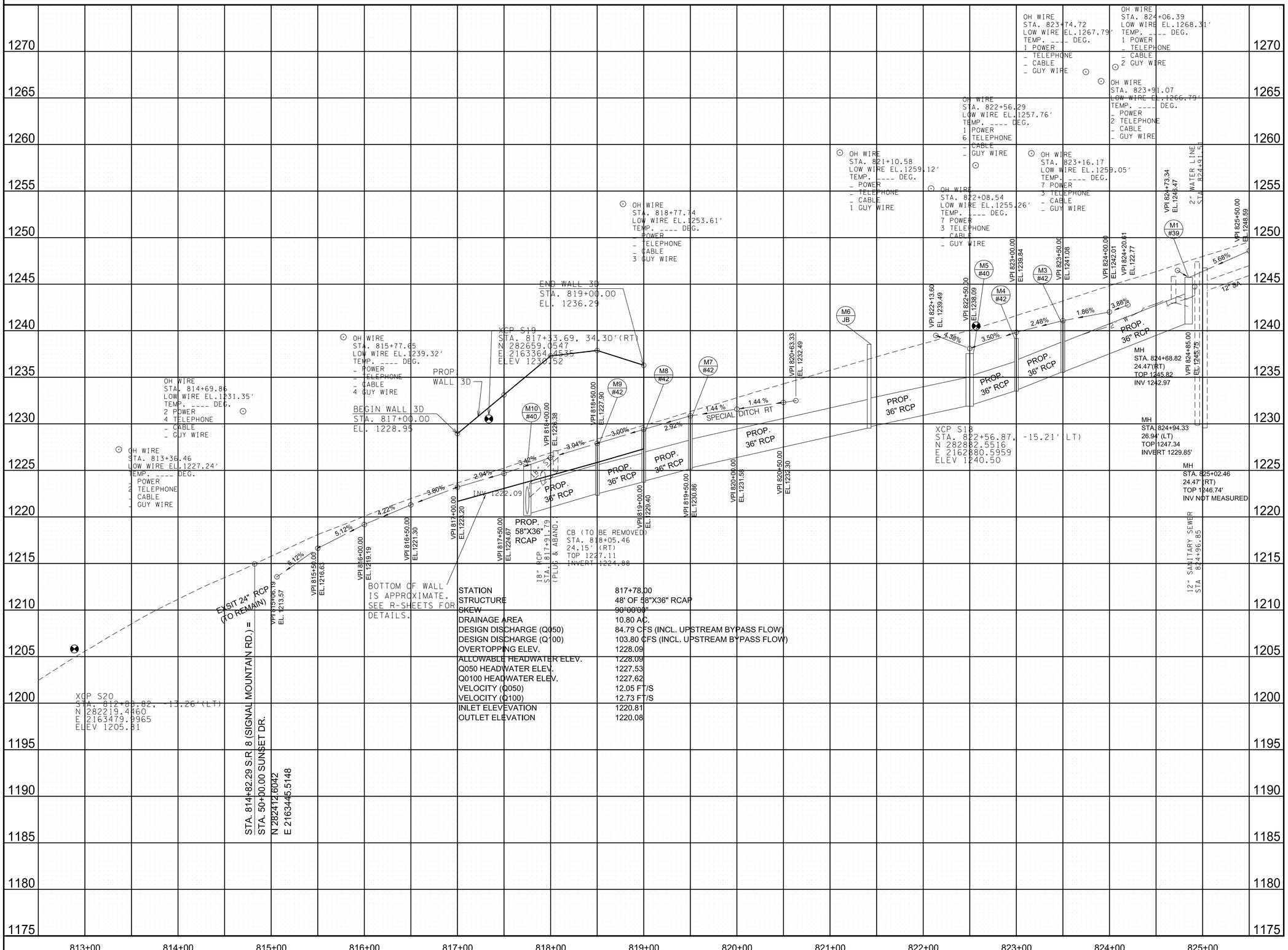
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	10C
PIH	2026	STP-8(52)	10C
PS&E	2026	STP-8(52)	10C

REV. 3-8-22: REMOVED "L" SERIES DRAINAGE. ADDED "M" SERIES DRAINAGE.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 812+50 TO STA. 825+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	11
PIH	2026	STP-8(52)	11
PS&E	2026	STP-8(52)	11

REV. 12-10-21: MODIFIED TRACT NO. 47.

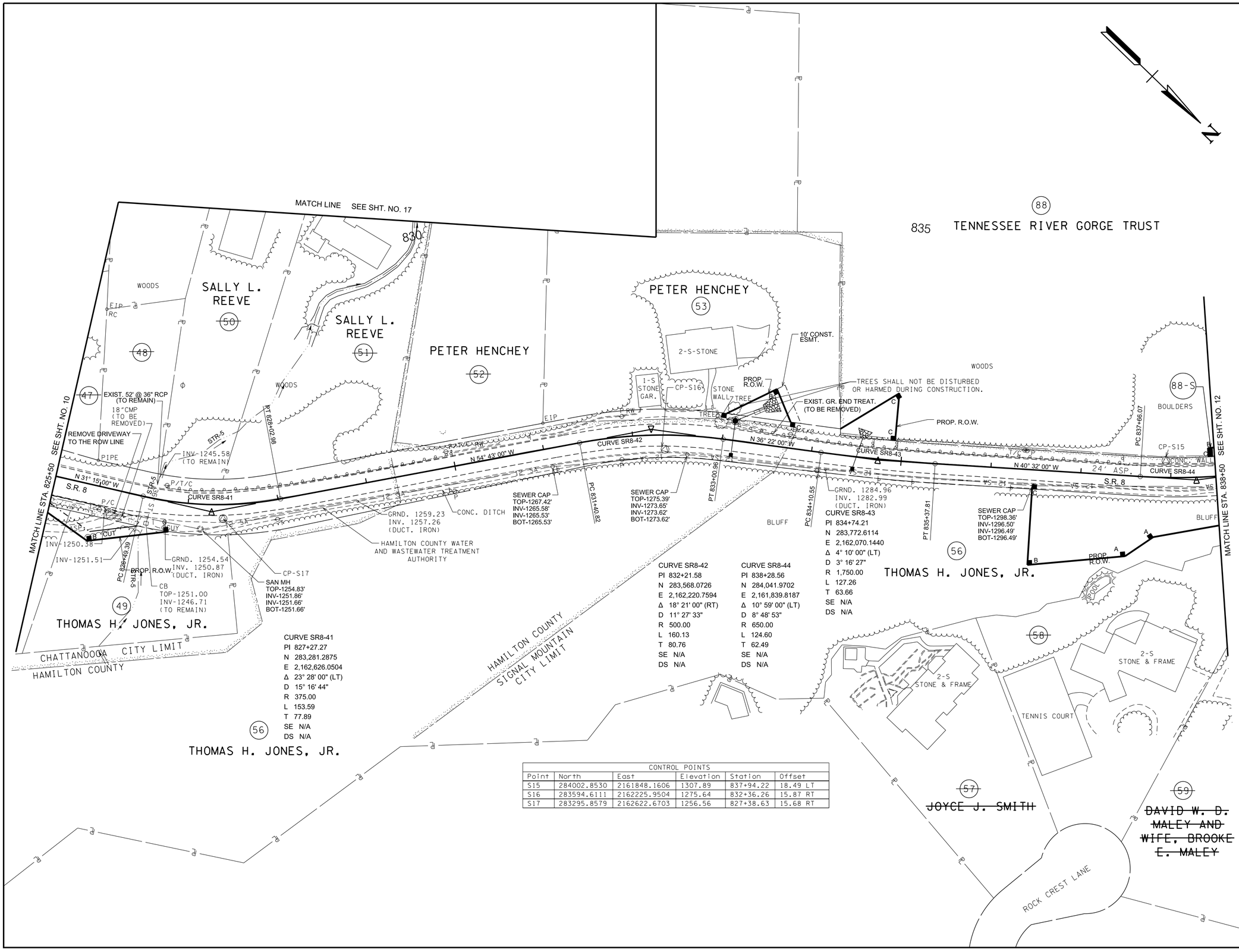
REV. 3-8-22: ADDED PROPOSED R.O.W. & CONSTRUCTION EASEMENT TO TRACT 53. REMOVED R.O.W. ACQUISITIONS FROM TRACT 47.

REV. 9-21-23: REPLACED TRACT NO. 54 WITH TRACT NO. 88. MODIFIED TRACT NO. 55. MODIFIED HAMILTON COUNTY/SIGNAL MOUNTAIN CITY LIMIT BOUNDARY.

REV. 3-19-24: REVISED PROPERTY OWNER NAMES FOR TRACTS 52 & 53.

REV. 11-22-24: REVISED TEMP. CONSTRUCTION EASEMENT TRACT 53. ADDED ADDITIONAL TREES TO TRACT 53. ADDED NOTE TO TRACT 53 REGARDING TREES.

REV. 5-26-26: ADDED TRACT 88-S AND PROP. ROW.



CURVE SR8-41
PI 827+27.27
N 283,281.2875
E 2,162,626.0504
Δ 23° 28' 00" (LT)
D 15° 16' 44"
R 375.00
L 153.59
T 77.89
SE N/A
DS N/A

CURVE SR8-42
PI 832+21.58
N 283,568.0726
E 2,162,220.7594
Δ 18° 21' 00" (RT)
D 11° 27' 33"
R 500.00
L 160.13
T 80.76
SE N/A
DS N/A

CURVE SR8-43
PI 834+74.21
N 283,772.6114
E 2,162,070.1440
Δ 4° 10' 00" (LT)
D 3° 16' 27"
R 1,750.00
L 127.26
T 63.66
SE N/A
DS N/A

CURVE SR8-44
PI 838+28.56
N 284,041.9702
E 2,161,839.8187
Δ 10° 59' 00" (LT)
D 8° 48' 53"
R 650.00
L 124.60
T 62.49
SE N/A
DS N/A

CONTROL POINTS					
Point	North	East	Elevation	Station	Offset
S15	284002.8530	2161848.1606	1307.89	837+94.22	18.49 LT
S16	283594.6111	2162225.9504	1275.64	832+36.26	15.87 RT
S17	283295.8579	2162622.6703	1256.56	827+38.63	15.68 RT

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JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 825+50 TO STA. 838+50
SCALE: 1"=50'

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	PROPERTY OWNERS
TRACT NO.	OWNER
~~47~~	~~KASAY COMBS~~
48	TRAVIS HORTON, RANCE HORTON, JIM HORTON, ANDY LEE, DAVID LEE, JAMES D. HUTCHERSON AND TRIPLE H. INVESTMENTS, G.P.
~~58~~	~~LYNDA K. GRIFFIN, TRUSTEE OF THE LYNDA K. GRIFFIN REVOCABLE TRUST~~

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	11A
PIH	2026	STP-8(52)	11A
PS&E	2026	STP-8(52)	11A

REV. 12-10-21: MODIFIED TRACT NO. 47 AND UPDATED CALLOUTS ACCORDINGLY.

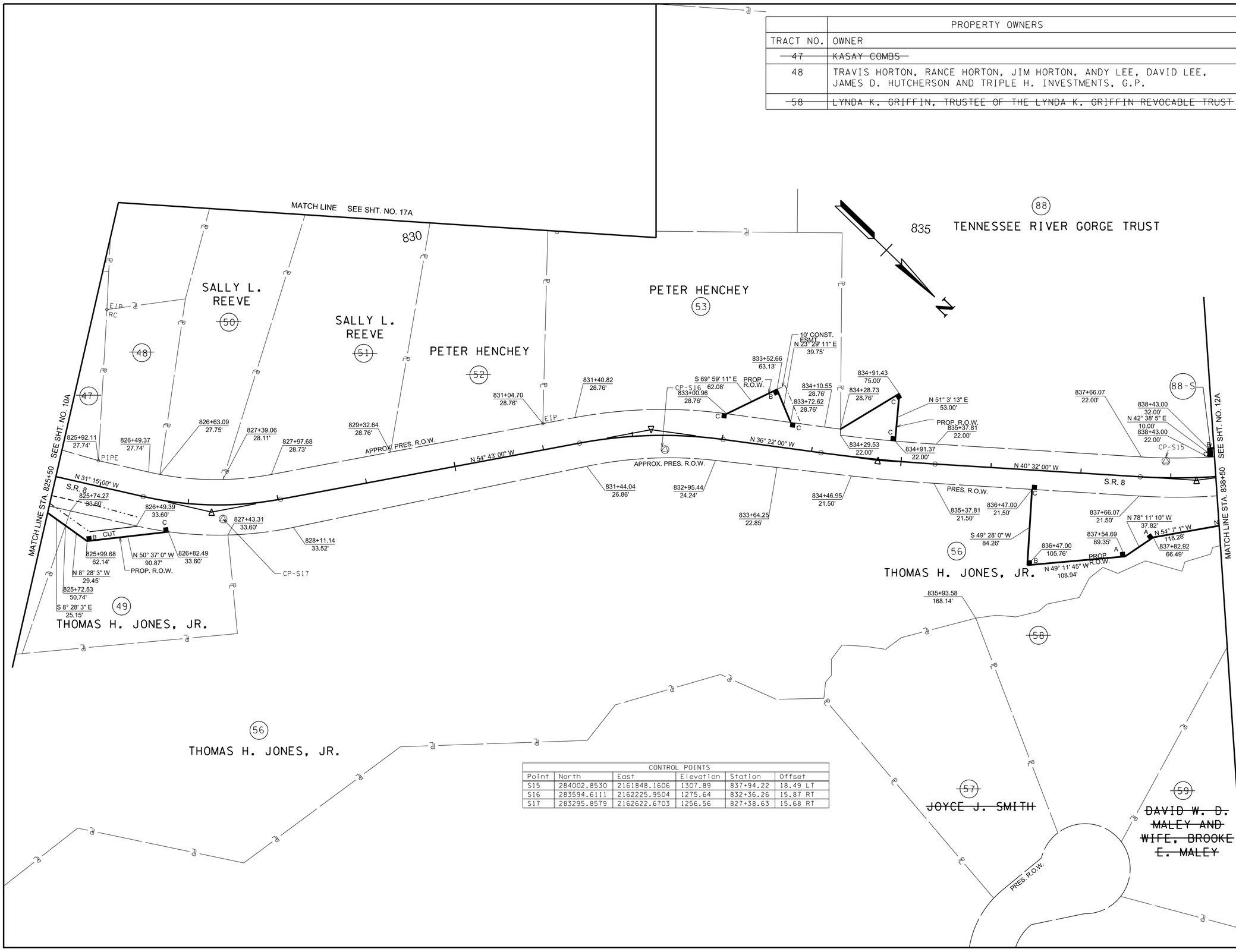
REV. 3-8-22: ADDED PROPOSED R.O.W. & CONSTRUCTION EASEMENT TO TRACT 53. REMOVED R.O.W. ACQUISITIONS FROM TRACT 47.

REV. 9-21-23: REPLACED TRACT NO. 54 WITH TRACT NO. 88. MODIFIED TRACT NO. 55. MODIFIED HAMILTON COUNTY/SIGNAL MOUNTAIN CITY LIMIT BOUNDARY.

REV. 3-19-24: REVISED PROPERTY OWNER NAMES FOR TRACTS 52 & 53.

REV. 11-22-24: REVISED TEMP. CONSTRUCTION EASEMENT TRACT 53.

REV. 5-26-26: ADDED TRACT 88-S AND PROP. ROW.



CONTROL POINTS					
Point	North	East	Elevation	Station	Offset
S15	284002.8530	2161848.1606	1307.89	837+94.22	18.49 LT
S16	283594.6111	2162225.9504	1275.64	832+36.26	15.87 RT
S17	283295.8579	2162622.6703	1256.56	827+38.63	15.68 RT

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 825+50 TO STA. 838+50
SCALE: 1"= 50'

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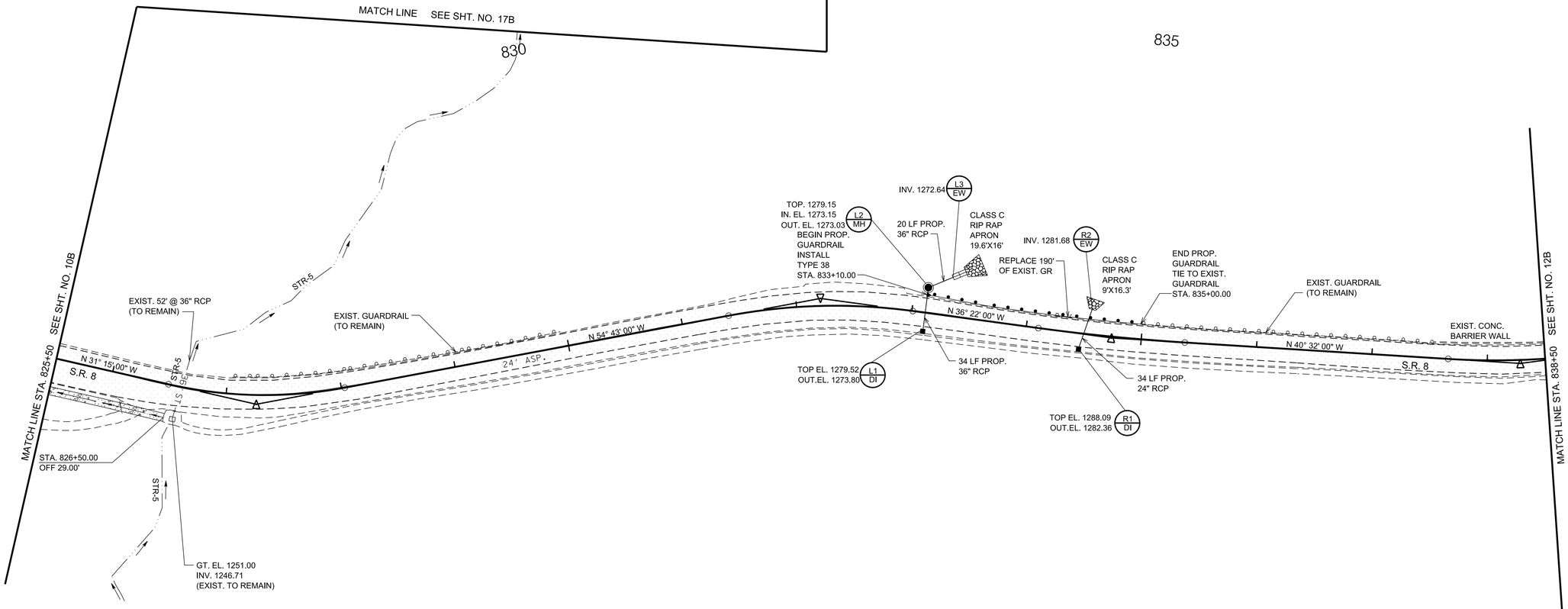
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	11B
PIH	2026	STP-8(52)	11B
PS&E	2026	STP-8(52)	11B

REV. 3-8-22: ADDED SERIES "L" DRAINAGE.



LEGEND

AREA TO BE COLD PLANED AND RESURFACED

ANY DITCH REPAIRS RELATED TO THE INSTALLATION OF L1 AND R1 ARE TO BE INCLUDED IN THE COST BID FOR THE STRUCTURES.

NOTE:
THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF STR-5 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 825+50 TO STA. 838+50
SCALE: 1"= 50'

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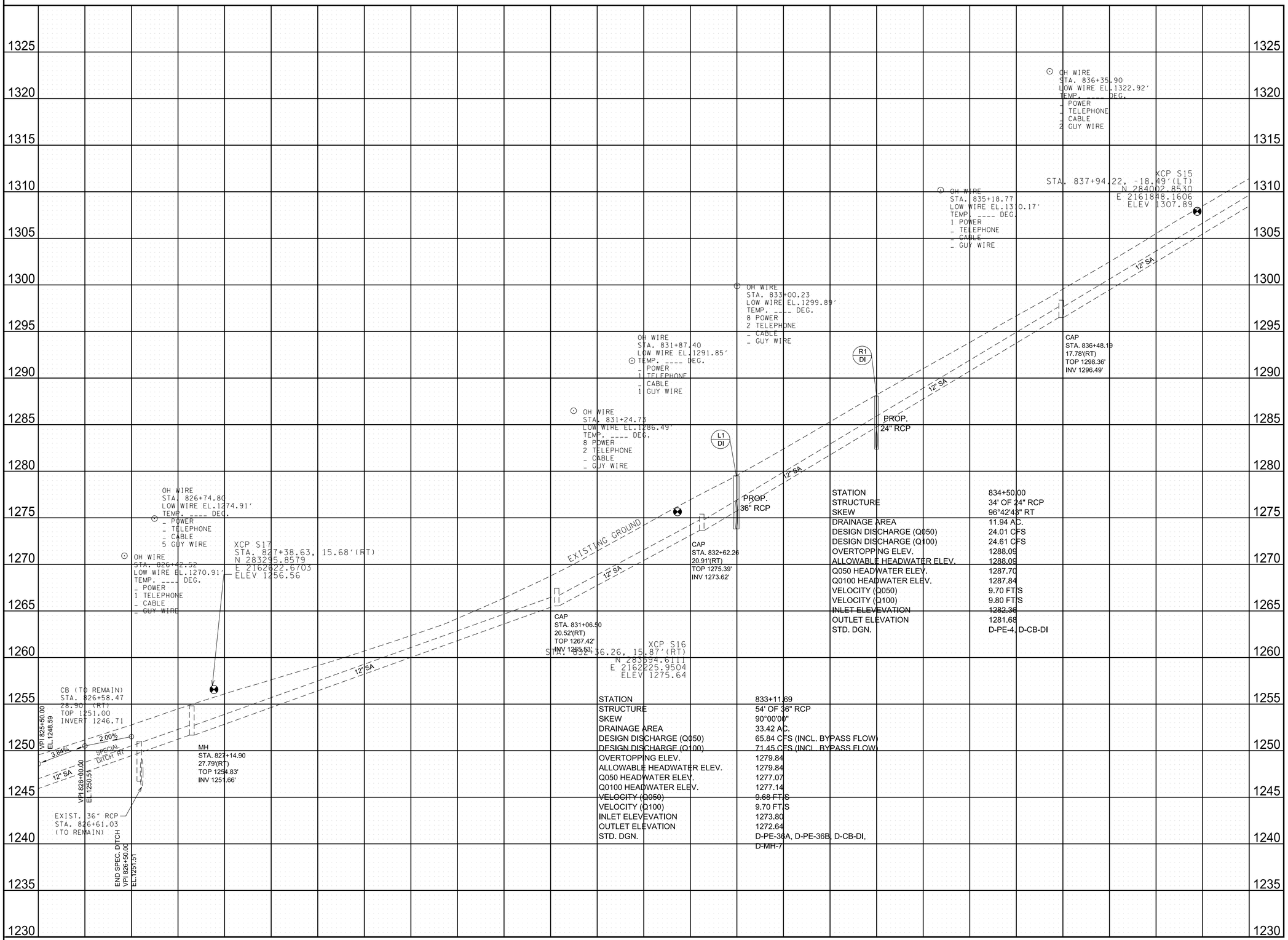
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	11C
PIH	2026	STP-8(52)	11C
PS&E	2026	STP-8(52)	11C

REV. 3-8-22: ADDED "L" SERIES DRAINAGE.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 825+50 TO STA. 838+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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CONTROL POINTS					
Point	North	East	Elevation	Station	Offset
S13	284803.1065	2161382.7084	1360.37	847+50.68	15.99 LT
S14	284446.0573	2161445.4861	1341.33	843+92.22	15.51 LT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	12
PIH	2026	STP-8(52)	12
PS&E	2026	STP-8(52)	12

REV. 9-21-23: ADDED TRACT NO. 88 AND MODIFIED TRACT NO. 55. MODIFIED HAMILTON COUNTY/SIGNAL MOUNTAIN CITY LIMIT BOUNDARY.

REV. 1-21-25: REMOVED TCE FROM TRACT 62. LINED OUT TRACT 62.

5-26-26: ADDED TRACT 55-S AND TRACT 88-S AND PROP. ROW.

845

CURVE SR8-45
PI 839+97.99
N 284,147.6400
E 2,161,706.8942
Δ 9° 38' 00" (RT)
D 8° 11' 06"
R 700.00
L 117.69
T 58.99
SE N/A
DS N/A

CURVE SR8-46
PI 842+30.85
N 284,321.2156
E 2,161,551.2448
Δ 6° 06' 00" (RT)
D 4° 46' 29"
R 1,200.00
L 127.76
T 63.94
SE N/A
DS N/A

CURVE SR8-47
PI 844+68.31
N 284,513.9520
E 2,161,412.3242
Δ 32° 21' 00" (RT)
D 13° 28' 53"
R 425.00
L 239.96
T 123.27
SE N/A
DS N/A

CURVE SR8-48
PI 847+36.75
N 284,788.4788
E 2,161,395.8540
Δ 9° 11' 00" (RT)
D 7° 38' 22"
R 750.00
L 120.21
T 60.23
SE N/A
DS N/A

CURVE SR8-49
PI 849+93.96
N 285,044.6548
E 2,161,421.6496
Δ 17° 44' 00" (RT)
D 14° 19' 26"
R 400.00
L 123.80
T 62.40
SE N/A
DS N/A

840

CURVE SR8-44
PI 838+28.56
N 284,041.9702
E 2,161,839.8187
Δ 10° 59' 00" (LT)
D 8° 48' 53"
R 650.00
L 124.60
T 62.49
SE N/A
DS N/A

850

N

88 TENNESSEE RIVER GORGE TRUST

55 TOWN OF SIGNAL MOUNTAIN

CHATANOOGA CITY LIMIT
SIGNAL MOUNTAIN

PROP. R.O.W.

WOODS

SEWER CAP
TOP-1335.91'
INV-1334.09'
INV-1334.02'
BOT-1334.02'

CP-S14

P/C

PT 845+85.00

EXIST. CONC. RETAINING WALL

PC 846+76.52

CP-S13

EXIST. CONC. RETAINING WALL

EXIST. CONC. RETAINING WALL

CURVE SR8-47

N 35° 47' 00" W

N 3° 26' 00" W

CURVE SR8-48

P/T/C

WOODS

SEWER CAP

PC 843+45.04

PT 842+94.87

SLOPE ESMT.
10' CONST. ESMT.

CURVE SR8-46

BLUFF

SEWER CAP
TOP-1348.13'
INV-1346.29'
INV-1346.22'
BOT-1346.22'

PC 841+86.91

CUT

PT 847+98.79

N 5° 45' 00" E

PC 849+31.56

55-S

STR-6
(SHOAL CREEK)

PROP. R.O.W.

STR-7

RIP RAP
12'X32'

INV-1373.08
(TO REMAIN)

EXIST. CONC. RETAINING WALL

PC 839+39.67

2' ASP.

P/T/C

PT 850+55.37

PC 851+38.65

88-S

24' ASP.

SR 8

CURVE SR8-45

CONC. DITCH

CONC. DITCH

CURVE SR8-49

SEWER CAP
TOP-1372.30'
INV-1370.44'
INV-1370.41'
BOT-1370.41'

PT 838+90.67

N 51° 31' 00" W

CURVE SR8-44

SEWER CAP
TOP-1316.99'
INV-1315.20'
INV-1315.13'
BOT-1315.13'

PT 840+56.69

CONC. WALL
EXIST. 42' @
18" CMP
(TO REMAIN)

CB
TOP-1378.85
INV-1376.44
(TO REMAIN)

R=1,123.29'
L=21.00'

STR-7

MATCH LINE STA. 838+50
SEE SHT. NO. 11

MATCH LINE STA. 851+50
SEE SHT. NO. 13

62 ~~WILLIAM GARDNER AND MICHELLE M. GARDNER~~

63 ~~M. SCOTT FERGUSON AND WIFE, MARGARET F. FERGUSON~~

64 ~~THOMAS F. LUTHRINGER~~

56 THOMAS H. JONES, JR.

SEWER CAP
TOP-1312.51'
INV-1310.73'
INV-1310.70'
BOT-1310.70'

POOL

2.5-S
STONE & FRAME

2-S
STONE & FRAME

2-S
BRICK & FRAME

3-S
BRICK & FRAME

2-S-F

~~CHARLES M. STAFFORD AND LINDA STAFFORD~~ 61

~~TAREEK A. KADRIE AND SPOUSE, JILL A KADRIE~~ 60

~~DAVID W. D. MALEY AND WIFE, BROOKE E. MALEY~~ 59

STONEPOINT LANE

ELP

P

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AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 838+50 TO STA. 851+50
SCALE: 1"= 50'

6/29/2026 5:04:40 PM
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CONTROL POINTS					
Point	North	East	Elevation	Station	Offset
S13	284803.1065	2161382.7084	1360.37	847+50.68	15.99 LT
S14	284446.0573	2161445.4861	1341.33	843+92.22	15.51 LT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	12A
PIH	2026	STP-8(52)	12A
PS&E	2026	STP-8(52)	12A

REV. 9-21-23: ADDED TRACT NO. 88 AND MODIFIED TRACT NO. 55. MODIFIED HAMILTON COUNTY/SIGNAL MOUNTAIN CITY LIMIT BOUNDARY.

REV. 1-21-25: REMOVED TCE FROM TRACT 62. LINED OUT TRACT 62.

5-26-26: ADDED TRACT 55-S AND TRACT 88-S AND PROP. ROW.

845

840

850

88

TENNESSEE RIVER GORGE TRUST

55

TOWN OF SIGNAL MOUNTAIN

55-S

PROP. R.O.W.

CP-S14

CP-S13

N 35° 47' 0" W 50.37'

842+94.67 22.00'

843+45.04 22.00'

844+12.54 62.00'

844+10.98 22.00'

844+47.46 62.00'

844+49.02 22.00'

845+85.00 22.00'

846+76.52 22.00'

847+96.73 22.00'

R=487.00' L=40.01'

N 65° 40' 13" E 40.04'

R=447.00' L=69.35'

R=447.00' L=143.02'

N 3° 26' 0" W 91.51'

R=772.00' L=123.74'

N 3° 26' 00" W

N 24° 32' 0" W 70.30'

R=250.00' L=92.07'

N 3° 26' 0" W 94.15'

R=732.50' L=117.40'

N 5° 45' 0" E 134.84'

N 5° 45' 00" E

N 5° 55' 0" E 100.30'

R=1222.00' L=130.10'

N 41° 53' 0" W 110.22' APPROX. PRES. R.O.W.

N 41° 53' 00" W

PRES. R.O.W. N 41° 53' 0" W 158.11'

R=630.00' L=190.77'

CUT

SLOPE ESMT. 10' CONST. ESMT.

N 69° 49' 4" E 81.40'

N 69° 49' 4" E 248.13'

N 38° 19' 4" E 233.42'

S 83° 55' 56" E 330.00'

S 80° 10' 56" E 214.95'

N 70° 19' 8" E 190.00'

N 70° 19' 8" E 215.01'

S 8° 30' 56" E 145.62'

R=50.00' L=22.00'

R=130.50' L=90.00'

R=130.50' L=82.89'

R=50.00' L=69.50'

R=130.00' L=390.00'

PRES. R.O.W.

R=618.00' L=45.33'

N 51° 31' 0" W 34.46'

838+90.67 32.00'

838+90.67 22.00'

N 51°31'0" W 5.00'

839+34.00 22.00'

S 38° 29' 0" W 10.00'

839+34.00 32.00'

N 51° 31' 0" W 8.87'

839+25.13 32.00'

S 67° 41' 49" E 35.89'

839+39.00 22.00'

R=722.00' L=121.39'

S.R. 8

R=628.00' L=46.05'

N 51° 31' 00" W

L=45.33'

MATCH LINE STA. 838+50 SEE SHT. NO. 11A

840+56.69 22.00'

841+66.91 22.00'

841+55.00 21.50'

842+15.65 20.53'

841+55.00 54.22'

844+11.94 26.79'

844+86.07 23.43'

845+82.25 17.49'

846+76.52 17.50'

847+96.73 17.50'

849+31.56 22.00'

850+20.00 73.56'

N 71° 34' 56" W 51.56'

R=422.00' L=93.30' APPROX. PRES. R.O.W.

850+20.00 22.00'

850+55.37 22.00'

N 19° 11' 55" E 235.79'

R=422.00' L=37.37'

851+36.69 22.00'

L=381.32'

N 23° 29' 00" E

N 23°29'0" E 81.33'

851+12.81 20.11'

S.R. 8

SEE SHT. NO. 13A

MATCH LINE STA. 851+50

840+53.93 50.36'

840+56.69 A 21.50'

S 40° 51' 37" E 64.90'

840+90.11 53.06'

S 37° 35' 14" E 36.08'

S 25° 29' 43" E 24.00'

840+29.42 43.09'

S 46° 16' 0" E 64.40'

839+60.81 42.35'

S 71° 43' 20" E 48.10'

839+39.00 21.50'

838+90.67 21.50'

839+14.34 59.28'

N 32° 56' 8" W 25.06'

838+90.67 51.30'

840+64.36 151.84'

PROPERTY LINE AT TOP OF BLUFF

R=671.50' L=128.72'

S 64° 7' 1" W 116.28'

SC70

SL3

SL57 SL54 SL52 SL51 SL55 SL50 SL53 SL56 SL58 SL62 SL63 SL60 SL61 SL59 SL65 SL64 SL66 SL67 SL68 SL69 SL70 SL71 SL72 SL73 SL74 SL75 SL76 SL77 SL78 SL49 SL47 SL46 SL45 SL44 SL43 SL42 SL41 SL40 SL39 SL38 SL37 SL36 SL35 SL34 SL33 SL32 SL31 SL30

843+99.63 126.78'

62

~~WILLIAM GARDNER AND MICHELLE M. GARDNER~~

63

~~M. SCOTT FERGUSON AND WIFE, MARGARET F. FERGUSON~~

64

~~THOMAS F. LUTHRINGER~~

61

~~CHARLES M. STAFFORD AND LINDA STAFFORD~~

60

~~TAREEK A. KADRIE AND SPOUSE, JILL A KADRIE~~

59

~~DAVID W. D. MALEY AND WIFE, BROOKE E. MALEY~~

56

THOMAS H. JONES, JR.

PROPERTY LINE	DIRECTION	DISTANCE
LINE SL60	S 59° 23' 56" E	33.27'
LINE SL61	S 16° 48' 6" W	17.82'
LINE SL62	S 18° 48' 33" E	6.89'
LINE SL63	S 47° 54' 19" E	15.63'
LINE SL64	N 87° 19' 43" E	42.09'
LINE SL65	S 39° 10' 25" E	14.68'
LINE SL66	S 26° 18' 58" E	46.08'
LINE SL67	S 84° 9' 55" E	83.46'
LINE SL68	N 84° 0' 5" E	53.87'
LINE SL69	S 68° 58' 23" E	3.65'
LINE SL70	S 6° 50' 47" W	13.19'
LINE SL71	S 51° 54' 25" W	8.49'
LINE SL72	S 17° 31' 48" W	46.23'
LINE SL73	S 27° 27' 7" W	23.11'
LINE SL74	S 2° 41' 28" E	19.61'
LINE SL75	S 10° 39' 25" W	15.87'
LINE SL76	S 6° 14' 31" W	49.20'
LINE SL77	S 27° 59' 30" W	14.21'
LINE SL78	S 56° 32' 14" E	14.58'
LINE SL30	S 16° 39' 25" W	114.81'
LINE SL31	S 14° 51' 5" W	146.52'
LINE SL32	S 11° 42' 0" W	60.08'
LINE SL33	S 7° 56' 13" W	45.05'
LINE SL34	S 53° 38' 39" W	27.77'
LINE SL35	N 58° 13' 34" W	14.23'
LINE SL36	S 36° 34' 0" W	12.30'
LINE SL37	S 68° 30' 59" E	35.33'
LINE SL38	S 47° 22' 5" E	26.40'

PROPERTY LINE	DIRECTION	DISTANCE
LINE SL39	S 2° 5' 1" W	37.48'
LINE SL40	S 36° 0' 26" W	42.02'
LINE SL41	S 23° 11' 51" W	24.74'
LINE SL42	S 10° 37' 29" E	13.43'
LINE SL43	S 9° 5' 45" E	27.92'
LINE SL44	S 33° 57' 26" E	20.60'
LINE SL45	S 2° 47' 58" W	43.75'
LINE SL46	S 11° 43' 29" W	39.42'
LINE SL47	S 9° 55' 55" E	77.12'
LINE SL48	S 32° 24' 47" E	13.86'
LINE SL49	N 69° 49' 4" E	81.40'
LINE SL50	S 5° 16' 29" W	14.23'
LINE SL51	S 38° 35' 56" E	56.26'
LINE SL52	S 24° 27' 19" E	5.24'
LINE SL53	S 17° 47' 33" W	16.09'
LINE SL54	S 29° 39' 45" E	10.81'
LINE SL55	S 12° 10' 49" E	23.23'
LINE SL56	N 87° 14' 32" E	23.50'
LINE SL57	S 26° 15' 0" E	13.30'
LINE SL58	N 38° 35' 16" E	10.08'
LINE SL59	S 72° 57' 13" E	23.59'

SEALED BY

JAMES FRITZ BROGDON REGISTERED ENGINEER AGRICULTURE COMMERCE TENNESSEE

6/29/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 838+50 TO STA. 851+50
SCALE: 1"= 50'

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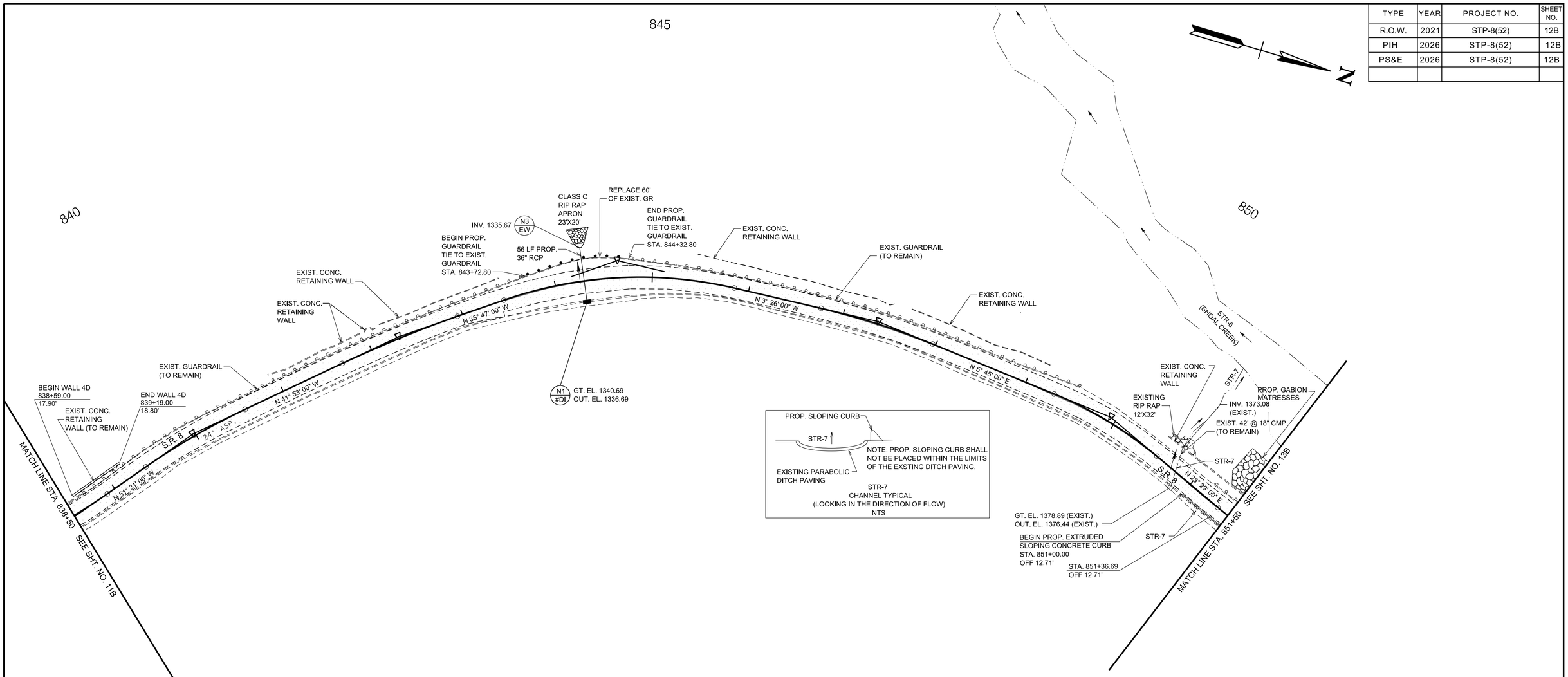
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	12B
PIH	2026	STP-8(52)	12B
PS&E	2026	STP-8(52)	12B



NOTE:
EXTRUDED SLOPING CONCRETE CURB SHALL BE DOWELED INTO THE EXISTING SHOULDER. DOWELS SHALL DEFORMED #4 BARS INSTALLED 5' O.C. DOWELS SHALL BE SECURED IN DRILLED HOLES WITH EPOXY CEMENT.

NOTE:
THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF STR-6 AND STA-7 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

LEGEND

AREA TO BE COLD PLANED AND RESURFACED

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JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 838+50 TO STA. 851+50
SCALE: 1"=50'

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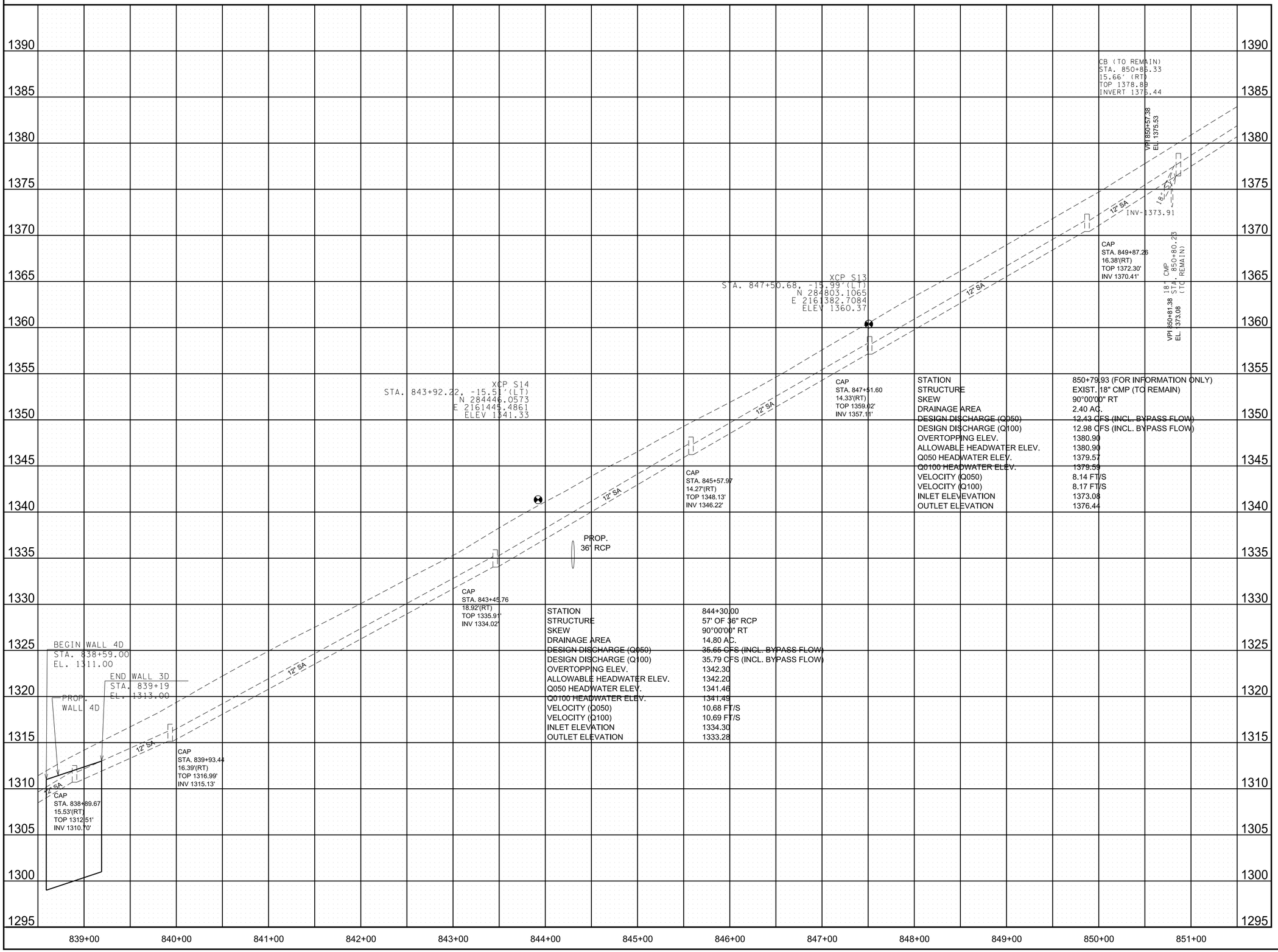
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	12C
PIH	2026	STP-8(52)	12C
PS&E	2026	STP-8(52)	12C



STATION	850+79.93 (FOR INFORMATION ONLY)
STRUCTURE	EXIST. 18" CMP (TO REMAIN)
SKEW	90°00'00" RT
DRAINAGE AREA	2.40 AC.
DESIGN DISCHARGE (Q050)	12.43 CFS (INCL. BYPASS FLOW)
DESIGN DISCHARGE (Q100)	12.98 CFS (INCL. BYPASS FLOW)
OVERTOPPING ELEV.	1380.90
ALLOWABLE HEADWATER ELEV.	1380.90
Q050 HEADWATER ELEV.	1379.57
Q0100 HEADWATER ELEV.	1379.59
VELOCITY (Q050)	8.14 FT/S
VELOCITY (Q100)	8.17 FT/S
INLET ELEVEVATION	1373.08
OUTLET ELEVATION	1376.44

STATION	844+30.00
STRUCTURE	57' OF 36" RCP
SKEW	90°00'00" RT
DRAINAGE AREA	14.80 AC.
DESIGN DISCHARGE (Q050)	35.65 CFS (INCL. BYPASS FLOW)
DESIGN DISCHARGE (Q100)	35.79 CFS (INCL. BYPASS FLOW)
OVERTOPPING ELEV.	1342.30
ALLOWABLE HEADWATER ELEV.	1342.20
Q050 HEADWATER ELEV.	1341.46
Q0100 HEADWATER ELEV.	1341.49
VELOCITY (Q050)	10.68 FT/S
VELOCITY (Q100)	10.69 FT/S
INLET ELEVATION	1334.30
OUTLET ELEVATION	1333.28

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AGRICULTURE
COMMERCE
STATE OF TENNESSEE

6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 838+50 TO STA. 851+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	13
PIH	2026	STP-8(52)	13
PS&E	2026	STP-8(52)	13

REV. 9-21-23: ADDED 10' CONST ESMT. TO TRACT NO. 56.

REV. 11-22-24: REVISED STREAM 10 LEADER BY ADDING WWC-14 / EPH-14 & STR-10.

REV. 5-26-26: ADDED TRACT 55-S AND PROP. ROW.

CURVE SR8-51
PI 854+73.68
N 285,509.9787
E 2,161,498.3895
Δ 22° 31' 00" (RT)
D 12° 27' 20"
R 460.00
L 180.78
T 91.57
SE N/A
DS N/A

CURVE SR8-53
PI 858+24.71
N 285,839.1810
E 2,161,626.6954
Δ 7° 01' 18" (LT)
D 57° 17' 45"
R 100.00
L 12.26
T 6.14
SE N/A
DS N/A

855

860

STA. 858+60.84 S.R. 8 =
STA. 60+00.00 SHOAL CREEK RD.
N 285872.9206
E 2161639.6807

55
TOWN OF SIGNAL MOUNTAIN

55-S

PROP. R.O.W.

INV-1385.45
(TO REMAIN)

CONC. WALL

CP-S12

P/T/C

PT 852+67.33

PC 853+82.11

PT 855+62.88

WOODS

STR-6 (SHOAL CREEK)

BEGIN STR-6 IMPACT
858+53.55
26.74

END STR-6 IMPACT
858+50.55
26.74

PC 858+06.32

PC 858+18.57

PT 859+30.83

EXIST.
118'-0" @ 11.5'X 10.3'
BOX CULV.
(TO REMAIN)

SAN MH
TOP-1422.96
INV(A)-1418.36
INV(B)-1418.36
INV(C)-1416.76

SAN MH
TOP-1428.02
INV(A)-1422.92
INV(B)-1422.82

CP-S11

INV.-1411.33

POT 859+84.05

PC 860+64.45

PT 861+69.15

WOODS

STR-10

SAN MH
TOP-1442.56
INV(A)-1437.16
INV(B)-1437.06

SAN MH
TOP-1451.08
INV(A)-1446.28
INV(B)-1446.28

10' CONST. ESMT.

CP-S10

PT 863+54.33

PC 863+87.40

STR-10

71

CURVE SR8-50

CURVE SR8-51

CURVE SR8-52

CURVE SR8-53

CURVE SR8-54

CURVE SR8-55

CURVE SR8-56

N 1° 28' 00" W

N 21° 03' 00" E

N 44° 26' 29" E

N 23° 21' 30" E

S.R. 8

SEWER CAP
TOP-1416.67'
INV-1412.67'
INV-1411.66'
INV-1411.66'
BOT-1411.66'

STR-9

STR-8

10' CONST. ESMT.

STR-7A

WWC-13

STR-7

STR-6 (SHOAL CREEK)

HAMILTON COUNTY WATER AND WASTEWATER TREATMENT AUTHORITY

WOODS

PROP. R.O.W.

SHOAL CREEK RD.

N 32° 15' 17" E

CURVE SHOAL CREEK RD-1

STR-11

STR-12

DITCH

END HIGH FORCE MAIN

N 54° 39' 00" E

MATCH LINE STA. 851+50 SEE SHT. NO. 12

MATCH LINE STA. 864+50 SEE SHT. NO. 14

MILE POST 16

CB
TOP-1390.95
INV-1388.44
(CAPPED - TO REMAIN)

SEWER CAP
TOP-1388.50'
INV-1386.71'
INV-1386.69'
BOT-1386.69'

GRND. 1393.75
INV. 1392.14
(DUCT. IRON)

56
THOMAS H. JONES, JR.

BLUFF

MH
TOP-1435.99
INV(A)-1426.19

DIR.

PC 61+21.97

GRND. 1422.47
INV. 1420.72
(DUCT. IRON)

SAN MH
TOP-1421.95
INV(A)-1416.25
INV(B)-1416.25, OUTSIDE DROP INV-1419.95
INV(C)-1416.15

GRND. 1430.39
INV. 1428.70
(DUCT. IRON)

PT 62+83.75

POT 63+18.74

SEWER CAP

INV-1437.68
(PLUG & ABANDON)

GUY

CONC. DITCH

69

64
~~THOMAS F. LUTHRINGER~~

65
~~ROBERT R. RIESE & JENNIFER PAIGE REISE~~

66
~~WILLIAM CARL STEELE, III & HARRIET SUSAN STEELE~~

67
~~JUDITH G. ZWICKNAGEL & PAUL J. ZWICKNAGEL~~

CURVE SR8-50
PI 852+03.06
N 285,237.3514
E 2,161,505.3698
Δ 24° 57' 00" (LT)
D 19° 05' 55"
R 300.00
L 130.64
T 66.37
SE N/A
DS N/A

CURVE SHOAL CREEK RD-1
PI 62+03.14
N 286,017.9542
E 2,161,781.9139
Δ 11° 35' 13" (LT)
D 7° 09' 43"
R 800.00
L 161.78
T 81.17
SE N/A
DS N/A

68
DAVID O. EASON & MARCIA J. EASON

HOUSE OUTSIDE SURVEY LIMIT

ROCK CREST DRIVE

CURVE SR8-52
PI 858+12.45
N 285,828.3540
E 2,161,620.9212
Δ 7° 01' 18" (RT)
D 57° 17' 45"
R 100.00
L 12.26
T 6.14
SE N/A
DS N/A

CURVE SR8-54
PI 860+66.80
N 286,065.1323
E 2,161,713.6563
Δ 1° 18' 30" (RT)
D 27° 52' 52"
R 205.50
L 4.69
T 2.35
SE N/A
DS N/A

CURVE SR8-55
PI 862+64.51
N 286,247.9827
E 2,161,788.8660
Δ 32° 34' 30" (RT)
D 17° 37' 46"
R 325.00
L 184.78
T 94.96
SE N/A
DS N/A

CURVE SR8-56
PI 864+89.53
N 286,380.2154
E 2,161,977.2469
Δ 22° 01' 00" (RT)
D 10° 54' 49"
R 525.00
L 201.74
T 102.13
SE N/A
DS N/A

CONTROL POINTS

Point	North	East	Elevation	Station	Offset
S10	286336.0466	2161889.2402	1449.49	863+91.99	14.43 LT
S11	285991.7807	2161663.4136	1428.27	859+80.26	20.56 LT
S12	285384.8374	2161486.2608	1394.85	853+48.89	15.33 LT

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 851+50 TO STA. 864+50
SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	13A
PIH	2026	STP-8(52)	13A
PS&E	2026	STP-8(52)	13A

REV. 9-21-23: ADDED 10' CONST ESMT. TO TRACT NO. 56.

REV. 5-26-26: ADDED TRACT 55-S AND PROP. ROW.

R.O.W. LINE	DIRECTION	DISTANCE
LINE 1	N 17° 53' 54" W	19.92'
LINE 2	N 72° 06' 06" E	29.00'
LINE 3	N 17° 53' 54" W	28.88'

855

860

STA. 858+60.84 S.R. 8 =
STA. 60+00.00 SHOAL CREEK RD.
N 285872.9206
E 2161639.6807

55

TOWN OF SIGNAL MOUNTAIN

PROP. R.O.W.

55-S

N 19° 11' 55" E
235.79'

N 1° 28' 0" W
12.67'

852+67.33
22.00'

852+80.00
61.74'

N 1° 28' 0" W
114.78'

N 88° 32' 0" E
39.74'

852+80.00
22.00'

CP-S12

R=278.00'
L=121.06'

S.R. 8

N 1° 28' 0" W
114.78'

R=321.00'
L=163.69'

852+67.33
21.00'

853+82.11
22.00'

R=482.00'
L=189.42'

855+62.88
22.00'

N 21° 3' 0" E
243.44'

N 63° 17' 36" W
16.58'

R=78.00'
L=9.56'

858+18.57
22.00'

858+32.46
38.50'

R=1335.00'
L=131.80'

859+64.05
32.00'

CP-S11

R=9032.00'
L=206.23'
APPROX. PRES. R.O.W.

861+69.55
32.00'

N 54° 56' 0" E
65.12'

R=312.50'
L=177.67'

863+32.12
25.82'

N 54° 56' 0" E
49.27'

863+95.12
25.06'

10' CONST. ESMT.

CP-S10

864+41.95
27.98'

71

R=214.00'
L=40.03'

N 21° 3' 0" E
149.74'

855+62.88
21.00'

PRES. R.O.W.

857+12.35
21.00'

853+82.11
21.00'

R=439.00'
L=172.52'

N 21° 03' 00" E

858+06.32
22.00'

858+09.90
26.40'

R=122.00'
L=14.85'

N 21° 03' 00" E

R=860.00'
L=96.80'

N44°40'19"E
57.41'

10' CONST. ESMT.

858+61.61
47.95'

N 22° 21' 30" E

N 44° 26' 29" E

N 35° 47' 0" W
50.37'

860+07.41
23.10'

R=8977.00'
L=161.61'

861+69.55
23.00'

R=302.00'
L=169.96'

863+52.46
23.00'

S.R. 8

L=1.74'

863+54.33
23.00'

N 22° 24' 4" W
317.29'

N 20° 50' 47" W
321.04'

863+82.95
23.00'

4.45

PROP. R.O.W.

863+45.59
41.93'

N 54° 56' 0" E
28.62'

APPROX. PRES. R.O.W.

R=802.00'
L=192.90'

863+87.40
23.00'

863+74.42
50.59'

69

SHOAL CREEK RD.

N 32° 51' 17" E

S 83° 29' 56" E
101.83'

SL14

N 44° 40' 19" E
79.32'

APPROX. PRES. R.O.W.

MATCH LINE STA. 851+50 SEE SHT. NO. 12A

MATCH LINE STA. 864+50 SEE SHT. NO. 14A

56

THOMAS H. JONES, JR.

SL30 SL29 SL28 SL27 SL26 SL25 SL24 SL23 SL22 SL21 SL20 SL19 SL18 SL17 SL16 SL15

64

~~THOMAS F. LUTHRINGER~~

65

~~ROBERT R. RIESE & JENNIFER PAIGE REISE~~

66

~~WILLIAM CARL STEELE, III & HARRIET SUSAN STEELE~~

67

~~JUDITH G. ZWICKNAGEL & PAUL J. ZWICKNAGEL~~

N 77° 54' 36" W
170.00'

S 81° 45' 36" E
100.62'

S 83° 29' 56" E
300.36'

N 83° 29' 56" W
370.99'

S 83° 28' 56" E
395.00'

S 30° 52' 27" E
296.05'

68

DAVID O. EASON & MARCIA J. EASON

R=245.36'
L=110.00'

CONTROL POINTS					
Point	North	East	Elevation	Station	Offset
S10	286336.0466	2161889.2402	1449.49	863+91.99	14.43 LT
S11	285991.7807	2161663.4136	1428.27	859+80.26	20.56 LT
S12	285384.8374	2161486.2608	1394.85	853+48.89	15.33 LT

PROPERTY LINE	DIRECTION	DISTANCE
LINE SL14	S 83° 29' 56" E	101.83'
LINE SL15	S 37° 4' 40" W	109.22'
LINE SL16	S 0° 37' 59" W	72.39'
LINE SL17	S 67° 57' 14" W	29.53'
LINE SL18	S 21° 53' 53" W	103.97'
LINE SL19	S 1° 48' 45" E	24.48'
LINE SL20	S 45° 27' 57" E	10.63'
LINE SL21	S 15° 25' 3" E	45.04'
LINE SL22	S 24° 7' 52" E	50.21'
LINE SL23	S 27° 26' 39" E	29.23'
LINE SL24	N 83° 29' 56" W	84.64'
LINE SL25	S 7° 25' 19" E	55.68'
LINE SL26	S 4° 4' 26" W	46.78'
LINE SL27	S 36° 7' 2" W	44.77'
LINE SL28	S 41° 41' 22" W	31.77'
LINE SL29	S 3° 48' 58" W	59.50'
LINE SL30	S 16° 39' 25" W	114.81'

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JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 851+50 TO STA. 864+50
SCALE: 1"= 50'

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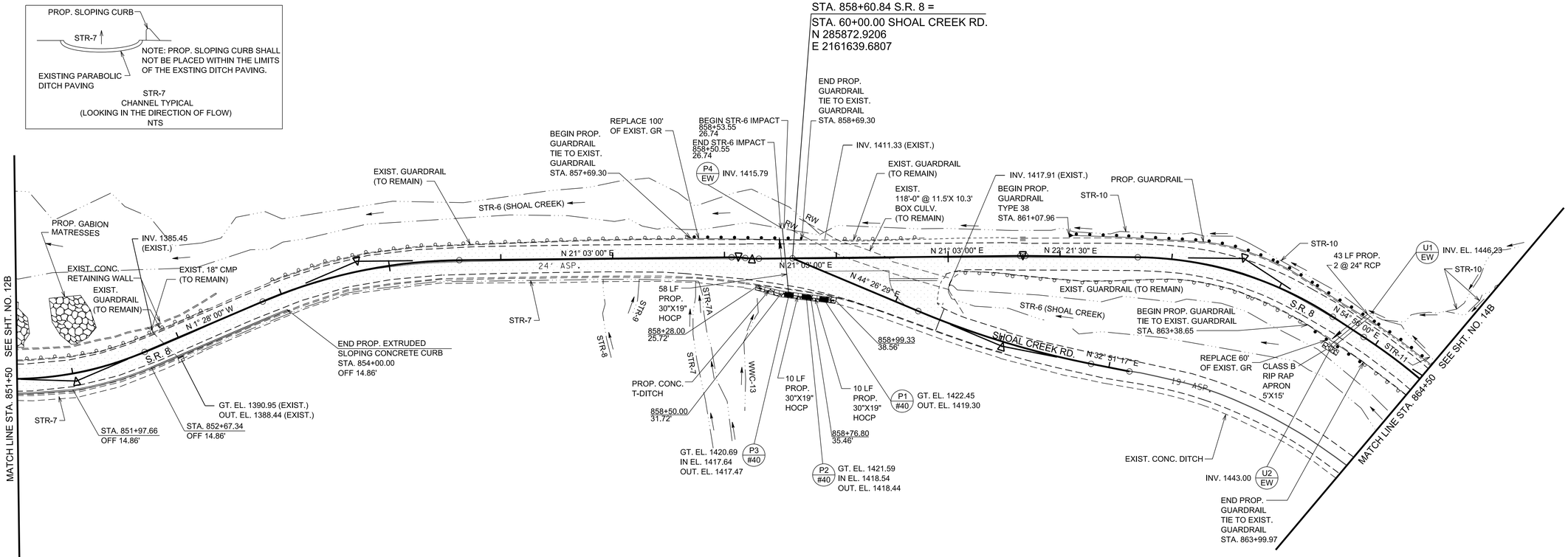
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	13B
PIH	2026	STP-8(52)	13B
PS&E	2026	STP-8(52)	13B

REV. 9-21-23: MODIFIED "P" SERIES DRAINAGE. ADDED SPECIAL DITCH AND RETAINING WALL.

REV. 4-23-25: REMOVED WALL 9 AND ADJUSTED SPECIAL DITCH OFFSETS.



NOTE:
EXTRUDED SLOPING CONCRETE CURB SHALL BE DOWELED INTO THE EXISTING SHOULDER. DOWELS SHALL DEFORMED #4 BARS INSTALLED 5' O.C. DOWELS SHALL BE SECURED IN DRILLED HOLES WITH EPOXY CEMENT.

ANY DITCH REPAIRS RELATED TO THE INSTALLATION OF P1 TO P3 ARE TO BE INCLUDED IN THE COST BID FOR THE STRUCTURES.

NOTE:
THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF STR-6, STR-7, STR-7A, STR-8, STR-9, STR-10, AND STR-11 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

LEGEND

AREA TO BE COLD PLANED AND RESURFACED

SEALED BY

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 851+50 TO STA. 864+50
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	13C
PIH	2026	STP-8(52)	13C
PS&E	2026	STP-8(52)	13C

REV. 9-21-23: ADDED "P" SERIES DRAINAGE AND SPECIAL DITCH.

REV. 4-23-25: REMOVED WALL 9.

STA. 858+60.84 S.R. 8 (SIGNAL MOUNTAIN RD.)
STA. 60+00.00 SHOAL CREEK RD.
N 285872.9206
E 2161639.6807

XCP S11
STA. 859+80.26, -20.56'(LT)
N 285991.7807
E 2161663.4136
ELEV 1428.27

OH WIRE
STA. 862+39.15
LOW WIRE EL.1461.41'
TEMP. ____ DEG.
_ POWER
1 TELEPHONE
_ CABLE
_ GUY WIRE

OH WIRE
STA. 862+83.77
LOW WIRE EL.1459.25'
TEMP. ____ DEG.
1 POWER
2 TELEPHONE
_ CABLE
_ GUY WIRE

OH WIRE
STA. 861+40.09
LOW WIRE EL.1453.34'
TEMP. ____ DEG.
_ POWER
1 TELEPHONE
_ CABLE
_ GUY WIRE

STA. 863+91.99, -14.43'(LT)
N 286336.0466
E 2161889.2402
ELEV 1449.49

XCP S10

MH
STA. 864+35.68
18.52' (LT)
TOP 1451.08
INVERT 1446.28

PROP. 3' x 3'
BOX CULV.

STA 863+87.43
EXISTING 24" CMP
(PLUG & ABANDON)
SKEW 71°40'12" LT
FLOWS RIGHT
INLET NOT FOUND
OUTLET 1437.68

MH
STA. 862+32.18
24.42' (LT)
TOP 1442.56
INVERT 1437.06

STATION	863+74.88
STRUCTURE	42' OF 2 @ 24" RCP
SKEW	72°49'54" RT
DRAINAGE AREA	93.40 AC.
DESIGN DISCHARGE (Q050)	145.95 CFS
DESIGN DISCHARGE (Q100)	162.29 CFS
OVERTOPPING ELEV.	1448.80
ALLOWABLE HEADWATER ELEV.	1448.65
Q050 HEADWATER ELEV.	1449.30
Q0100 HEADWATER ELEV.	1449.33
VELOCITY (Q050)	7.50 FT/S
VELOCITY (Q100)	7.57 FT/S
INLET ELEVEVATION	1446.06
OUTLET ELEVATION	1443.11
STD. DGN.	D-PE-4

MH
STA. 858+72.89
63.19' (LT)
TOP 1422.96
INVERT 1416.76

MH
STA. 858+62.48
27.27' (RT)
TOP 1421.99
INVERT 1416.15

P1 #40
P2 #40
P3 #40

SPECIAL DITCH RT

INV-1420.72

INV-1418.36

PROP. 30"X19" HOCP

MH
STA. 859+73.56
25.59' (LT)
TOP 1428.02
INVERT 1422.82

VPI 858+28.00
EL. 1418.90

VPI 858+50.00
EL. 1420.32

VPI 858+56.54
EL. 1420.69

8" SANITARY SEWER
STA 858+65.67

VPI 859+00.00
EL. 1425.09

STA 859+32.12
EXISTING 11.5'X 10.3' BOX CULV. (TO REMAIN)
SKEW 19°23'30" RT
FLOWS LEFT
INLET 1417.91
OUTLET 1411.33

MH
STA.857+72.45
23.05' (RT)
TOP 1416.67'
INV 1411.66'

STATION	858+56.54
STRUCTURE	58' OF 30"X19" HOCP
SKEW	90°00'00" RT
DRAINAGE AREA	33.08 AC.
DESIGN DISCHARGE (Q050)	64.04 CFS
DESIGN DISCHARGE (Q100)	70.53 CFS
OVERTOPPING ELEV.	1421.65
ALLOWABLE HEADWATER ELEV.	1421.89
Q050 HEADWATER ELEV.	1419.71
Q0100 HEADWATER ELEV.	1420.07
VELOCITY (Q050)	12.25 FT/S
VELOCITY (Q100)	12.50 FT/S
INLET ELEVATION	1413.77
OUTLET ELEVATION	1412.26

XCP S12
STA. 853+48.89, -15.33'(LT)
N 285384.8874
E 2161486.2508
ELEV 1394.85

CB (TO REMAIN)
STA. 852+94.77
18.91' (RT)
TOP 1390.95
INVERT 1388.44

INV-1385.45

CAP
STA. 852+45.93
19.57'(RT)
TOP 1388.50'
INV 1386.69'

18" CMP
STA. 852+86.21
(TO REMAIN)

STATION	852+86.21 (FOR INFORMATION ONLY)
STRUCTURE	EXIST. 18" CMP (CAPPED - TO REMAIN)
SKEW	90°00'00" RT
DRAINAGE AREA	9.27 AC.
DESIGN DISCHARGE (Q050)	0.00 CFS
DESIGN DISCHARGE (Q100)	0.00CFS
OVERTOPPING ELEV.	1392.04
ALLOWABLE HEADWATER ELEV.	1392.04
Q050 HEADWATER ELEV.	N/A
Q0100 HEADWATER ELEV.	N/A
VELOCITY (Q050)	N/A
VELOCITY (Q100)	N/A
INLET ELEVATION	1388.44
OUTLET ELEVATION	1385.45

EXISTING GROUND

12" SA
18" SA
8" SA

5.66% 6.67% 5.66% 5.66% 5.66%

1460 1455 1450 1445 1440 1435 1430 1425 1420 1415 1410 1405 1400 1395 1390 1385 1380 1375 1370 1365

852+00 853+00 854+00 855+00 856+00 857+00 858+00 859+00 860+00 861+00 862+00 863+00 864+00

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 851+50 TO STA. 864+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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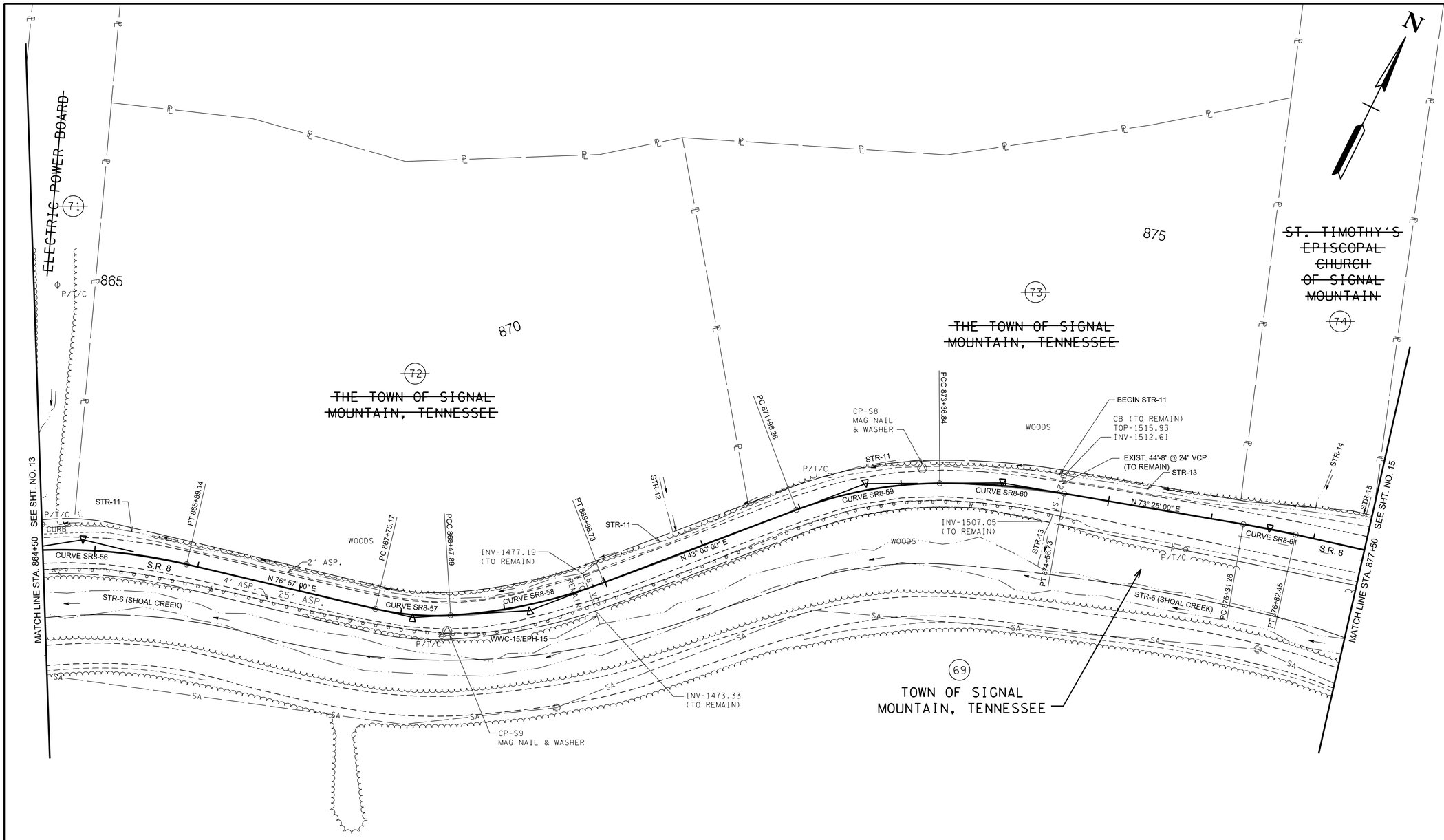
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	14
PIH	2026	STP-8(52)	14
PS&E	2026	STP-8(52)	14



CURVE SR8-56	CURVE SR8-57	CURVE SR8-58	CURVE SR8-59	CURVE SR8-60	CURVE SR8-61
PI 864+89.53	PI 868+11.79	PI 869+23.89	PI 872+67.31	PI 873+96.94	PI 876+56.86
N 286,380.2154	N 286,453.5513	N 286,509.3722	N 286,761.3791	N 286,820.1176	N 286,894.3903
E 2,161,977.2469	E 2,162,293.6398	E 2,162,391.4441	E 2,162,626.4444	E 2,162,743.6833	E 2,162,993.0911
Δ 22° 01' 00" (RT)	Δ 16° 39' 54" (LT)	Δ 17° 17' 06" (LT)	Δ 20° 23' 18" (RT)	Δ 10° 01' 42" (RT)	Δ 2° 56' 00" (RT)
D 10° 54' 49"	D 22° 55' 06"	D 11° 27' 33"	D 14° 30' 19"	D 8° 21' 52"	D 5° 43' 46"
R 525.00	R 250.00	R 500.00	R 395.00	R 685.00	R 1,000.00
L 201.74	L 72.72	L 150.84	L 140.56	L 119.89	L 51.20
T 102.13	T 36.62	T 76.00	T 71.03	T 60.10	T 25.60
SE N/A	SE N/A	SE N/A	SE N/A	SE N/A	SE N/A
DS N/A	DS N/A	DS N/A	DS N/A	DS N/A	DS N/A

CONTROL POINTS

Point	North	East	Elevation	Station	Offset
S8	286798.5475	2162668.5773	1508.94	873+20.71	14.70 LT
S9	286456.6586	2162329.3021	1472.15	868+44.01	15.01 RT

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 864+50 TO STA. 877+50
SCALE: 1"=50'

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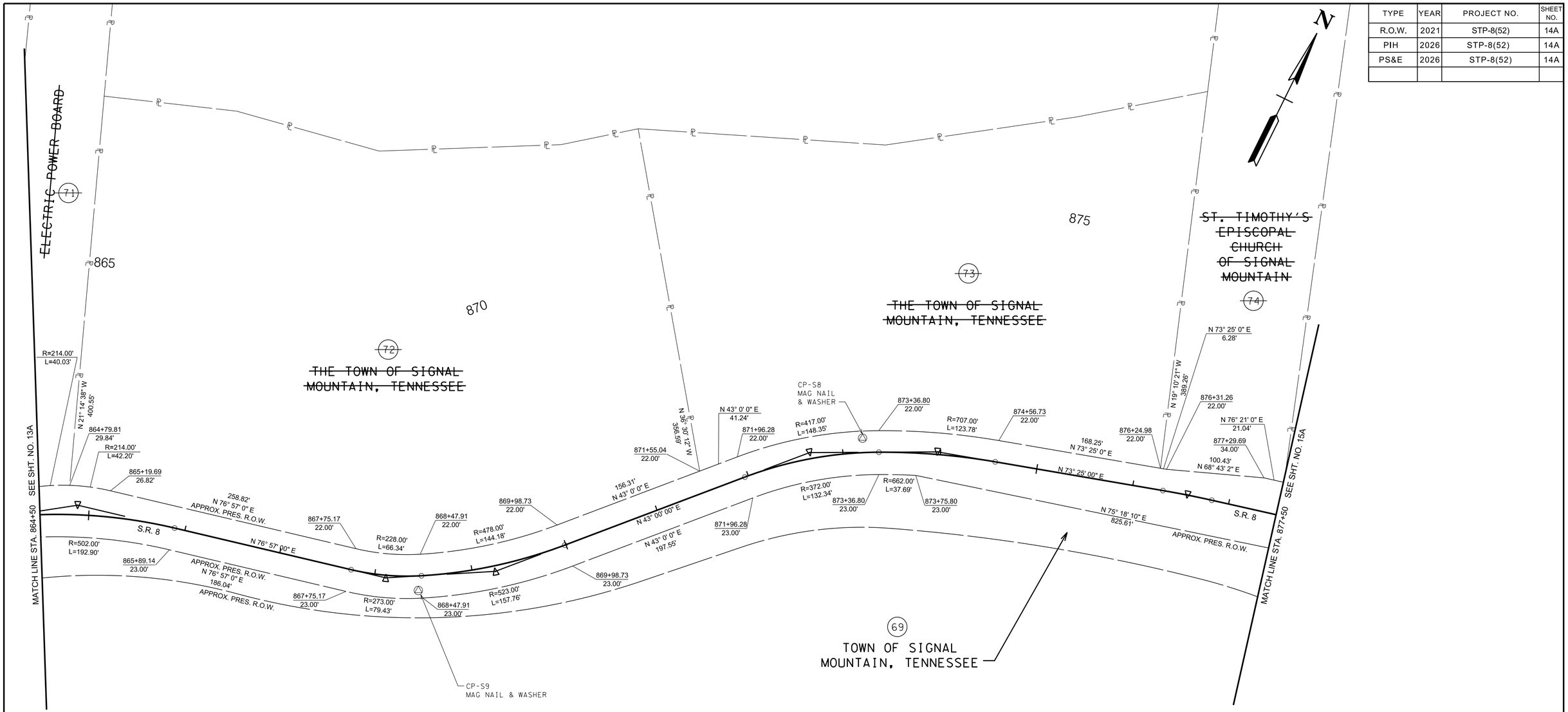
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	14A
PIH	2026	STP-8(52)	14A
PS&E	2026	STP-8(52)	14A



CONTROL POINTS					
Point	North	East	Elevation	Station	Offset
S8	286798.5475	2162668.5773	1508.94	873+20.71	14.70 LT
S9	286456.6586	2162329.3021	1472.15	868+44.01	15.01 RT

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 864+50 TO STA. 877+50
SCALE: 1"= 50'

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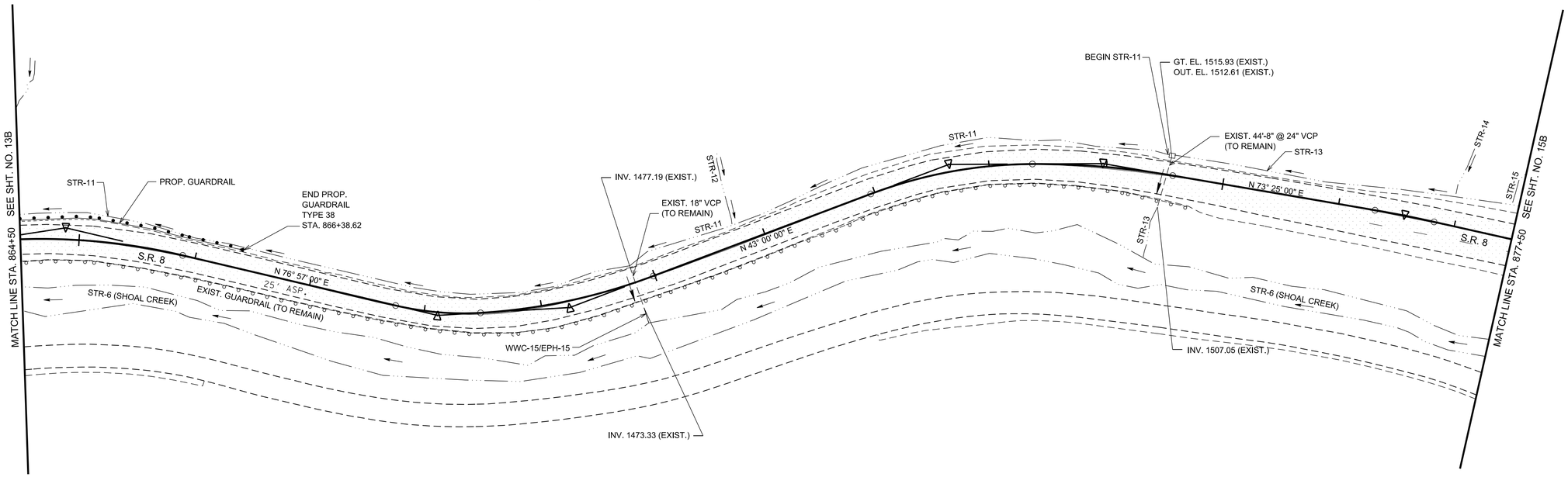
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	14B
PIH	2026	STP-8(52)	14B
PS&E	2026	STP-8(52)	14B



LEGEND

AREA TO BE COLD PLANED AND RESURFACED

NOTE:
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 864+50 TO STA. 877+50
SCALE: 1"= 50'

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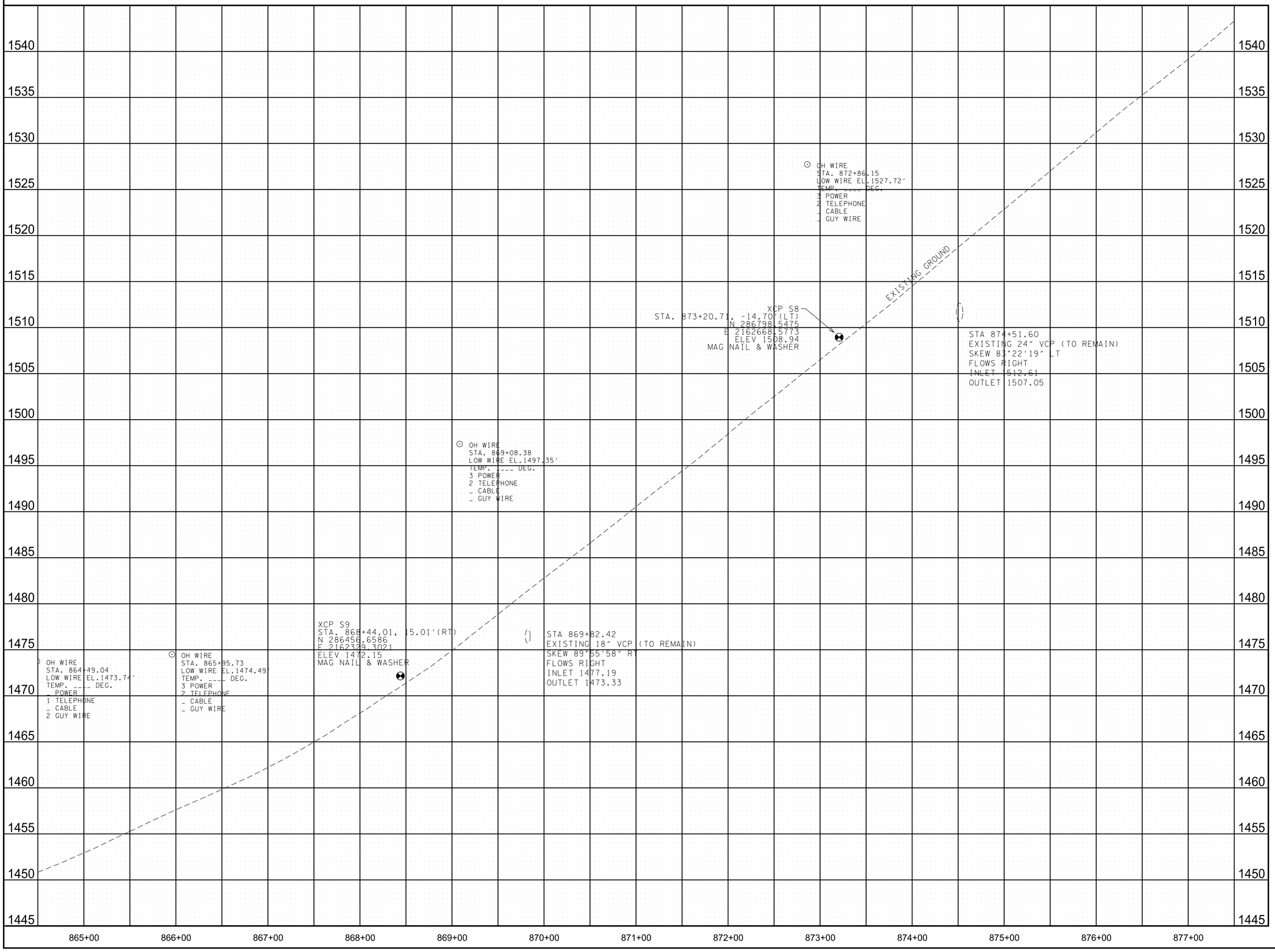
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	14C
PIH	2026	STP-8(52)	14C
PS&E	2026	STP-8(52)	14C



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 864+50 TO STA. 877+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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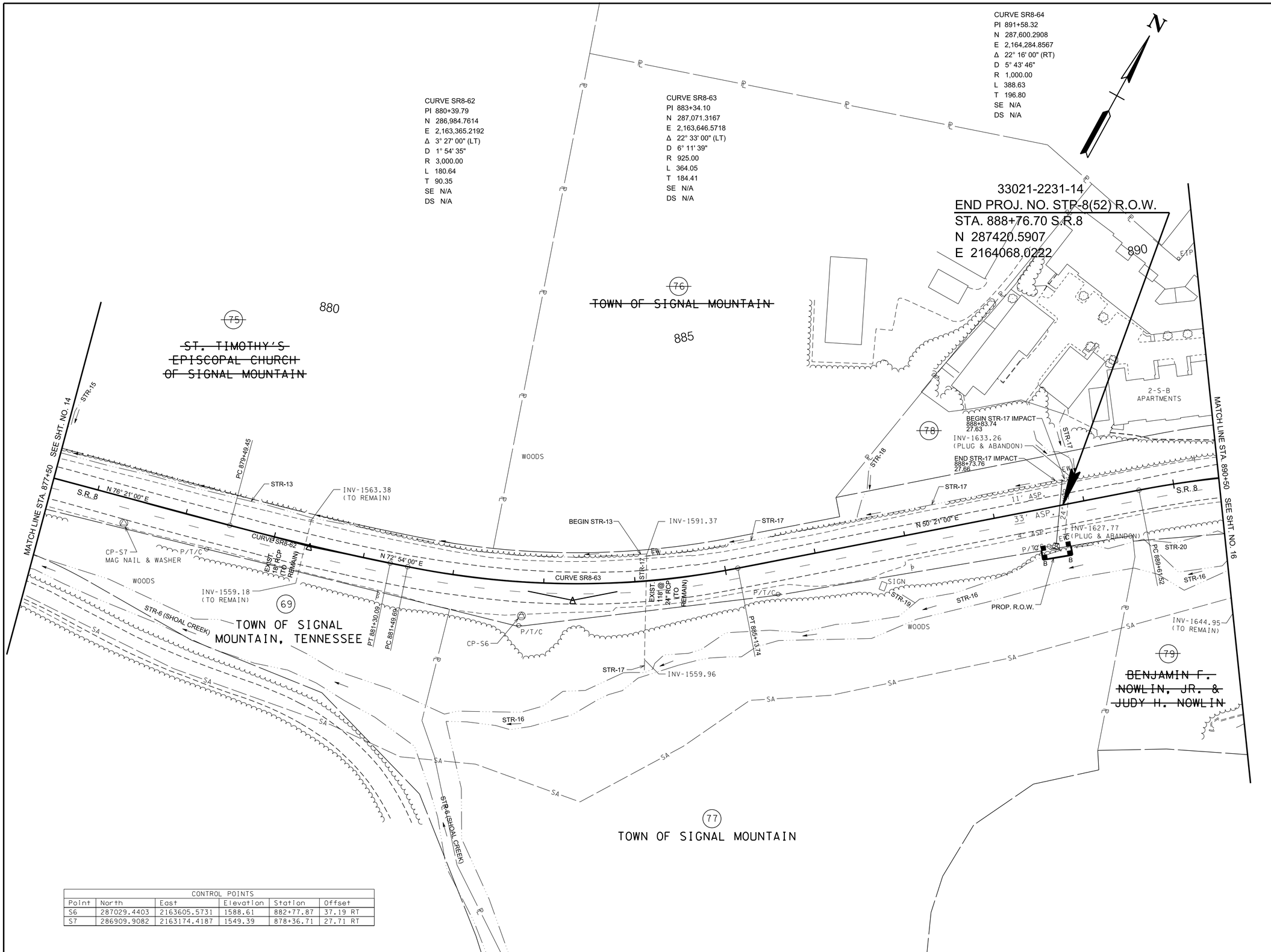
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	15
PIH	2026	STP-8(52)	15
PS&E	2026	STP-8(52)	15



CONTROL POINTS					
Point	North	East	Elevation	Station	Offset
S6	287029.4403	2163605.5731	1588.61	882+77.87	37.19 RT
S7	286909.9082	2163174.4187	1549.39	878+36.71	27.71 RT

SEALED BY

JAMES FRITZ BROGDON REGISTERED ENGINEER AGRICULTURE COMMERCE

6/29/2026

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DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 877+50 TO STA. 890+50
SCALE: 1"= 50'

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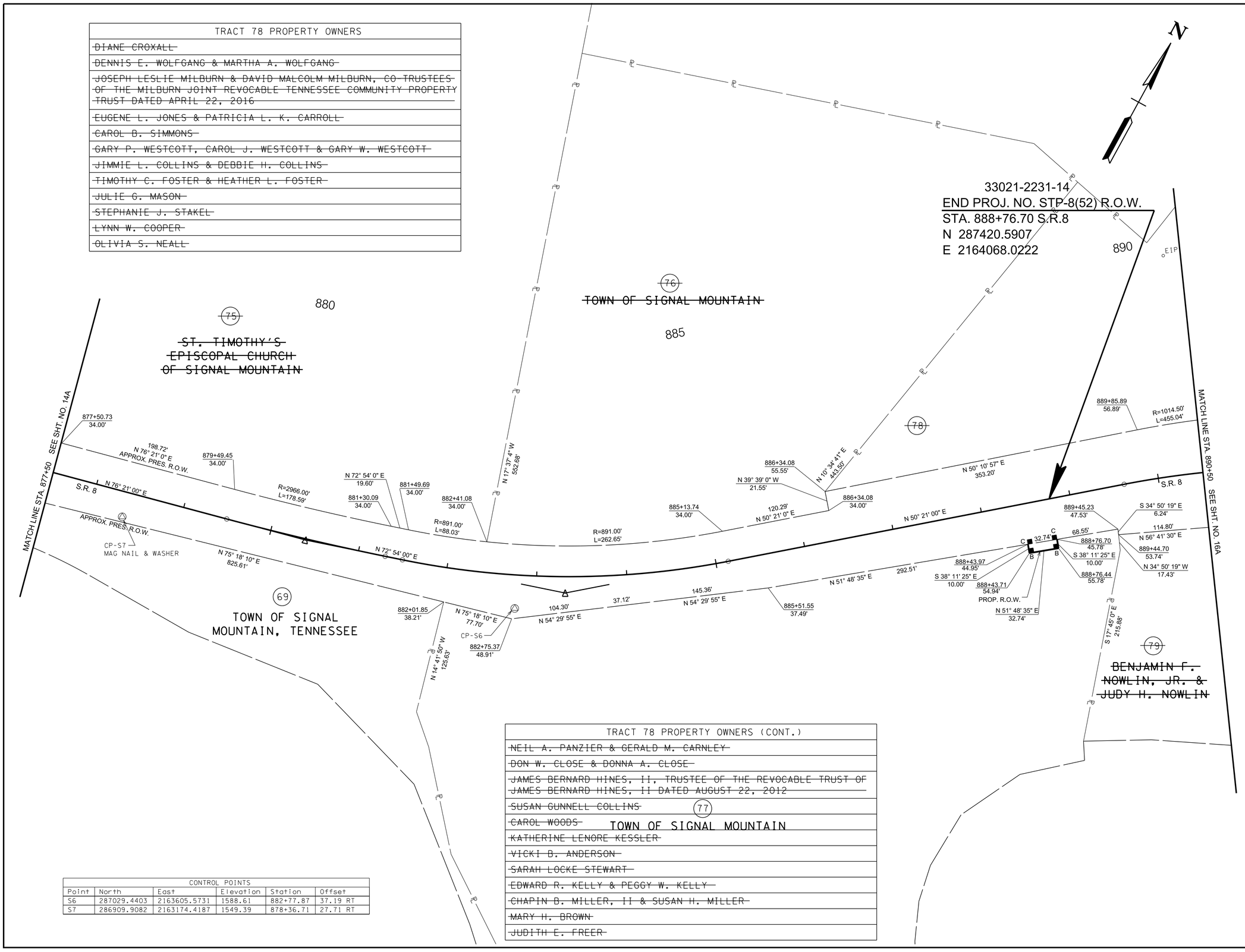
TRACT 78 PROPERTY OWNERS
~~DIANE CROXALL~~
~~DENNIS E. WOLFGANG & MARTHA A. WOLFGANG~~
~~JOSEPH LESLIE MILBURN & DAVID MALCOLM MILBURN, CO-TRUSTEES OF THE MILBURN JOINT REVOCABLE TENNESSEE COMMUNITY PROPERTY TRUST DATED APRIL 22, 2016~~
~~EUGENE L. JONES & PATRICIA L. K. CARROLL~~
~~CAROL B. SIMMONS~~
~~GARY P. WESTCOTT, CAROL J. WESTCOTT & GARY W. WESTCOTT~~
~~JIMMIE L. COLLINS & DEBBIE H. COLLINS~~
~~TIMOTHY C. FOSTER & HEATHER L. FOSTER~~
~~JULIE G. MASON~~
~~STEPHANIE J. STAKEL~~
~~LYNN W. COOPER~~
~~OLIVIA S. NEALL~~

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	15A
PIH	2026	STP-8(52)	15A
PS&E	2026	STP-8(52)	15A



TRACT 78 PROPERTY OWNERS (CONT.)
~~NEIL A. PANZIER & GERALD M. CARNLEY~~
~~DON W. CLOSE & DONNA A. CLOSE~~
~~JAMES BERNARD HINES, II, TRUSTEE OF THE REVOCABLE TRUST OF JAMES BERNARD HINES, II DATED AUGUST 22, 2012~~
~~SUSAN GUNNELL COLLINS~~
~~CAROL WOODS~~
~~KATHERINE LENORE KESSLER~~
~~VICKI B. ANDERSON~~
~~SARAH LOCKE STEWART~~
~~EDWARD R. KELLY & PEGGY W. KELLY~~
~~CHAPIN B. MILLER, II & SUSAN H. MILLER~~
~~MARY H. BROWN~~
~~JUDITH E. FREER~~

CONTROL POINTS					
Point	North	East	Elevation	Station	Offset
S6	287029.4403	2163605.5731	1588.61	882+77.87	37.19 RT
S7	286909.9082	2163174.4187	1549.39	878+36.71	27.71 RT

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 877+50 TO STA. 890+50
SCALE: 1"= 50'

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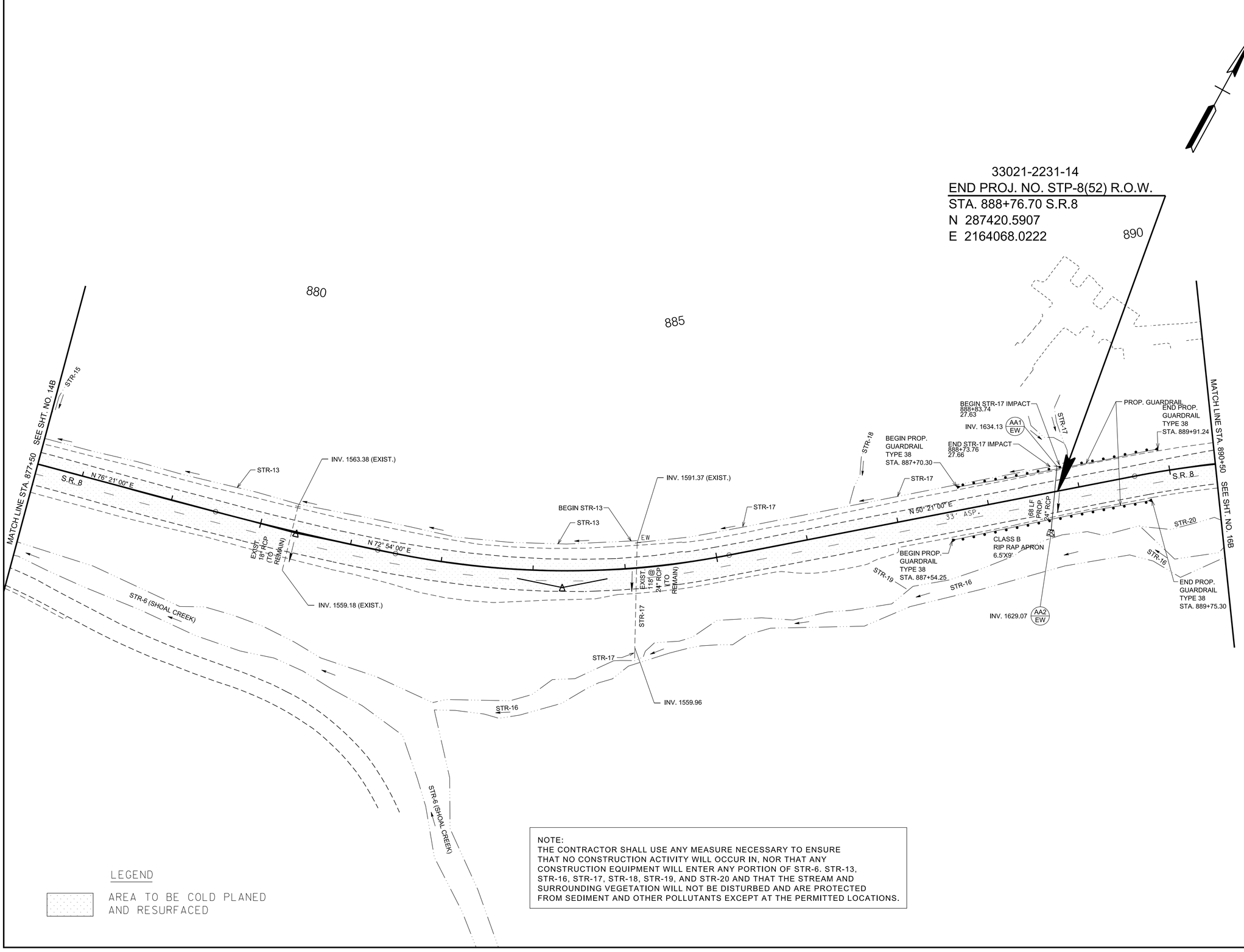
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	15B
PIH	2026	STP-8(52)	15B
PS&E	2026	STP-8(52)	15B



LEGEND

AREA TO BE COLD PLANED AND RESURFACED

NOTE:
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DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 877+50 TO STA. 890+50
SCALE: 1"= 50'

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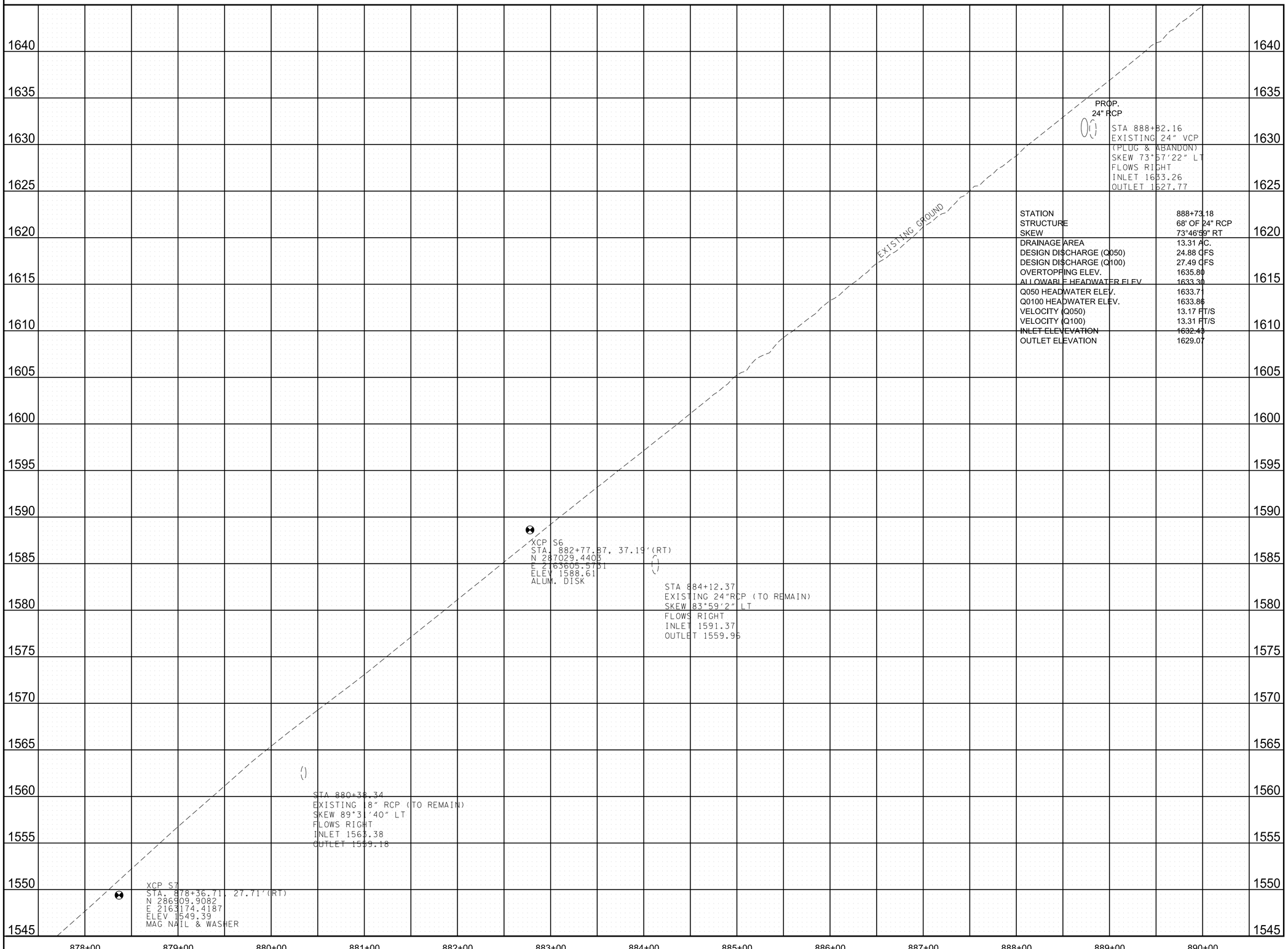
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	15C
PIH	2026	STP-8(52)	15C
PS&E	2026	STP-8(52)	15C



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 877+50 TO STA. 890+50

SCALE: 1"=50' HORIZ.
1"=5' VERT.

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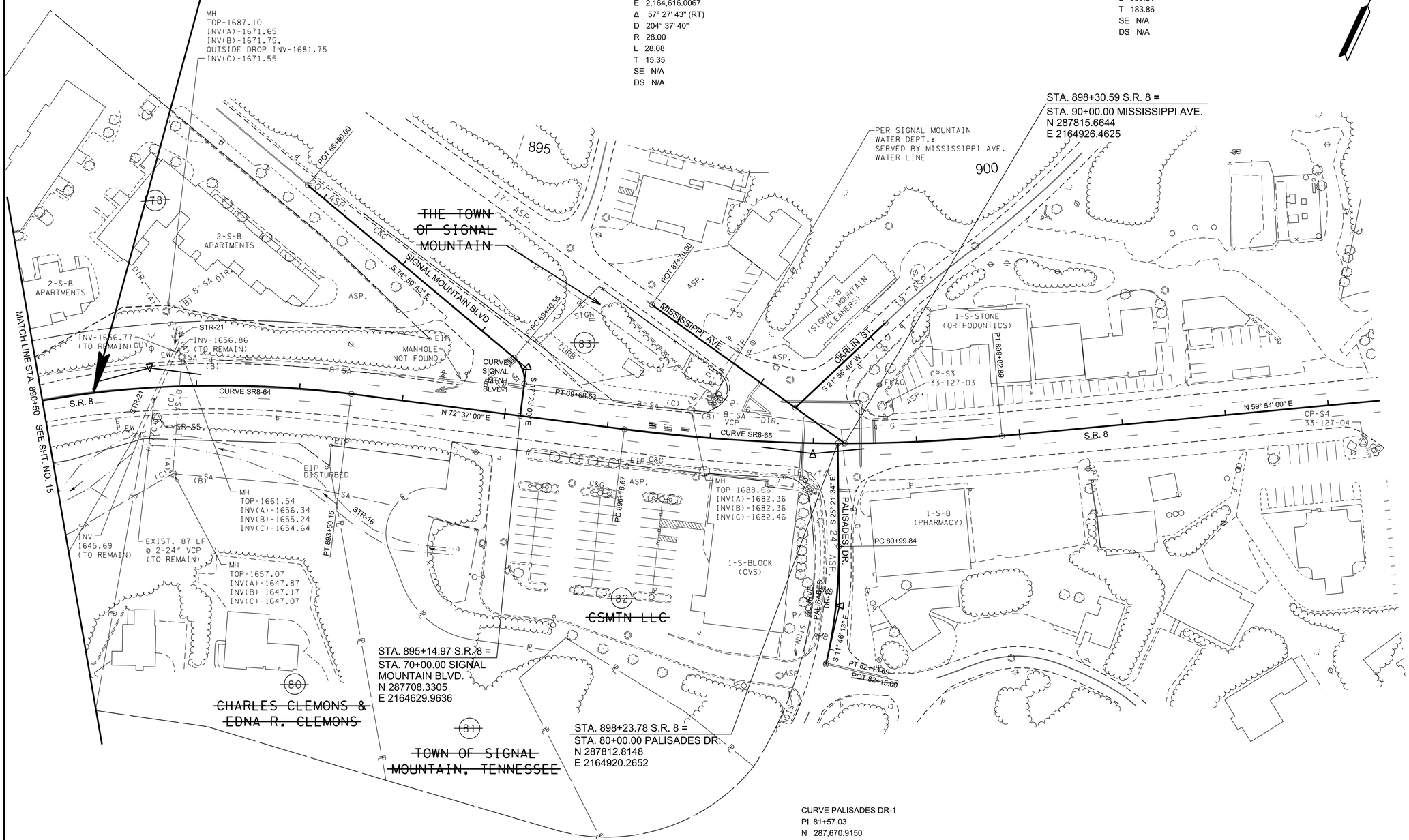
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	16
PIH	2026	STP-8(52)	16
PS&E	2026	STP-8(52)	16

33021-3231-14
END PROJ. NO. STP-8(52) CONST.
STA. 891+00.00
N 287555.4249
E 2164245.7213

CURVE SIGNAL MTN BLVD-1
PI 69+55.90
N 287,752.9125
E 2,164,616.0067
Δ 57° 27' 43" (RT)
D 204° 37' 40"
R 28.00
L 28.08
T 15.35
SE N/A
DS N/A

CURVE SR8-65
PI 898+00.53
N 287,793.6449
E 2,164,902.4800
? 12° 43' 00" (LT)
D 3° 28' 21"
R 1,650.00
L 366.21
T 183.86
SE N/A
DS N/A

STA. 898+30.59 S.R. 8 =
STA. 90+00.00 MISSISSIPPI AVE.
N 287815.6644
E 2164926.4625



STA. 895+14.97 S.R. 8 =
STA. 70+00.00 SIGNAL MOUNTAIN BLVD.
N 287708.3305
E 2164629.9636

STA. 898+23.78 S.R. 8 =
STA. 80+00.00 PALISADES DR.
N 287812.8148
E 2164920.2652

CURVE PALISADES DR-1
PI 81+57.03
N 287,670.9150
E 2,164,987.5209
Δ 13° 35' 21" (RT)
D 11° 56' 12"
R 480.00
L 113.84
T 57.19
SE N/A
DS N/A

CONTROL POINTS

Point	North	East	Elevation	Station	Offset
S3	287863.6979	2164944.0900	1702.35	898+67.55	35.80 LT
S4	288026.5421	2165381.7637	1735.99	903+30.47	38.87 RT
S5	287559.6183	2164311.3712	1654.48	891+59.82	29.21 RT

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.890+50 TO STA.898+23.78
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	16A
PIH	2026	STP-8(52)	16A
PS&E	2026	STP-8(52)	16A

33021-3231-14
END PROJ. NO. STP-8(52) CONST.
STA. 891+00.00
N 287555.4249
E 2164245.7213

N

STA. 898+30.59 S.R. 8 =
STA. 90+00.00 MISSISSIPPI AVE.
N 287815.6644
E 2164926.4625

895

900

MATCH LINE STA. 890+50
SEE SHT. NO. 15A

78

THE TOWN OF SIGNAL MOUNTAIN

SIGNAL MOUNTAIN BLVD

S 74° 50' 43" E

MISSISSIPPI AVE.

CARLIN ST.

S 21° 56' 40" W

R=1014.50'
L=455.04'

APPROX. PRES. R.O.W.

894+18.57
62.68'

EIP

N 21° 32' 23" E
81.42'

RL

83

N 72° 37' 0" E
12.43'

896+16.67
25.00'

R=1625.00'
L=78.39'

896+04.24
25.00'

896+96.26
25.00'

S 17° 23' 00" E

CP-S3
33-127-03

CP-S4
33-127-04

N 59° 54' 00" E

S.R. 8

N56°41'30"E
114.80'

CP-S5

R=885.11'
L=12.95'

N 72° 37' 00" E

894+53.07
33.25'

893+36.56
51.89'

N 66° 55' 47" E
150.20'

102.80'
N 72° 47' 55" E
APPROX. PRES. R.O.W.

N 72° 47' 55" E
170.70'

EIP

N 49° 7' 8" E
76.46'

891+45.18
48.78'

893+03.53
52.78'

S 78° 13' 57" E
37.26'

EIP
DISTURBED

N 17° 12' 5" W
19.00'

894+53.01
52.25'

896+23.63
33.81'

R=1463.38'
L=152.90'

897+73.44
33.89'

R=25.00'
L=35.85'

890+65.35
61.37'

S 14° 42' 5" E
287.36'

N 21° 4' 9" W
20.03'

893+37.65
71.89'

S 34° 53' 14" E
309.04'

S 25° 21' 34" E

PALISADES DR.

S 11° 46' 13" E

82

CSMTN LLC

STA. 895+14.97 S.R. 8 =
STA. 70+00.00 SIGNAL
MOUNTAIN BLVD.
N 287708.3305
E 2164629.9636

80

CHARLES CLEMONS &
EDNA R. CLEMONS

81

TOWN OF SIGNAL
MOUNTAIN, TENNESSEE

STA. 898+23.78 S.R. 8 =
STA. 80+00.00 PALISADES DR.
N 287812.8148
E 2164920.2652

CONTROL POINTS					
Point	North	East	Elevation	Station	Offset
S3	287863.6979	2164944.0900	1702.35	898+67.55	35.80 LT
S4	288026.5421	2165381.7637	1735.99	903+30.47	38.87 RT
S5	287559.6183	2164311.3712	1654.48	891+59.82	29.21 RT

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 890+50 TO STA. 903+50
SCALE: 1"= 50'

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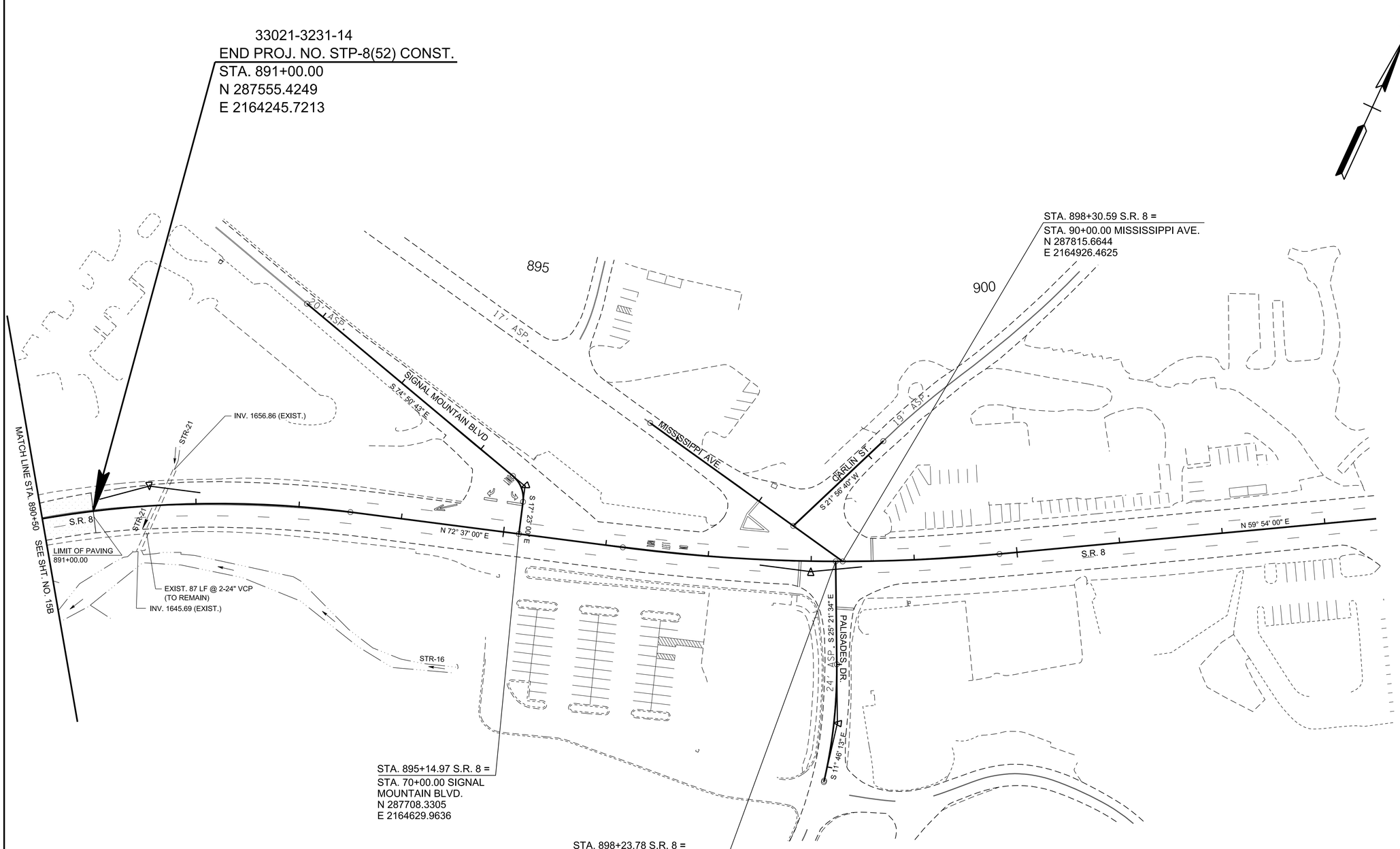
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	16B
PIH	2026	STP-8(52)	16B
PS&E	2026	STP-8(52)	16B

33021-3231-14
END PROJ. NO. STP-8(52) CONST.
STA. 891+00.00
N 287555.4249
E 2164245.7213

STA. 898+30.59 S.R. 8 =
STA. 90+00.00 MISSISSIPPI AVE.
N 287815.6644
E 2164926.4625



STA. 895+14.97 S.R. 8 =
STA. 70+00.00 SIGNAL MOUNTAIN BLVD.
N 287708.3305
E 2164629.9636

STA. 898+23.78 S.R. 8 =
STA. 80+00.00 PALISADES DR.
N 287812.8148
E 2164920.2652

NOTE:
THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF STR-16 AND STR-21 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

LEGEND

AREA TO BE COLD PLANED AND RESURFACED

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 890+50 TO STA. 903+50
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	16C
PIH	2026	STP-8(52)	16C
PS&E	2026	STP-8(52)	16C

1740 1735 1730 1725 1720 1715 1710 1705 1700 1695 1690 1685 1680 1675 1670 1665 1660 1655 1650 1645

891+00 892+00 893+00 894+00 895+00 896+00 897+00 898+00 899+00 900+00 901+00 902+00 903+00

OH WIRE
STA. 897+79.34
LOW WIRE EL.1722.52'
TEMP. ____ DEG.
4 POWER
3 TELEPHONE
_ CABLE
_ GUY WIRE

OH WIRE
STA. 898+12.03
LOW WIRE EL.1721.94'
TEMP. ____ DEG.
7 POWER
1 TELEPHONE
1 CABLE
_ GUY WIRE

OH WIRE
STA. 897+55.62
LOW WIRE EL.1719.14'
TEMP. ____ DEG.
_ POWER
1 TELEPHONE
_ CABLE
_ GUY WIRE

XCP S3
STA. 898+67.55, 35.80'(LT)
N 287863.6979
E 2164944.0500
ELEV 1702.35
ALUM. DISK STAMPED 33-127-03

OH WIRE
STA. 894+18.43
LOW WIRE EL.1701.70'
TEMP. ____ DEG.
3 POWER
2 TELEPHONE
_ CABLE
_ GUY WIRE

EXISTING GROUND

2" G

2" GAS LINE
STA 898+28.48

END NOT MEASURED

MH
STA. 896+79.57
25.40' (LT)
TOP 1688.66
INVERT 1682.36

33021-2231-14
END PROJ. NO. STP-8(52) R.O.W.
STA. 888+76.70 S.R.8
N 287420.5907
E 2164068.0222

OH WIRE
STA. 891+58.37
LOW WIRE EL.1680.40'
TEMP. ____ DEG.
_ POWER
_ TELEPHONE
_ CABLE
3 GUY WIRE

XCP S5
STA. 891+59.82, 29.21'(RT)
N 287559.6183
E 2164311.3712
ELEV 1654.48

MH
STA. 891+86.89
28.17' (LT)
TOP 1661.54
INVERT 1654.64

8" SA

INV-1655.24

MH
STA. 891+72.93
84.41' (RT)
TOP 1657.07
INVERT 1647.07

INV-1657.87

8" SANITARY SEWER
STA 891+83.61

STA 891+63.95
EXISTING 24"VCP
(TO REMAIN)
SKEW 62°27'22" LT
FLOWS RIGHT
INLET 1656.77
OUTLET 1644.95

STA 891+55.78
EXISTING 24" VCP
(TO REMAIN)
SKEW 63°2'48" LT
FLOWS RIGHT
INLET 1656.86
OUTLET 1645.69

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AGRICULTURE
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 890+50 TO STA. 903+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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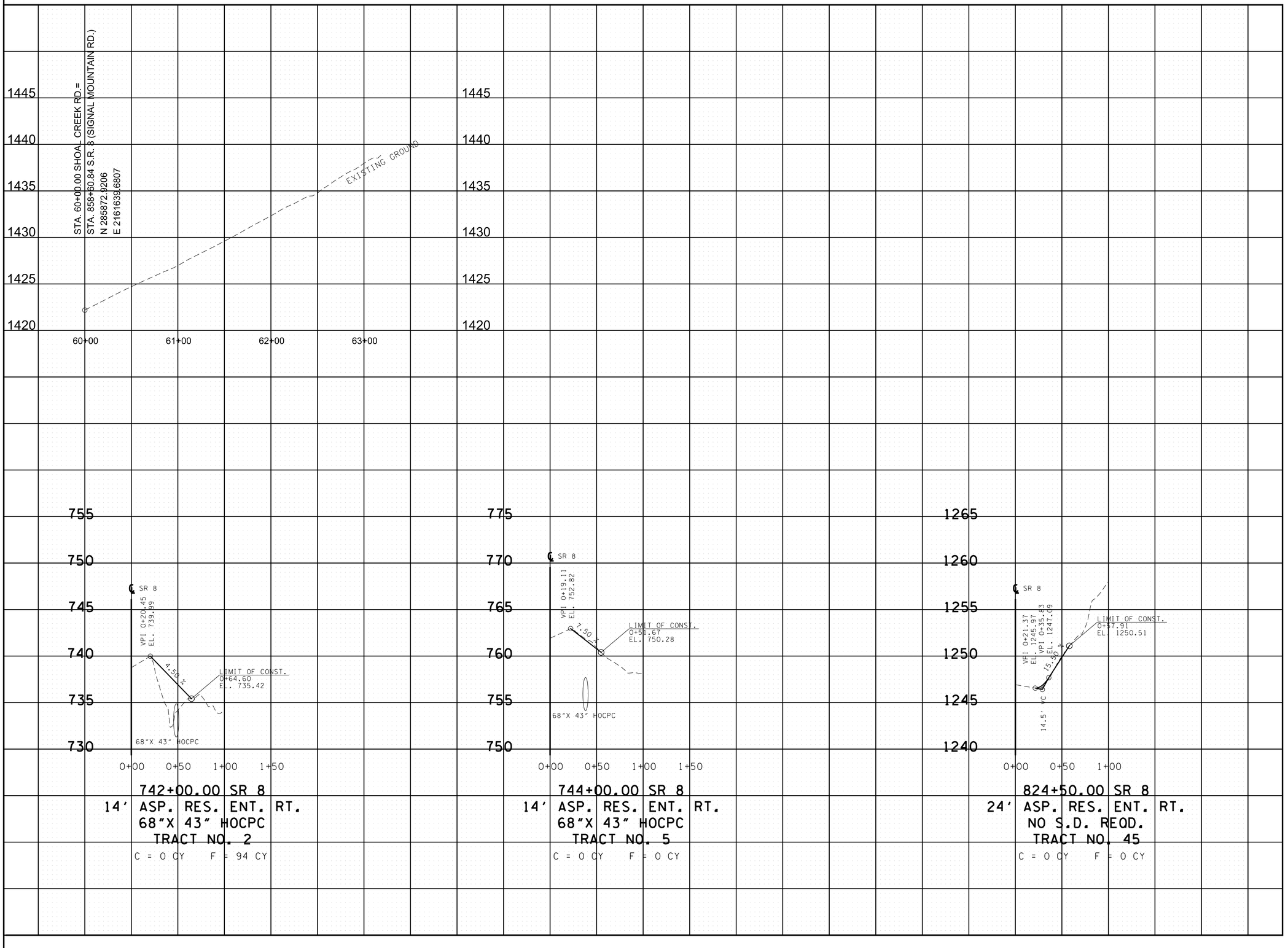
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	18
PIH	2026	STP-8(52)	18
PS&E	2026	STP-8(52)	18



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIDE ROAD PROFILES & DRIVEWAY PROFILES

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	19
PIH	2026	STP-8(52)	19
PS&E	2026	STP-8(52)	19

REV. 3-8-22: UPDATED PALISADES ROAD ALIGNMENT. UPDATED DRAINAGE AREA, PROPOSED PIPES AND PIPE LABELS.

33021-3231-14
BEGIN PROJ. NO. STP-8(52) CONST.
STA. 738+00.00
N 281240.8470
E 2168167.9153

33021-2231-14
BEGIN PROJ. NO. STP-8(52) R.O.W.
STA. 738+32.66 S.R.8
N 281268.4772
E 2168150.5235

STA. 736+94.20 S.R. 8 =
STA. 10+00.00 S.R. 27
N 281158.4263
E 2168234.2145

STA. 802+43.15 S.R. 8 =
STA. 30+31.19 PALISADES RD.
N 281828.6582
E 2163566.3194

STA. 807+49.67 S.R. 8 =
STA. 40+00.00 BALMORAL RD.
N 281936.5230
E 2163919.9991

STA. 814+82.29 S.R. 8 =
STA. 50+00.00 SUNSET DR.
N 282412.6042
E 2163445.5148

STA. 745+31.69 S.R. 8 =
STA. 20+00.00 GLENDALE DR.
N 281859.1258
E 2167873.4731

S.R. 27 (SUCK CREEK RD.)
WTL-01
EXIST. 48" RCP (TO BE REMOVED)
PROP. 76"x48" RCEP
EXIST. 48" RCP (TO BE REMOVED)
PROP. 76"x48" RCEP
EXIST. 48" RCP (TO BE REMOVED)
PROP. 76"x48" RCEP
WWC-1/EPH-1
WWC-2/EPH-2
EXIST. 30" RCP (TO BE REMOVED)
PROP. 68"X43" RCEP
EXIST. 60"X34" RCP (TO BE REMOVED)
PROP. 68"X43" RCEP
PROP. 68"X43" RCEP
EXIST. 60" RCP (TO BE REMOVED)
GLENDALE DR.
WWC-3/EPH-3
EXIST. 38"X24" RCP (TO BE REMOVED)
PROP. 38"x24" RCEP
EXIST. 53"X34" RCP (TO BE REMOVED)
PROP. 60"x38" RCEP
WWC-1/EPH-1
PROP. 68"X43" RCEP
EXIST. 60"X38" RCP (TO BE REMOVED)
EXIST. 24" CMP (PLUG & ABAND.)
PROP. 24" RCP
WWC-4/EPH-4
S.R. 8 (SIGNAL MOUNTAIN RD.)
WWC-4/EPH-4
PROP. 18" RCP
PROP. 24" RCP
EXIST. 18" CMP (PLUG & ABAND.)
WWC-5/EPH-5
WWC-5/EPH-5
PROP. 36" RCP
WWC-6/EPH-6
WWC-6/EPH-6
EXIST. 24" CMP (TO REMAIN)
WWC-7/EPH-7
WWC-9
EXIST. 24" CMP (PLUG & ABAND.)
EXIST. 24" RCP (PLUG & ABAND.)
WWC-8/EPH-8
WWC-8/EPH-8
END STR-1
BEGIN WWC-8/EPH-8
WWC-10/EPH-10
WWC-8/EPH-8
STR-1
STR-2
STR-2
PROP. 42" RCP
WWC-12/EPH-12
EXIST. 24" RCP (PLUG & ABAND.)
WWC-11/EPH-11
PROP. 24" RCP
END EPH-3A/STR-3
BEGIN WWC-12/EPH-12
WWC-12/EPH-12
S.R. 8 (SIGNAL MOUNTAIN RD.)
EPH-3A/STR-3
BEGIN EPH-3A/STR-3
BALMORAL RD.
EXIST. 24" RCP (TO REMAIN)
PALISADES RD.
STR-4
PROP. 8'X4' BOX CULV.
EXIST. 28"X20" CMP (TO BE REMOVED)
SUNSET DR
EXIST. 24" RCP (TO REMAIN)
EXIST. 18" RCP (PLUG & ABAND.)
EXIST. 18" RCP (PLUG & ABAND.)
PROP. 58"X36" RCAP
PROP. 36" RCP
MATCH LINE STA. 820+00 SEE SHT. NO. 19A

D.A. 92.29 AC.
Q50 = 170.43 CFS
Q100 = 188.05 CFS
C = 0.31

D.A. 43.30 AC.
Q50 = 74.81 CFS
Q100 = 82.37 CFS
C = 0.31

D.A. 13.30 AC.
Q50 = 13.75 CFS
Q100 = 14.11 CFS
C = 0.31

D.A. 45.64 AC.
Q50 = 102.19 CFS
Q100 = 112.56 CFS
C = 0.33

D.A. 46.08 AC.
Q50 = 77.64 CFS
Q100 = 86.12 CFS
C = 0.31

D.A. 10.27 AC.
Q50 = 23.61 CFS
Q100 = 26.01 CFS
C = 0.32

D.A. 18.87 AC.
Q50 = 31.07 CFS
Q100 = 34.49 CFS
C = 0.30

D.A. 1.97 AC.
Q50 = 2.79 CFS
Q100 = 3.24 CFS
C = 0.32

D.A. 10.82 AC.
Q50 = 21.90 CFS
Q100 = 24.12 CFS
C = 0.32

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COMMERCE
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA.738+32.66 TO STA.820+00
SCALE: 1"= 200'

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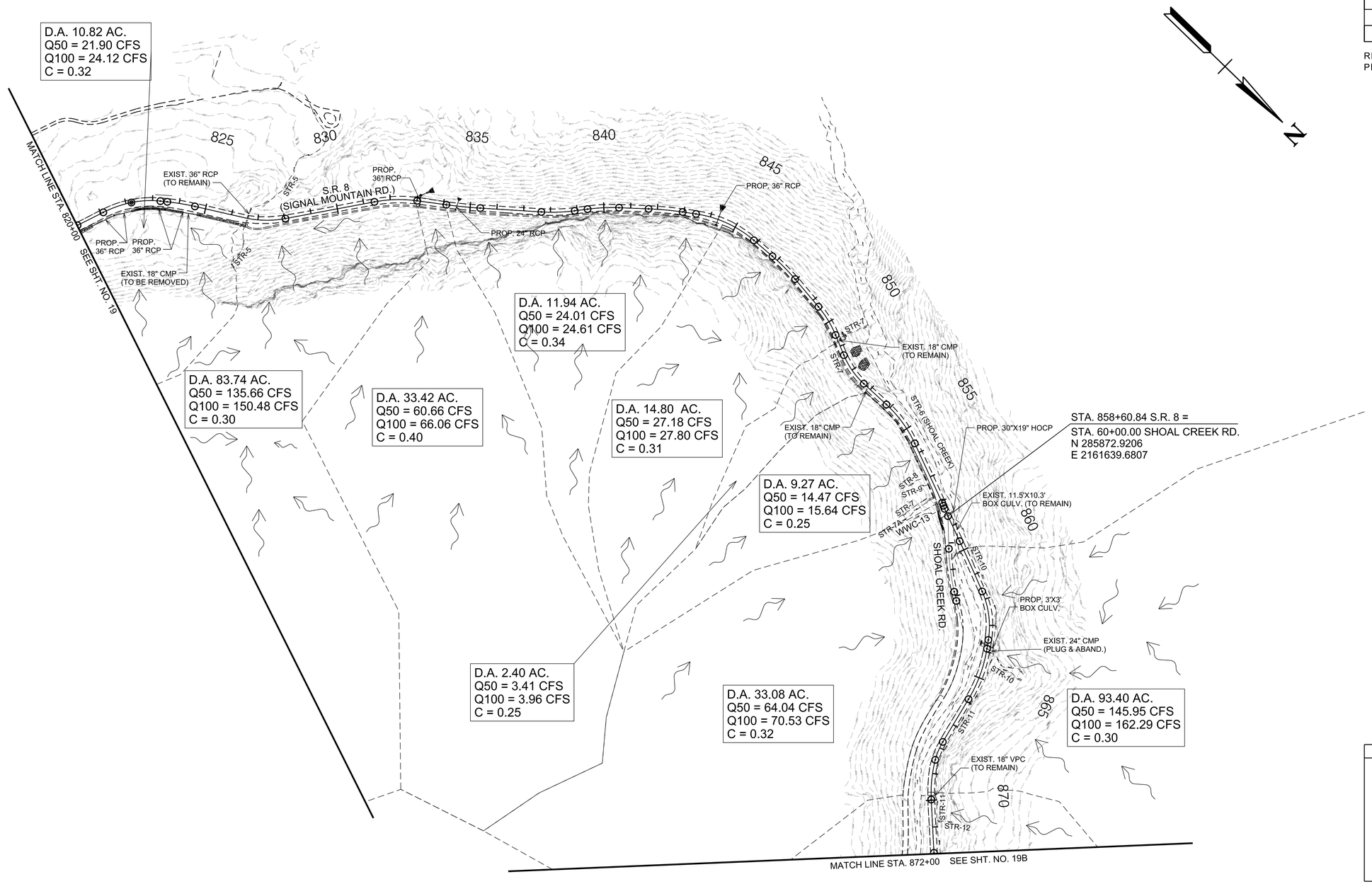
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	19A
PIH	2026	STP-8(52)	19A
PS&E	2026	STP-8(52)	19A

REV. 3-8-22: UPDATED PROPOSED PIPES AND PIPE LABELS.



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STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 820+00 TO STA. 872+00
SCALE: 1"= 200'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	19B
PIH	2026	STP-8(52)	19B
PS&E	2026	STP-8(52)	19B

33021-2231-14
END PROJ. NO. STP-8(52) R.O.W.
STA. 888+76.70 S.R.8
N 287420.5907
E 2164068.0222

33021-3231-14
END PROJ. NO. STP-8(52) CONST.
STA. 891+00.00
N 287555.4249
E 2164245.7213

D.A. 13.31 AC.
Q50 = 24.88 CFS
Q100 = 27.49 CFS
C = 0.32

D.A. 167.88 AC.
Q50 = 157.66 CFS
Q100 = 187.16 CFS
C = 0.32

D.A. 25.60 AC.
Q50 = 45.57 CFS
Q100 = 50.35 CFS
C = 0.30

D.A. 21.80 AC.
Q50 = 38.57 CFS
Q100 = 42.57 CFS
C = 0.30

D.A. 13.35 AC.
Q50 = 24.87 CFS
Q100 = 27.44 CFS
C = 0.32

D.A. 1.74 AC.
Q50 = 5.42 CFS
Q100 = 5.98 CFS
C = 0.42

905
895
890
885
880
875

SIGNAL MOUNTAIN BLVD.
MISSISSIPPI AVE.
CARLIN ST.
PALISADES DR.
SHOAL CREEK RD.
S.R. 8 (SIGNAL MOUNTAIN RD.)
STR-8 (SHOAL CREEK)

BEGIN STR-11
BEGIN STR-13
EXIST. 24" VCP (TO REMAIN)
EXIST. 18" RCP (TO REMAIN)
EXIST. 24" VCP (PLUG & ABANDON)
PROP. 24" RCP
EXIST. DUAL 24" VCP (TO REMAIN)
EXIST. 24" RCP (TO REMAIN)
STR-11
STR-13
STR-14
STR-15
STR-16
STR-17
STR-18
STR-19
STR-20
STR-21

MATCH LINE STA. 872+00
SEE SHT. NO. 19A

STA. 898+30.59 S.R. 8 =
STA. 90+00.00 MISSISSIPPI AVE.
N 287815.6644
E 2164926.4625

STA. 895+14.97 S.R. 8 =
STA. 70+00.00 SIGNAL MOUNTAIN BLVD.
N 287708.3305
E 2164629.9636

STA. 898+23.78 S.R. 8 =
STA. 80+00.00 PALISADES DR.
N 287812.8148
E 2164920.2652

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6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA.872+00 TO STA.891+45.18
SCALE: 1"= 200'

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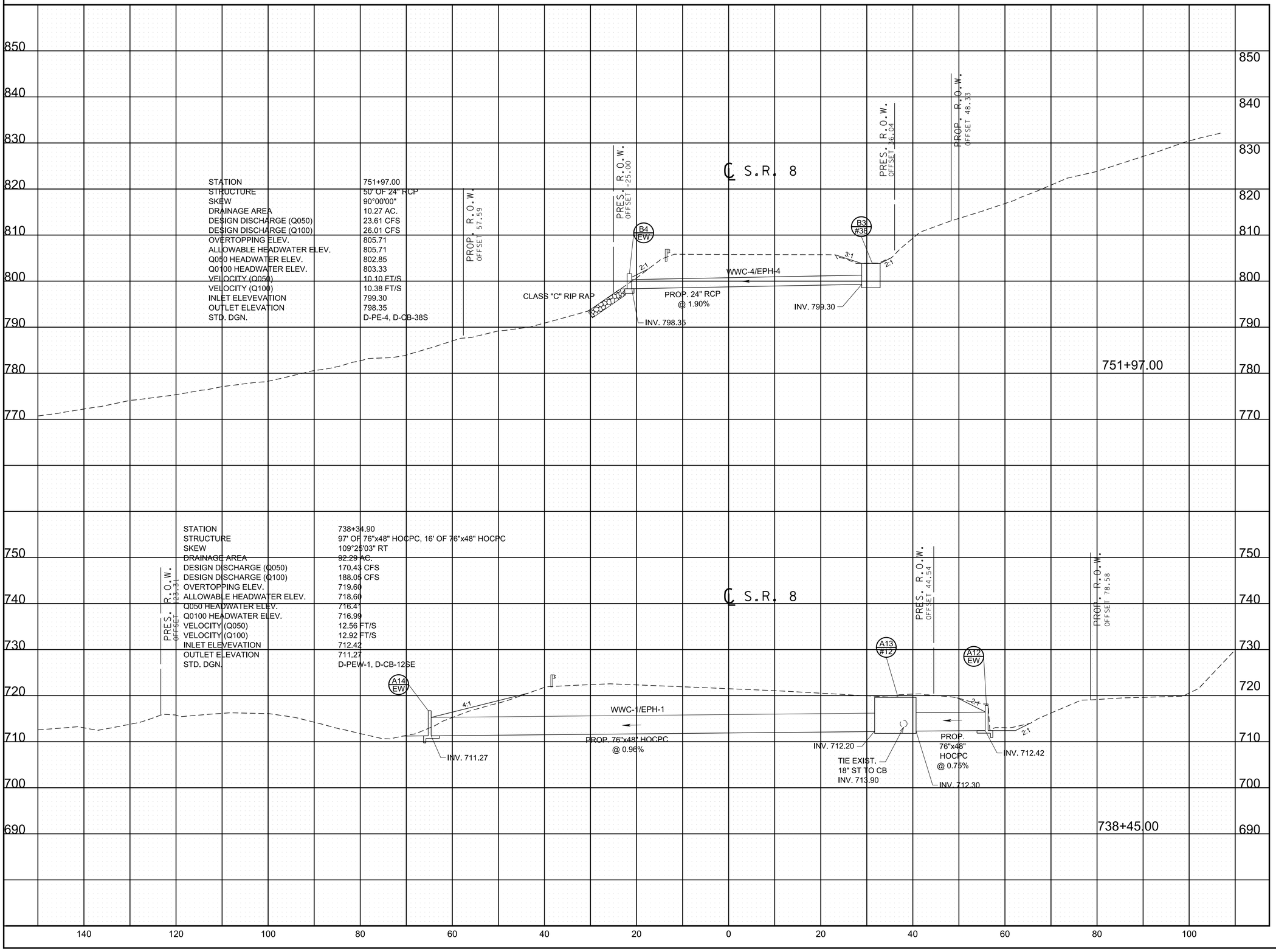
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	20
PIH	2026	STP-8(52)	20
PS&E	2026	STP-8(52)	20



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CULVERT SECTION

SCALE: 1"= 10' HORIZ.
1"=10' VERT.

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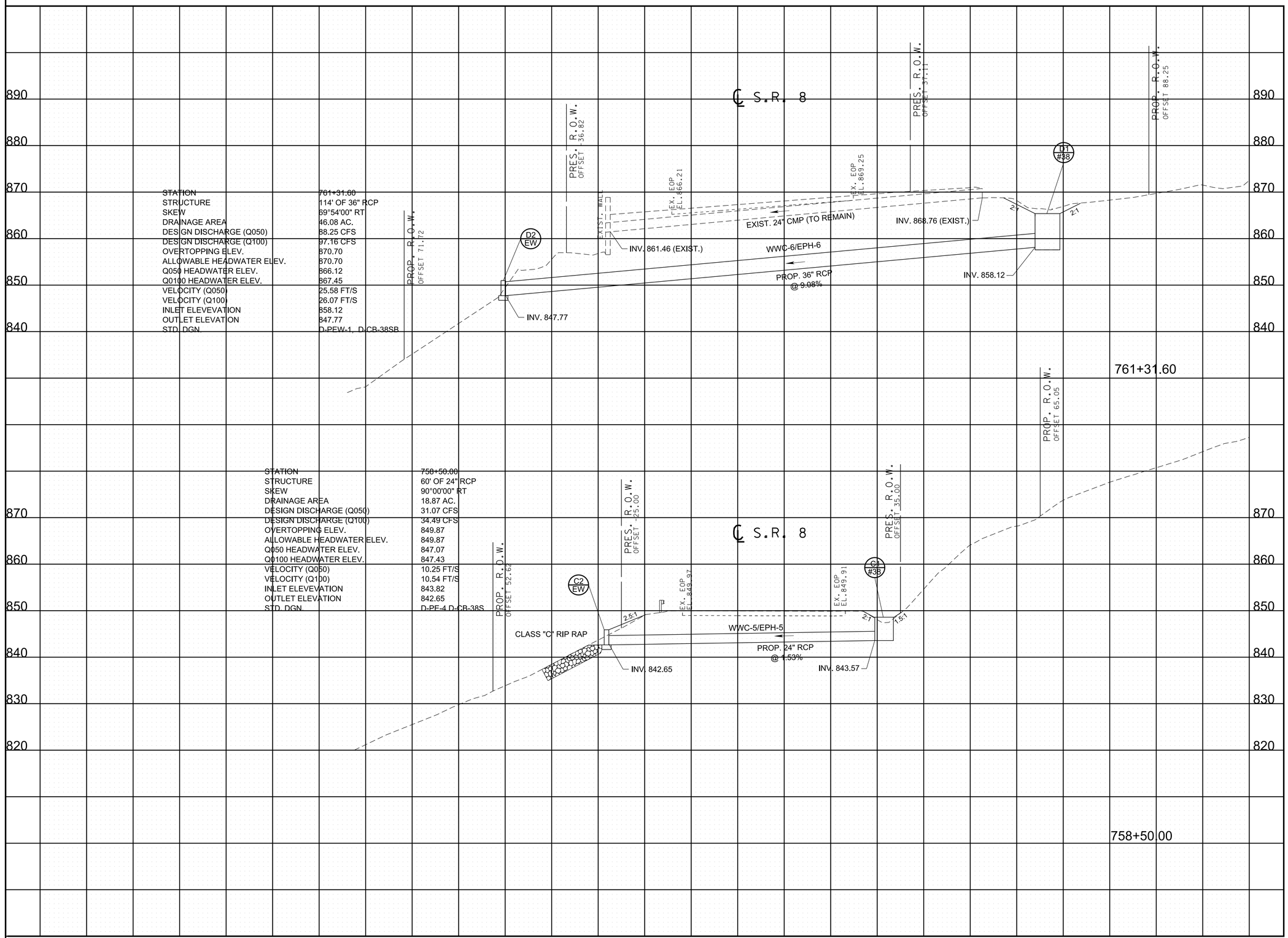
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	21
PIH	2026	STP-8(52)	21
PS&E	2026	STP-8(52)	21



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CULVERT SECTION

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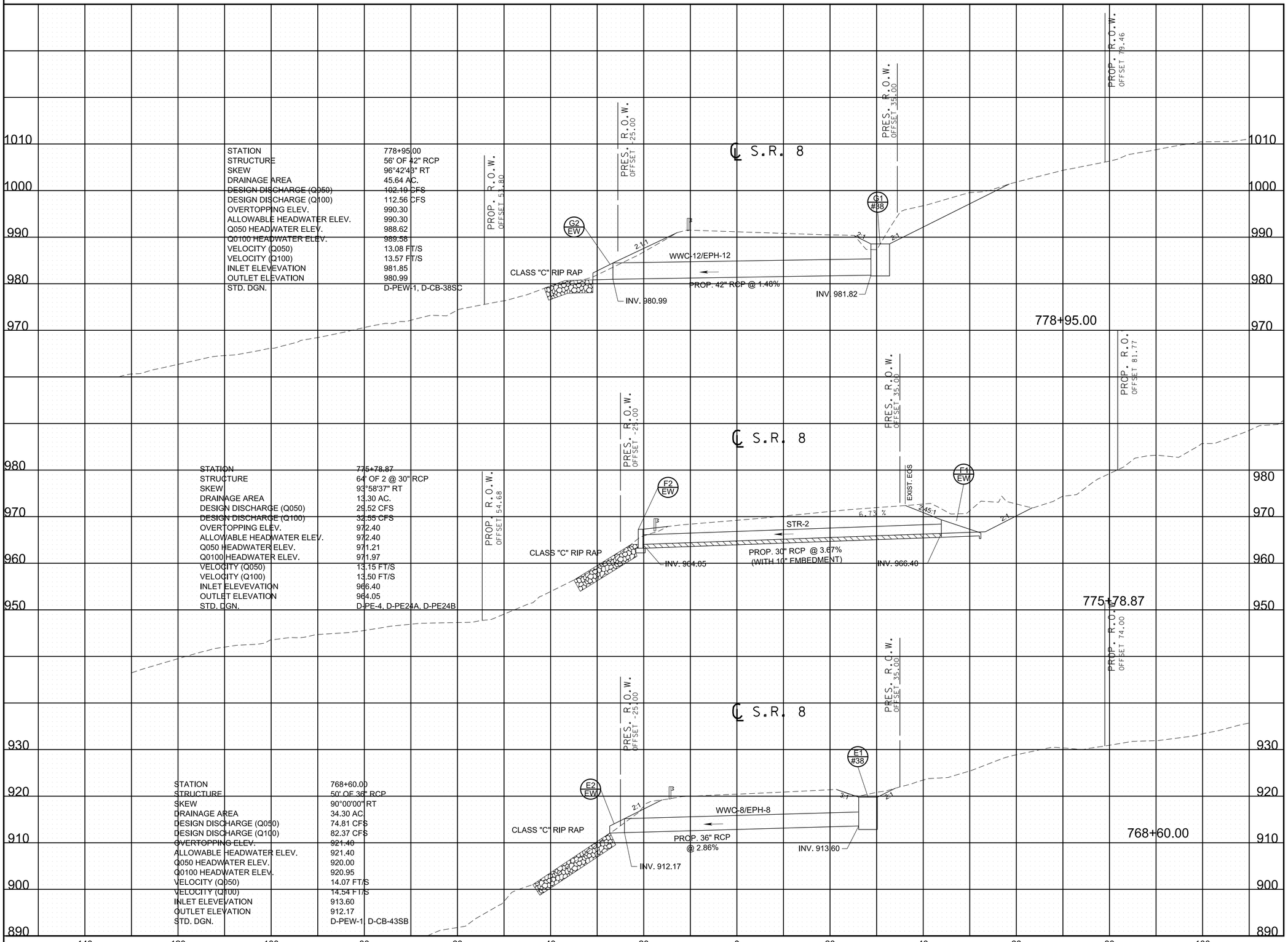
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	22
PIH	2026	STP-8(52)	22
PS&E	2026	STP-8(52)	22



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CULVERT SECTION

SCALE: 1"= 10' HORIZ.
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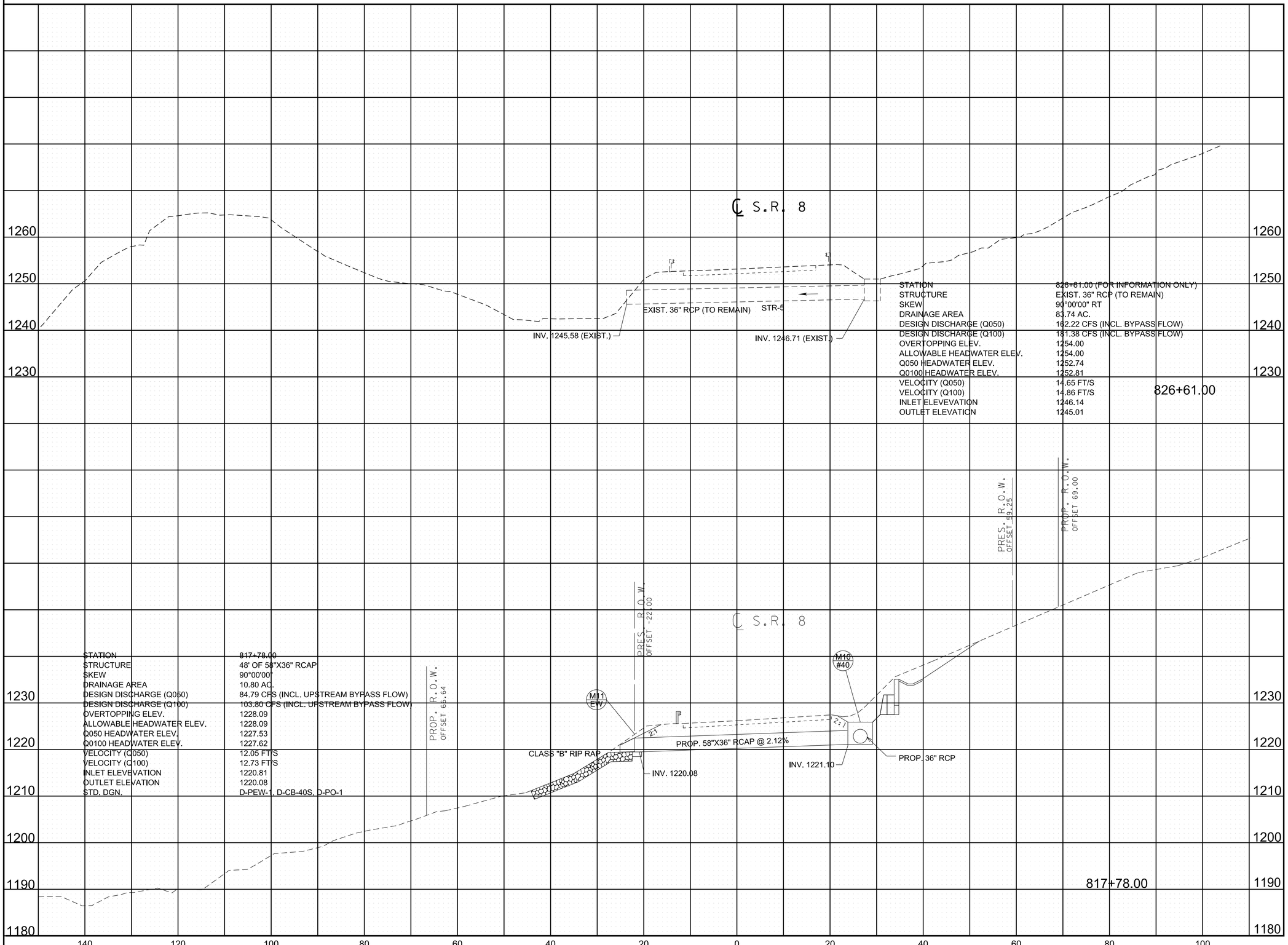
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	23
PIH	2026	STP-8(52)	23
PS&E	2026	STP-8(52)	23

REV. 12-10-21: UPDATED EXISTING GROUND AND MODIFIED PROPOSED STORM SEWER SYSTEM ACCORDINGLY.

REV. 3-8-22: MODIFIED SERIES "M" DRAINAGE SYSTEM. MOVED SECTION AT STA. 826+61.00 TO THIS SHEET.



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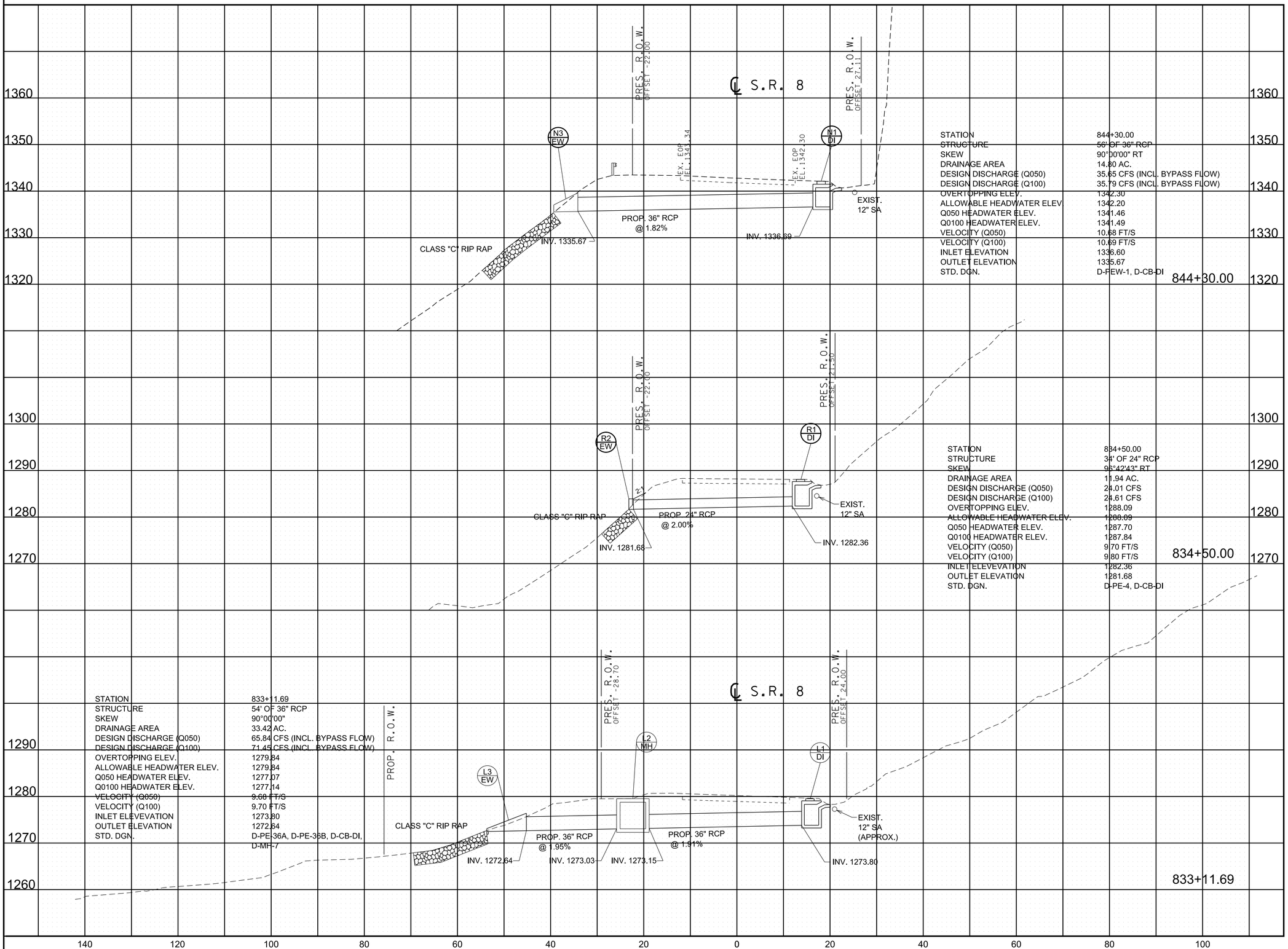
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	24
PIH	2026	STP-8(52)	24
PS&E	2026	STP-8(52)	24

REV. 3-8-22: ADDED SECTION AT STA. 833+11.69 TO THIS SHEET.



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CULVERT SECTION

SCALE: 1"= 10' HORIZ.
1"=10' VERT.

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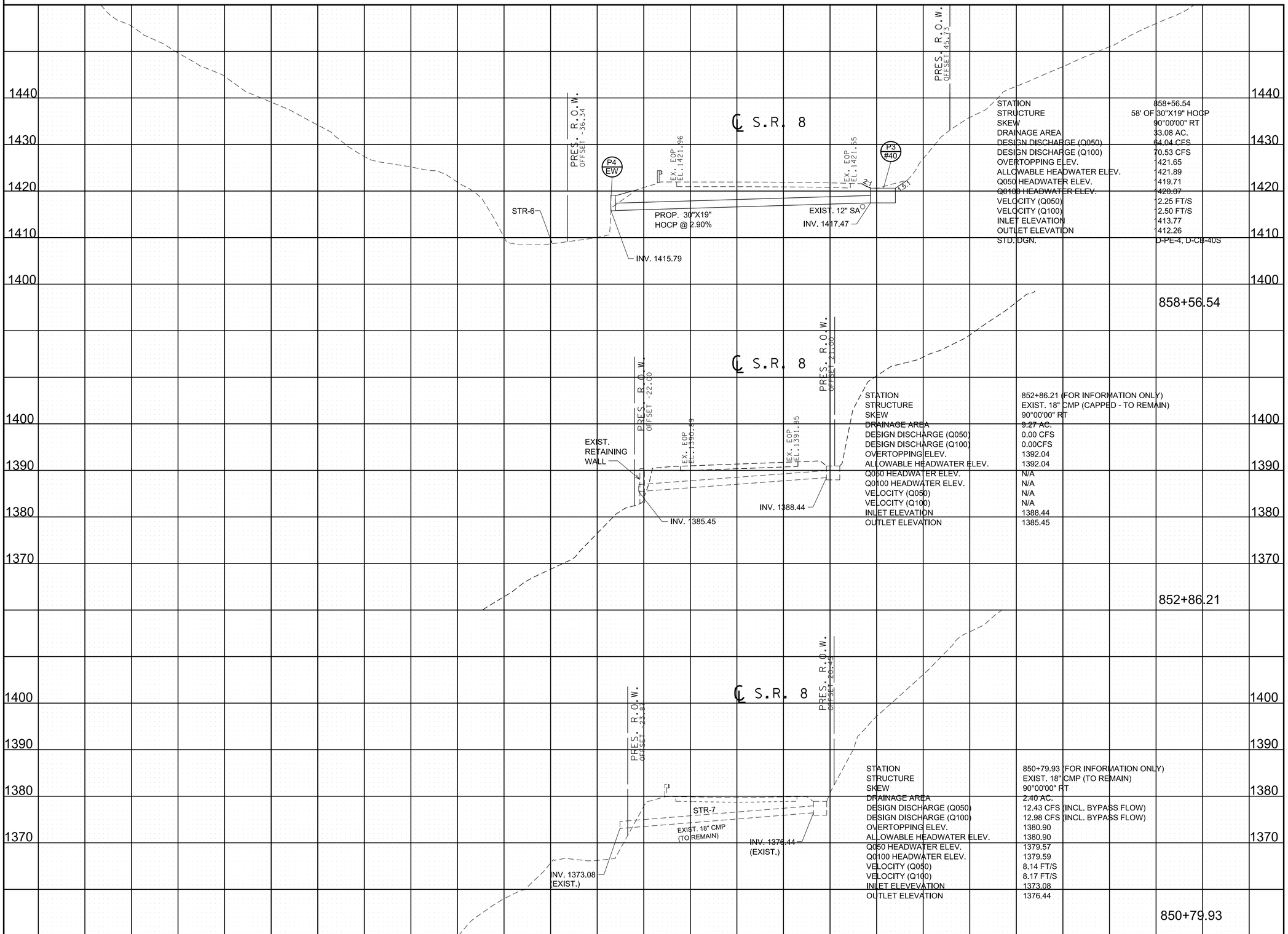
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	25
PIH	2026	STP-8(52)	25
PS&E	2026	STP-8(52)	25

REV. 9-21-23: MODIFIED SECTION AT STA. 858+56.54.

REV. 4-23-25: MODIFIED PROPOSED DITCH AT STA. 858+56.54.



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CULVERT SECTION

SCALE: 1"= 10' HORIZ.
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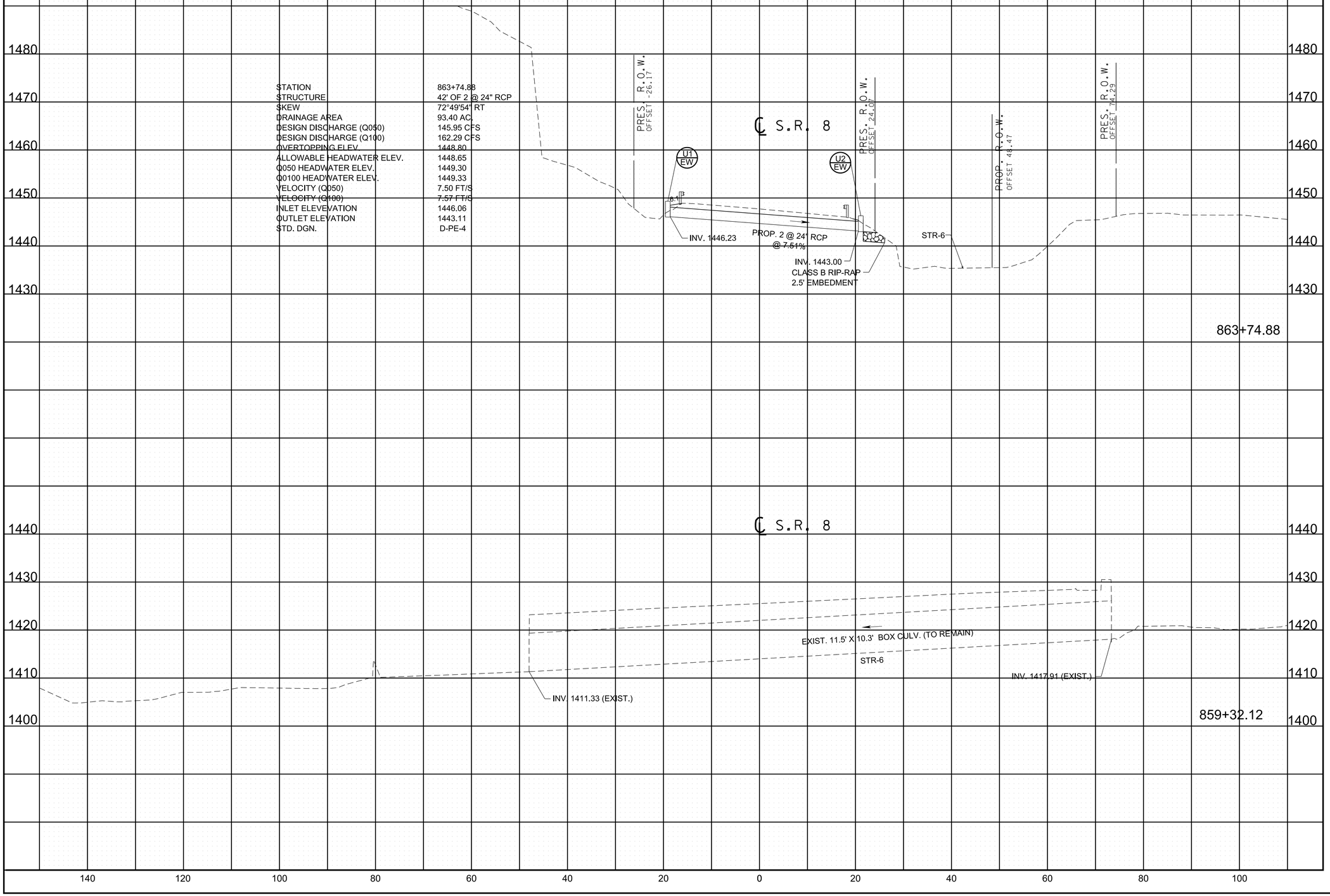
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	26
PIH	2026	STP-8(52)	26
PS&E	2026	STP-8(52)	26

STATION	863+74.88
STRUCTURE	42' OF 2 @ 24" RCP
SKEW	72°49'54" RT
DRAINAGE AREA	93.40 AC.
DESIGN DISCHARGE (Q050)	145.95 CFS
DESIGN DISCHARGE (Q100)	162.29 CFS
OVERTOPPING ELEV.	1448.80
ALLOWABLE HEADWATER ELEV.	1448.65
Q050 HEADWATER ELEV.	1449.30
Q0100 HEADWATER ELEV.	1449.33
VELOCITY (Q050)	7.50 FT/S
~~VELOCITY (Q100)~~	7.57 FT/S
INLET ELEVEVATION	1446.06
OUTLET ELEVATION	1443.11
STD. DGN.	D-PE-4



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CULVERT SECTION

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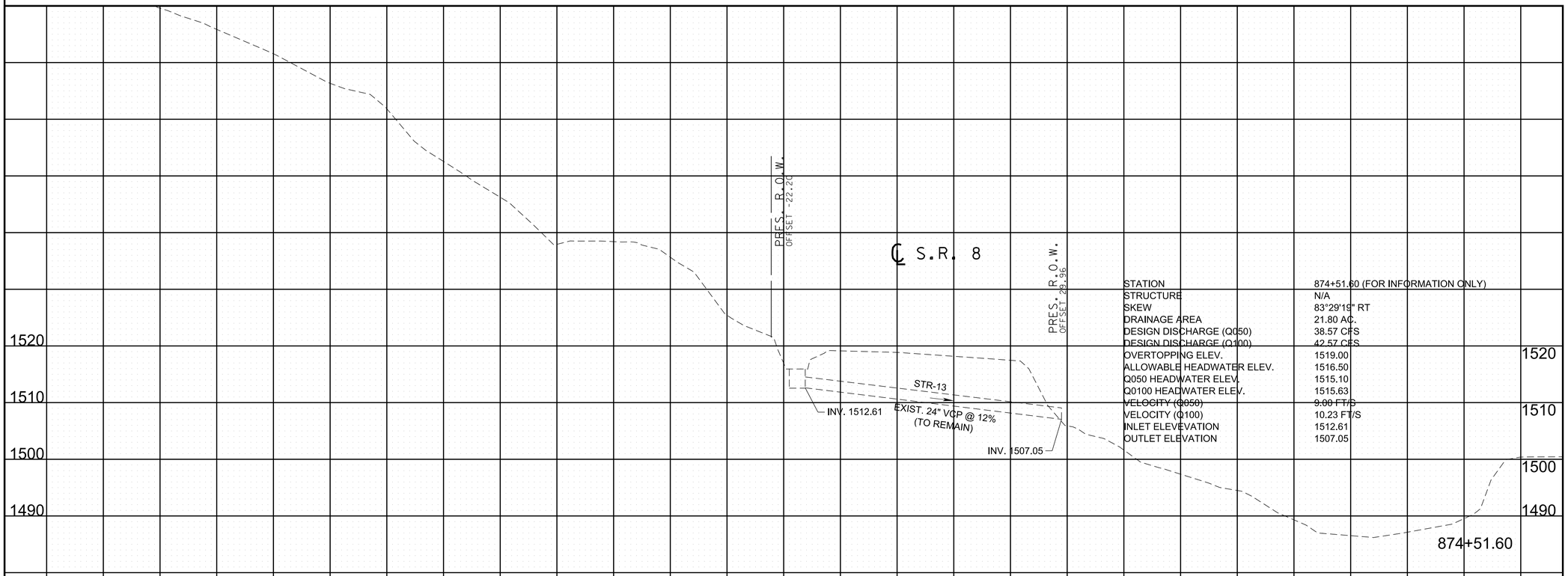
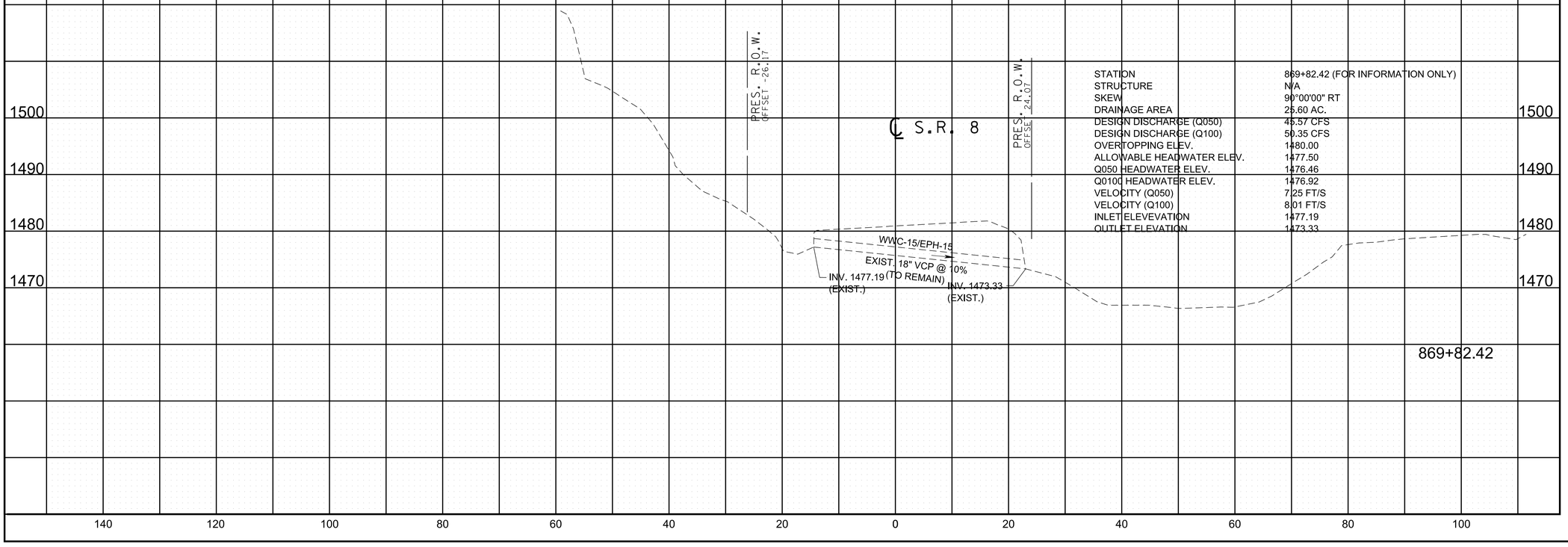
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	27
PIH	2026	STP-8(52)	27
PS&E	2026	STP-8(52)	27



STATION	874+51.60 (FOR INFORMATION ONLY)
STRUCTURE	N/A
SKEW	83°29'19" RT
DRAINAGE AREA	21.80 AC.
DESIGN DISCHARGE (Q050)	38.57 CFS
DESIGN DISCHARGE (Q100)	42.57 CFS
OVERTOPPING ELEV.	1519.00
ALLOWABLE HEADWATER ELEV.	1516.50
Q050 HEADWATER ELEV.	1515.10
Q0100 HEADWATER ELEV.	1515.63
VELOCITY (Q050)	9.00 FT/S
VELOCITY (Q100)	10.23 FT/S
INLET ELEVEVATION	1512.61
OUTLET ELEVATION	1507.05



STATION	869+82.42 (FOR INFORMATION ONLY)
STRUCTURE	N/A
SKEW	90°00'00" RT
DRAINAGE AREA	25.60 AC.
DESIGN DISCHARGE (Q050)	45.57 CFS
DESIGN DISCHARGE (Q100)	50.35 CFS
OVERTOPPING ELEV.	1480.00
ALLOWABLE HEADWATER ELEV.	1477.50
Q050 HEADWATER ELEV.	1476.46
Q0100 HEADWATER ELEV.	1476.92
VELOCITY (Q050)	7.25 FT/S
VELOCITY (Q100)	8.01 FT/S
INLET ELEVEVATION	1477.19
OUTLET ELEVATION	1473.33

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CULVERT SECTION

SCALE: 1"= 10' HORIZ.
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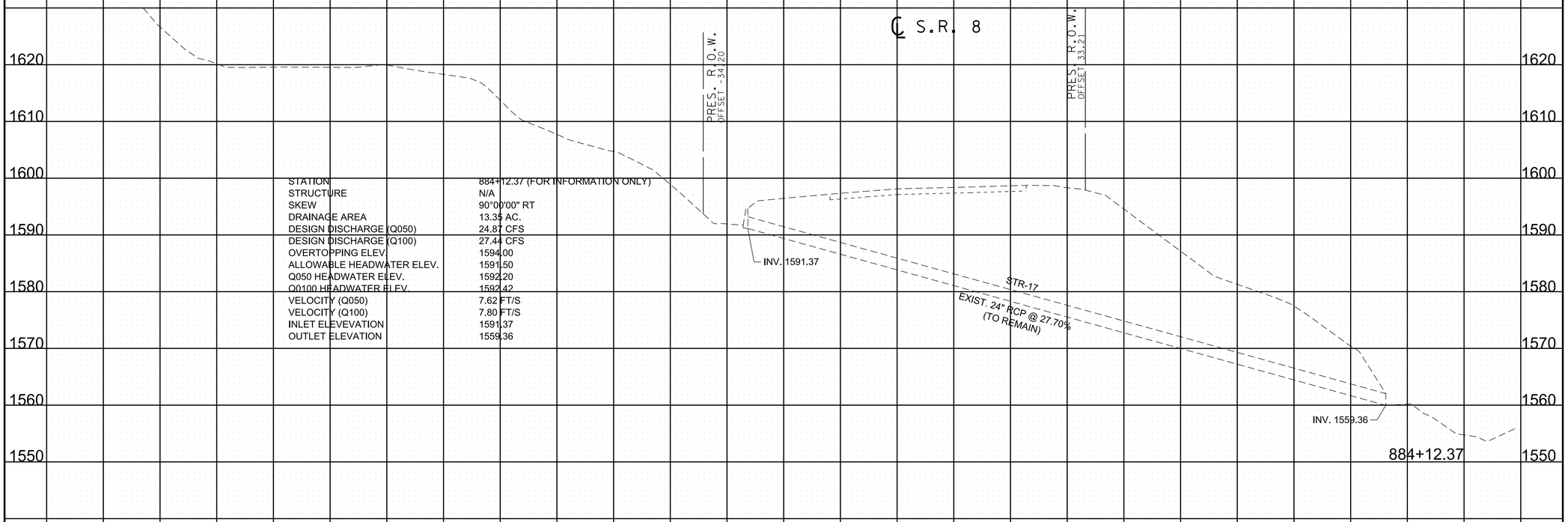
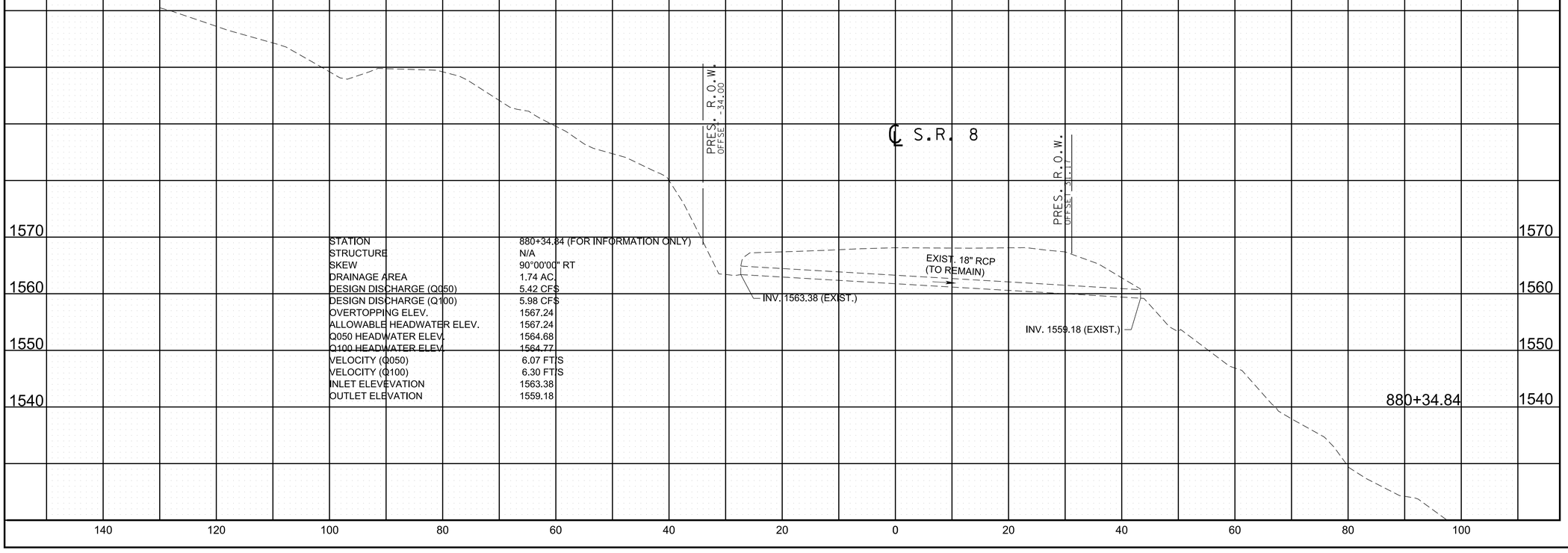
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	28
PIH	2026	STP-8(52)	28
PS&E	2026	STP-8(52)	28



STATION	884+12.37 (FOR INFORMATION ONLY)
STRUCTURE	N/A
SKEW	90°00'00" RT
DRAINAGE AREA	13.35 AC.
DESIGN DISCHARGE (Q050)	24.87 CFS
DESIGN DISCHARGE (Q100)	27.44 CFS
OVERTOPPING ELEV.	1594.00
ALLOWABLE HEADWATER ELEV.	1591.50
Q050 HEADWATER ELEV.	1592.20
Q0100 HEADWATER ELEV.	1592.42
VELOCITY (Q050)	7.62 FT/S
VELOCITY (Q100)	7.80 FT/S
INLET ELEVEVATION	1591.37
OUTLET ELEVATION	1559.36



STATION	880+34.84 (FOR INFORMATION ONLY)
STRUCTURE	N/A
SKEW	90°00'00" RT
DRAINAGE AREA	1.74 AC.
DESIGN DISCHARGE (Q050)	5.42 CFS
DESIGN DISCHARGE (Q100)	5.98 CFS
OVERTOPPING ELEV.	1567.24
ALLOWABLE HEADWATER ELEV.	1567.24
Q050 HEADWATER ELEV.	1564.68
Q100 HEADWATER ELEV.	1564.77
VELOCITY (Q050)	6.07 FT/S
VELOCITY (Q100)	6.30 FT/S
INLET ELEVEVATION	1563.38
OUTLET ELEVATION	1559.18

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CULVERT SECTION

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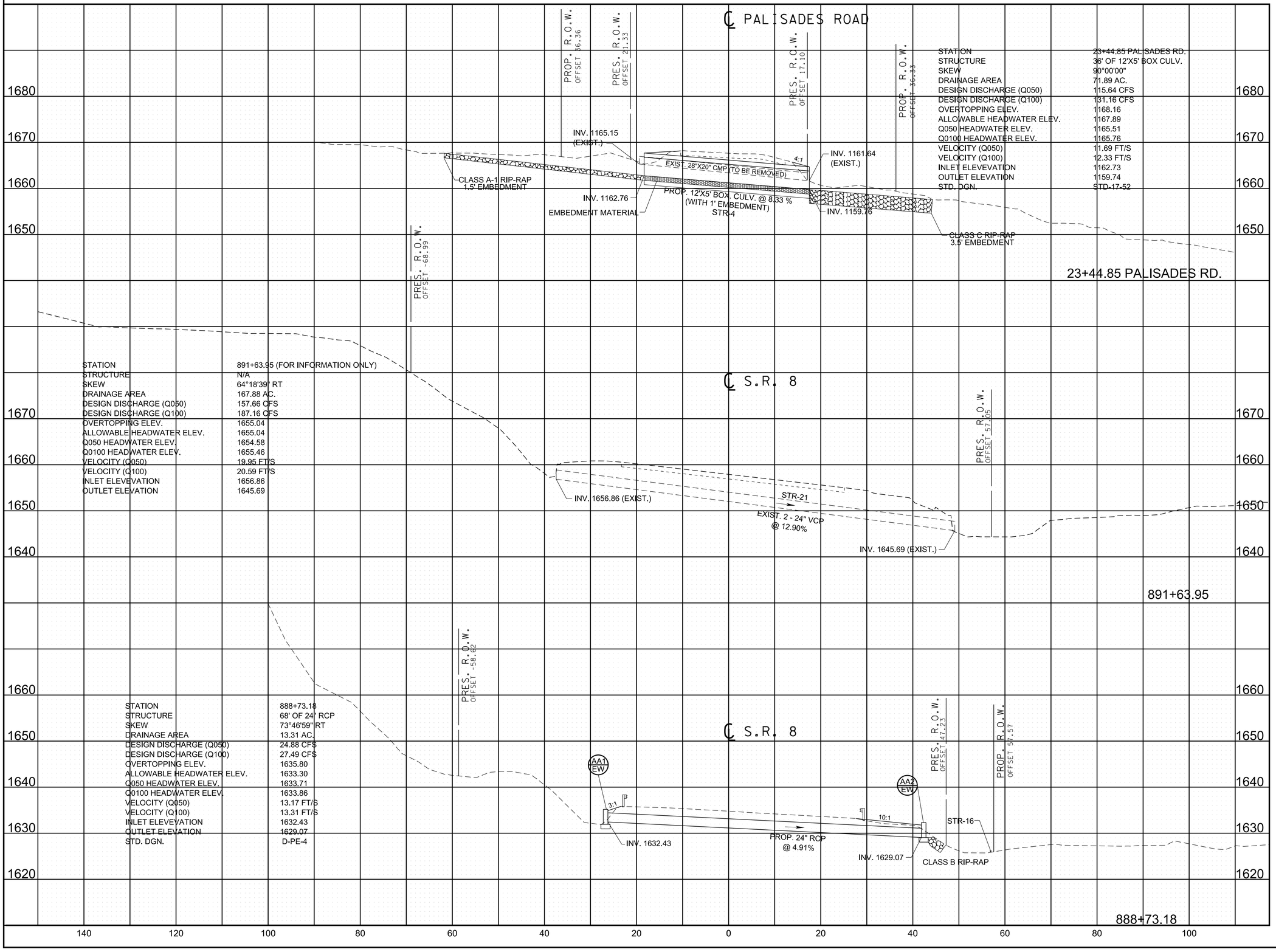
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	29
PIH	2026	STP-8(52)	29
PS&E	2026	STP-8(52)	29

REV. 3-8-22: ADDED SECTION AT STA. 23+44.85, PALISADES ROAD TO THIS SHEET.



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CULVERT SECTION

SCALE: 1"= 10' HORIZ.
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	30
PIH	2026	STP-8(52)	30
PS&E	2026	STP-8(52)	30

EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES

INSPECTION, MAINTENANCE & REPAIR

(1) REFER TO THE STORM WATER POLLUTION AND PREVENTION PLAN SHEET SERIES (S-1) FOR SWPPP, PERMITS, AND RECORDS NOTES.

STREAMS, WETLANDS & BUFFER ZONES

(2) ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., PIER FOOTING, RIP-RAP PLACEMENT, CULVERT/BRIDGE CONSTRUCTION, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR THE TEMPORARY DIVERSION CHANNELS (EC-STR-31) AND TEMPORARY DIVERSION CULVERTS (EC STR-32) FOR SINGLE BARREL CULVERT CONSTRUCTION.

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

(3) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS SHALL BE REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFFSITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EPSC SHALL BE REMOVED FROM THE SITE.

(4) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION. APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED.

(5) CONTRACTORS SHALL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED, NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS SHALL NOT BE PERMITTED ONSITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.

(6) WHEEL WASH WATER SHALL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER SHALL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM.

(7) IF PORTABLE SANITARY FACILITIES ARE PROVIDED ON CONSTRUCTION SITES, SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY REGULATIONS. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.

(8) ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ONSITE BY THE CONTRACTOR. THE CONTRACTOR SHALL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR'S RESPONSIBLE PARTY SHALL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL.

(9) WHEN POSSIBLE, ALL PRODUCTS SHALL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFFSITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS SHALL BE FOLLOWED.

(10) ALL PAINT CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL BE DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.

(11) ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.

(12) OPEN BURNING IS PROHIBITED UNLESS IT IS SPECIFICALLY ALLOWED BY LAW. IF ALLOWED, NATURAL VEGETATION, TREES, AND UNTREATED LUMBER SHALL BE THE ONLY MATERIALS THAT CAN BE OPEN BURNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE STATE AND LOCAL PERMITS PRIOR TO ANY BURNING.

(13) DISPOSAL OF ONSITE VEGETATION AND TREES BY CHIPPING THEM INTO MULCH IS PREFERABLE TO OPEN BURNING. THIS MULCH MAY BE USED AS AN ONSITE SOIL STABILIZATION MEASURE WHERE APPROPRIATE.

(14) WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S), CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.

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EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	31
PIH	2026	STP-8(52)	31
PS&E	2026	STP-8(52)	31

REV. 3-8-22: UPDATED EPSC QUANTITIES TABLE.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
SFB ✱ ✱ SFB ✱ SFB ✱	SEDIMENT FILTER BAG	EC-STR-2
✱ SF ✱ SF ✱ SF ✱	SILT FENCE	EC-STR-3B
✱ SFB✱ SFB✱ SFB✱	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
✱ ✱SOCK 12"✱ ✱SOCK 12"✱ ✱	12 INCH FILTER SOCK	EC-STR-8
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
TCC	TEMPORARY CULVERT CROSSING (18" TEMP PIPE ON STR-7)	EC-STR-25
	TEMPORARY SLOPE DRAIN	EC-STR-27
	TEMPORARY BERM	EC-STR-27
	TEMPORARY DIVERSION CULVERT (SEE LOCATIONS FOR PIPE SIZE)	EC-STR-32
	SAND BAG BERM	EC-STR-33
	SAND BAG BERM	EC-STR-33
	SUSPENDED PIPE DIVERSION	EC-STR-33 EC-STR-33A
	EROSION CONTROL BLANKET	EC-STR-34
2	CURB INLET PROTECTION (TYPE 2)	EC-STR-39
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
2	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
5	CATCH BASIN FILTER ASSEMBLY (TYPE 5)	EC-STR-45
8	CATCH BASIN FILTER ASSEMBLY (TYPE 8)	EC-STR-48
✱ HVF ✱ HVF ✱	HIGH VISIBILITY FENCE	S-F-1

EPSC TABULATED QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(1)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	2033
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	1410
	209-02.05	12" TEMPORARY SLOPE DRAIN	L.F.	612
	209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	160
	209-03.21	FILTER SOCK (12 INCH)	L.F.	1539
	209-03.31	STREAM MITIGATION-COCONUT FIBER ROLLS	L.F.	200
	209-05	SEDIMENT REMOVAL	C.Y.	359
(2)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	7199
	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	391
	209-08.08	ENHANCED ROCK CHECK DAM	EACH	21
(3)(11)	209-09.01	SANDBAGS	BAG	2974
	209-09.04	SEDIMENT FILTER BAG(15' X 10')	EACH	3
	209-09.41	CURB INLET PROTECTION (TYPE 2)	EACH	2
(3)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	33
	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	24
	209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	5
	209-40.42	CATCH BASIN FILTER ASSEMBLY(TYPE 2)	EACH	6
	209-40.45	CATCH BASIN FILTER ASSEMBLY(TYPE 5)	EACH	1
	209-40.48	CATCH BASIN FILTER ASSEMBLY(TYPE 8)	EACH	8
(4)	209-65.01	TEMPORARY STREAM DIVERSION (PUMP AROUND)	L.S.	1
(5)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	115
(6)	621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	30
	621-03.03	24" TEMPORARY DRAINAGE PIPE	L.F.	35
	621-03.04	30" TEMPORARY DRAINAGE PIPE	L.F.	30
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	902
(7)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	315
(8)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	543
(9)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	1431
(10)	801-02	SEEDING (WITHOUT MULCH)	UNIT	8
(12)	801-03	WATER (SEEDING & SODDING)	M.G.	89
(13)	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	7,537

FOOTNOTES

SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.

(1) INCLUDES 1838 CY FOR TEMP. DIV. BERMS A, 43 CY FOR TEMP. CONSTRUCTION EXITS, AND 56 CY FOR TEMPORARY CULVERT CROSSINGS AND INCLUDES 5% CONTINGENCY.

(2) INCLUDES 6941 L.F. FOR PERIMETER AND STREAM PROTECTION USING AN ADJUSTMENT FACTOR OF 2 AND INCLUDES 5% CONTINGENCY. PLUS 259 L.F. FOR SEDIMENT FILTER BAGS.

(3) TO BE USED ON THE LOCATIONS SPECIFIED PER PLANS AND SHOWN AS INSETS. ALL OTHER LOCATIONS ARE COVERED UNDER 209-65.01.

(4) SEE SHEET 31A FOR DETAILED NOTES AND PAY ITEM DESCRIPTION.

(5) INCLUDES 62 TONS FOR CULVERT PROTECTION TYPE I, 14 TONS FOR SEDIMENT FILTER BAG, AND 28 TONS FOR TEMPORARY CULVERT CROSSING. PLUS A 10% CONTINGENCY.

(6) 18" TEMP DRAINAGE PIPE TO BE USED AS DIRECTED BY THE PLANS. ITEM INCLUDES ALL PIPE CONNECTIONS

(7) FOR TEMPORARY CONSTRUCTION EXITS.

(8) INCLUDES 282 TONS FOR CULVERT PROTECTION TYPE I, 132 TONS FOR 12" TEMPORARY SLOPE DRAINS, 12 TONS FOR 18" SLOPE DRAINS, AND 91 TONS FOR TEMPORARY CULVERT CROSSING. PLUS A 5% CONTINGENCY.

(9) INCLUDES 599 S.Y. FOR CULVERT PROTECTION TYPE I, 515 S.Y. FOR TEMPORARY CONSTRUCTION EXITS, 217 S.Y. FOR SEDIMENT BAGS, AND 100 S.Y. FOR TEMPORARY CULVERT CROSSING.

(10) THE COST OF FERTILIZER AND LIME USED IN INITIAL SEED BED PREPARATION IS TO BE INCLUDED IN THE COST OF SEEDING. SEE SECTION 801 OF TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

(11) INCLUDES 275 SANDBAGS FOR TEMPORARY DIVERSION CULVERTS, 1495 BAGS FOR STREAM DIVERSION AS DETAILED BY THE PLANS, AND 934 BAGS FOR SUSPENDED PIPE DIVERSION PLUS A 10% CONTINGENCY.

(12) INCLUDES 89 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.

(13) TO BE USED ON 2 :1 SLOPES WITH ITEM NO. 801-02.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) LEGEND & TABULATION

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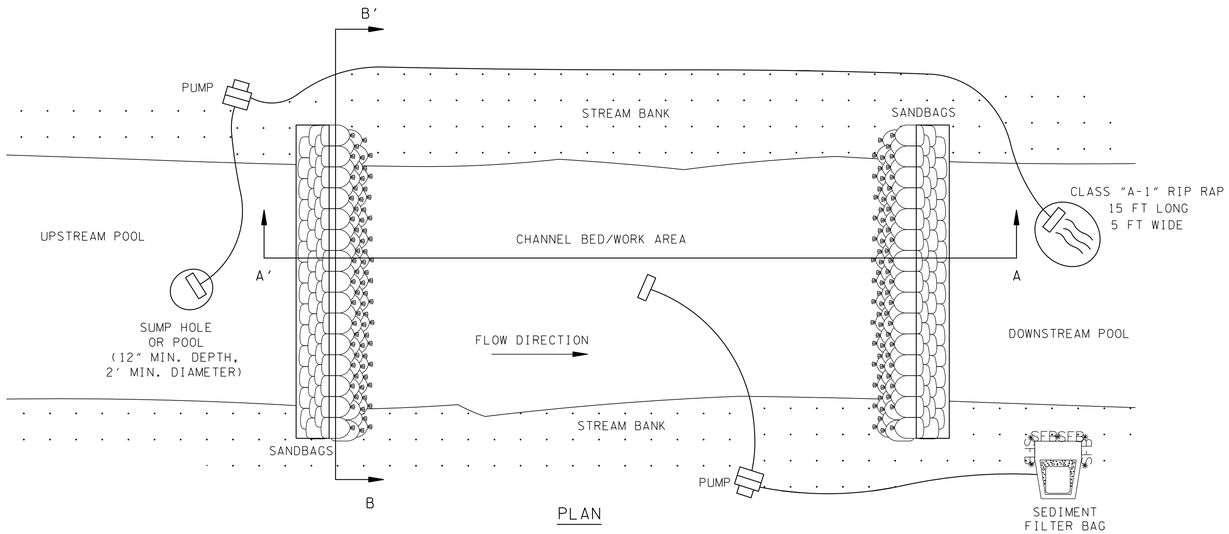
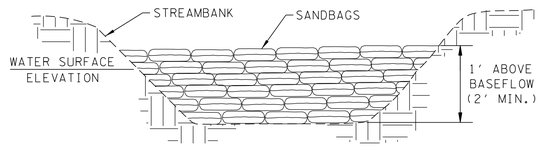
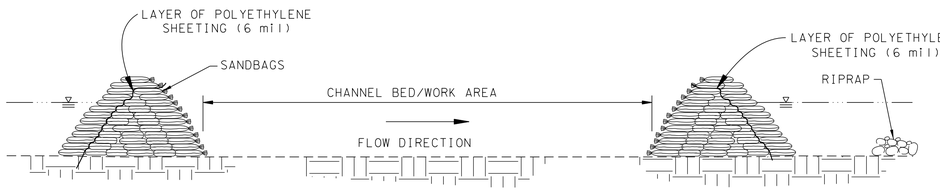
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	31A
PIH	2026	STP-8(52)	31A
PS&E	2026	STP-8(52)	31A



PLAN



SECTION B-B'



SECTION A-A'

TEMPORARY STREAM DIVERSION (PUMP AROUND)

NOT TO SCALE

NOTES:

1. TEMPORARY STREAM DIVERSIONS SHALL BE PAID FOR UNDER ITEM NO. 209.65.01, TEMPORARY STREAM DIVERSION (PUMP AROUND) (L.S.) AS SHOWN IN DETAIL. PAYMENT SHALL INCLUDE ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO CONSTRUCT AS SHOWN IN THE DETAIL. MULTIPLE SET UPS OF TEMPORARY STREAM DIVERSION MAY BE NECESSARY TO CONSTRUCT STREAM RELOCATION.
2. ALL EXCAVATION SHALL BE PERFORMED IN DRY OR ISOLATED SECTIONS OF CHANNEL.
3. IMPERVIOUS DIKES ARE TO BE USED TO ISOLATE WORK FROM STREAM FLOW WHEN NECESSARY.
4. ALL FINAL GRADED AREAS SHALL BE STABILIZED WITHIN 24 HOURS.
5. MAINTENANCE OF STREAM FLOW OPERATIONS SHALL BE INCIDENTAL TO THE WORK. THIS INCLUDES POLYETHYLENE SHEETING, DIVERSION PIPES, PUMPS AND HOSES.
6. PUMPS AND HOSES SHALL BE OF SUFFICIENT SIZE TO DEWATER THE WORK AREA.
7. SIDESLOPES OF RESTORED CHANNEL SHALL BE BLANKETED PRIOR TO TURNING WATER INTO CHANNEL.
8. CONTRACTOR IS RESPONSIBLE FOR DETERMINING & ACQUIRING THE PROPER SIZED PUMP.
9. PUMP AROUND IS NOT REQUIRED WHEN NEW CHANNEL WORK IS DONE IN THE DRY OR OFF-LINE.

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any error or omissions shall be reported to the engineer without delay.

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EROSION PREVENTION & SEDIMENT CONTROL (EPSC) DETAILS

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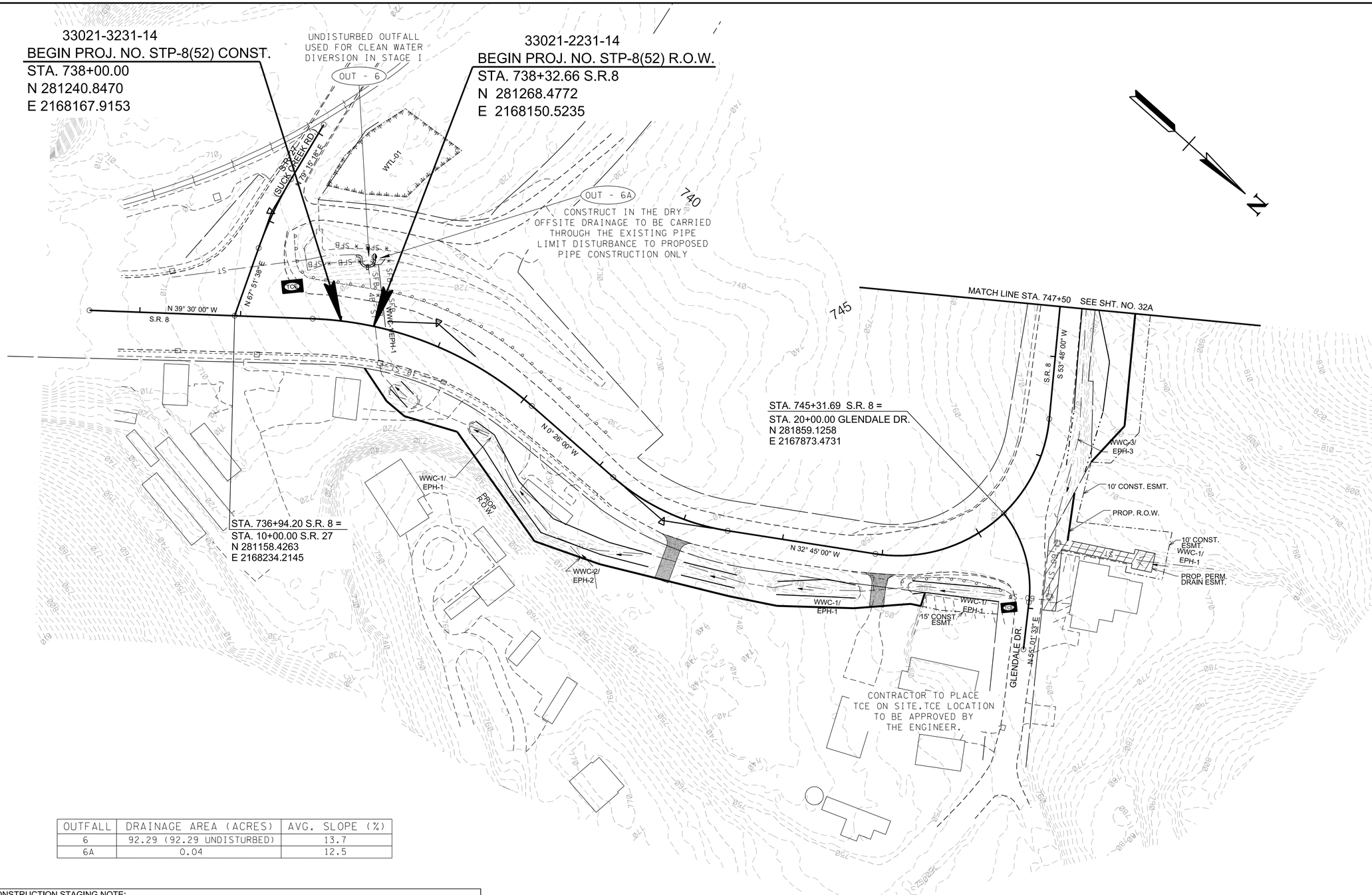
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	32
PIH	2026	STP-8(52)	32
PS&E	2026	STP-8(52)	32



OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
6	92.29 (92.29 UNDISTURBED)	13.7
6A	0.04	12.5

CONSTRUCTION STAGING NOTE:
STAGE 1 EARTH DISTURBING ACTIVITIES ARE LIMITED TO THE MINIMUM WORK REQUIRED TO INSTALL PROPOSED CROSS DRAINS, DITCH PLUGS AND GUARDRAIL ON THE LEFT SIDE OF THE ROADWAY. THIS WORK IS REPRESENTATIVE OF THE STAGE 1 TRAFFIC CONTROL WORKS. THE REMAINING AREA IS TO REMAIN UNDISTURBED AT THIS STAGE. OUTFALLS FOR COMPLETELY UNDISTURBED AREAS, INCLUDING CROSS DRAINS WITHIN THE PROJECT AREA, ARE NOT INCLUDED ON STAGE AS NO UPGRADIENT WORK IS PROPOSED.
ALL EXISTING DITCHES, DRAINAGE PIPES, AND RELATED STRUCTURES SHALL REMAIN IN SERVICE UNTIL THE CORRESPONDING PROPOSED DITCHES, PIPES, AND STRUCTURES HAVE BEEN INSTALLED AND ARE FULLY OPERATIONAL.
DRAINAGE INSTALLATION MUST BEGIN FROM THE LOWER ELEVATIONS AND PROCEED TO THE HIGHER ELEVATIONS.

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JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS
STA. 735+50 TO STA. 747+50
SCALE: 1"= 50'

STAGE I
EXISTING CONTOURS SHOWN

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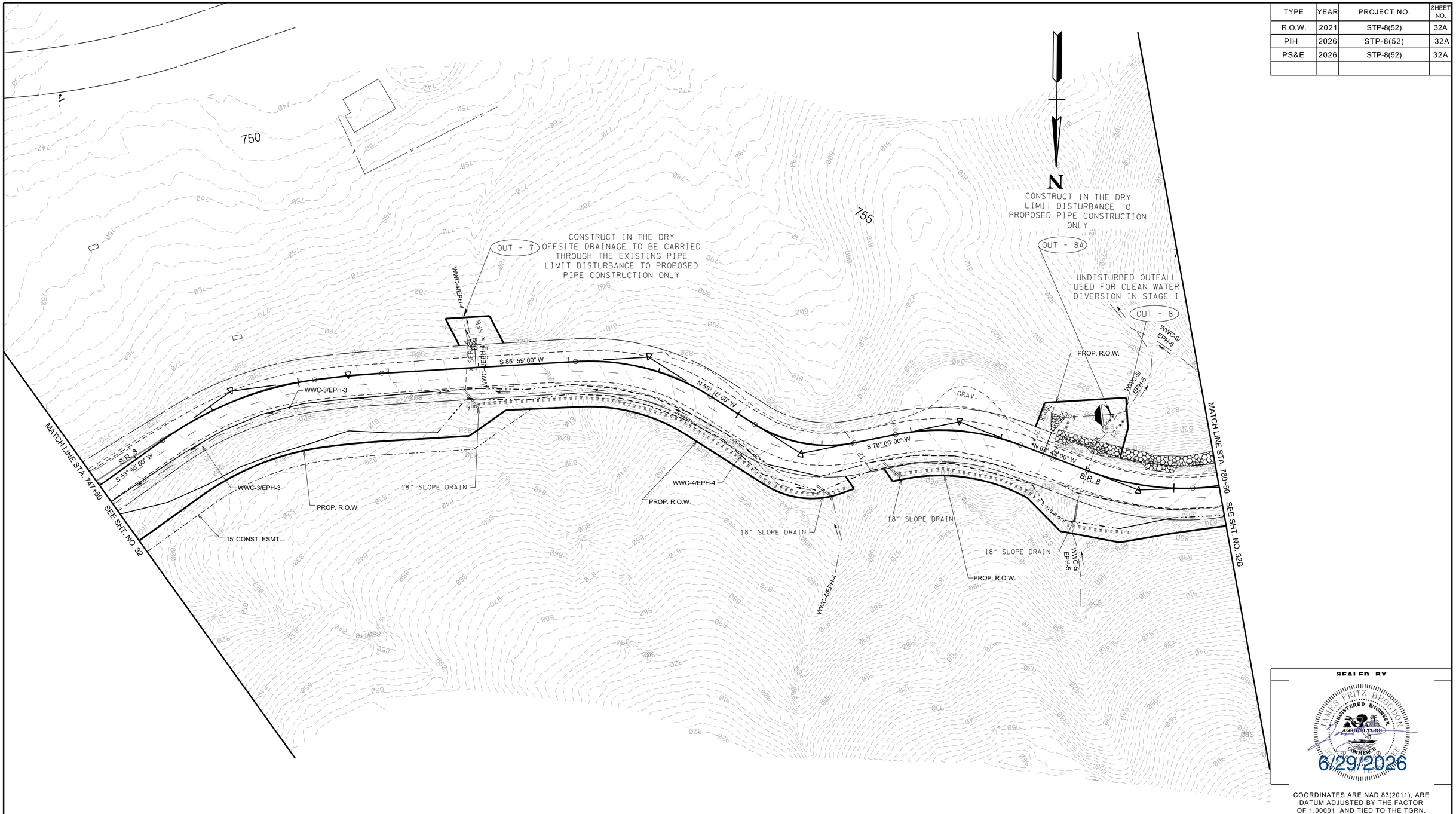
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	32A
PIH	2026	STP-8(52)	32A
PS&E	2026	STP-8(52)	32A



OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
7	10.27 AC. (10.25 UNDISTURBED)	27.2
8	5.38 AC. UNDISTURBED	3.6
8A	0.08 AC.	24.3

WWC-4/EPH-4 AND WWC-5/EPH-5 RELOCATION SEQUENCE
1. MAINTAIN FLOW IN THE EXISTING CULVERT.
2. CONSTRUCT THE LEFT SIDE OF PROPOSED CROSS DRAIN IN THE DRY.
3. FLAG EDGE OF THE RELOCATED CHANNEL TOP OF BANK PRIOR TO CLEARING.
4. EXCAVATE THE RELOCATED CHANNEL "IN THE DRY" BY LEAVING AREAS OF UNDISTURBED EARTH (DIVERSION BERMS) IN PLACE AT BOTH ENDS.
5. SHAPE STREAM TO THE SPECIFICATIONS SHOWN.
6. PLACE TOPSOIL AND SOD AS SPECIFIED.

STAGE I

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COMMERCE
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.747+50 TO STA.760+50
SCALE: 1"=50'

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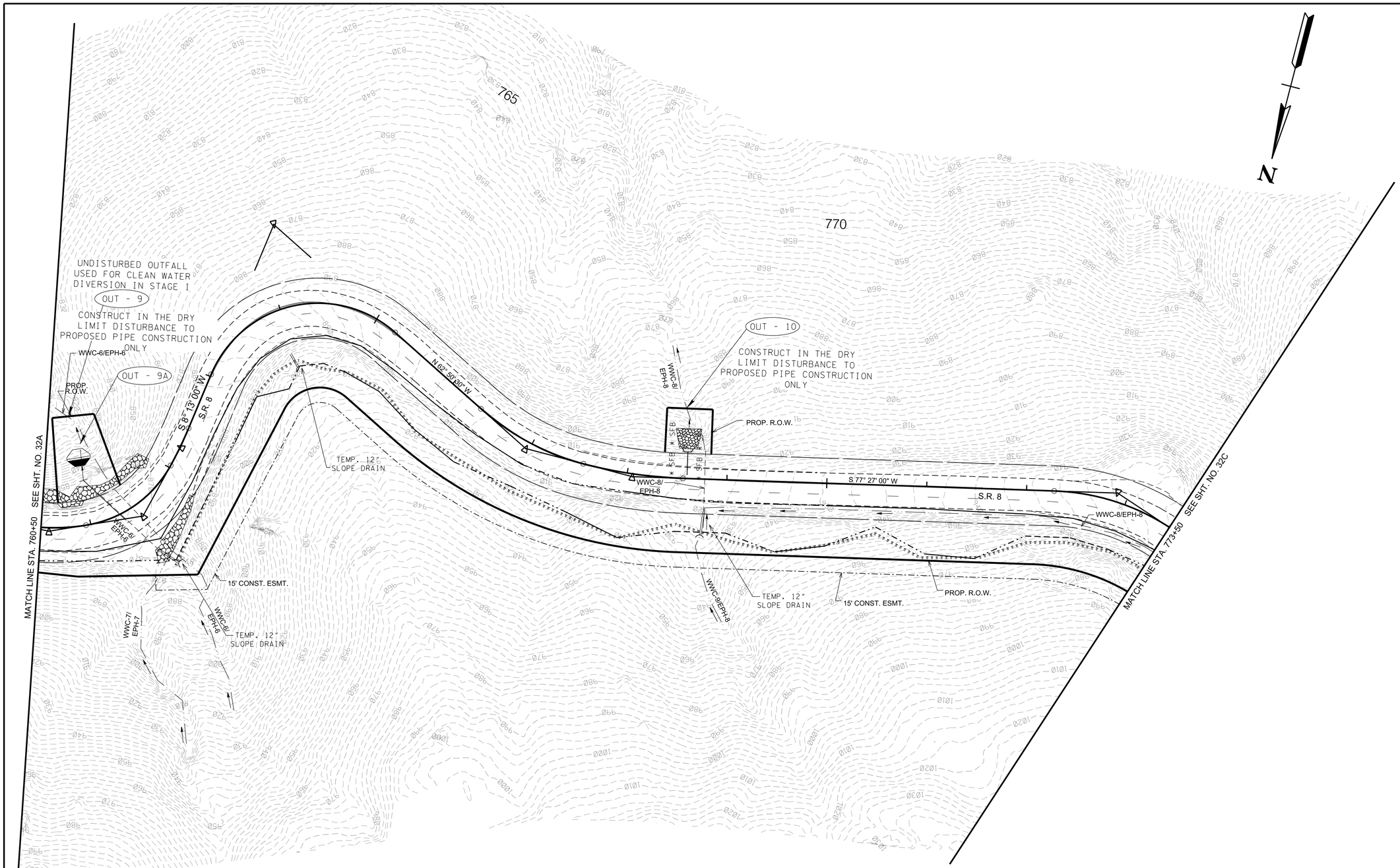
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	32B
PIH	2026	STP-8(52)	32B
PS&E	2026	STP-8(52)	32B



WWC-6/EPH-6 AND WWC-8/EPH-8 RELOCATION SEQUENCE
1. MAINTAIN FLOW IN THE EXISTING CULVERT.
2. CONSTRUCT THE LEFT SIDE OF PROPOSED CROSS DRAIN IN THE DRY.
3. FLAG EDGE OF THE RELOCATED CHANNEL TOP OF BANK PRIOR TO CLEARING.
4. EXCAVATE THE RELOCATED CHANNEL "IN THE DRY" BY LEAVING AREAS OF UNDISTURBED EARTH (DIVERSION BERMS) IN PLACE AT BOTH ENDS.
5. SHAPE STREAM TO THE SPECIFICATIONS SHOWN.
6. PLACE TOPSOIL AND SOD AS SPECIFIED.

OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
9	45.8 AC. (UNDISTURBED IN STAGE I)	32.8
10	34.80 (34.76 UNDISTURBED)	33.6
9A	0.1 AC.	39.6

STAGE I

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.760+50 TO STA.773+50

SCALE: 1"=50'

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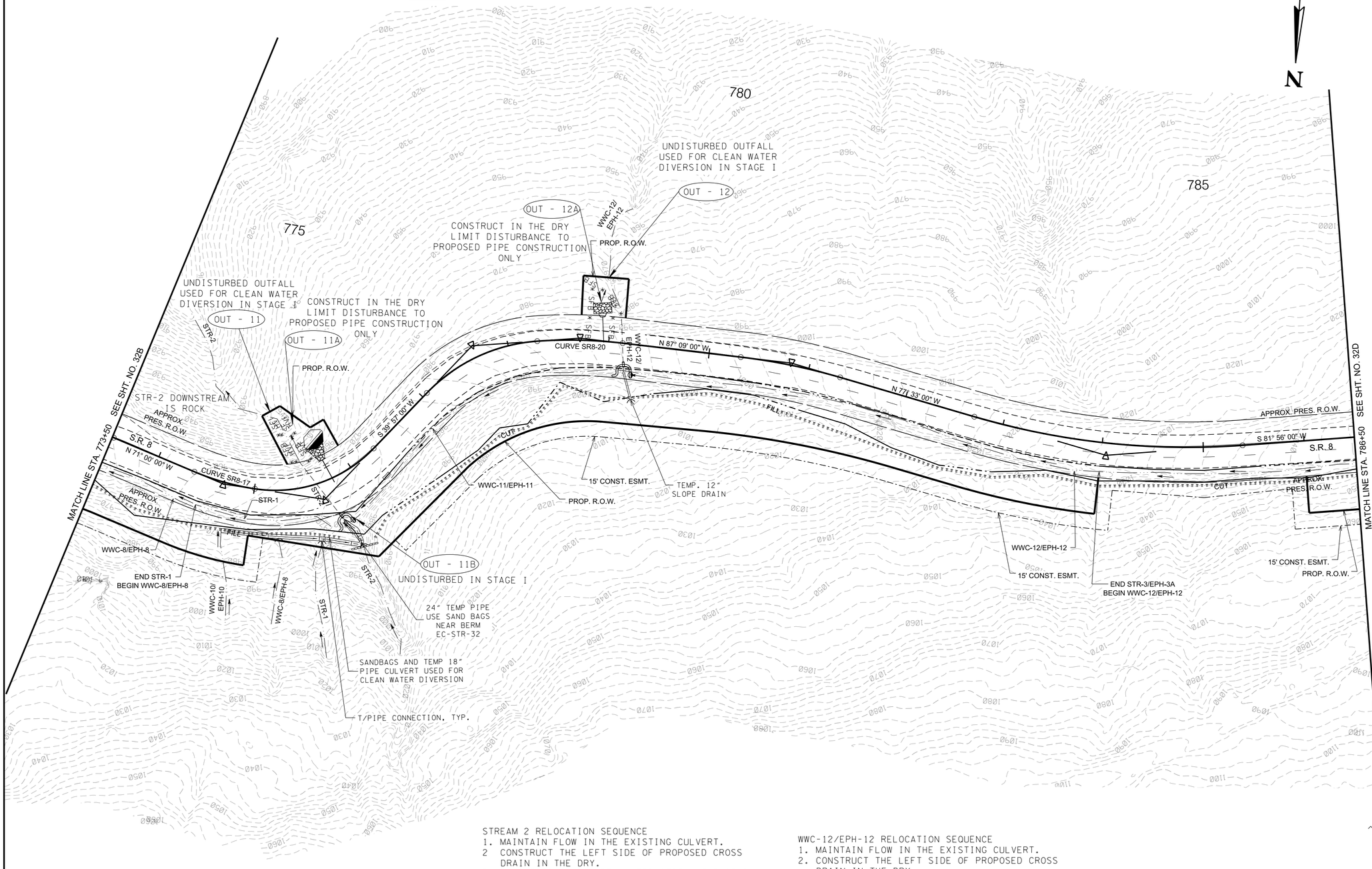
OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
11	0.03 AC. UNDISTURBED	25.7
11A	0.05	39.5
11B	13.2 AC. UNDISTURBED	1.89
12	45.6 AC.UNDISTURBED	31.3
12A	0.04 AC.	27.7

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	32C
PIH	2026	STP-8(52)	32C
PS&E	2026	STP-8(52)	32C



STREAM 2 RELOCATION SEQUENCE
1. MAINTAIN FLOW IN THE EXISTING CULVERT.
2 CONSTRUCT THE LEFT SIDE OF PROPOSED CROSS DRAIN IN THE DRY.
3. FLAG EDGE OF THE RELOCATED STREAM TOP OF BANK PRIOR TO CLEARING.
4. EXCAVATE THE RELOCATED STREAM "IN THE DRY" BY LEAVING AREAS OF UNDISTURBED EARTH (DIVERSION BERMS) IN PLACE AT BOTH ENDS.
5. SHAPE STREAM TO THE SPECIFICATIONS SHOWN.
6. PLACE TOPSOIL AND SOD AS SPECIFIED.

WWC-12/EPH-12 RELOCATION SEQUENCE
1. MAINTAIN FLOW IN THE EXISTING CULVERT.
2. CONSTRUCT THE LEFT SIDE OF PROPOSED CROSS DRAIN IN THE DRY.
3. FLAG EDGE OF THE RELOCATED CHANNEL TOP OF BANK PRIOR TO CLEARING.
4. EXCAVATE THE RELOCATED CHANNEL "IN THE DRY" BY LEAVING AREAS OF UNDISTURBED EARTH (DIVERSION BERMS) IN PLACE AT BOTH ENDS.
5. SHAPE STREAM TO THE SPECIFICATIONS SHOWN.
6. PLACE TOPSOIL AND SOD AS SPECIFIED.

STAGE I

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.773+50 TO STA.786+50
SCALE: 1"=50'

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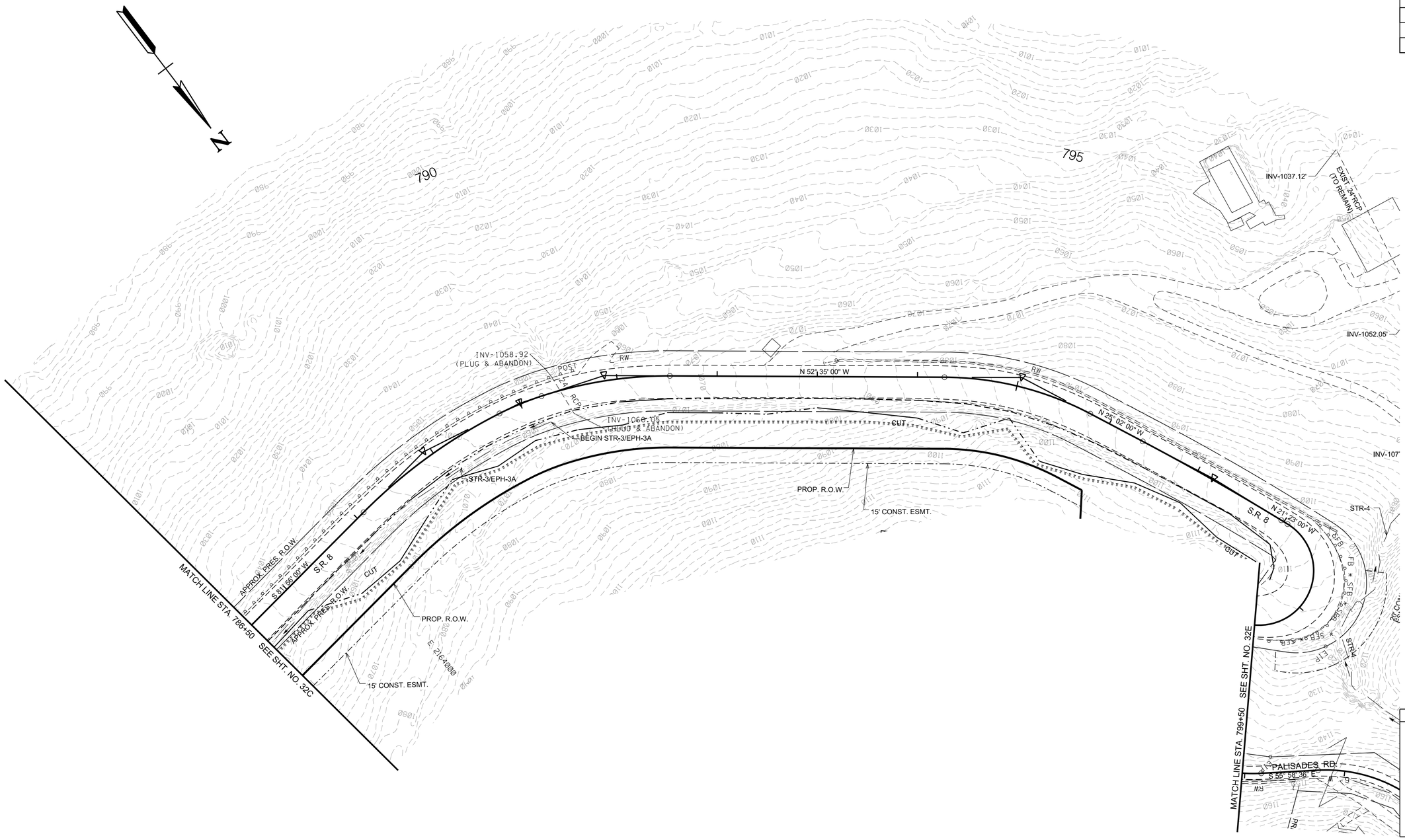
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	32D
PIH	2026	STP-8(52)	32D
PS&E	2026	STP-8(52)	32D



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.786+50 TO STA.799+50

SCALE: 1"=50'

STAGE I

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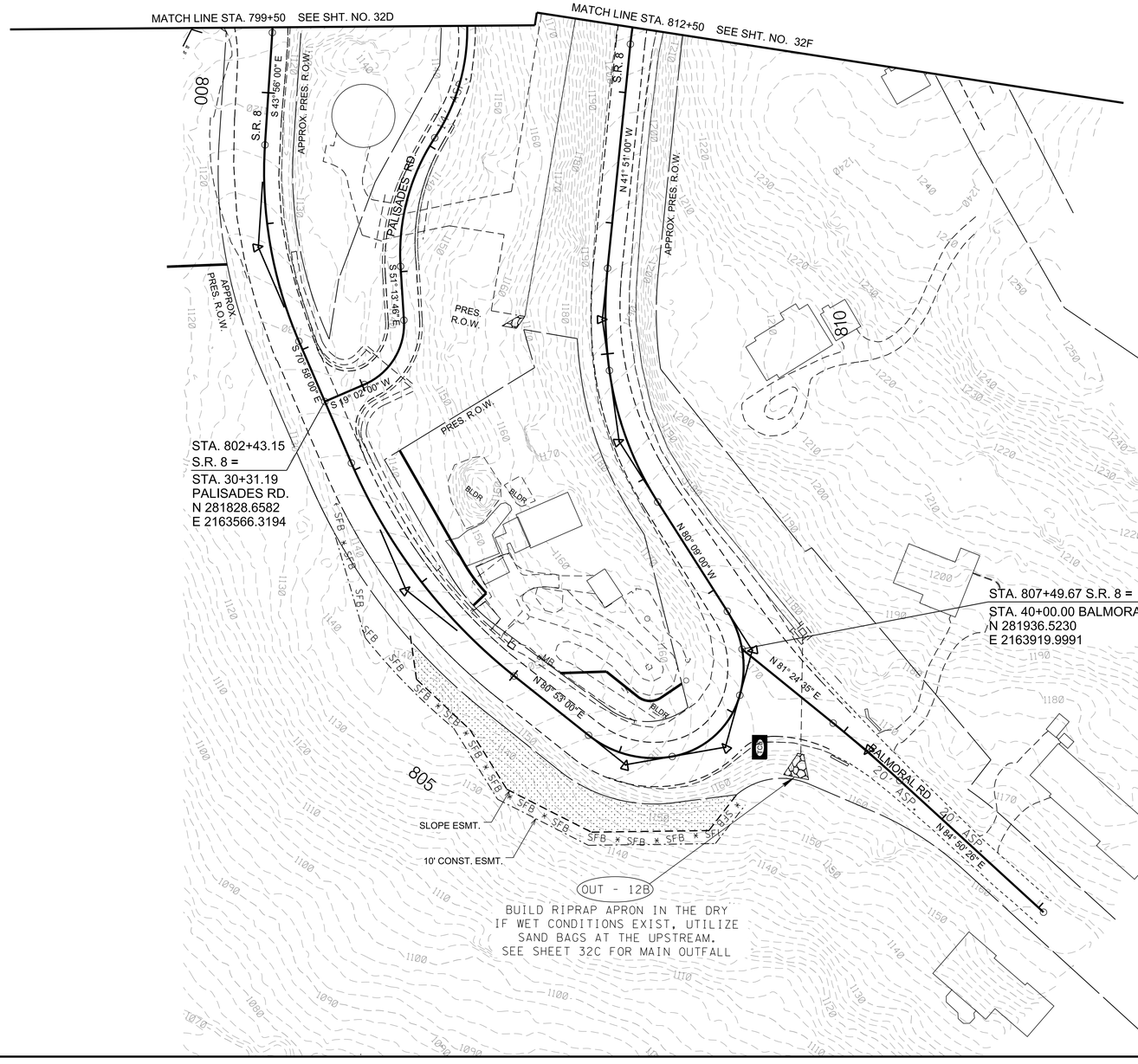
OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
12B	10.00 AC. (9.95 UNDISTURBED)	2.6

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	32E
PIH	2026	STP-8(52)	32E
PS&E	2026	STP-8(52)	32E



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.799+50 TO STA.812+50

SCALE: 1"=50'

STAGE I

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	32F
PIH	2026	STP-8(52)	32F
PS&E	2026	STP-8(52)	32F

REV. 3-8-22: UPDATED EPSC MEASURES FOR PIPES ADDED OR REMOVED IN THIS REVISION.

OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
13	1.97 (UNDISTURBED)	8.0
14	12.78 (12.72 UNDISTURBED)	19.5
14A	10.14 (10.09 UNDISTURBED)	5.3

SEQUENCE OF CONSTRUCTION FOR STR-4:
USE THE EXISTING PIPE AS SUSPENDED PIPE DIVERSION. ADD SAND BAGS AND ADDITIONAL BMPS PER STANDARD DRAWING EC-STR-33. SEDIMENT FILET BAG CAN BE PLACED ON THE EXISTING ROAD.
OUT-14B IS THE OUTFALL FOR SUSPENDED DIVERSION

POT 90+00.00
N 282677.6340
E 2162611.1694

PALISADES RD.
N 54° 34' 09" W

PRES. R.O.W.

STR-4

PROP. CONST. ESMT.

OUT - 14

POT 22+62.93
N 282377.1382
E 2163162.7524

10' CONST. ESMT.
PROP. PERM. DRAIN ESMT.

PALISADES RD.
S 55° 58' 36" E

S 7° 14' 09" E

PROP. R.O.W.

OUT - 13

PROP. PERM. DRAIN ESMT.
10' CONST. ESMT.

STA. 814+82.29 S.R. 8 =
STA. 50+00.00 SUNSET DR.
N 282412.6042
E 2163445.5148

10' CONST. ESMT.

STR-4

PROP. R.O.W.

OUT - 14A

N 38° 03' 00" W

N 31° 15' 00" W

S.R. 8

PROP. R.O.W.

MATCH LINE STA. 812+50 SEE SHT. NO. 32E

MATCH LINE STA. 825+50 SEE SHT. NO. 32G

S.R. 8
N 8° 29' 00" W

SUNSET DRIVE
20' ASP.

S 75° 35' 00" E

APPROX. PRES. R.O.W.

N 70° 51' 00" W

332' ASR'S.P.

APPROX. PRES. R.O.W.

15' CONST. ESMT.

TEMP. 12" SLOPE DRAIN

PROP. R.O.W.

825

820

815

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 812+50 TO STA. 825+50
SCALE: 1"=50'

STAGE I

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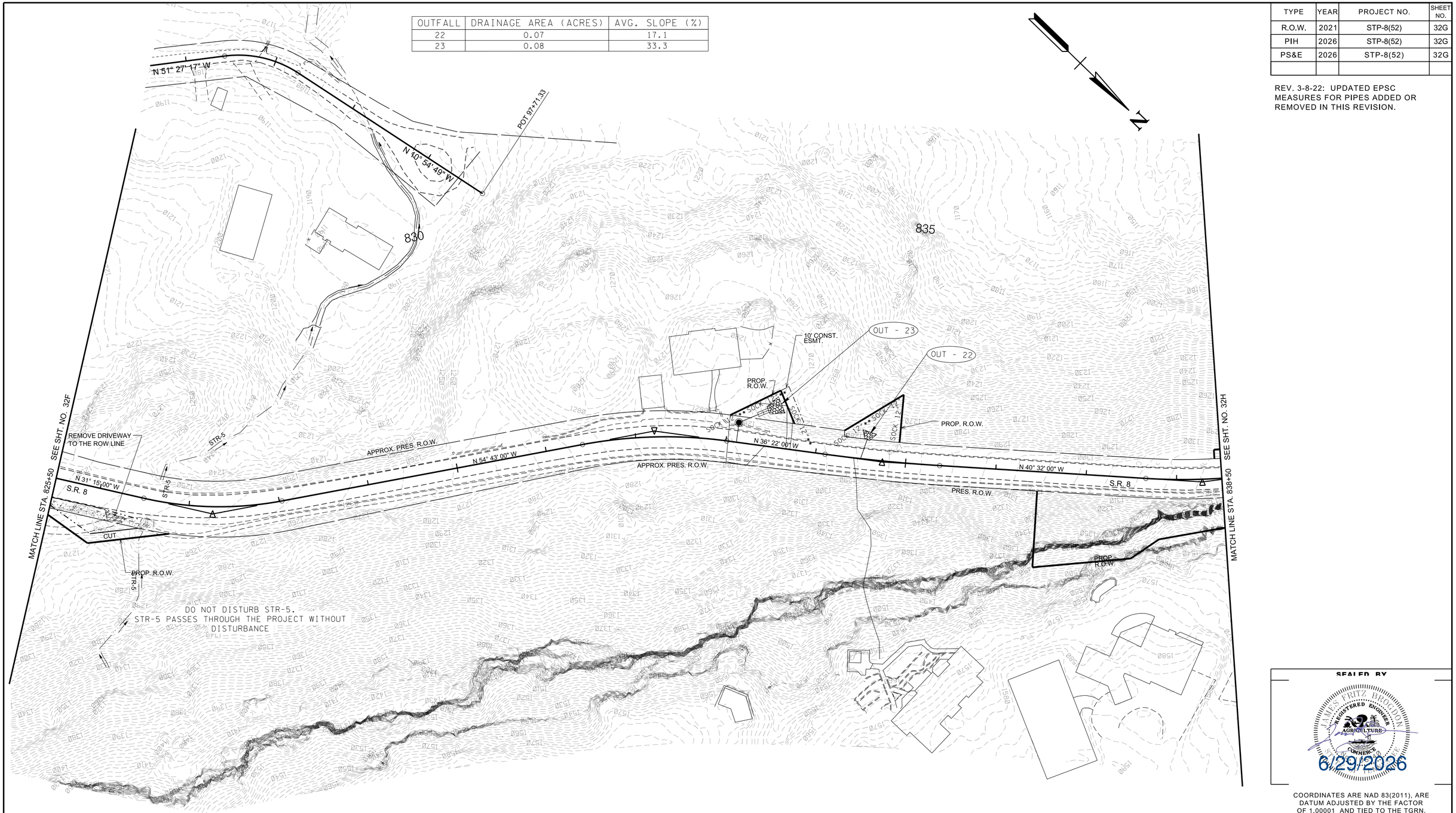
OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
22	0.07	17.1
23	0.08	33.3

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	32G
PIH	2026	STP-8(52)	32G
PS&E	2026	STP-8(52)	32G

REV. 3-8-22: UPDATED EPSC MEASURES FOR PIPES ADDED OR REMOVED IN THIS REVISION.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 825+50 TO STA. 838+50

SCALE: 1"=50'

STAGE I

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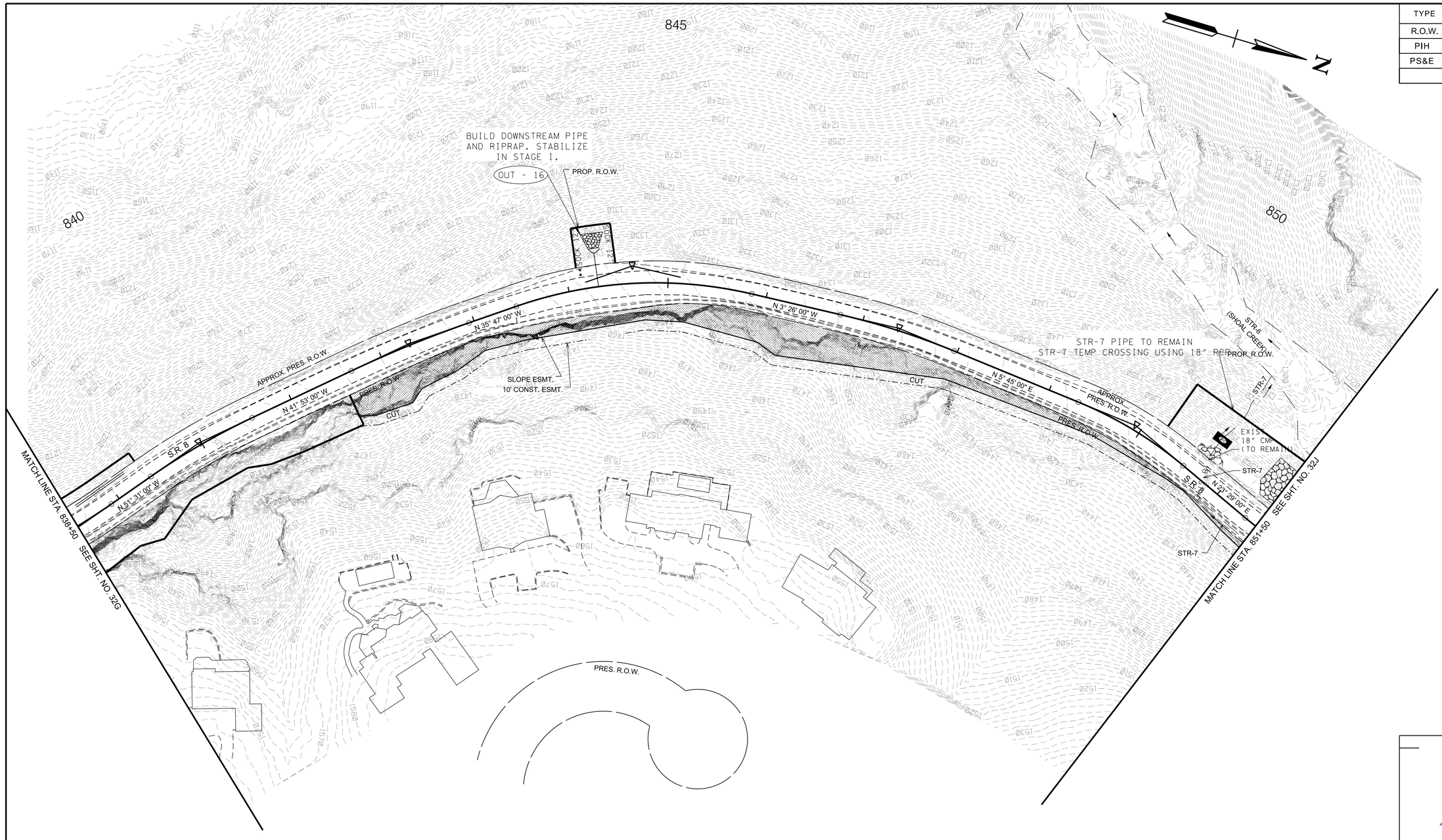
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	32H
PIH	2026	STP-8(52)	32H
PS&E	2026	STP-8(52)	32H



OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
16	0.05	41.9

STAGE I

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TENNESSEE DEPARTMENT OF AGRICULTURE
TENNESSEE DEPARTMENT OF COMMERCE & INSURANCE
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EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 838+50 TO STA. 851+50
SCALE: 1"= 50'

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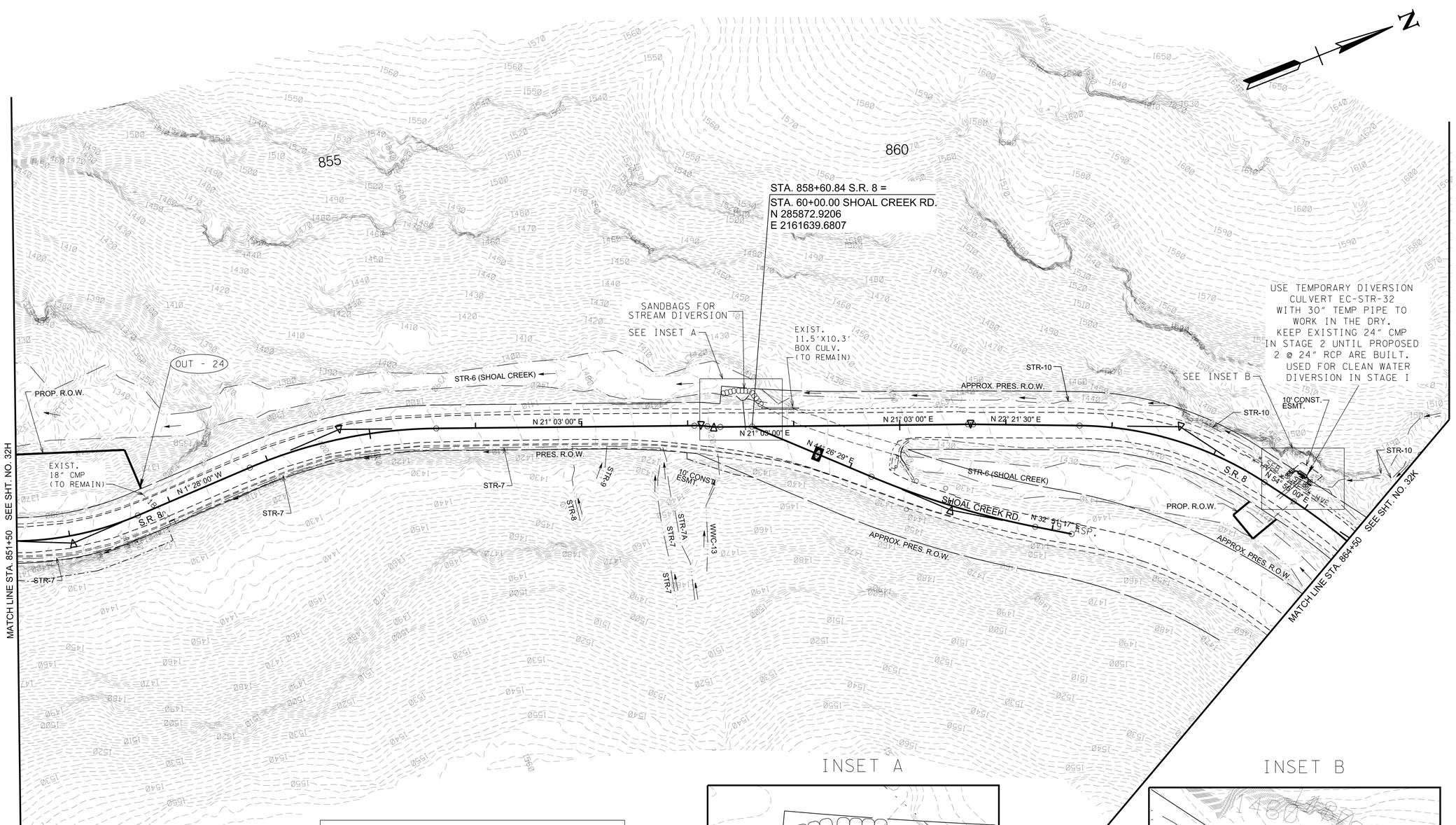
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	32J
PIH	2026	STP-8(52)	32J
PS&E	2026	STP-8(52)	32J

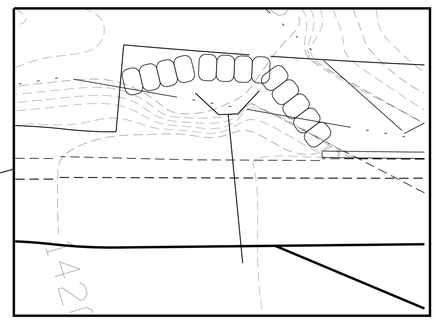


NOTE: CATCH BASINS AND CROSS DRAIN SHALL BE CONSTRUCTED DURING DRY PERIODS IF PRACTICABLE. IF CONSTRUCTION TIMING DOES NOT PERMIT, THE CONTRACTOR MAY UTILIZE A TEMPORARY PUMP AROUND. (SEE DETAIL SHEET 31)

OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
24	9.27 AC. (UNDISTURBED)	8.3

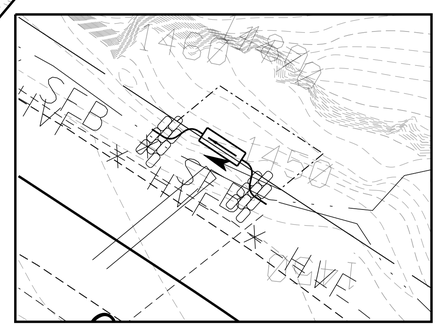
CREST DRIVE

INSET A



N.T.S.

INSET B



N.T.S.

STAGE I

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JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 851+50 TO STA. 864+50
SCALE: 1"=50'

6/29/2026 5:12:35 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	32K
PIH	2026	STP-8(52)	32K
PS&E	2026	STP-8(52)	32K

NO DRAINAGE OR GRADING WILL BE PERFORMED BETWEEN STA. 864+50 AND 877+50



STAGE I

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 864+50 TO STA. 877+50
SCALE: 1"=50'

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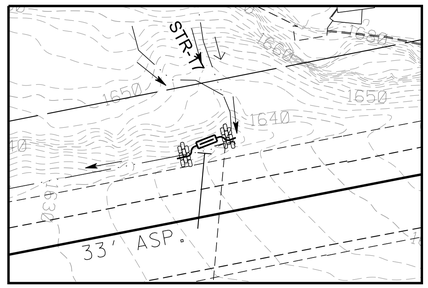
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	32L
PIH	2026	STP-8(52)	32L
PS&E	2026	STP-8(52)	32L

INSET C



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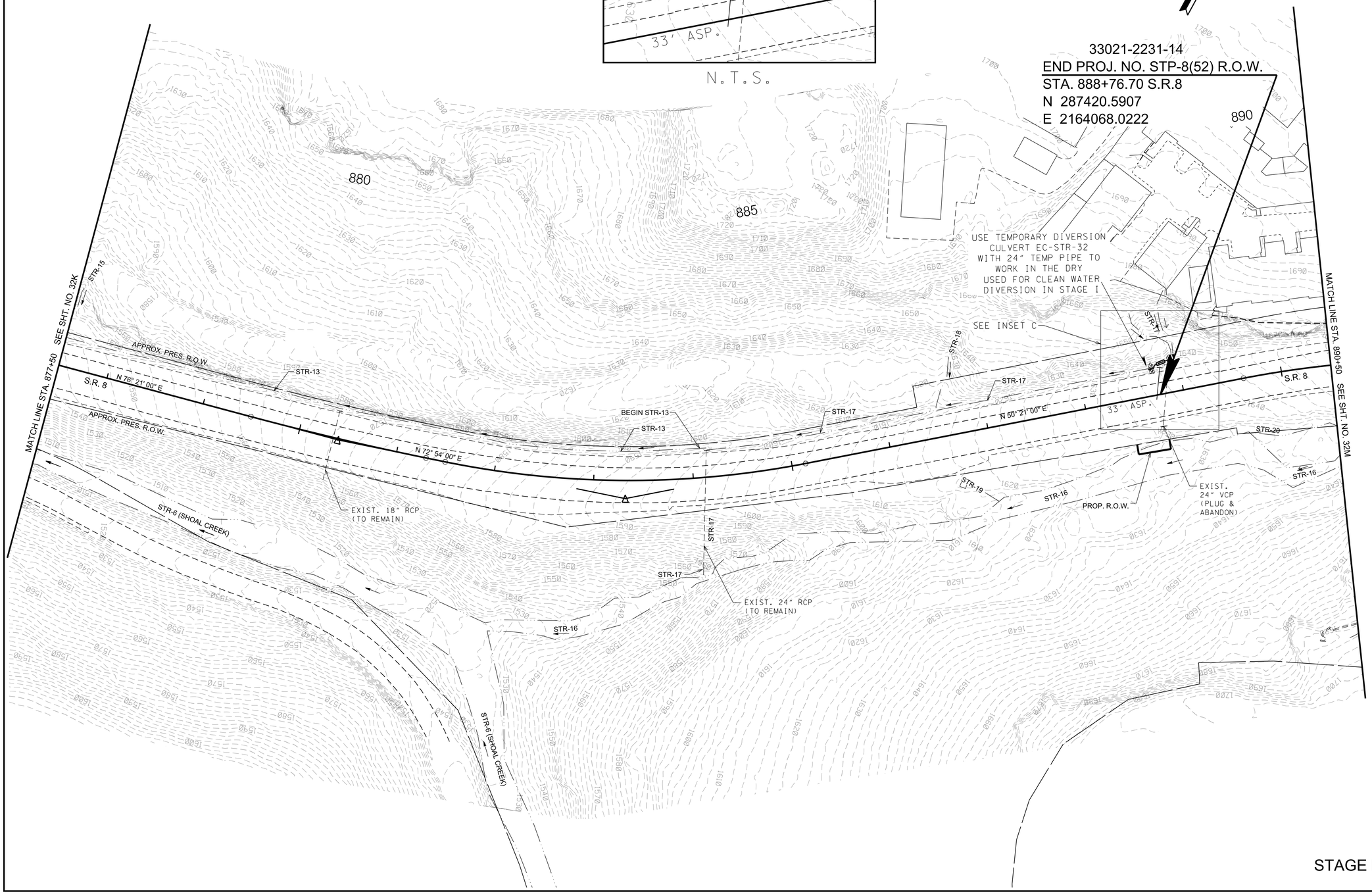

STAGE I

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 877+50 TO STA. 890+50
SCALE: 1"= 50'

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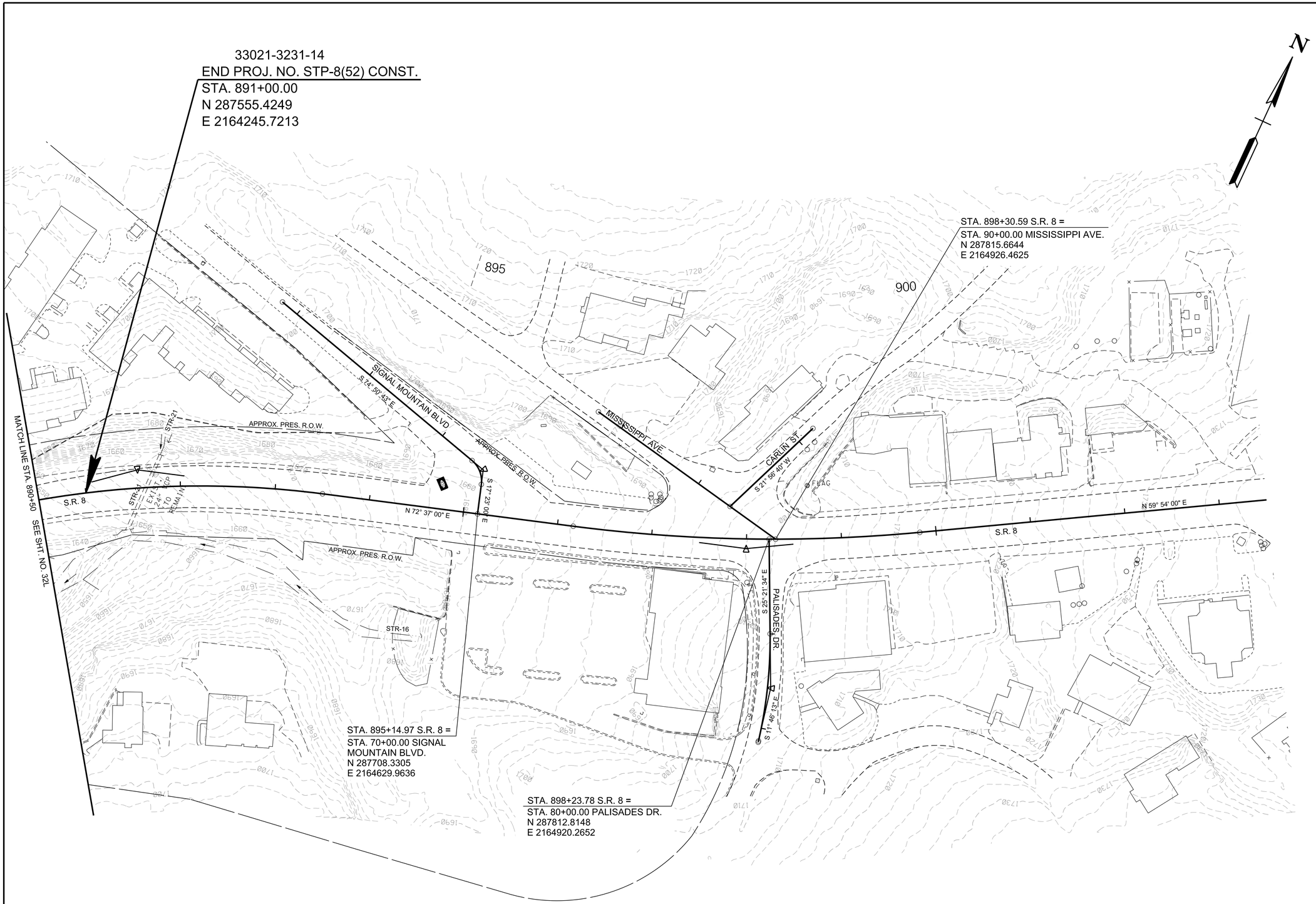
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	32M
PIH	2026	STP-8(52)	32M
PS&E	2026	STP-8(52)	32M



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COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.890+50 TO STA.898+23.78
SCALE: 1"= 50'

STAGE I

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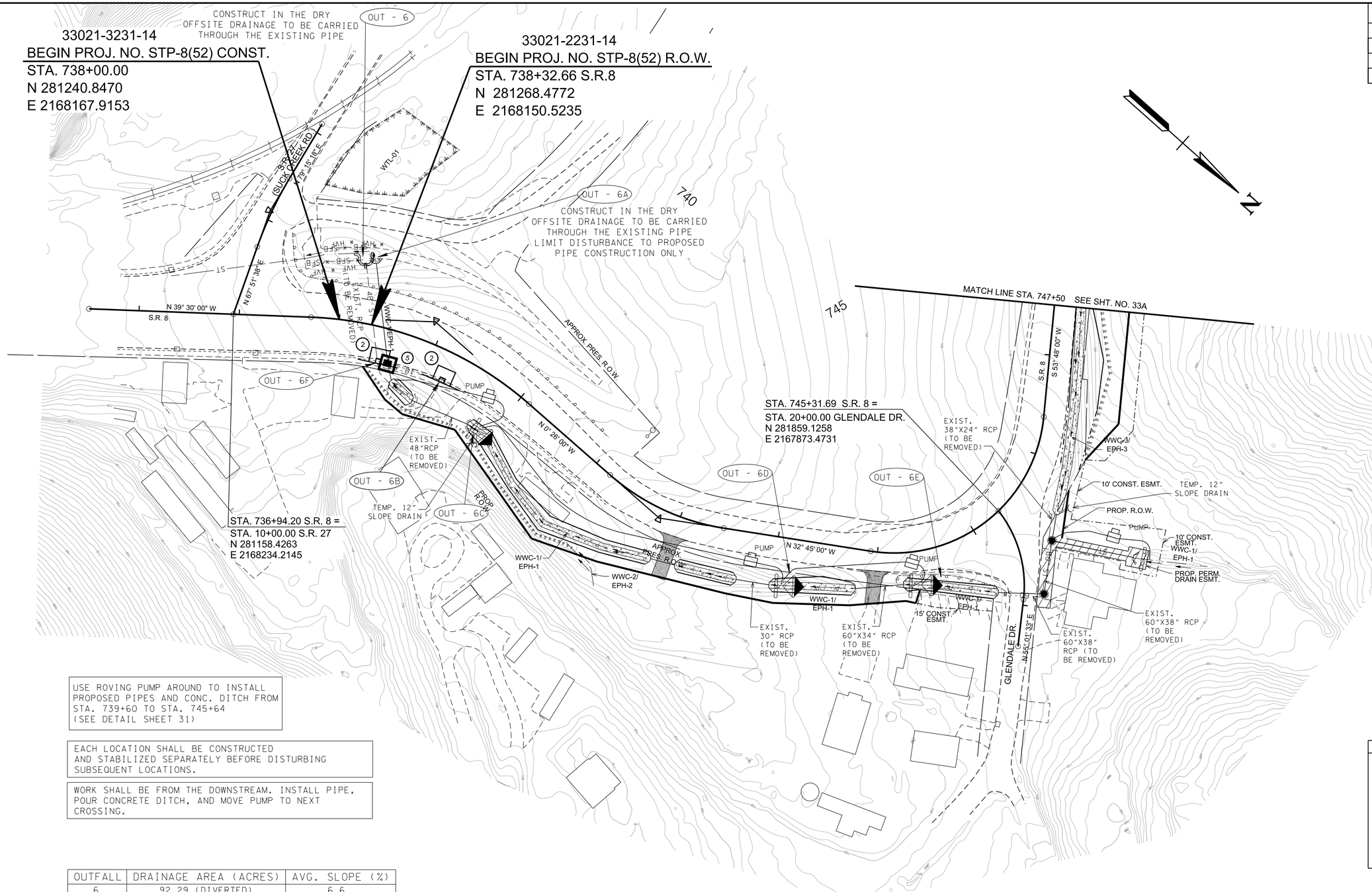
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	33
PIH	2026	STP-8(52)	33
PS&E	2026	STP-8(52)	33



USE ROVING PUMP AROUND TO INSTALL PROPOSED PIPES AND CONC. DITCH FROM STA. 739+60 TO STA. 745+64 (SEE DETAIL SHEET 31)

EACH LOCATION SHALL BE CONSTRUCTED AND STABILIZED SEPARATELY BEFORE DISTURBING SUBSEQUENT LOCATIONS.

WORK SHALL BE FROM THE DOWNSTREAM. INSTALL PIPE, POUR CONCRETE DITCH, AND MOVE PUMP TO NEXT CROSSING.

OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
6	92.29 (DIVERTED)	6.6
6F	0.07	6.6
6B	0.15	5.1
6C	0.23	32.6
6D	4.12	7.5
6E	3.10	19.5
6A	0.04	12.5

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 735+50 TO STA. 747+50
SCALE: 1"= 50'

STAGE II
PROPOSED CONTOURS SHOWN

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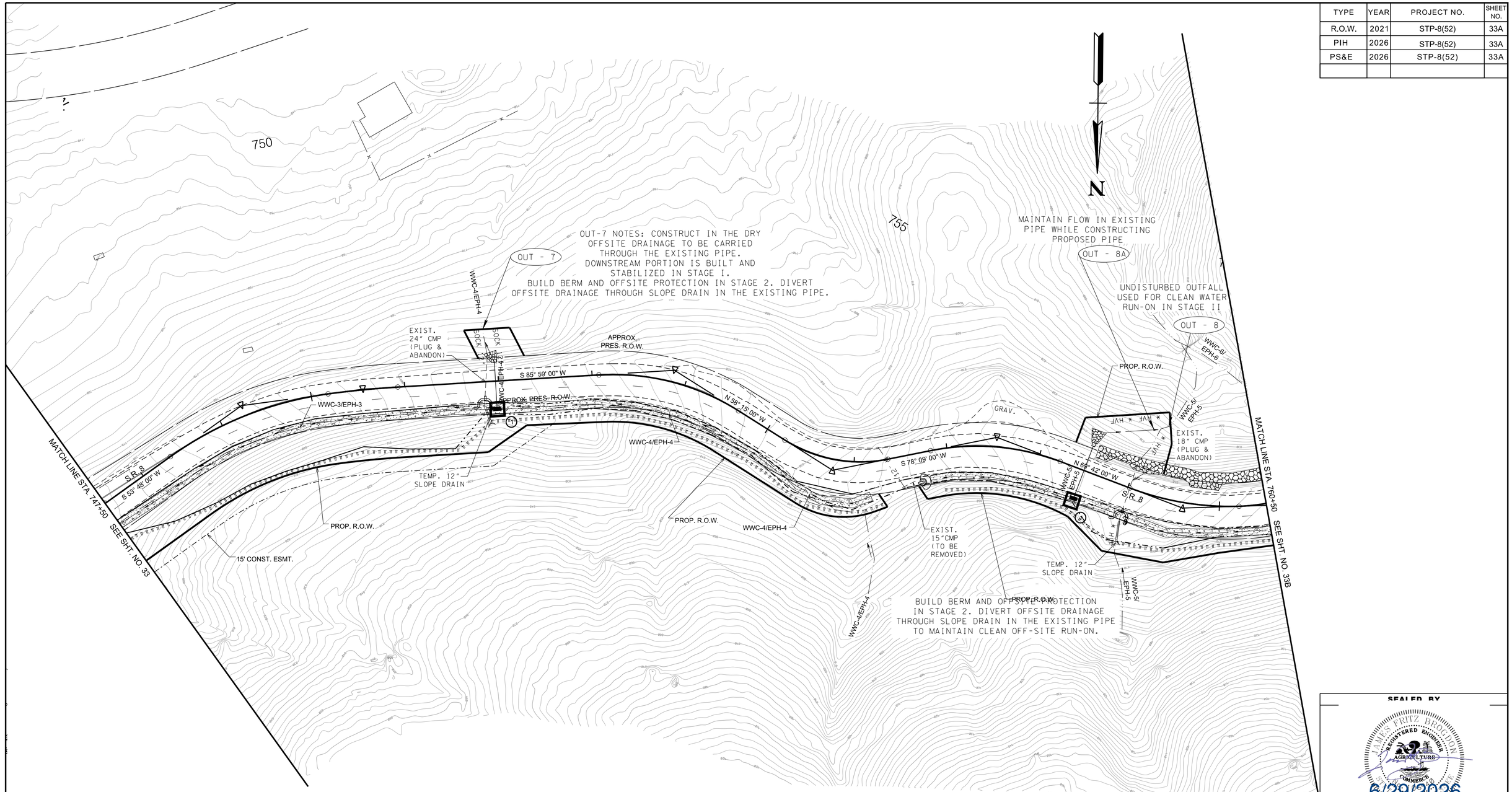
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	33A
PIH	2026	STP-8(52)	33A
PS&E	2026	STP-8(52)	33A



OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
7	7.38 AC. (6.74 UNDISTURBED)	7.1
8	5.38 AC. UNDISTURBED	3.6
8A	0.19 AC.	2.2

TRANSFER SLOPE DRAINS TO PROPOSED CULVERTS PRIOR TO PLUGGING AND ABANDONING EXISTING CULVERTS.

NOTE: DITCHES AND CATCH BASINS SHALL BE CONSTRUCTED IN THE DRY TO MAXIMUM EXTENT PRACTICABLE USING TEMPORARY PUMP AROUND. (SEE DETAIL SHEET 31)

WWC-4/EPH-4 AND WWC-5/EPH-5 RELOCATION SEQUENCE
1. CONTINUE TO MAINTAIN FLOW IN THE EXISTING CULVERT.
2. COMPLETE THE CONSTRUCTION OF THE CROSS DRAIN AND CATCH BASIN ON THE RIGHT SIDE.
3. REMOVE DIVERSION BERMS, BEGINNING DOWN STREAM. THE RELOCATED STREAM SHOULD TRANSITION SMOOTHLY INTO THE EXISTING STREAM.
4. SHIFT FLOW TO THE NEWLY CONSTRUCTED CULVERT.

STAGE II

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.747+50 TO STA.760+50
SCALE: 1"=50'

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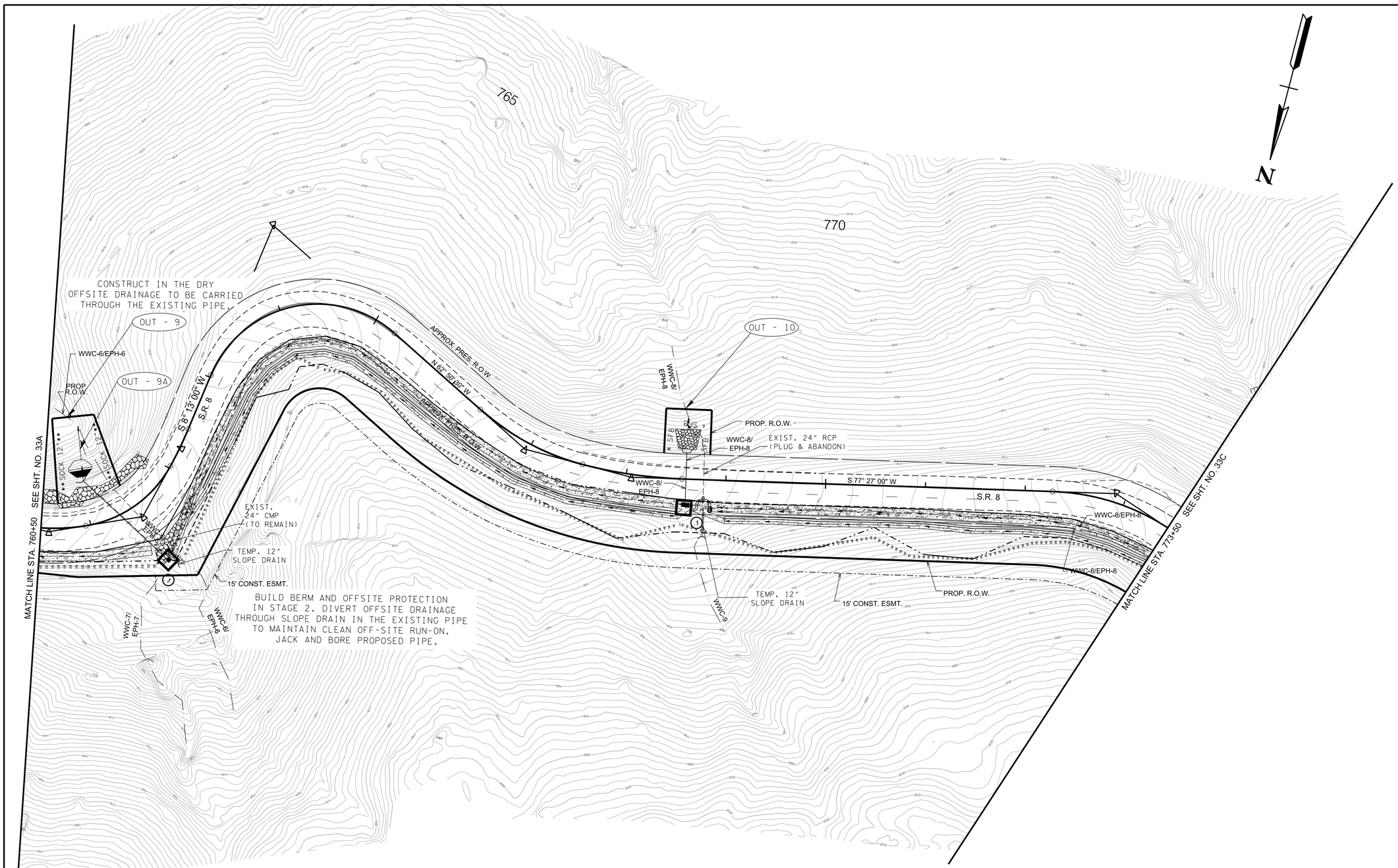
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	33B
PIH	2026	STP-8(52)	33B
PS&E	2026	STP-8(52)	33B



OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
9	45.80 AC. (UNDISTURBED)	32.8
10	34.80 AC. (34.38 UNDISTURBED)	29.4
9A	0.34 AC.	7.4

TRANSFER SLOPE DRAINS TO PROPOSED CULVERTS PRIOR TO PLUGGING AND ABANDONING EXISTING CULVERTS.

NOTE: DITCHES AND CATCH BASINS SHALL BE CONSTRUCTED IN THE DRY TO MAXIMUM EXTENT PRACTICABLE USING TEMPORARY PUMP AROUND. (SEE DETAIL SHEET 31.

WWC-6/EPH-6 AND WWC-8/EPH-8 RELOCATION SEQUENCE
1. CONTINUE TO MAINTAIN FLOW IN THE EXISTING CULVERT.
2. COMPLETE THE CONSTRUCTION OF THE CROSS DRAIN AND CATCH BASIN ON THE RIGHT SIDE.
3. REMOVE DIVERSION BERMS, BEGINNING DOWN STREAM. THE RELOCATED STREAM SHOULD TRANSITION SMOOTHLY INTO THE EXISTING STREAM.
4. SHIFT FLOW TO THE NEWLY CONSTRUCTED CULVERT.

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.760+50 TO STA.773+50

SCALE: 1"=50'

STAGE II

6/29/2026 5:13:29 PM
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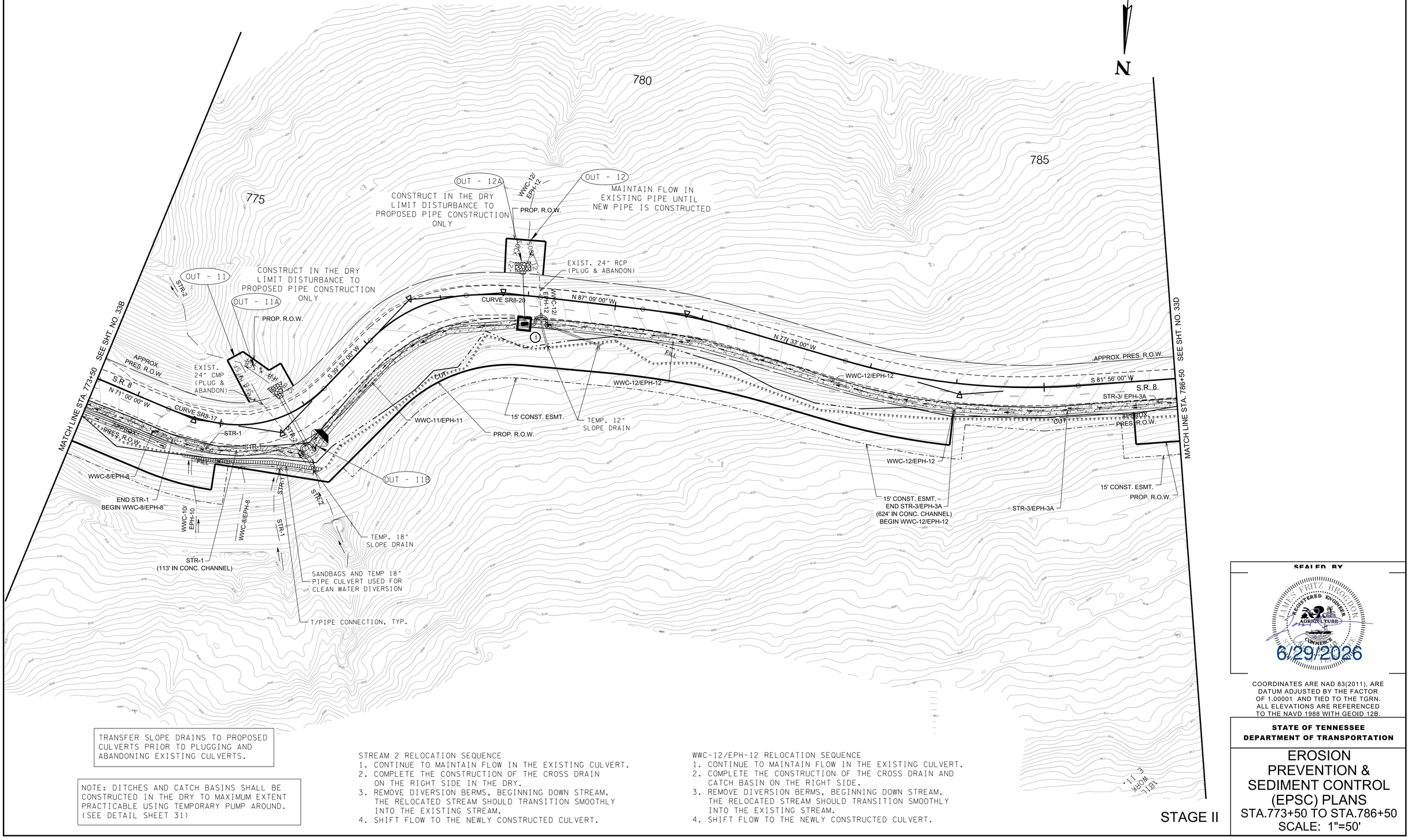
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	33C
PIH	2026	STP-8(52)	33C
PS&E	2026	STP-8(52)	33C

OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
11	0.03 AC. UNDISTURBED	25.7
11B	0.42	1.89
11A	0.05	39.5
12	45.6 AC.UNDISTURBED	31.3
12A	0.80	7.3



TRANSFER SLOPE DRAINS TO PROPOSED CULVERTS PRIOR TO PLUGGING AND ABANDONING EXISTING CULVERTS.

NOTE: DITCHES AND CATCH BASINS SHALL BE CONSTRUCTED IN THE DRY TO MAXIMUM EXTENT PRACTICABLE USING TEMPORARY PUMP AROUND. (SEE DETAIL SHEET 31)

STREAM 2 RELOCATION SEQUENCE
1. CONTINUE TO MAINTAIN FLOW IN THE EXISTING CULVERT.
2. COMPLETE THE CONSTRUCTION OF THE CROSS DRAIN ON THE RIGHT SIDE IN THE DRY.
3. REMOVE DIVERSION BERMS, BEGINNING DOWN STREAM. THE RELOCATED STREAM SHOULD TRANSITION SMOOTHLY INTO THE EXISTING STREAM.
4. SHIFT FLOW TO THE NEWLY CONSTRUCTED CULVERT.

WWC-12/EPH-12 RELOCATION SEQUENCE
1. CONTINUE TO MAINTAIN FLOW IN THE EXISTING CULVERT.
2. COMPLETE THE CONSTRUCTION OF THE CROSS DRAIN AND CATCH BASIN ON THE RIGHT SIDE.
3. REMOVE DIVERSION BERMS, BEGINNING DOWN STREAM. THE RELOCATED STREAM SHOULD TRANSITION SMOOTHLY INTO THE EXISTING STREAM.
4. SHIFT FLOW TO THE NEWLY CONSTRUCTED CULVERT.

STAGE II

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AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.773+50 TO STA.786+50
SCALE: 1"=50'

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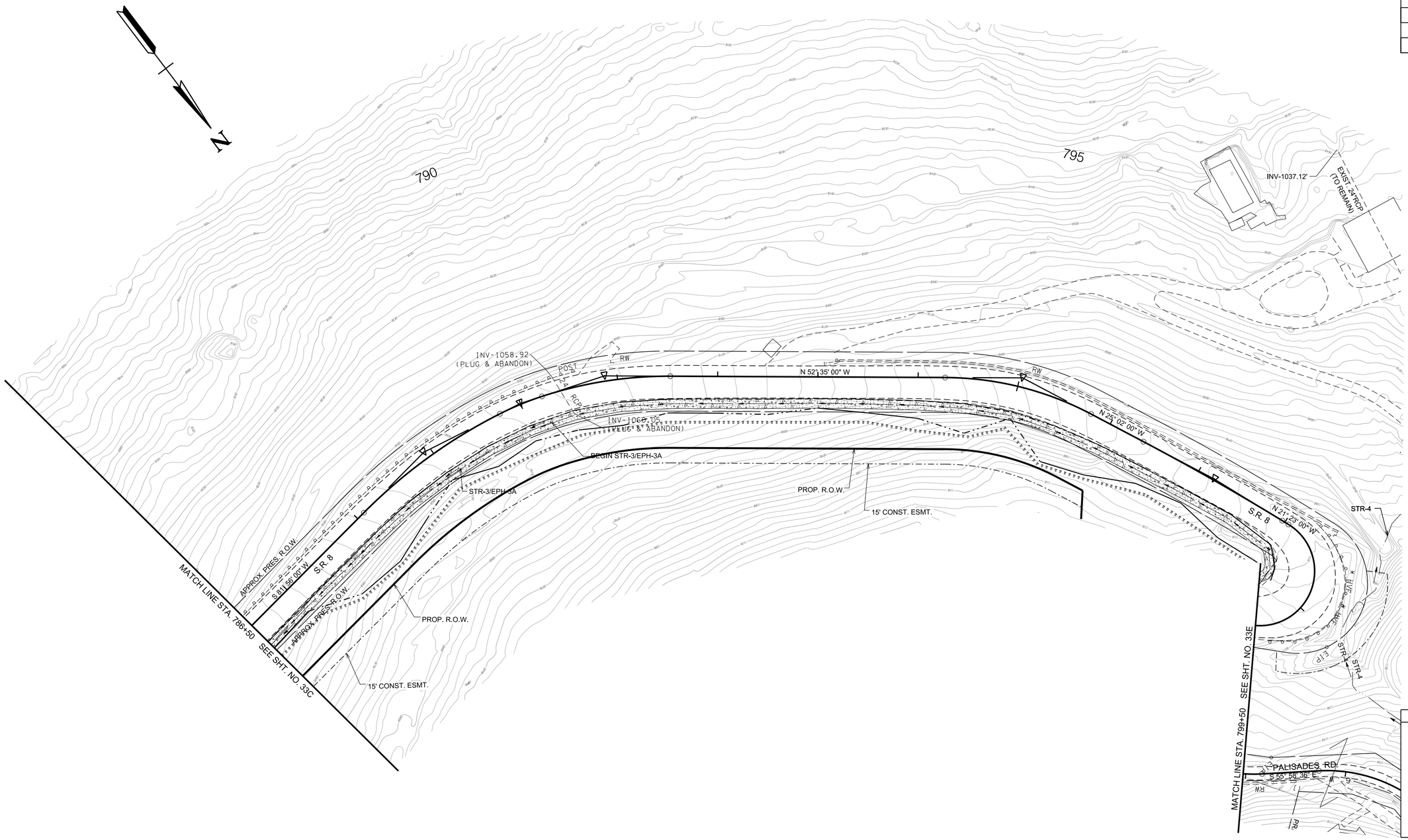
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	33D
PIH	2026	STP-8(52)	33D
PS&E	2026	STP-8(52)	33D



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.786+50 TO STA.799+50

SCALE: 1"=50'

STAGE II

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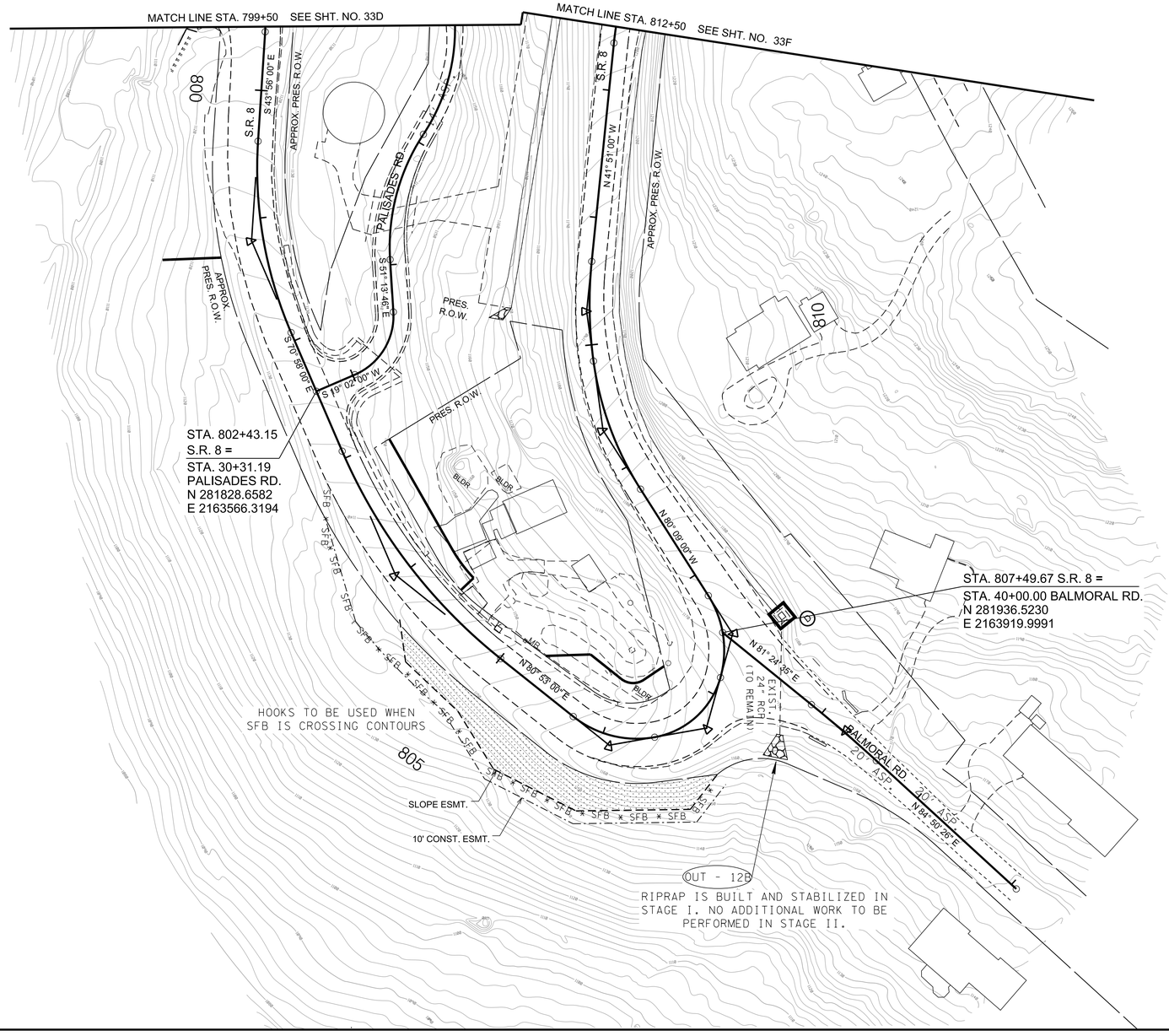
OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
12B	10.00 AC. UNDISTURBED	2.6

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	33E
PIH	2026	STP-8(52)	33E
PS&E	2026	STP-8(52)	33E



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.799+50 TO STA.812+50

SCALE: 1"=50'

STAGE II

6/29/2026 5:13:59 PM
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OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
13	1.97 (UNDISTURBED)	8.0
14	12.78 AC. (12.72 UNDISTURBED)	19.5
14A	10.14 AC.(9.68 UNDISTURBED)	5.3
12C	0.19	4.5

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	33F
PIH	2026	STP-8(52)	33F
PS&E	2026	STP-8(52)	33F

REV. 3-8-22: UPDATED EPSC MEASURES FOR PIPES ADDED OR REMOVED IN THIS REVISION.

MATCH LINE STA. 812+50 SEE SHT. NO. 33E

MATCH LINE STA. 825+50 SEE SHT. NO. 33G

STR-4

HYE

STR-4

25' CONST. ESMT.

STRUCTURE IS BUILT IN STAGE 1

OUT - 14

POT 22462.93
N 282377.1382
E 2163162.7524

10' CONST. ESMT.

PROP. PERM. DRAIN ESMT.

PALISADES RD.
S 55° 56' 36" E

S 7° 44' 09" E

PROP. R.O.W.

PRES. R.O.W.

875

OUT - 13

FOR OFF-SITE CLEAN RUN-ON

STA. 814+82.29 S.R. 8 =
STA. 50+00.00 SUNSET DR.
N 282412.6042
E 2163445.5148

PROP. PERM. DRAIN ESMT.

10' CONST. ESMT.

10' CONST. ESMT.

PROP. R.O.W.

STR-4

OUT - 14A

S.R. 8

N 8° 29' 00" W

EXIST. PIPE (PLUG & ABAND.)

SUNSET DRIVE
20' ASP.

S 75° 35' 00" E

TEMP. 12" SLOPE DRAIN

OUT - 120

APPROX. PRES. R.O.W.

322 ASP.

APPROX. PRES. R.O.W.

N 70° 51' 00" W

15' CONST. ESMT.

PROP. R.O.W.

POT 90+00.00
N 282677.6340
E 2162611.1694

PALISADES RD.
N 54° 34' 09" W

PRES. R.O.W.

PRES. R.O.W.

825

820

EXIST. 18"CMP (TO BE REMOVED)

EXIST. 18"CMP (TO BE REMOVED)

N 38° 03' 00" W

N 31° 15' 00" W

S.R. 8

PROP. R.O.W.

TEMP. 12" SLOPE DRAIN

TEMP. 12" SLOPE DRAIN

TRANSFER SLOPE DRAINS TO PROPOSED CULVERTS PRIOR TO PLUGGING AND ABANDONING EXISTING CULVERTS.

NOTE: DITCHES AND CATCH BASINS SHALL BE CONSTRUCTED IN THE DRY TO MAXIMUM EXTENT PRACTICABLE USING TEMPORARY PUMP AROUND. (SEE DETAIL SHEET 31)

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JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE

6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 812+50 TO STA. 825+50
SCALE: 1"=50'

STAGE II

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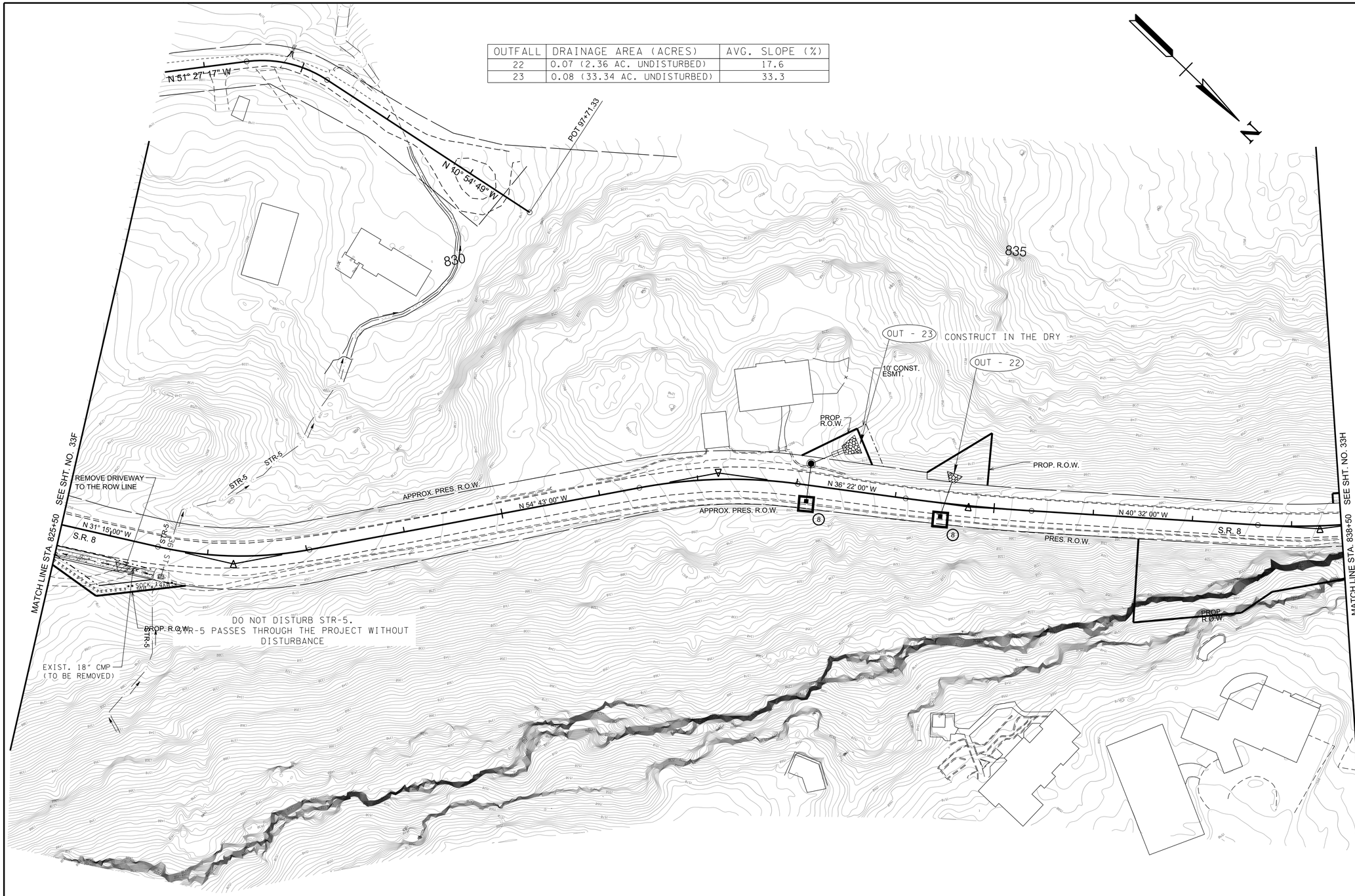
OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
22	0.07 (2.36 AC. UNDISTURBED)	17.6
23	0.08 (33.34 AC. UNDISTURBED)	33.3

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	33G
PIH	2026	STP-8(52)	33G
PS&E	2026	STP-8(52)	33G

REV. 3-8-22: UPDATED EPSC MEASURES FOR PIPES ADDED OR REMOVED IN THIS REVISION.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 825+50 TO STA. 838+50

SCALE: 1"=50'

STAGE II

6/29/2026 5:14:16 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	33H
PIH	2026	STP-8(52)	33H
PS&E	2026	STP-8(52)	33H



NOTE: CATCH BASINS AND CROSS DRAIN SHALL BE CONSTRUCTED DURING DRY PERIODS IF PRACTICABLE. IF CONSTRUCTION TIMING DOES NOT PERMIT, THE CONTRACTOR MAY UTILIZE A TEMPORARY PUMP AROUND. (SEE DETAIL SHEET 31)

OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
16	14.9 AC.(14.85 UNDISTURBED)	3.1

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 838+50 TO STA. 851+50
SCALE: 1"= 50'

STAGE II

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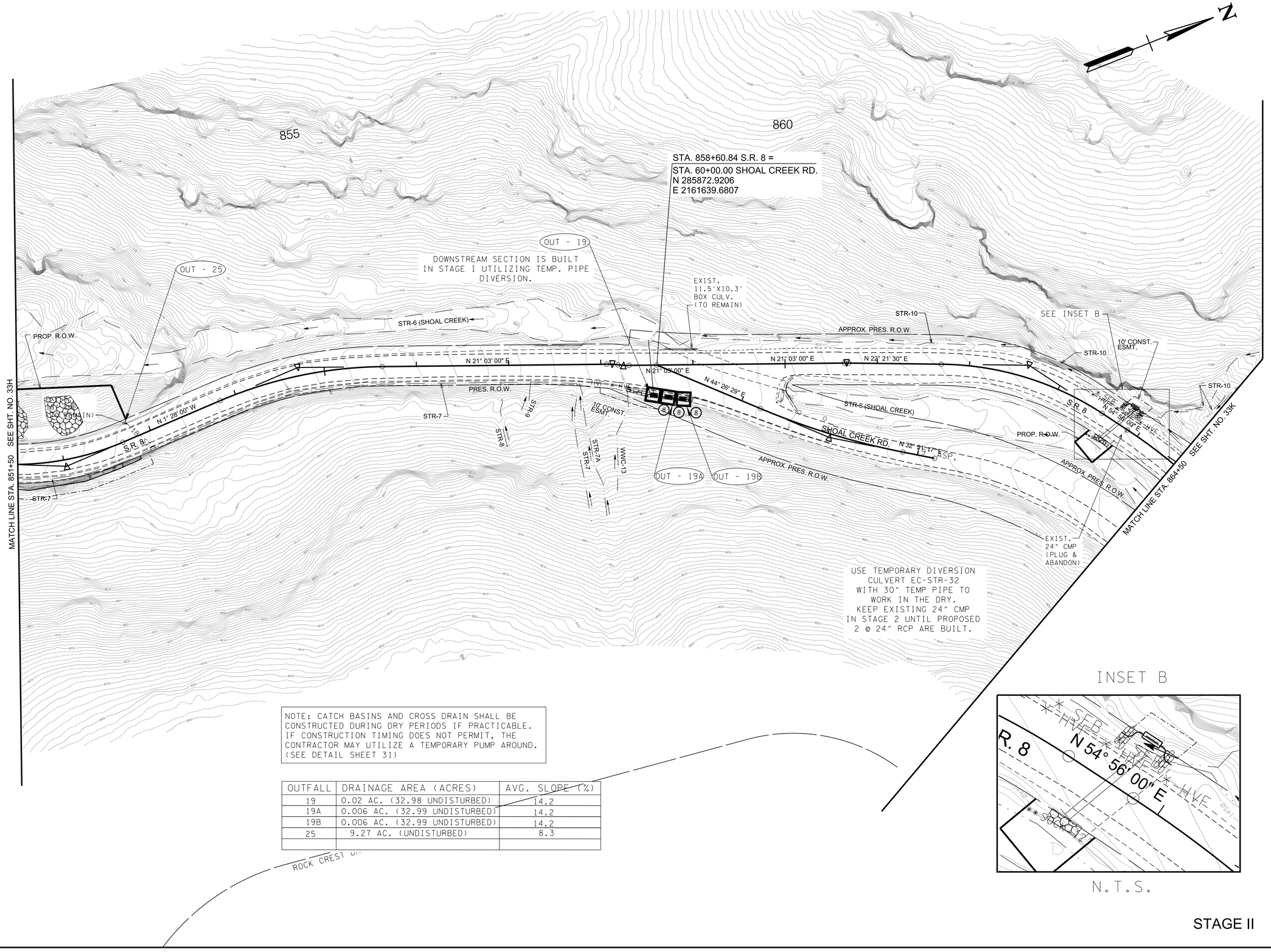
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	33J
PIH	2026	STP-8(52)	33J
PS&E	2026	STP-8(52)	33J

REV. 9-21-23: UPDATED EROSION CONTROL MEASURES FOR THE CATCHBASINS AT STA. 858+50.



NOTE: CATCH BASINS AND CROSS DRAIN SHALL BE CONSTRUCTED DURING DRY PERIODS IF PRACTICABLE. IF CONSTRUCTION TIMING DOES NOT PERMIT, THE CONTRACTOR MAY UTILIZE A TEMPORARY PUMP AROUND. (SEE DETAIL SHEET 31)

OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
19	0.02 AC. (32.98 UNDISTURBED)	14.2
19A	0.006 AC. (32.99 UNDISTURBED)	14.2
19B	0.006 AC. (32.99 UNDISTURBED)	14.2
25	9.27 AC. (UNDISTURBED)	8.3

INSET B

R. 8
N 54° 56' 00" E
SEE
SEE
SEE

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	33K
PIH	2026	STP-8(52)	33K
PS&E	2026	STP-8(52)	33K

NO DRAINAGE OR GRADING WILL BE PERFORMED BETWEEN STA. 864+50 AND 877+50



SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 864+50 TO STA. 877+50
SCALE: 1"=50'

STAGE II

6/29/2026 5:14:44 PM
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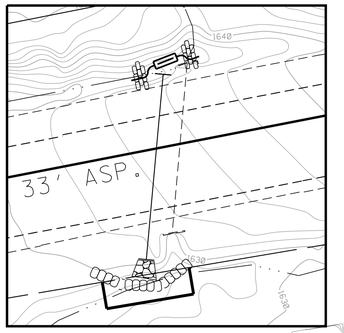
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	33L
PIH	2026	STP-8(52)	33L
PS&E	2026	STP-8(52)	33L

INSET C



N.T.S.



STAGE II

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 877+50 TO STA. 890+50
SCALE: 1"= 50'

6/29/2026 5:14:53 PM
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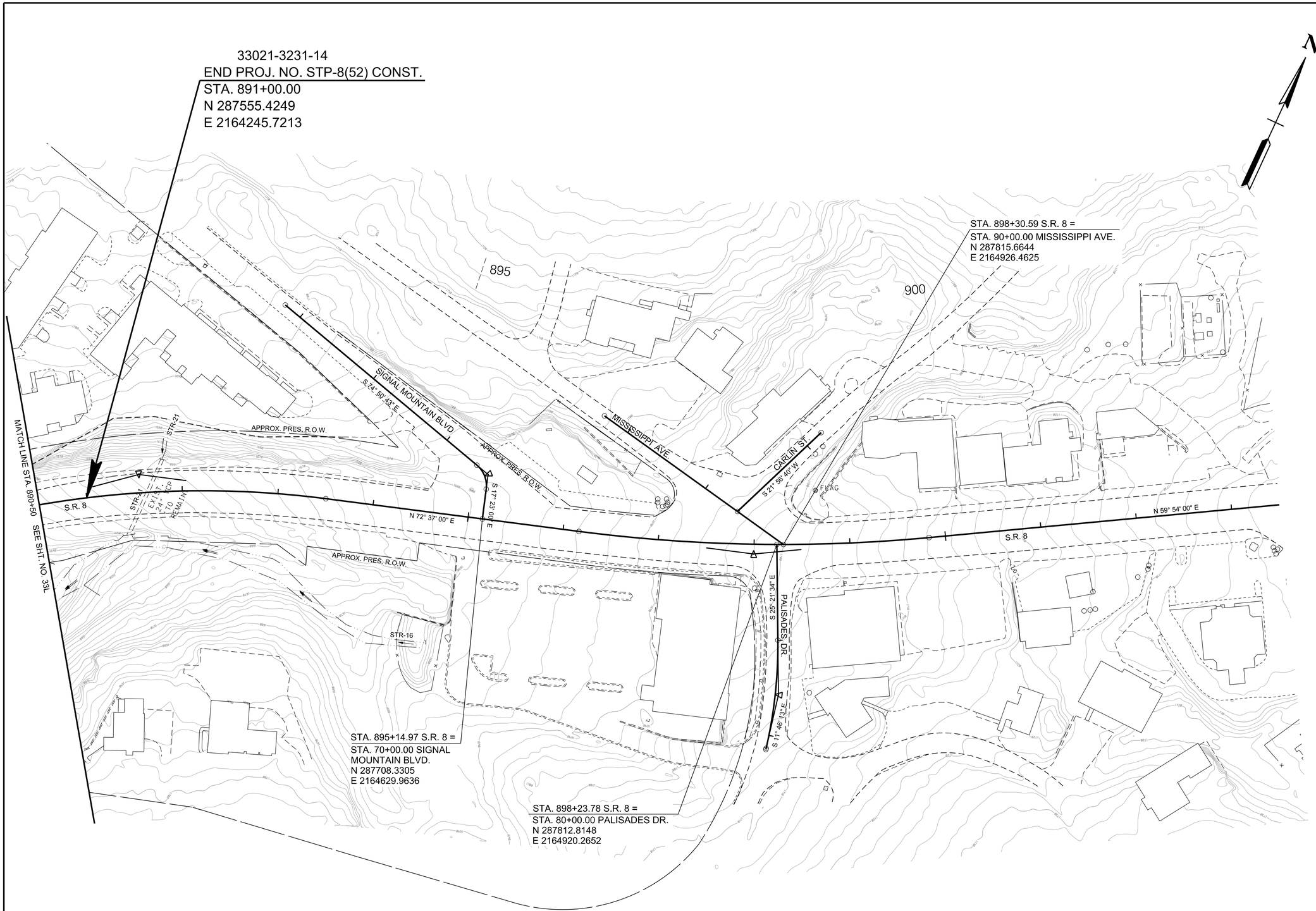
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	33M
PIH	2026	STP-8(52)	33M
PS&E	2026	STP-8(52)	33M



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.890+50 TO STA.898+23.78
SCALE: 1"= 50'

STAGE II

6/29/2026 5:15:01 PM
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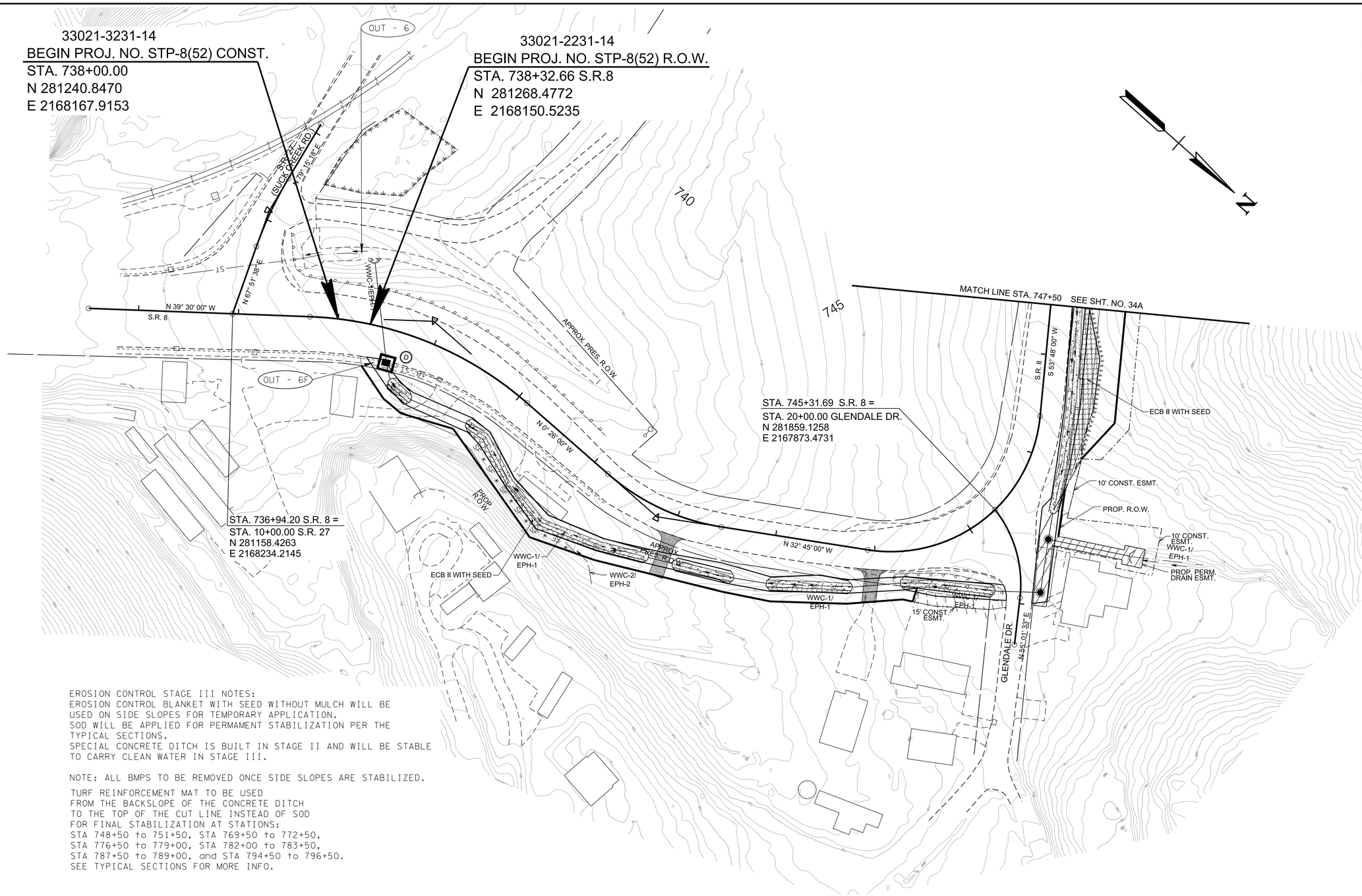
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	34
PIH	2026	STP-8(52)	34
PS&E	2026	STP-8(52)	34



EROSION CONTROL STAGE III NOTES:
EROSION CONTROL BLANKET WITH SEED WITHOUT MULCH WILL BE USED ON SIDE SLOPES FOR TEMPORARY APPLICATION.
SOD WILL BE APPLIED FOR PERMAMENT STABILIZATION PER THE TYPICAL SECTIONS.
SPECIAL CONCRETE DITCH IS BUILT IN STAGE II AND WILL BE STABLE TO CARRY CLEAN WATER IN STAGE III.

NOTE: ALL BMPS TO BE REMOVED ONCE SIDE SLOPES ARE STABILIZED.

TURF REINFORCEMENT MAT TO BE USED FROM THE BACKSLOPE OF THE CONCRETE DITCH TO THE TOP OF THE CUT LINE INSTEAD OF SOD FOR FINAL STABILIZATION AT STATIONS:
STA 748+50 to 751+50, STA 769+50 to 772+50,
STA 776+50 to 779+00, STA 782+00 to 783+50,
STA 787+50 to 789+00, and STA 794+50 to 796+50.
SEE TYPICAL SECTIONS FOR MORE INFO.

OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
6	92.29 (UNDISTURBED)	6.6
6F	0.07	6.6

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS
STA. 735+50 TO STA. 747+50
SCALE: 1"= 50'

STAGE III
PROPOSED CONTOURS SHOWN

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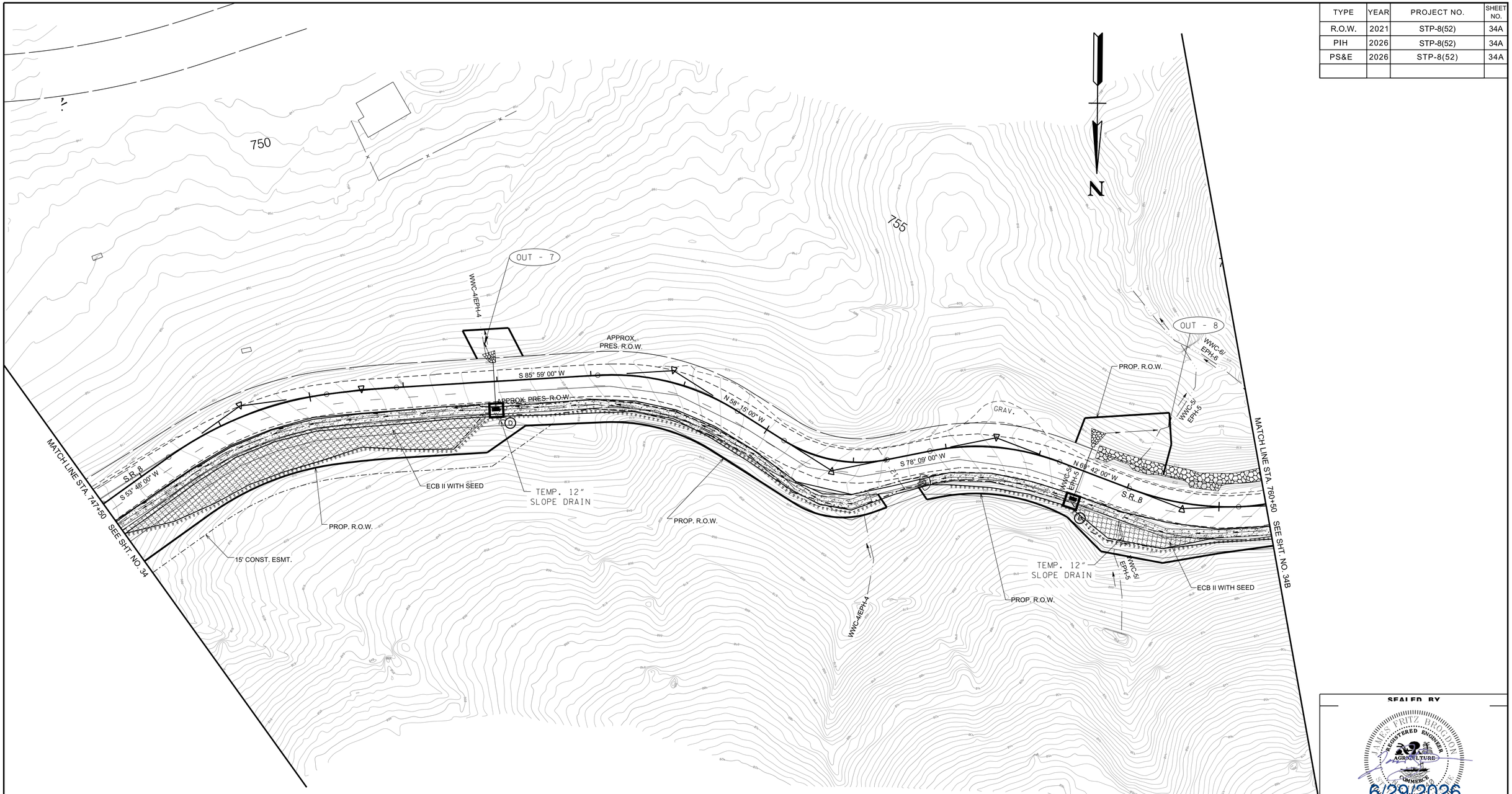
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	34A
PIH	2026	STP-8(52)	34A
PS&E	2026	STP-8(52)	34A



OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
7	7.38 (UNDISTURBED)	6.2
8	5.38 (UNDISTURBED)	3.6

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EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.747+50 TO STA.760+50
SCALE: 1"=50'

STAGE III

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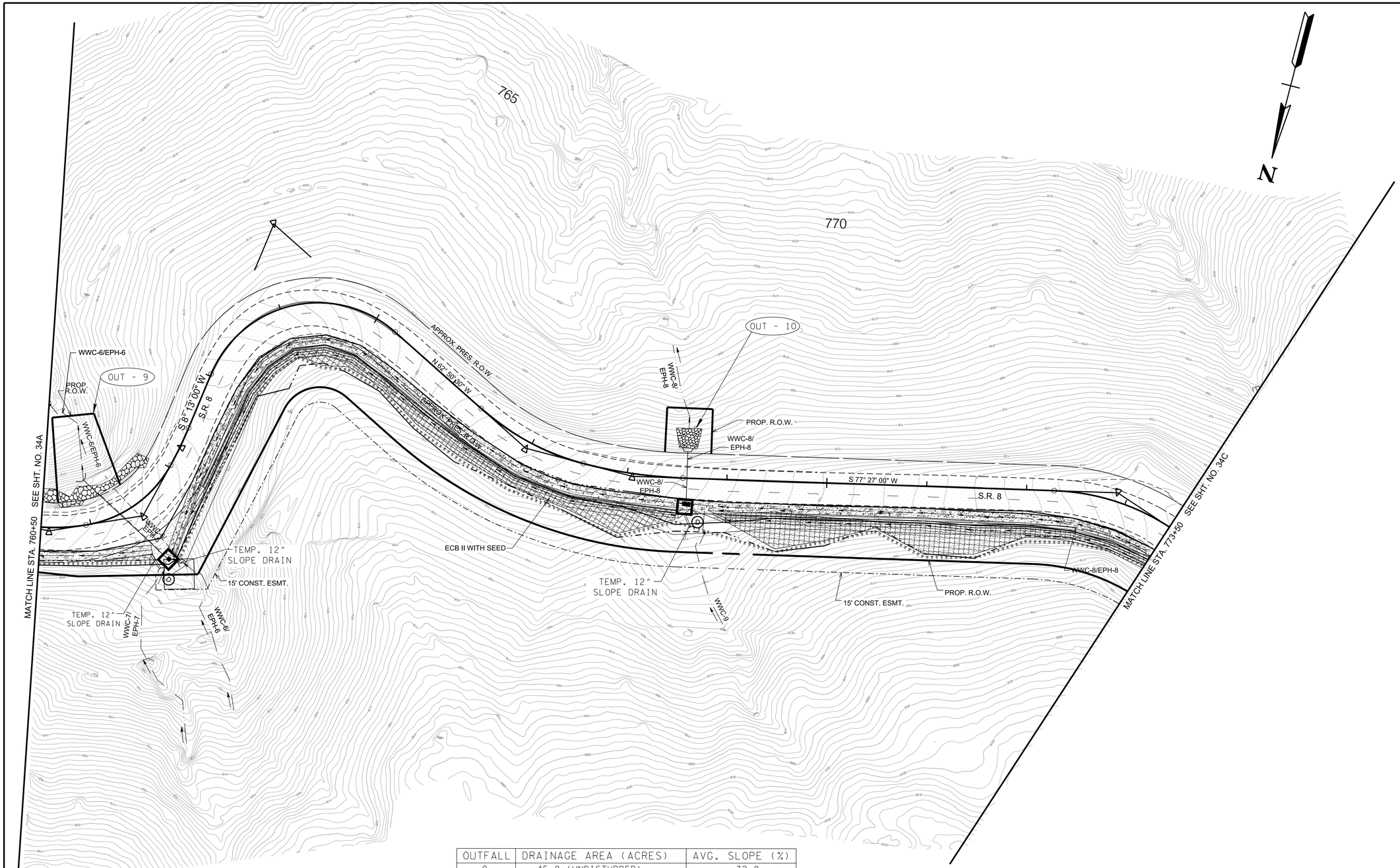
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	34B
PIH	2026	STP-8(52)	34B
PS&E	2026	STP-8(52)	34B



OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
9	45.8 (UNDISTURBED)	32.8
10	34.80 (UNDISTURBED)	10.0

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.760+50 TO STA.773+50

SCALE: 1"=50'

STAGE III

6/29/2026 5:15:27 PM
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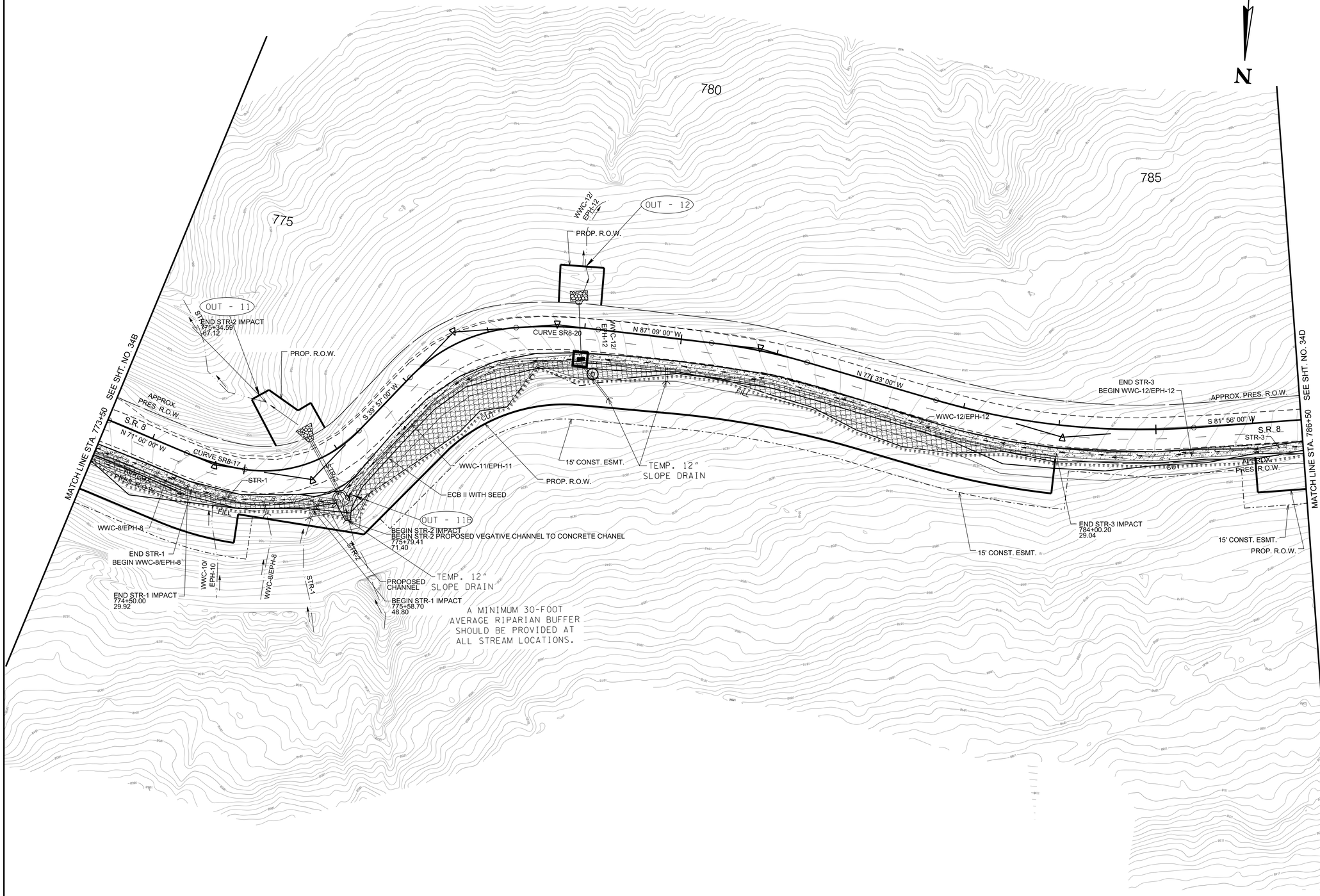
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	34C
PIH	2026	STP-8(52)	34C
PS&E	2026	STP-8(52)	34C

OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
11	13.2 (UNDISTURBED)	39.5
11B	0.42	1.89
12	45.6 (UNDISTURBED)	12.0



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.773+50 TO STA.786+50

SCALE: 1"=50'

STAGE III

6/29/2026 5:15:36 PM
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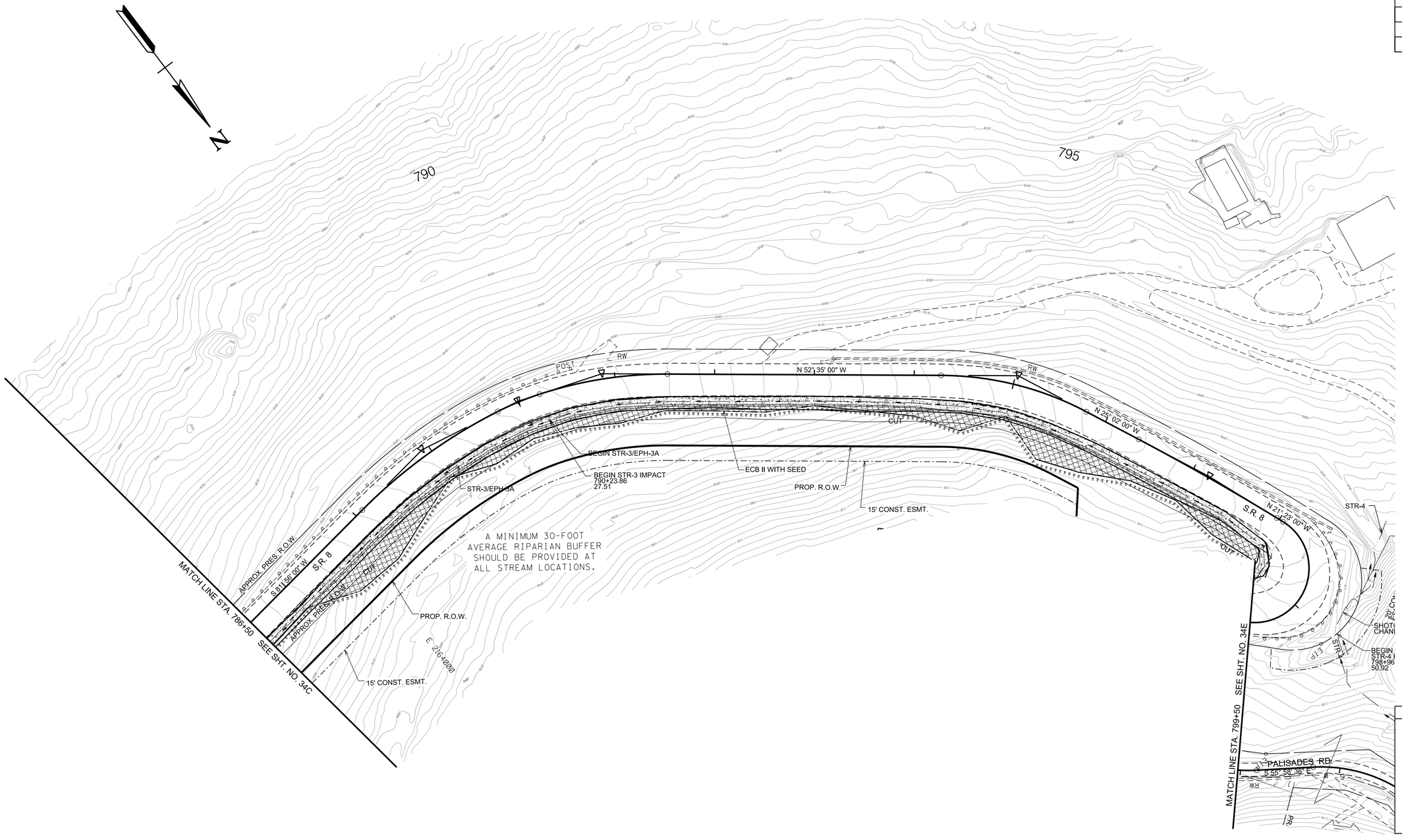
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	34D
PIH	2026	STP-8(52)	34D
PS&E	2026	STP-8(52)	34D



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DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.786+50 TO STA.799+50

SCALE: 1"=50'

STAGE III

6/29/2026 5:15:45 PM
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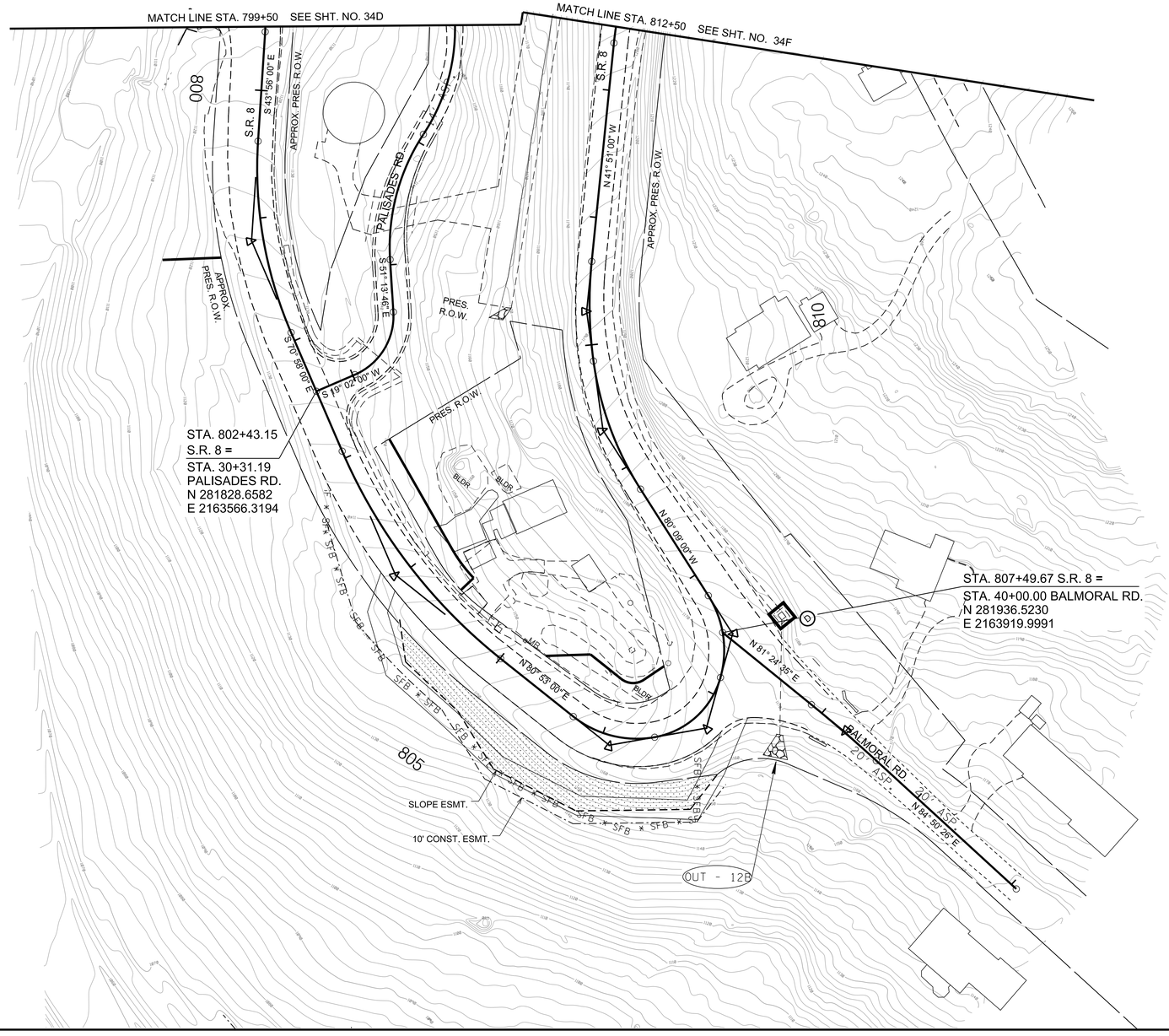
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	34E
PIH	2026	STP-8(52)	34E
PS&E	2026	STP-8(52)	34E

OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
12B	10.00 AC. UNDISTURBED	2.6



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DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.799+50 TO STA.812+50
SCALE: 1"=50'

STAGE III

6/29/2026 5:15:53 PM
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OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
14	12.78 AC. (UNDISTURBED)	19.5
14A	10.14 AC.(UNDISTURBED)	5.3

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	34F
PIH	2026	STP-8(52)	34F
PS&E	2026	STP-8(52)	34F

REV. 3-8-22: UPDATED EPSC MEASURES FOR PIPES ADDED OR REMOVED IN THIS REVISION.

STR-4

END STR-4 IMPACT 798+73.32 54.68

20' CONST. ESMT.

SHOTCRETE CHANNEL REPAIRS

BEGIN STR-4 IMPACT 798+96.73 50.92

STR-4

OUT - 14

END STR-4 IMPACT 23+95.96 -36.45

POT 22462.93 N 282377.1382 E 2163162.7524

10' CONST. ESMT.

PROP. PERM. DRAIN ESMT.

PALISADES RD.

S 55° 56' 36" E

S 7° 44' 09" E

PROP. R.O.W.

PROP. PERM. DRAIN ESMT.

10' CONST. ESMT.

10' CONST. ESMT.

BEGIN STR-4 IMPACT 23+41.34 66.84

STR-4

PROP. R.O.W.

OUT - 14A

STA. 814+82.29 S.R. 8 =
STA. 50+00.00 SUNSET DR.
N 282412.6042
E 2163445.5148

POT 90+00.00 N 282677.6340 E 2162611.1694

INV.-1195.47

INV.-1195.79

PALISADES RD.

N 54° 34' 09" W

12" RCP

PRES. R.O.W.

12" RCP (TO REMAIN)

PRES. R.O.W.

825

820

815

MATCH LINE STA. 812+50 SEE SHT. NO. 34E

MATCH LINE STA. 825+50 SEE SHT. NO. 34G

S.R. 8

N 8° 29' 00" W

N 38° 03' 00" W

N 31° 15' 00" W

S.R. 8

N 70° 51' 00" W

APPROX. PRES. R.O.W.

32' ASP.

APPROX. R.O.W.

PROP. R.O.W.

TEMP. 12" SLOPE DRAIN

TEMP. 12" SLOPE DRAIN

SUNSET DRIVE

S 75° 35' 00" E

20' ASP.

15' CONST. ESMT.

ECB II WITH SEED

PROP. R.O.W.

NOTE: DITCHES AND CATCH BASINS SHALL BE CONSTRUCTED IN THE DRY TO MAXIMUM EXTENT PRACTICABLE USING TEMPORARY PUMP AROUND. (SEE DETAIL SHEET 31)

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 812+50 TO STA. 825+50
SCALE: 1"=50'

STAGE III

6/29/2026 5:16:02 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	34G
PIH	2026	STP-8(52)	34G
PS&E	2026	STP-8(52)	34G

REV. 3-8-22: UPDATED EPSC MEASURES FOR PIPES ADDED OR REMOVED IN THIS REVISION.

OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
22	11.94 (UNDISTURBED)	2.8
23	33.42 (UNDISTURBED)	3.6

N

N 51° 27' 17" W

N 10° 54' 49" W

POT 97+71.33

830

835

OUT - 23

OUT - 22

SEE SHT. NO. 34F

MATCH LINE STA. 825+50

EXIST. 52' @ 36" RCP (TO REMAIN)

STR-5

STR-5

STR-5

STR-5

STR-5

APPROX. PRES. R.O.W.

N 54° 43' 00" W

N 31° 15' 00" W

S.R. 8

APPROX. PRES. R.O.W.

N 36° 22' 00" W

N 40° 32' 00" W

S.R. 8

PRES. R.O.W.

SEE SHT. NO. 34H

MATCH LINE STA. 838+50

PROP. R.O.W.

STR-5

DO NOT DISTURB STR-5.
STR-5 PASSES THROUGH THE PROJECT WITHOUT DISTURBANCE

PRES. R.O.W.

STAGE III

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EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 825+50 TO STA. 838+50

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	34H
PIH	2026	STP-8(52)	34H
PS&E	2026	STP-8(52)	34H



OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
16	14.80 (UNDISTURBED)	1.7

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 838+50 TO STA. 851+50
SCALE: 1"= 50'

STAGE III

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	34J
PIH	2026	STP-8(52)	34J
PS&E	2026	STP-8(52)	34J

REV. 9-21-23: UPDATED EROSION CONTROL MEASURES FOR THE CATCHBASINS AT STA. 858+50.



OUTFALL	DRAINAGE AREA (ACRES)	AVG. SLOPE (%)
18	9.27(UNDISTURBED)	5.0
19	33 AC. (UNDISTURBED)	5.3

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 851+50 TO STA. 864+50
SCALE: 1"=50'

STAGE III

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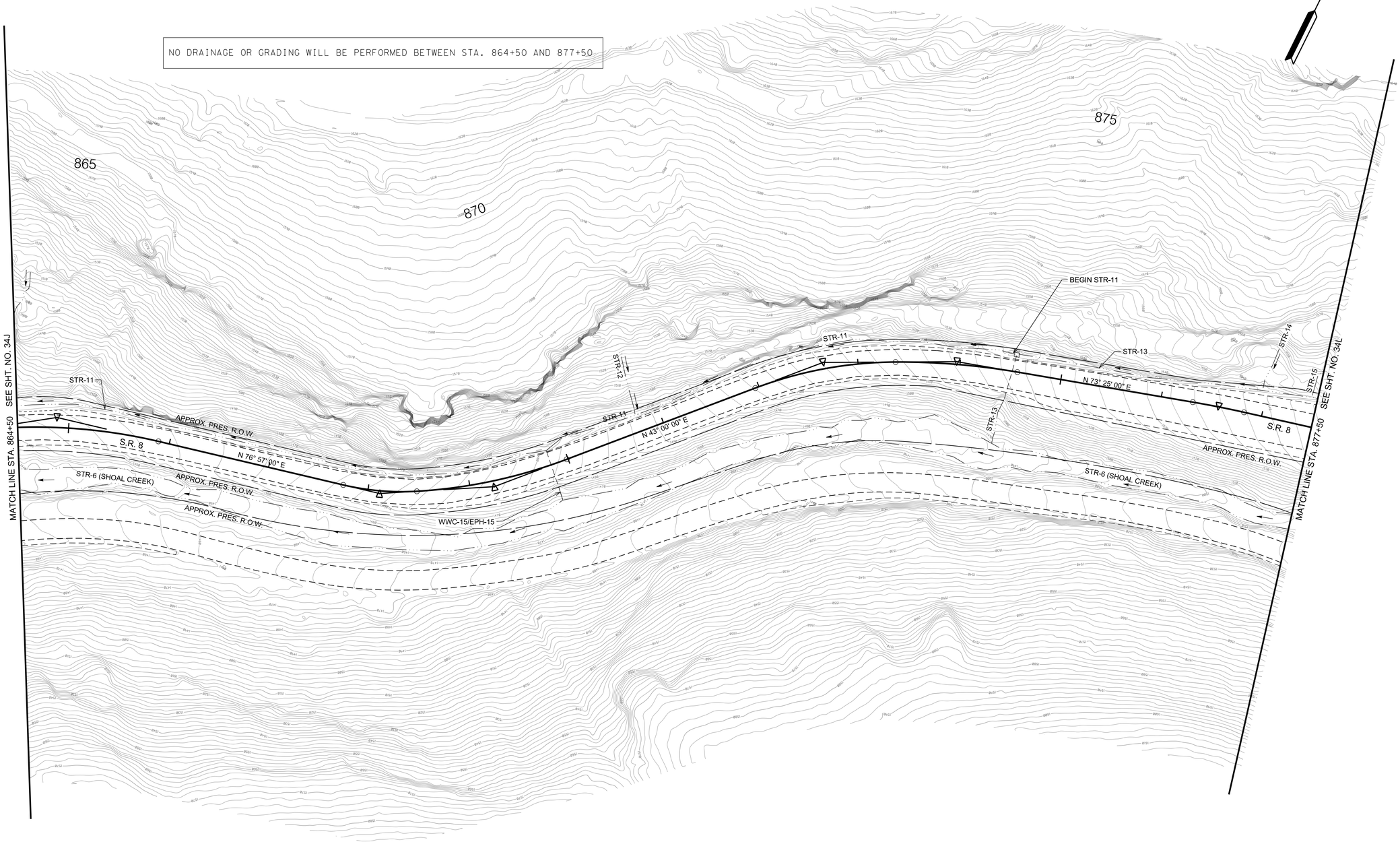
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	34K
PIH	2026	STP-8(52)	34K
PS&E	2026	STP-8(52)	34K

NO DRAINAGE OR GRADING WILL BE PERFORMED BETWEEN STA. 864+50 AND 877+50



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STA. 864+50 TO STA. 877+50
SCALE: 1"=50'

STAGE III

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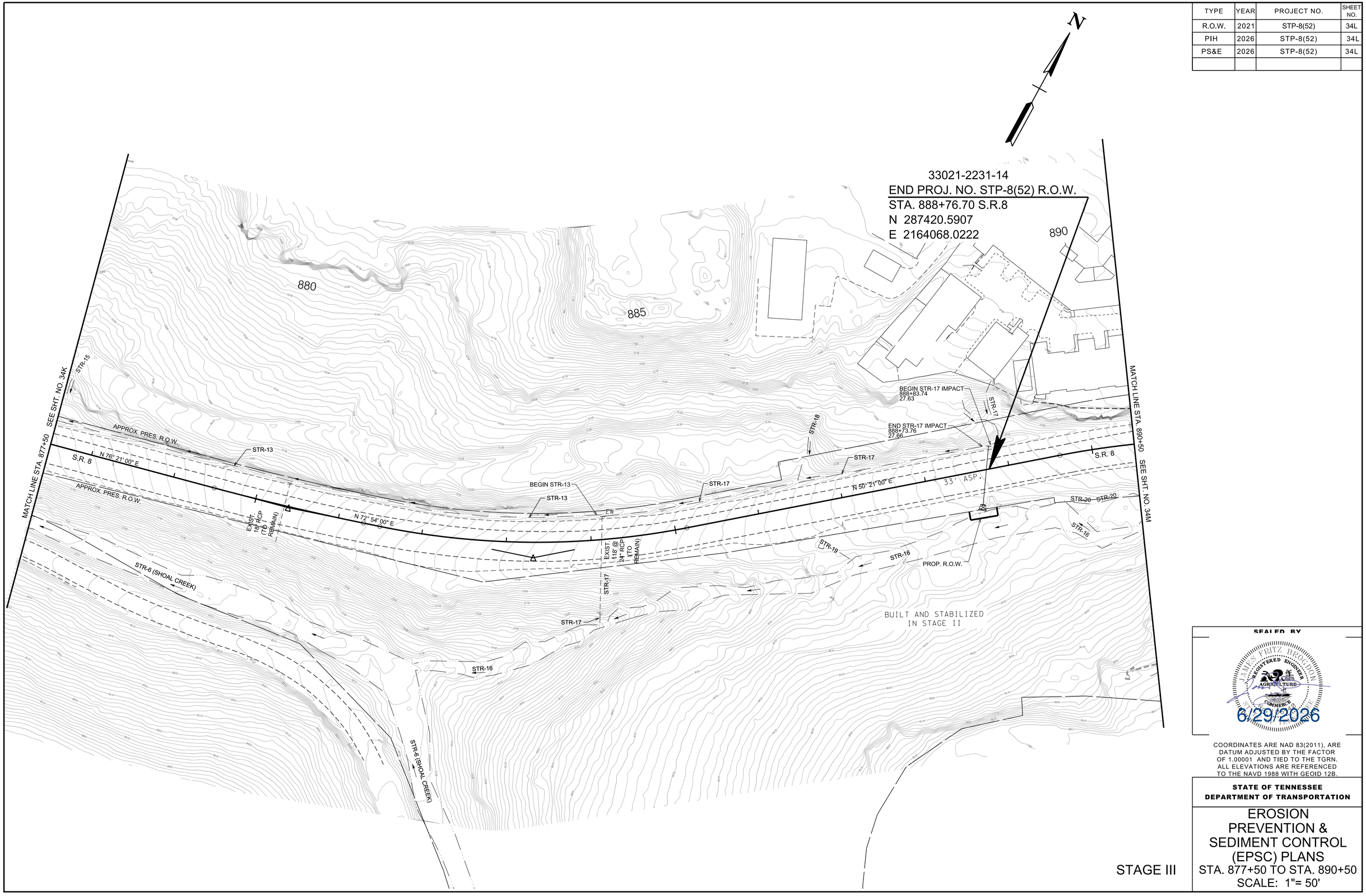
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	34L
PIH	2026	STP-8(52)	34L
PS&E	2026	STP-8(52)	34L



STAGE III

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STA. 877+50 TO STA. 890+50
SCALE: 1"= 50'

6/29/2026 5:16:49 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	34M
PIH	2026	STP-8(52)	34M
PS&E	2026	STP-8(52)	34M

33021-3231-14
END PROJ. NO. STP-8(52) CONST.
STA. 891+00.00
N 287555.4249
E 2164245.7213

STA. 898+30.59 S.R. 8 =
STA. 90+00.00 MISSISSIPPI AVE.
N 287815.6644
E 2164926.4625

STA. 895+14.97 S.R. 8 =
STA. 70+00.00 SIGNAL MOUNTAIN BLVD.
N 287708.3305
E 2164629.9636

STA. 898+23.78 S.R. 8 =
STA. 80+00.00 PALISADES DR.
N 287812.8148
E 2164920.2652

MATCH LINE STA. 890+50
SEE SHT. NO. 34L

895
900

SIGNAL MOUNTAIN BLVD.
S 74° 50' 43" E
APPROX. PRES. R.O.W.
MISSISSIPPI AVE.
CARLIN ST.
S 21° 56' 40" W
FLAG
S.R. 8
N 72° 37' 00" E
S 17° 23' 00" E
N 59° 54' 00" E
PALISADES DR.
S 25° 21' 34" E
S 11° 46' 13" E
STR-1
STR-2
STR-16

N

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EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.890+50 TO STA.898+23.78
SCALE: 1"= 50'

STAGE III

6/29/2026 5:16:57 PM
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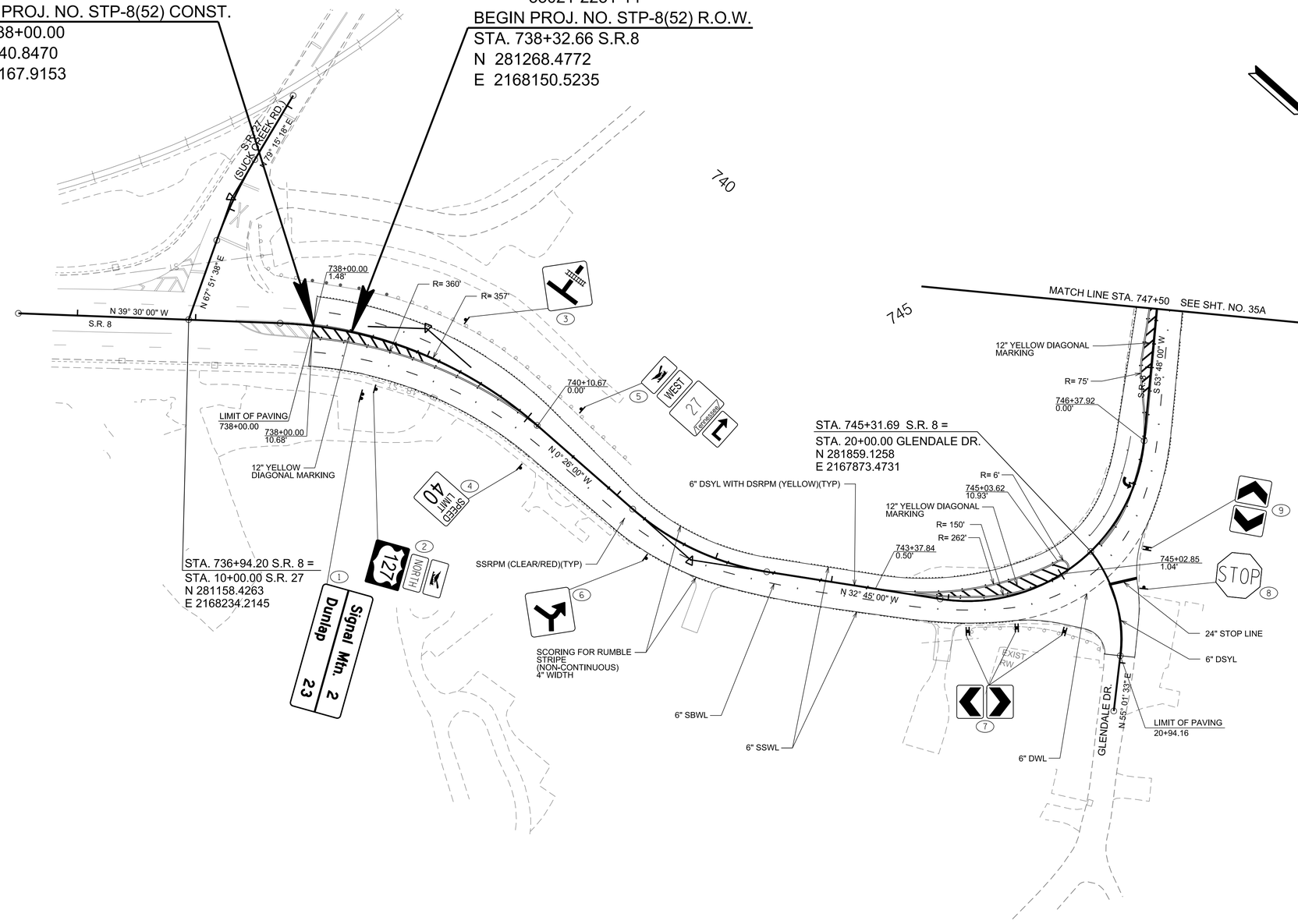
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	35
PS&E	2026	STP-8(52)	35

33021-3231-14
BEGIN PROJ. NO. STP-8(52) CONST.
STA. 738+00.00
N 281240.8470
E 2168167.9153

33021-2231-14
BEGIN PROJ. NO. STP-8(52) R.O.W.
STA. 738+32.66 S.R.8
N 281268.4772
E 2168150.5235



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SIGNING AND PAVEMENT MARKING PLANS

STA. 735+50 TO STA. 747+50
SCALE: 1"= 50'

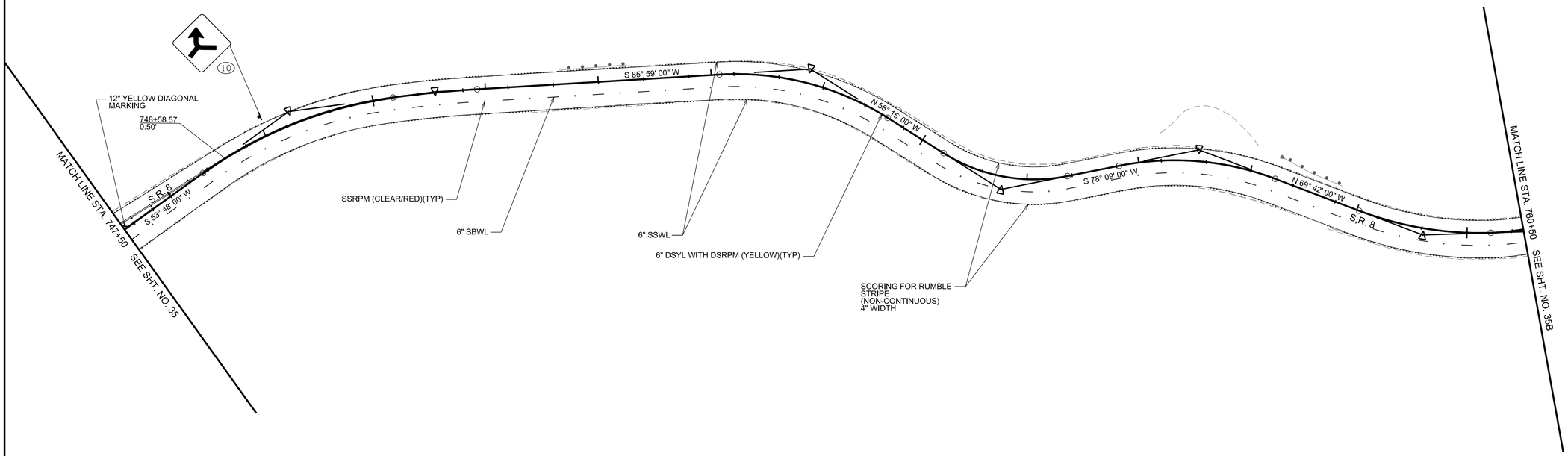
6/29/2026 7:19:15 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\1035.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	35A
PS&E	2026	STP-8(52)	35A

750

755

N



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SIGNING AND PAVEMENT MARKING PLANS

STA.747+50 TO STA.760+50
SCALE: 1"=50'

6/29/2026 7:19:25 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	35B
PS&E	2026	STP-8(52)	35B

765

770

N

MATCH LINE STA. 760+50 SEE SHT. NO. 35A

S 8° 13' 00" W

S.R. 8

N 82° 50' 00" W

REMOVE EXISTING W1-5R AND W13-1P

REMOVE EXISTING W1-2R AND W13-1P

30 MPH

S 77° 27' 00" W

S.R. 8

MATCH LINE STA. 773+50 SEE SHT. NO. 35C

SSRPM (CLEAR/RED)(TYP)

6" SBWL

SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) 4" WIDTH

6" SSWL

6" DSYL WITH DSRPM (YELLOW)(TYP)

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SIGNING AND PAVEMENT MARKING PLANS

STA.760+50 TO STA.773+50
SCALE: 1"=50'

6/29/2026 7:19:35 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	35C
PS&E	2026	STP-8(52)	35C

780

775

785

N

SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) 4" WIDTH

CURVE SR8-20

N 87° 09' 00" W

N 77° 33' 00" W

S 81° 56' 00" W

S.R. 8

SSRPM (CLEAR/RED)(TYP)

6" SBWL

6" SSWL

6" DSYL WITH DSRPM (YELLOW)(TYP)

MATCH LINE STA. 773+50 SEE SHT. NO. 35B

S.R. 8

N 71° 00' 00" W

CURVE SR8-17

S 39° 57' 00" W

MATCH LINE STA. 786+50 SEE SHT. NO. 35D

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SIGNING AND PAVEMENT MARKING PLANS

STA.773+50 TO STA.786+50
SCALE: 1"=50'

6/29/2026 7:19:44 PM
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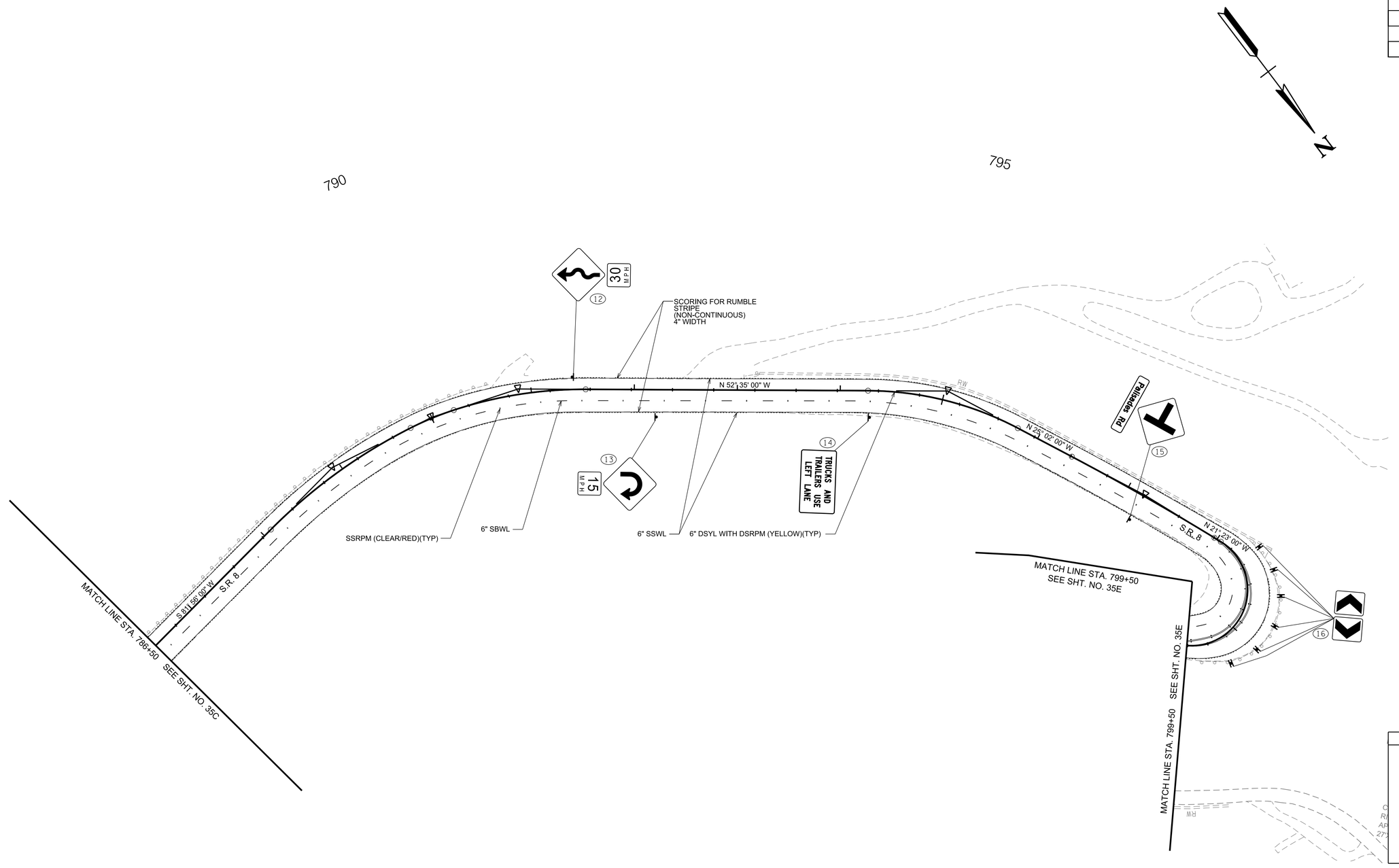
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	35D
PS&E	2026	STP-8(52)	35D



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SIGNING AND PAVEMENT MARKING PLANS

STA.786+50 TO STA.799+50
SCALE: 1"=50'

6/29/2026 7:19:52 PM
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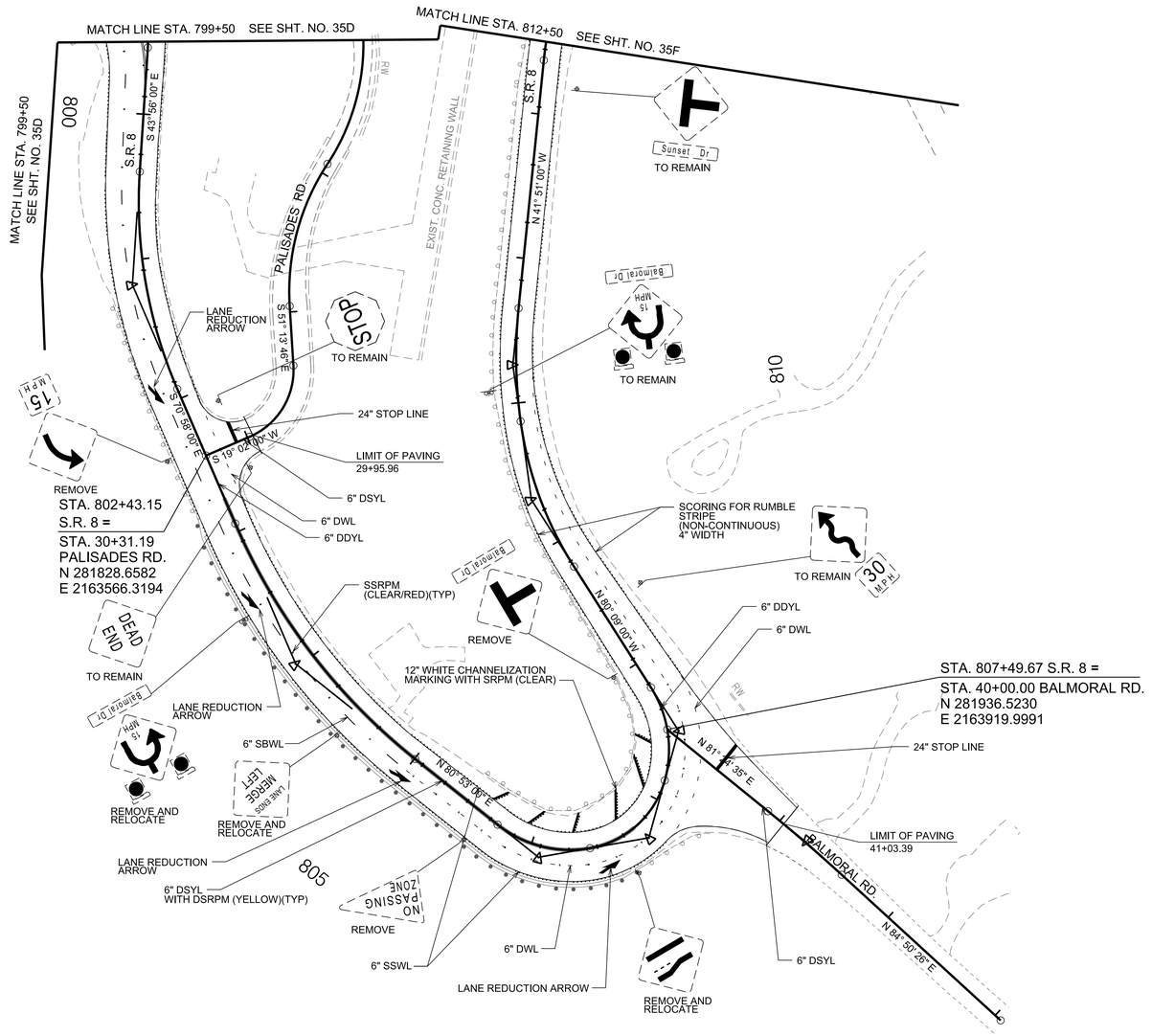
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	35E
PS&E	2026	STP-8(52)	35E



NOTES:
SIGNS SHOWN AS REMOVE AND RELOCATE WILL BE REMOVED TO COMPLETE SLOPE WORK IN THIS AREA. PRICE BID WILL INCLUDE REMOVAL, STORAGE, AND RELOCATING THE SIGNS TO THEIR ORIGINAL LOCATION AFTER WORK IS COMPLETED IN THIS AREA.

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SIGNING AND PAVEMENT MARKING PLANS

STA. 799+50 TO STA. 812+50
SCALE: 1"= 50'

6/29/2026 7:20:01 PM
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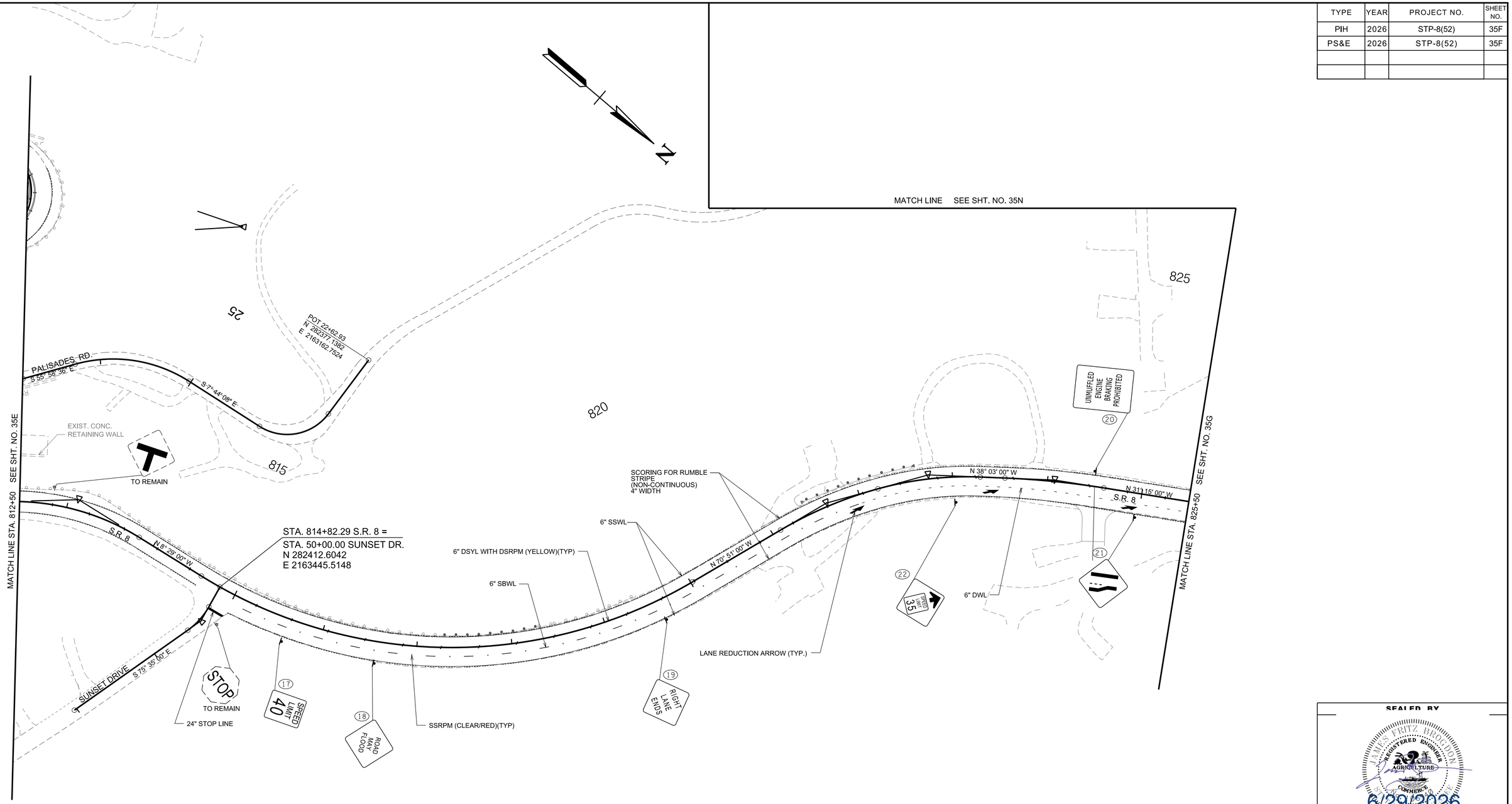
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	35F
PS&E	2026	STP-8(52)	35F



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SIGNING AND PAVEMENT MARKING PLANS

STA. 812+50 TO STA. 825+50
SCALE: 1"= 50'

6/29/2026 7:20:09 PM
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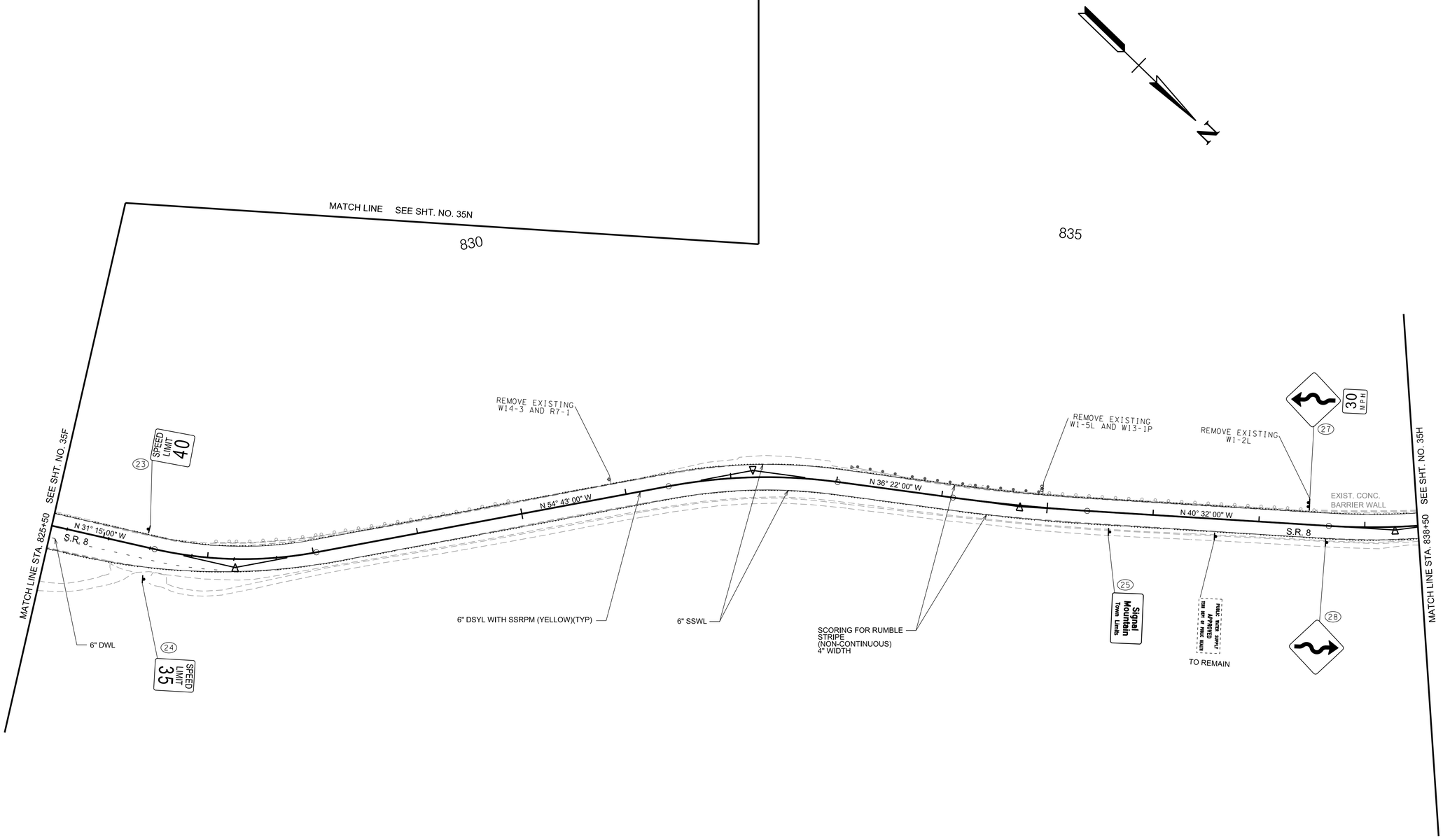
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	35G
PS&E	2026	STP-8(52)	35G



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SIGNING AND PAVEMENT MARKING PLANS

STA. 825+50 TO STA. 838+50
SCALE: 1"= 50'

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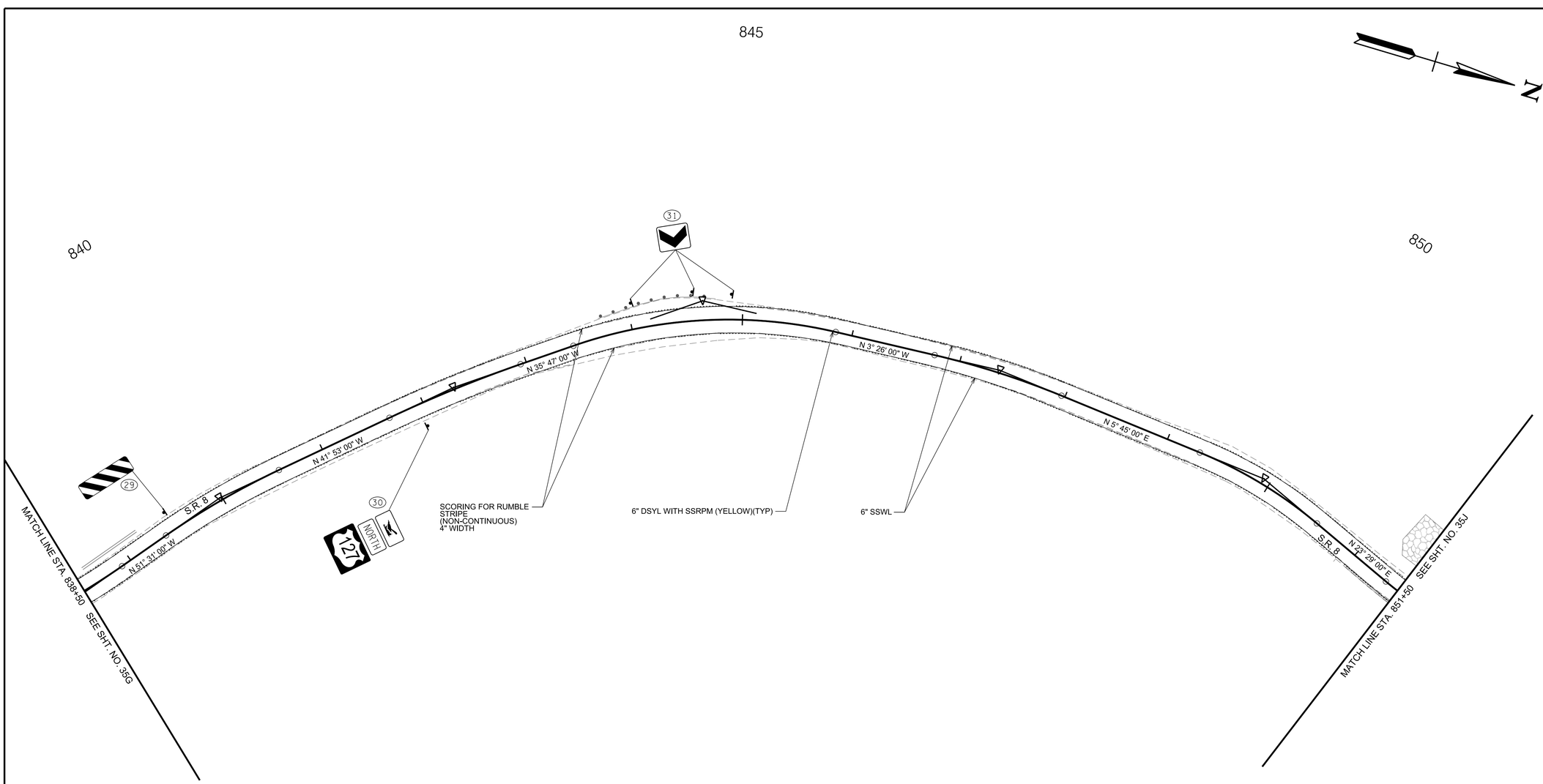
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	35H
PS&E	2026	STP-8(52)	35H



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SIGNING AND PAVEMENT MARKING PLANS

STA. 838+50 TO STA. 851+50
SCALE: 1"=50'

6/29/2026 7:20:26 PM
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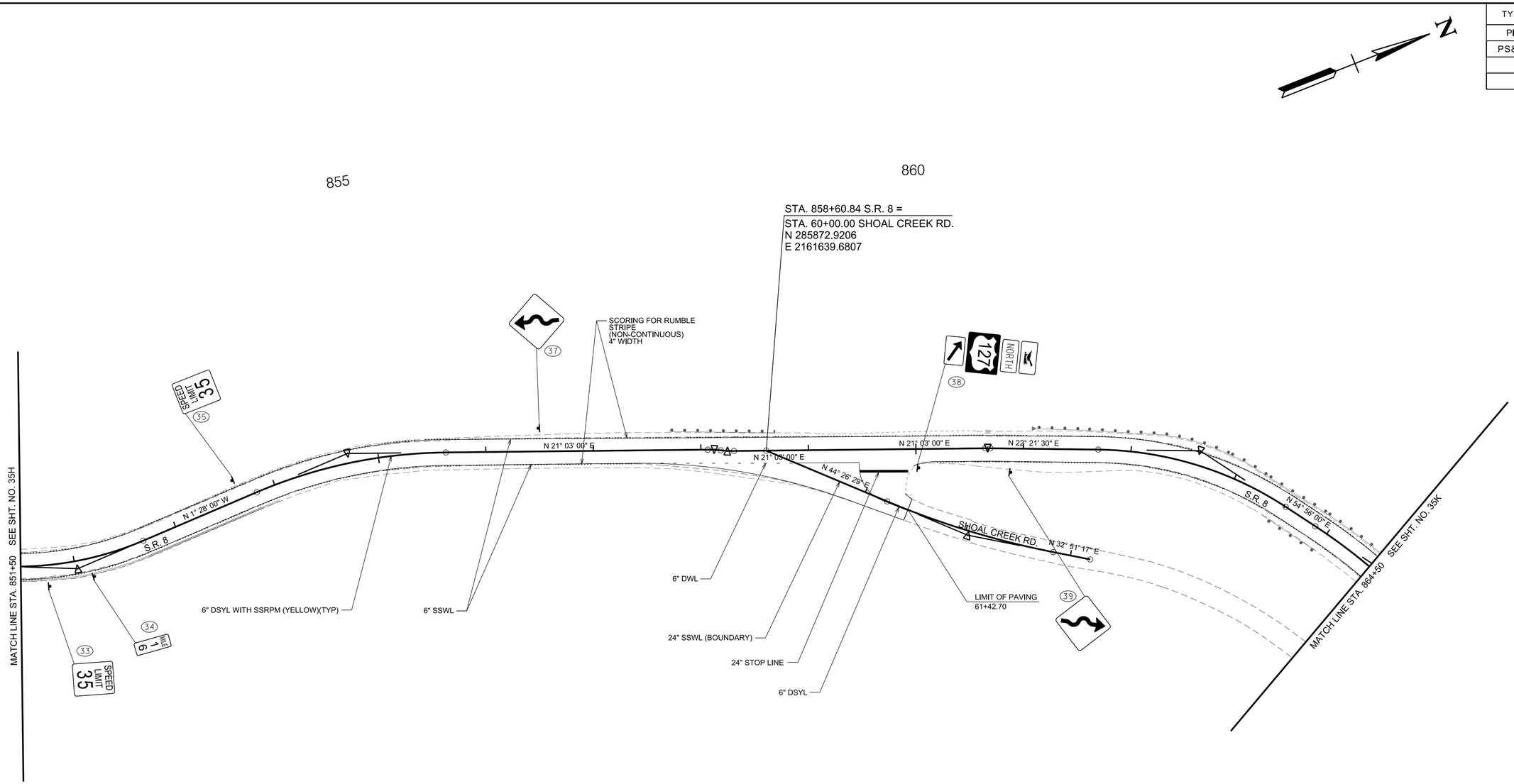
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	35J
PS&E	2026	STP-8(52)	35J



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SIGNING AND PAVEMENT MARKING PLANS

STA. 851+50 TO STA. 864+50
SCALE: 1"= 50'

6/29/2026 7:20:34 PM
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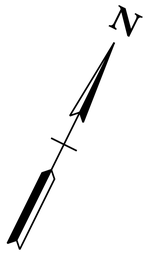
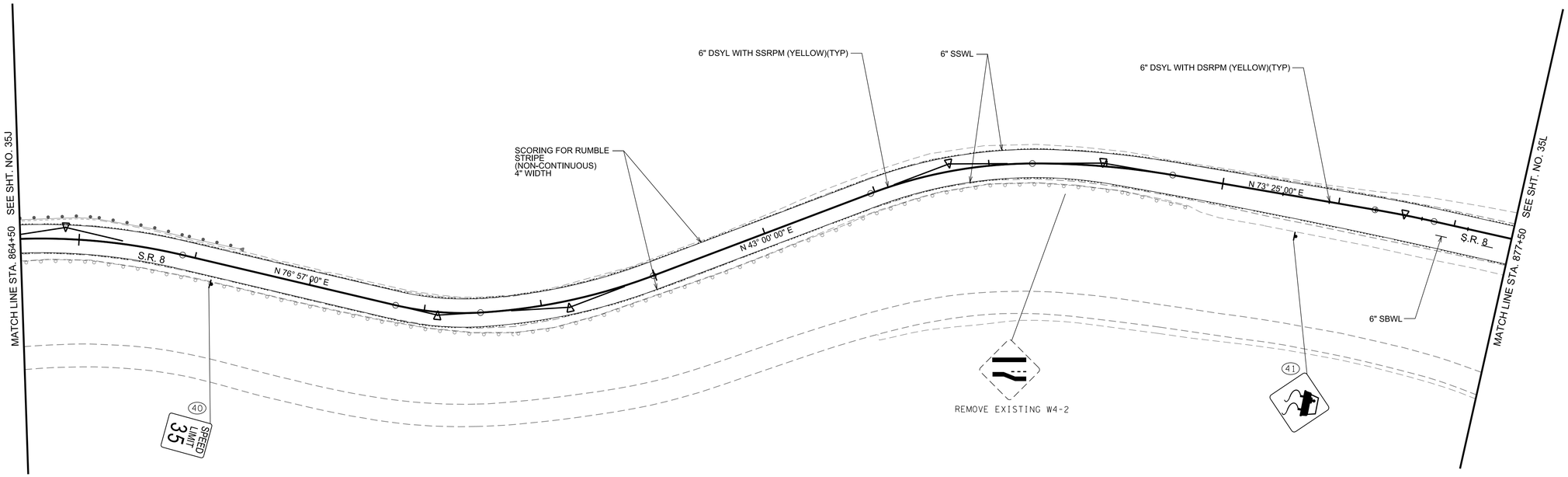
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	35K
PS&E	2026	STP-8(52)	35K



865

870

875



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SIGNING AND PAVEMENT MARKING PLANS

STA. 864+50 TO STA. 877+50
SCALE: 1"= 50'

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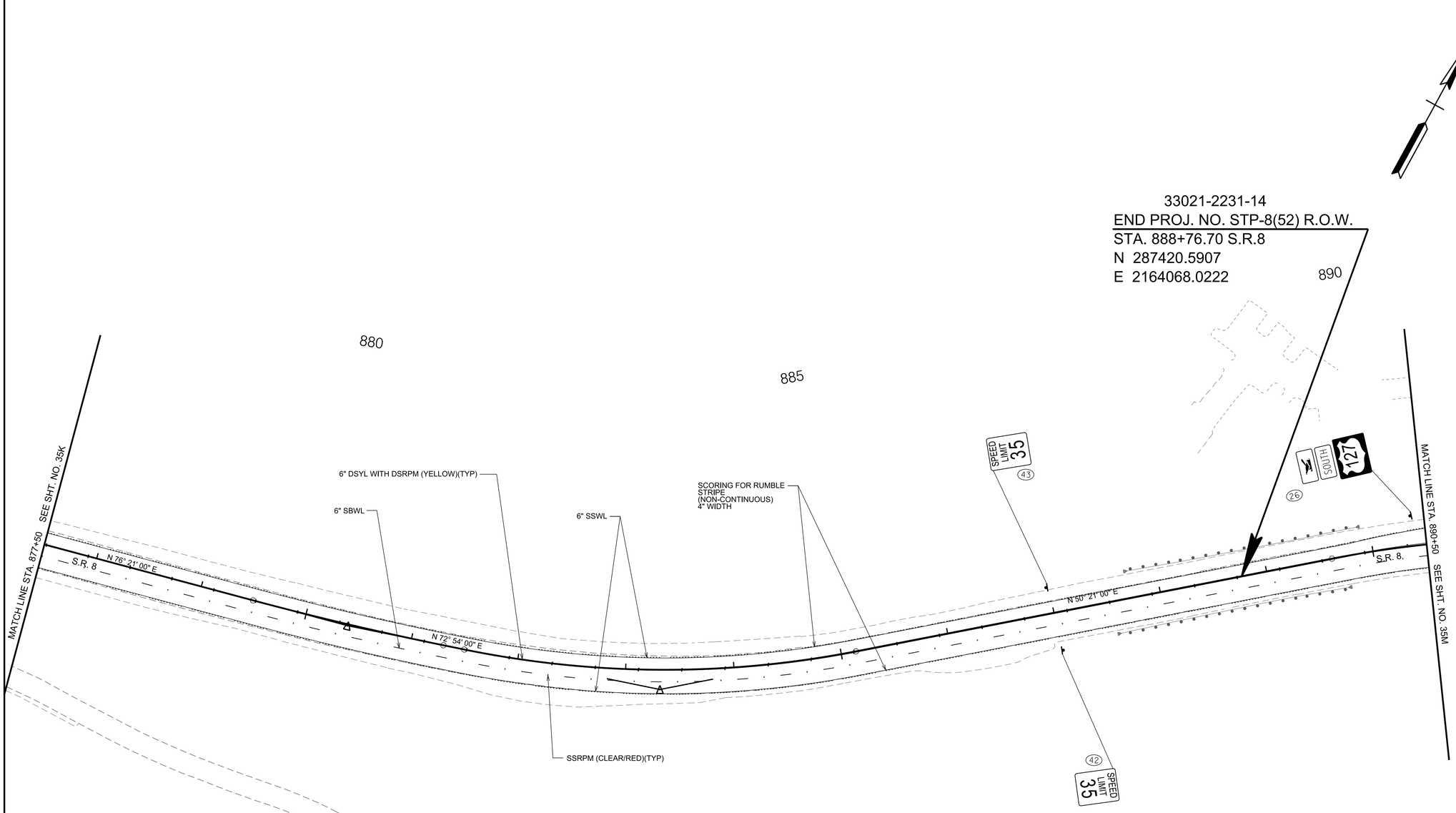
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	35L
PS&E	2026	STP-8(52)	35L



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SIGNING AND PAVEMENT MARKING PLANS

STA. 877+50 TO STA. 890+50
SCALE: 1"= 50'

6/29/2026 7:20:51 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	35M
PS&E	2026	STP-8(52)	35M

33021-3231-14
END PROJ. NO. STP-8(52) CONST.
STA. 891+00.00
N 287555.4249
E 2164245.7213

N

895

900

STA. 898+30.59 S.R. 8 =
STA. 90+00.00 MISSISSIPPI AVE.
N 287815.6644
E 2164926.4625

6" DSYL
WITH DSRPM
(YELLOW)(TYP)

6" SSWL

MATCH LINE STA. 890+50
SEE SHT. NO. 35L

S.R. 8

SIGNAL MOUNTAIN BLVD.
S 74° 50' 45" E

MISSISSIPPI AVE.

CARLIN ST.
S 21° 56' 40" W

N 72° 37' 00" E

S 17° 23' 00" E

N 59° 54' 00" E

S.R. 8

PALISADES DR.
S 25° 12' 34" E

S 11° 46' 13" E

LIMIT OF PAVING
891+00.00

6" SBWL

SSRPM (CLEAR/RED)(TYP)

STA. 895+14.97 S.R. 8 =
STA. 70+00.00 SIGNAL
MOUNTAIN BLVD.
N 287708.3305
E 2164629.9636

STA. 898+23.78 S.R. 8 =
STA. 80+00.00 PALISADES DR.
N 287812.8148
E 2164920.2652

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SIGNING AND PAVEMENT MARKING PLANS

STA. 890+50 TO STA. 903+50
SCALE: 1"= 50'

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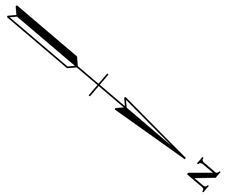
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	35N
PS&E	2026	STP-8(52)	35N



95

STR-5

POT 90+00.00
N 282677.6340
E 2162611.1694

PALISADES RD.
N 54° 34' 09" W

N 51° 27' 17" W

N 10° 54' 49" W

POT 97+71.33

MATCH LINE SEE SHT. NO'S. 35F & 35G

NO PROPOSED SIGNING AND PAVEMENT MARKINGS ON THIS SHEET

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SIGNING AND PAVEMENT MARKING PLANS

PALISADES ROAD
SCALE: 1"=50'

6/29/2026 7:21:08 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	35P
PS&E	2026	STP-8(52)	35P

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)				MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	
1	Signal Mtn. 2 / Dunlap 23 D2-2	35	72″	30″									WHITE (REF.)	GREEN (REF.)	0.100″ SHEET ALUMINUM	P5	h=10′-6″ h=10′-6″				5′-0″	
2	TN-22A / NORTH M3-1	35	24″	12″									GREEN (REF.)	WHITE (REF.)	0.080″ SHEET ALUMINUM	P6	h=12′-0″				5′-0″	
	127 M1-4A		24″	12″									BLACK	WHITE (REF.)							
30		35H	30″	24″									BLACK	WHITE (REF.)							
3	W10-3R	35	36″	36″									BLACK	YELLOW (FLOR.)	0.100″ SHEET ALUMINUM	P5	h=11′-0″				5′-0″	
4	SPEED LIMIT XX R2-1	35	24″	30″									BLACK	WHITE (REF.)	0.080″ SHEET ALUMINUM	P3	h=12′-0″				5′-0″	
17		35F														P3	h=12′-0″					
23		35G														P3	h=12′-0″					
24		35G														P3	h=12′-0″					
33		35J														P3	h=12′-0″					
35		35J														P3	h=12′-0″					
40		35K														P3	h=12′-0″					
42		35L														P3	h=12′-0″					
43		35L														P3	h=12′-0″					
5	TN-22A / WEST M3-4 / 27 Tennessee TN-6C / M5-1R	35	24″ 24″ 30″ 21″	12″ 12″ 24″ 15″									WHITE (REF.) BLACK BLACK BLACK	GREEN (REF.) WHITE (REF.) WHITE (REF.) WHITE (REF.)	0.080″ SHEET ALUMINUM	P6	h=13′-6″				5′-0″	
6	W1-1LI	35	36″	36″									BLACK	YELLOW (FLOR.)	0.100″ SHEET ALUMINUM	P5	h=11′-0″				5′-0″	
7	W1-8L W1-8R	35	24″	30″									BLACK	YELLOW (FLOR.)	0.080″ SHEET ALUMINUM	P6	h=10′-0″				5′-0″	INSTALL 2″ WIDE YELLOW HIGH GRADE RETROREFLECTIVE STRIP ON FRONT OF POSTS. SIGNS SHALL INCLUDE ADJUSTABLE MOUNTING BRACKETS. Ⓐ
9																						
16		35D	24″	30″																		
8	STOP R1-1	35	36″	36″									WHITE (REF.)	RED (REF.)	0.100″ SHEET ALUMINUM	P5	h=11′-0″				5′-0″	INSTALL 2″ WIDE RED HIGH GRADE RETROREFLECTIVE STRIP ON FRONT OF POSTS Ⓐ
10	W1-1RI	35A	36″	36″									BLACK	YELLOW (FLOR.)	0.100″ SHEET ALUMINUM	P5	h=11′-0″				5′-0″	

Ⓐ RETROREFLECTIVE STRIPS AND ADJUSTABLE MOUNTING BRACKETS TO BE INCLUDED IN THE COST OF OTHER ITEMS.

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6/29/2026

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SIGN SCHEDULE SHEETS

6/29/2026 5:02:15 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	35R
PS&E	2026	STP-8(52)	35R

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
11	W1-5R W13-1P (30 MPH)	35B	36″ 24″	36″ 24″									BLACK BLACK	YELLOW (FLOR.) YELLOW (FLOR.)	0.100″ SHEET ALUMINUM 0.080″ SHEET ALUMINUM	P5	h=12′-6″				5′-0″	
12 27	W1-5L W13-1P (30 MPH)	35D 35G	36″ 24″	36″ 24″									BLACK BLACK	YELLOW (FLOR.) YELLOW (FLOR.)	0.100″ SHEET ALUMINUM 0.080″ SHEET ALUMINUM	P5	h=12′-6″				5′-0″	
13	W1-11 W13-1P (15 MPH)	35D	36″ 24″	36″ 24″									BLACK BLACK	YELLOW (FLOR.) YELLOW (FLOR.)	0.100″ SHEET ALUMINUM 0.080″ SHEET ALUMINUM	P5	h=12′-6″				5′-0″	
14	TRUCKS AND TRAILERS USE LEFT LANE SPEC1	35D	42″	24″									BLACK	WHITE (FLOR.)	0.100″ SHEET ALUMINUM	P5	h=10′-0″				5′-0″	
15	W2-2L PALISADES RD D1-1	35D	36″ 42″	36″ 12″									BLACK BLACK	YELLOW (FLOR.) YELLOW (FLOR.)	0.100″ SHEET ALUMINUM	P5	h=12′-6″				5′-0″	
18	ROAD MAY FLOOD W8-18	35F	36″	36″									BLACK	YELLOW (FLOR.)	0.100″ SHEET ALUMINUM	P5	h=11′-0″				5′-0″	
19	RIGHT LANE ENDS W9-1R	35F	36″	36″									BLACK	YELLOW (FLOR.)	0.100″ SHEET ALUMINUM	P5	h=11′-0″				5′-0″	
20	UNMUFFLED ENGINE BRAKING PROHIBITED TN-58B	35F	36″	48″									BLACK	WHITE (REF.)	0.100″ SHEET ALUMINUM	P8	h=12′-0″				5′-0″	
21	W4-2R	35F	36″	36″									BLACK	YELLOW (FLOR.)	0.100″ SHEET ALUMINUM	P5	h=11′-0″				5′-0″	
22	SPEED LIMIT 35 W3-5	35F	36″	36″									BLACK	YELLOW (FLOR.)	0.100″ SHEET ALUMINUM	P5	h=11′-0″				5′-0″	

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AGRICULTURE
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DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE SHEETS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	35S
PS&E	2026	STP-8(52)	35S

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
25	Signal Mountain Town Limits SPEC2	35G	48"	30"									WHITE (REF.)	GREEN (FLOR.)	0.100" SHEET ALUMINUM	P5	h=11'-6" h=11'-6"				5'-0"	
26	TN-22A SOUTH M3-4 127 M1-4A	35J	24" 24" 30"	12" 12" 24"									GREEN (REF.) BLACK BLACK	WHITE (REF.) WHITE (REF.) WHITE (REF.)	0.080" SHEET ALUMINUM	P6	h=13'-6"				5'-0"	
28 37	W1-5L	35G 35J	36"	36"									BLACK	YELLOW (FLOR.)	0.100" SHEET ALUMINUM	P5	h=11'-0"				5'-0"	
29	OM3-R	35H	12"	36"									BLACK	YELLOW (FLOR.)	0.080" SHEET ALUMINUM	P8	h=11'-0"				5'-0"	
31	W1-8L	35H	18"	24"									BLACK	YELLOW (FLOR.)	0.080" SHEET ALUMINUM	P8	h=10'-0"				5'-0"	INSTALL 2" WIDE YELLOW HIGH GRADE RETROREFLECTIVE STRIP ON FRONT OF POSTS Ⓐ
34	MILE 16 D10-2	35J	12"	36"									WHITE (REF.)	GREEN (FLOR.)	0.100" SHEET ALUMINUM	P8	h=11'-0"				5'-0"	PAYMENT FOR MILEPOST IN PLACE WILL BE MADE UNDER ITEM NUMBER 713-02.04, DELINEATOR (MILE MARKER) AND STEEL POST PER EACH.
38	TN-22A NORTH M3-4 127 M1-4A M6-2L	35J	24" 24" 30" 21"	12" 12" 24" 15"									GREEN (REF.) BLACK BLACK BLACK	WHITE (REF.) WHITE (REF.) WHITE (REF.) WHITE (REF.)	0.080" SHEET ALUMINUM	P6	h=13'-6"				5'-0"	
39	W1-5R	35J	36"	36"									BLACK	YELLOW (FLOR.)	0.100" SHEET ALUMINUM	P5	h=11'-0"				5'-0"	
41	W8-5	35K	36"	36"									BLACK	YELLOW (FLOR.)	0.100" SHEET ALUMINUM	P5	h=11'-0"				5'-0"	

Ⓐ RETROREFLECTIVE STRIPS TO BE INCLUDED IN THE COST OF OTHER ITEMS.

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SIGN SCHEDULE SHEETS

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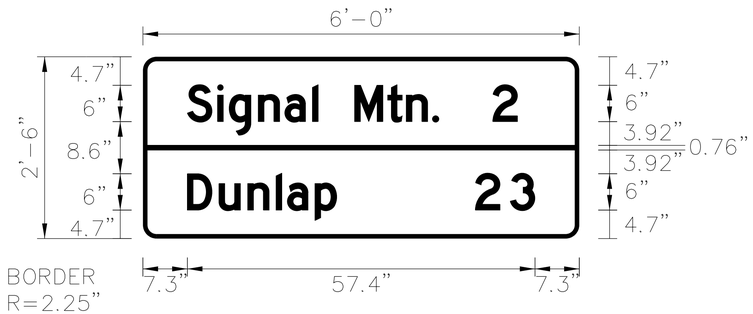
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	35T
PS&E	2026	STP-8(52)	35T



BORDER
R=2.25"
TH=0.75"

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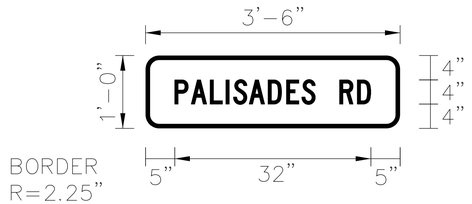
M.U.T.C.D.: 2009 Edition



BORDER
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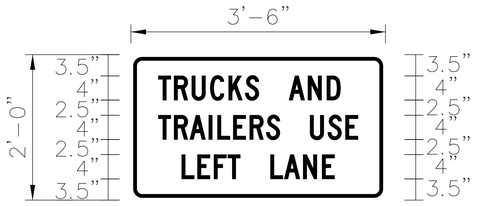
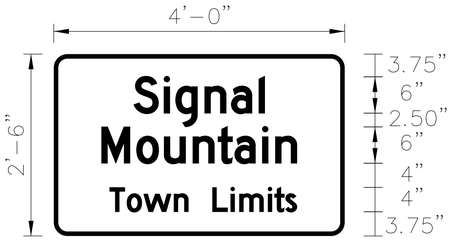
TH=0.75"

Panel Style: guide_con_advance street name_2-lines_2012.ssi
M.U.T.C.D.: 2009 Edition



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

Panel Style: guide_con_auxiliary_wht_2012.ssi
M.U.T.C.D.: 2009 Edition



BORDER
R=2.25"
TH=0.75"

Panel Style: guide_con_street.ssi
M.U.T.C.D.: 2009 Edition

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6/29/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN
DETAIL
SHEET

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	35
PS&E	2026	STP-8(52)	36

PRES. R.O.W.
OFFSET -124.96

EX. EOP
EL. 714.08

PRES. R.O.W.
OFFSET 45.91

EX. EOP
EL. 712.69

737+00.00
C=0 SF F=0 SF

PRES. R.O.W.
OFFSET -63.51

EX. EOP
EL. 710.92

PRES. R.O.W.
OFFSET 46.52

EX. EOP
EL. 710.19

736+50.00
C=0 SF F=0 SF

PRES. R.O.W.
OFFSET 47.13

EX. EOP
EL. 708.50

EX. EOP
EL. 707.74

736+00.00
C=0 SF F=0 SF

PRES. R.O.W.
OFFSET 47.74

EX. EOP
EL. 706.43

EX. EOP
EL. 705.51

735+50.00
C=0 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 735+50.00
1"=10' VERT. END STA. 737+00.00

740 730 720 710

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	36
PS&E	2026	STP-8(52)	37

EX. EOP EL.722.61
EX. EOP EL.722.50
EX. EOP EL.725.83
EX. EOP EL.721.64
PRES. R.O.W. OFFSET 39.64
OFFSET 46.42 EL.719.95
EL. 713.90
2:1
2:1
EL.720.06 OFFSET 73.84
PROP. R.O.W. OFFSET 75.96
END SPECIAL DITCH STA. 739+00.00 EL. 713.90
BEGIN SPECIAL DITCH STA. 738+68.59 EL. 712.42
739+00.00
C=33 SF F=0 SF

PRES. R.O.W. OFFSET -119.98
EX. EOP EL.718.42
EX. EOP EL.718.08
EX. EOP EL.723.32
EX. EOP EL.719.31
PRES. R.O.W. OFFSET 41.72
PROP. R.O.W. OFFSET 56.20
738+50.00
C=0 SF F=0 SF

PRES. R.O.W. OFFSET -117.89
EX. EOP EL.714.75
EX. EOP EL.715.04
EX. EOP EL.720.34
EX. EOP EL.717.12
PRES. R.O.W. OFFSET 43.97
738+00.00
C=0 SF F=0 SF

EX. EOP EL.714.05
EX. EOP EL.717.16
EX. EOP EL.714.98
PRES. R.O.W. OFFSET 45.30
737+50.00
C=0 SF F=0 SF

737+50.00

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 737+50.00
1"=10' VERT. END STA. 739+00.00

740 730 720 750 740 730 720 740 730 720 710 740 730 720

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	37
PS&E	2026	STP-8(52)	38

741+00.00
C=27 SF F=2 SF

740+50.00
C=8 SF F=0 SF

740+00.00
C=21 SF F=0 SF

739+50.00
C=0 SF F=0 SF

PRES. R.O.W. OFFSET -67.55
PRES. R.O.W. OFFSET 33.04
PROP. R.O.W. OFFSET 99.12
EX. EOP EL. 732.01
EX. EOP EL. 732.45
OFFSET 70.25 EL. 730.25
OFFSET 88.63 EL. 729.19
EL. 726.00
2:1
3.5'

PRES. R.O.W. OFFSET -73.63
PRES. R.O.W. OFFSET 34.61
PROP. R.O.W. OFFSET 87.07
EX. EOP EL. 729.80
EX. EOP EL. 729.06
OFFSET 64.75 EL. 727.50
OFFSET 77.14 EL. 726.95
EL. 725.00

PRES. R.O.W. OFFSET -80.31
PRES. R.O.W. OFFSET 36.15
PROP. R.O.W. OFFSET 76.43
EX. EOP EL. 728.36
EX. EOP EL. 726.09
OFFSET 45.98 EL. 724.62
EL. 722.00
OFFSET 62.86 EL. 726.07
BEGIN SPECIAL DITCH STA. 739+71.71 EL. 718.86

PRES. R.O.W. OFFSET -94.52
PRES. R.O.W. OFFSET 37.17
PROP. R.O.W. OFFSET 68.38
EX. EOP EL. 727.18
EX. EOP EL. 723.77
76"X48" HOCPC

S.R. 8
SCALE: 1"=10' HORIZ. 1"=10' VERT. BEGIN STA. 739+50.00 END STA. 741+00.00

6/29/2026 8:16:46 PM
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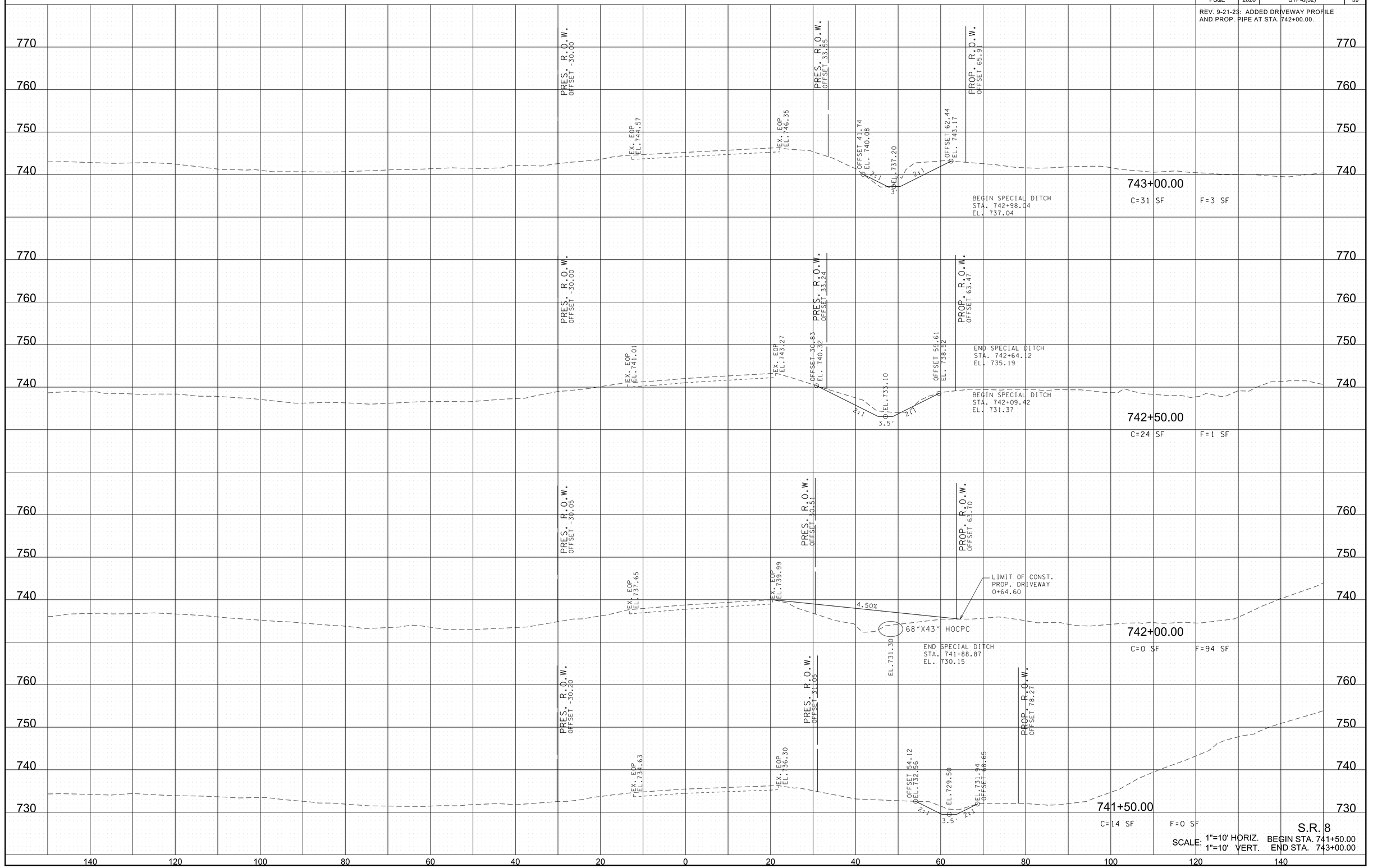
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	38
PS&E	2026	STP-8(52)	39

REV. 9-21-23: ADDED DRIVEWAY PROFILE AND PROP. PIPE AT STA. 742+00.00.



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 741+50.00
1"=10' VERT. END STA. 743+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	39
PS&E	2026	STP-8(52)	40

REV. 11-22-24: ADDED DRIVEWAY PROFILE AND PROP. PIPE AT STA. 744+00.00.

790
780
770
760
750

PRES. R.O.W. OFFSET -34.83
PRES. R.O.W. OFFSET -32.50
PRES. R.O.W. OFFSET -30.37
PRES. R.O.W. OFFSET -30.00
PRES. R.O.W. OFFSET 31.75
PRES. R.O.W. OFFSET 38.00
PRES. R.O.W. OFFSET 43.48
PROP. R.O.W. OFFSET 59.79
PROP. R.O.W. OFFSET 51.67
PROP. R.O.W. OFFSET 60.43
PRES. R.O.W. OFFSET 114.89

EX. EOP EL. 756.31
EX. EOP EL. 752.73
EX. EOP EL. 756.63
OFFSET 27.40 EL. 755.49
EL. 750.38
OFFSET 42.55 EL. 754.22
EX. EOP EL. 758.60
EX. EOP EL. 750.50
EX. EOP EL. 752.82
EX. EOP EL. 747.83
EX. EOP EL. 749.48
OFFSET 32.30 EL. 745.90
EL. 741.30
OFFSET 49.71 EL. 743.90

END SPECIAL DITCH
STA. 744+90.40
EL. 751.93

BEGIN SPECIAL DITCH
STA. 744+24.39
EL. 747.15

LIMIT OF CONST.
PROP. DRIVEWAY
C+51.67

7.50%
68"X43" HOCPC

END SPECIAL DITCH
STA. 743+83.42
EL. 742.01

745+00.00
C=0 SF F=0 SF

744+50.00
C=0 SF F=0 SF

744+00.00
C=1 SF F=0 SF

743+50.00
C=5 SF F=1 SF

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

S.R. 8
SCALE: 1"=10' HORIZ. BEGIN STA. 743+50.00
1"=10' VERT. END STA. 745+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	40
PS&E	2026	STP-8(52)	41

PRES. R.O.W.
OFFSET -39.10

EX. EOP
EL.769.66

EX. EOP
EL.772.09

EL.769.11

1.5'

2:1

PRES. R.O.W.
OFFSET 41.90

OFFSET 52.41
EL. 780.018

PROP. R.
OFFSET 75.C

OFFSET 23.55
EL. 771.89

746+50.00
C=32 SF F=2 SF

PRES. R.O.W.
OFFSET -39.38

EX. EOP
EL. 765.48

EX. EOP
EL.768.48

EL. 768.21
OFFSET 26.78

EL.765.10

1.5'

2:1

2:1

EL. 768.20
OFFSET 42.24

PRES. R.O.W.
OFFSET 47.15

BEGIN SPECIAL DITCH
STA. 745+64.06
EL. 760.74

746+00.00
C=3 SF F=4 SF

PRES. R.O.W.
OFFSET -37.27

EX. EOP
EL. 760.71

EX. EOP
EL.763.30

PRES. R.O.W.
OFFSET 48.31

PROP. R.O.W
OFFSET 65.09

745+50.00
C=0 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 745+50.00
1"=10' VERT. END STA. 746+50.00

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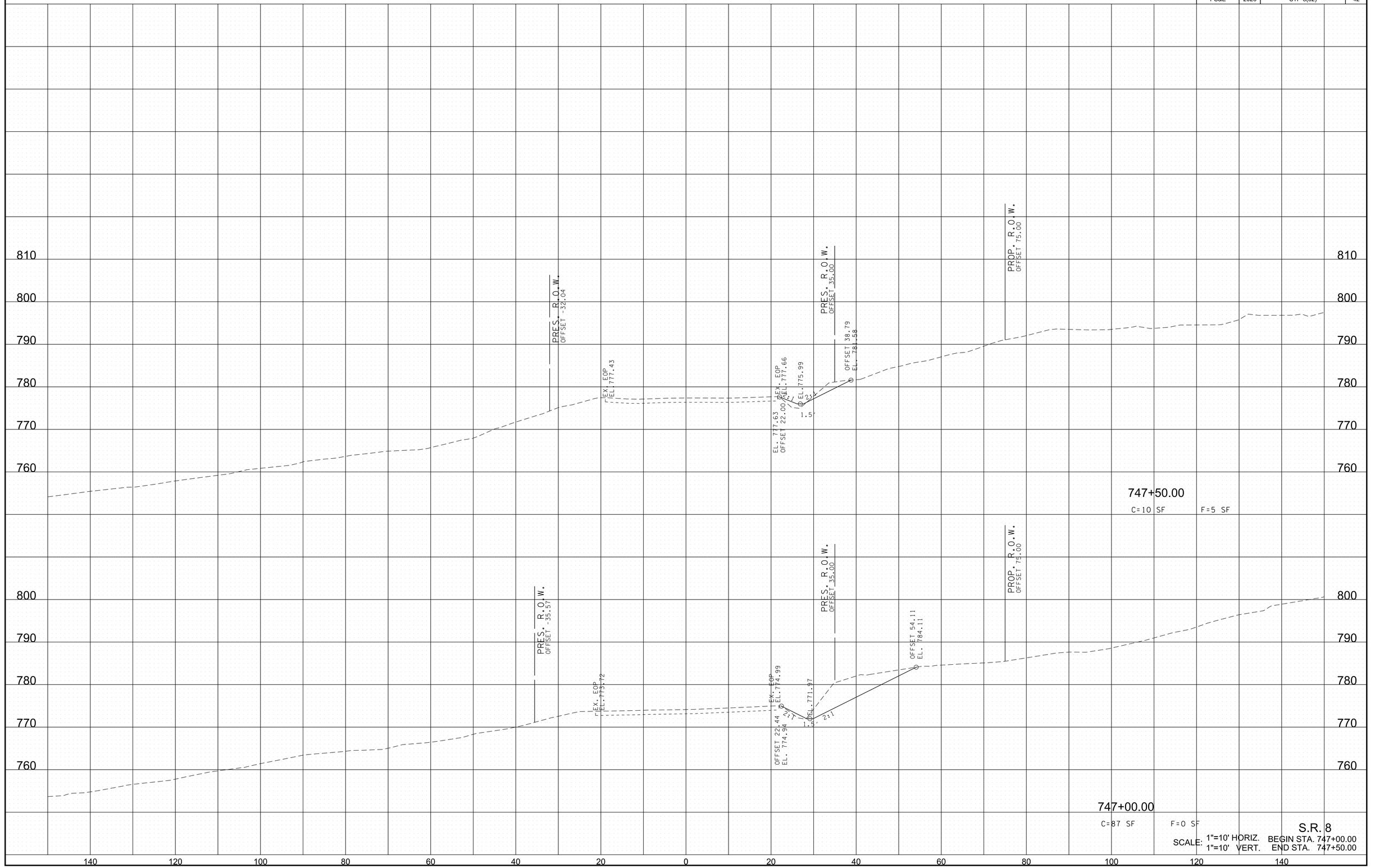
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	41
PS&E	2026	STP-8(52)	42



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 747+00.00
1"=10' VERT. END STA. 747+50.00

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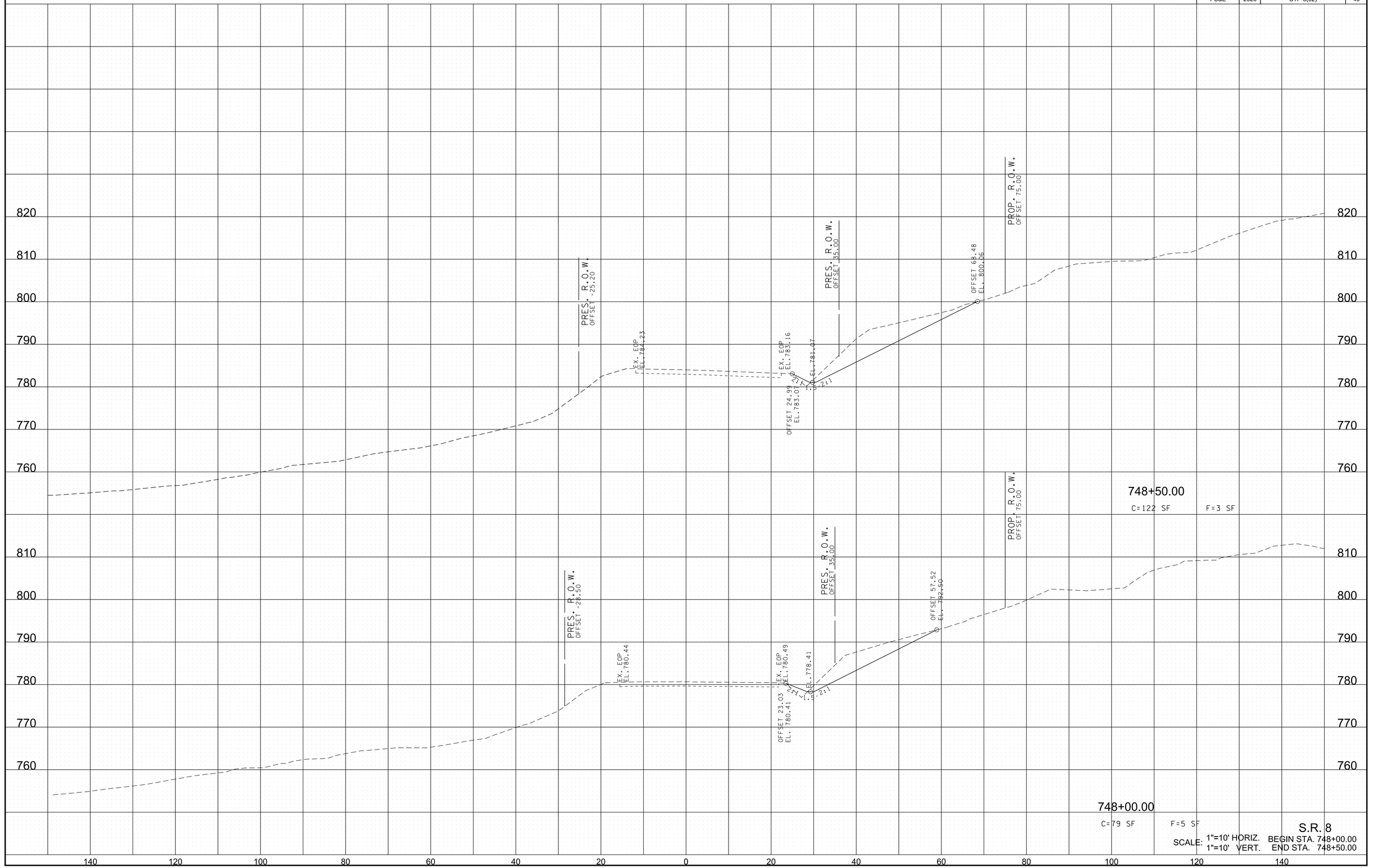
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	42
PS&E	2026	STP-8(52)	43



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 748+00.00
1"=10' VERT. END STA. 748+50.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	43
PS&E	2026	STP-8(52)	44

PRES. R.O.W.
OFFSET -25.00

EX. EOP
EL. 790.81

EX. EOP
EL. 789.04

PRES. R.O.W.
OFFSET 35.00

OFFSET 24.23
EL. 788.75

EL. 786.75

2:1

OFFSET 70.46
EL. 807.115

PROP. R.O.W.
OFFSET 75.00

749+50.00
C=62 SF F=2 SF

PRES. R.O.W.
OFFSET -25.00

EX. EOP
EL. 787.21

EX. EOP
EL. 786.11

EL. 785.83
OFFSET 24.74

EL. 784.23

2:1

PRES. R.O.W.
OFFSET 35.00

OFFSET 69.22
EL. 804.113

PROP. R.O.W.
OFFSET 75.00

749+00.00
C=39 SF F=1 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 749+00.00
1"=10' VERT. END STA. 749+50.00

820 810 800 790 780 770 760

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

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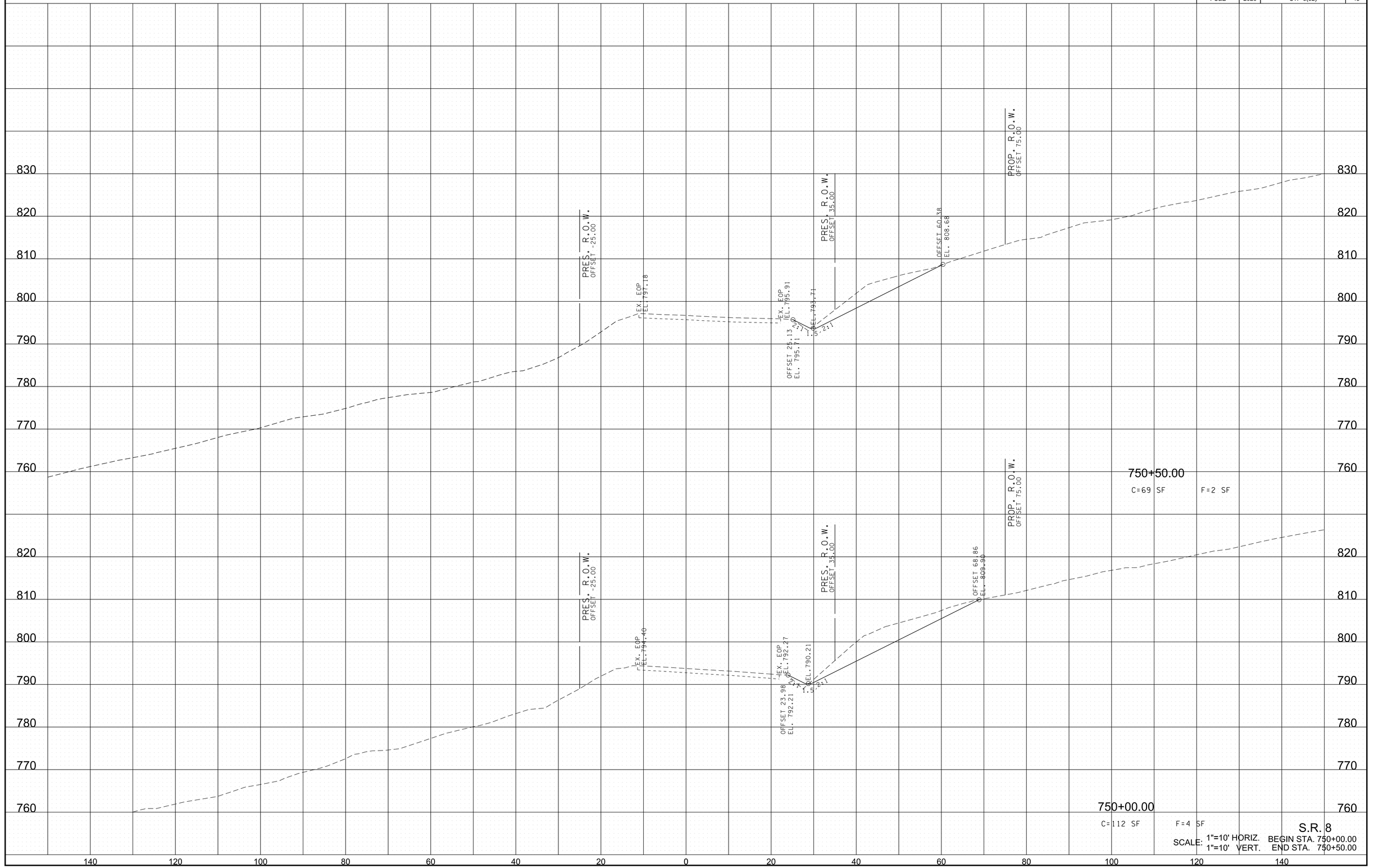
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	44
PS&E	2026	STP-8(52)	45



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 750+00.00
1"=10' VERT. END STA. 750+50.00

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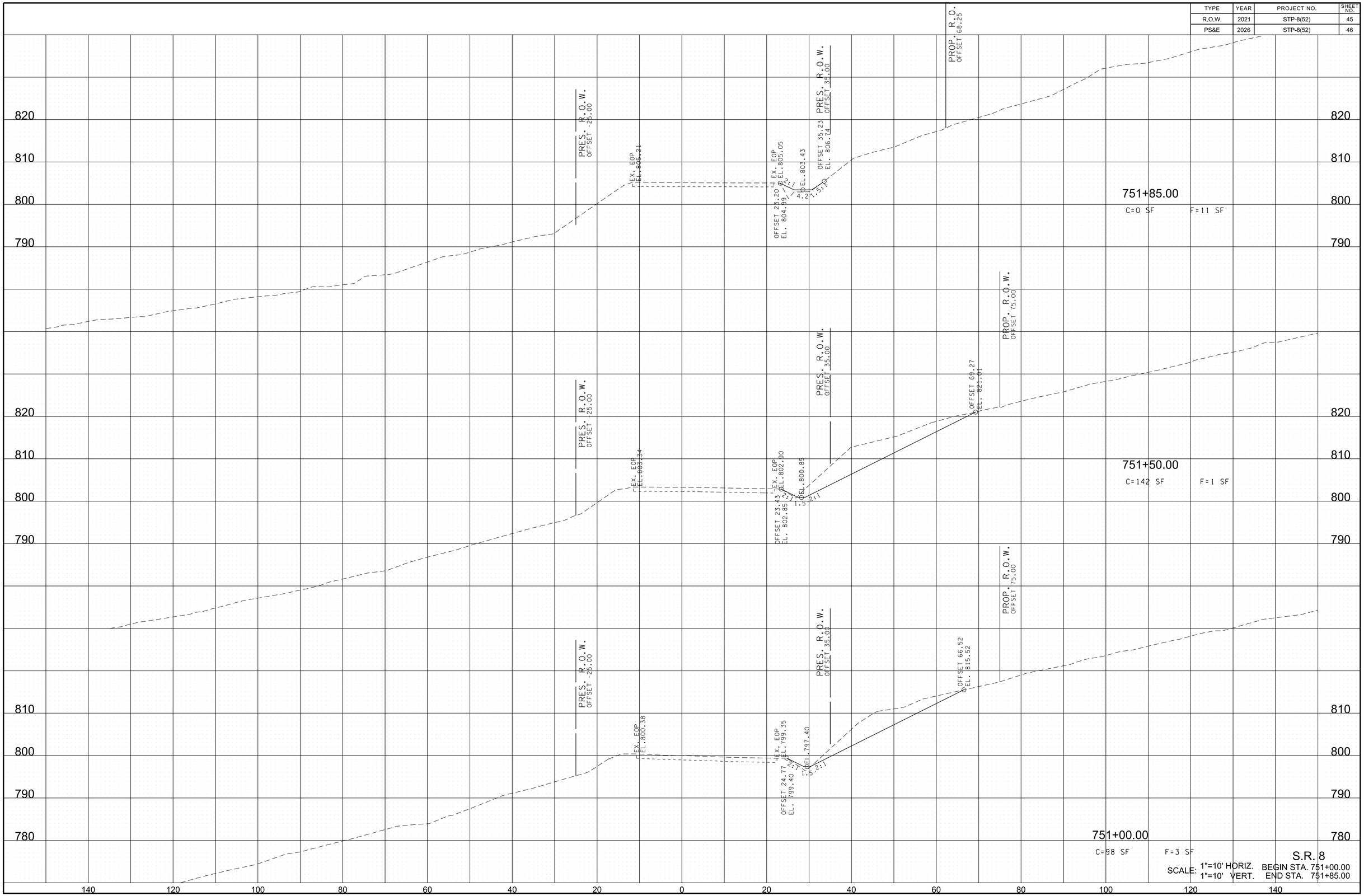
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	45
PS&E	2026	STP-8(52)	46



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 751+00.00
1"=10' VERT. END STA. 751+85.00

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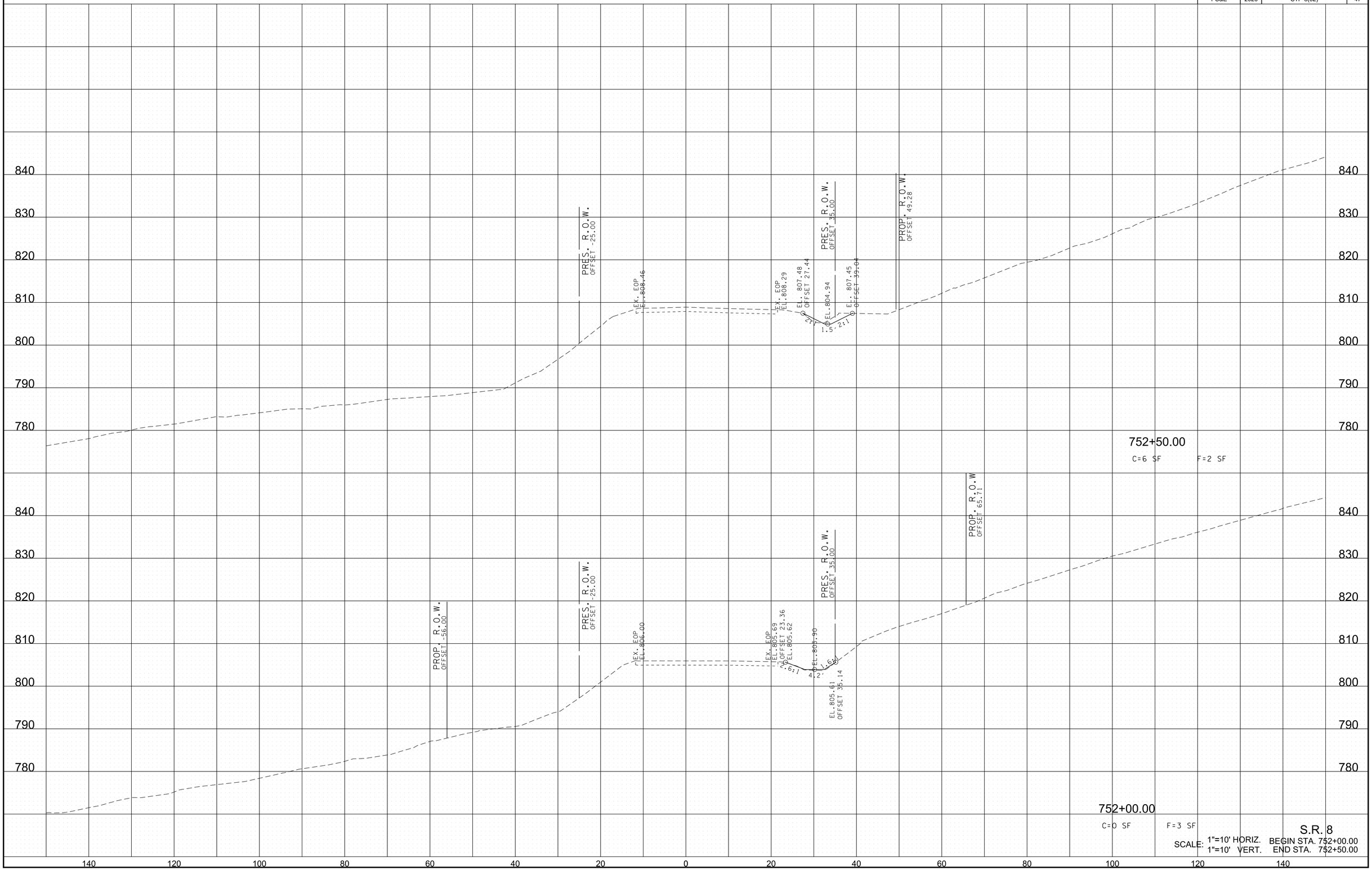
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	46
PS&E	2026	STP-8(52)	47



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 752+00.00
1"=10' VERT. END STA. 752+50.00

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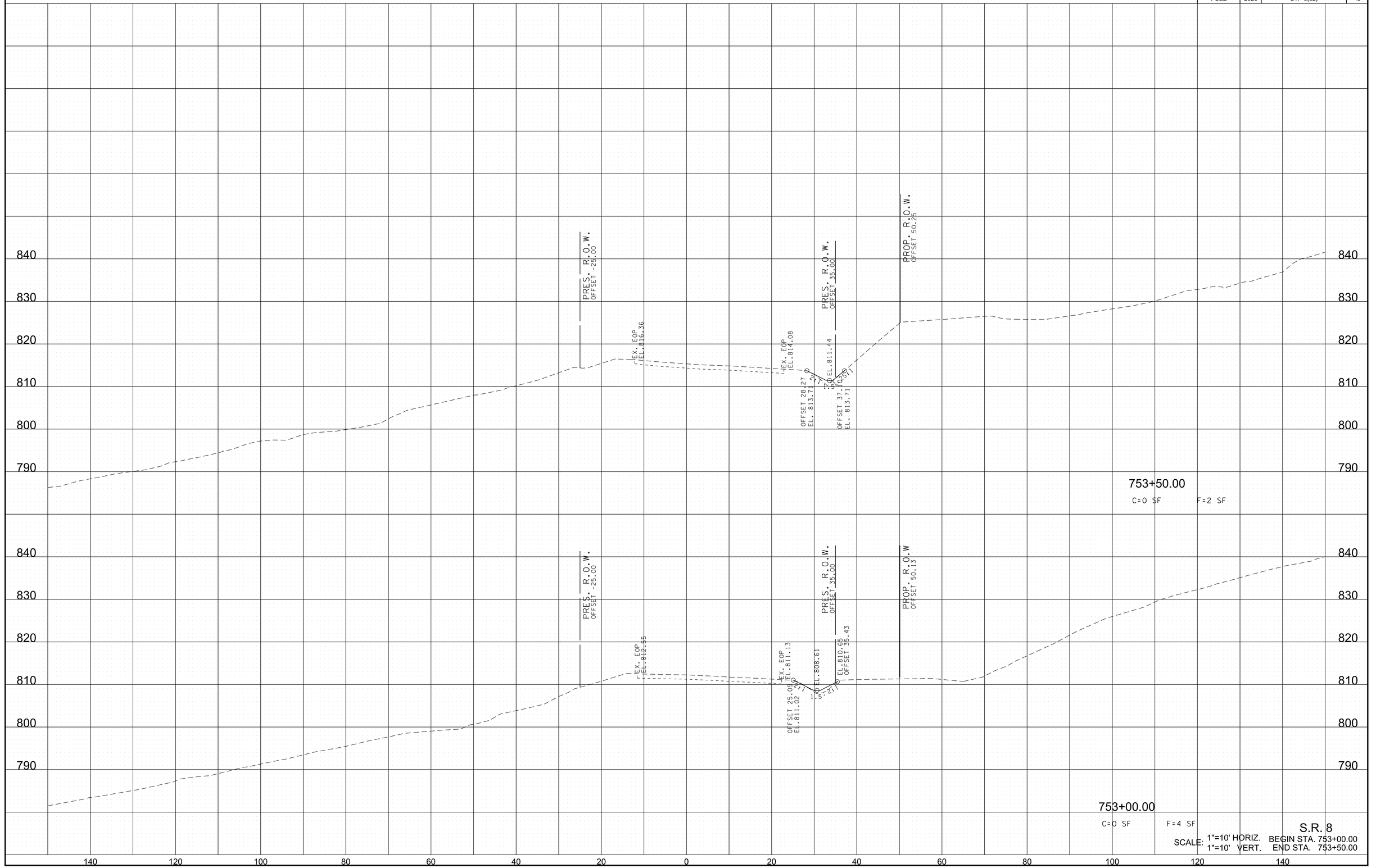
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	47
PS&E	2026	STP-8(52)	48



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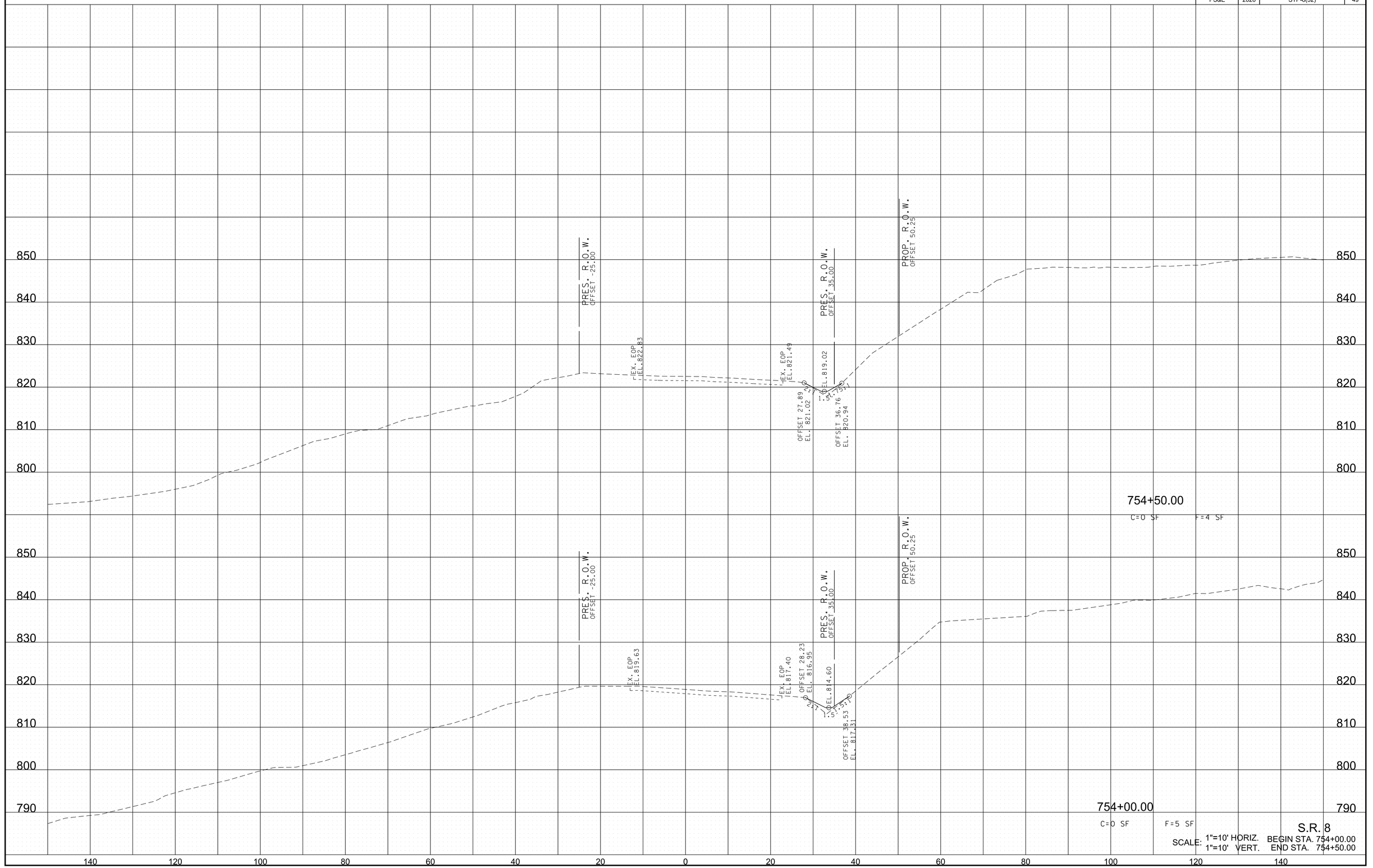
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	48
PS&E	2026	STP-8(52)	49



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 754+00.00
1"=10' VERT. END STA. 754+50.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	49
PS&E	2026	STP-8(52)	50

PRES. R.O.W.
OFFSET -25.00

EX. EOP
EL. 828.24

HEX. EOP
EL. 830.46

PRES. R.O.W.
OFFSET 35.00

EL. 828.48

OFFSET 45.45
EL. 830.73

PROP. R.O.W.
OFFSET 54.11

OFFSET 33.39
EL. 830.48

755+50.00
C=5 SF F=6 SF

PRES. R.O.W.
OFFSET -25.00

EX. EOP
EL. 825.82

EX. EOP
EL. 825.80

PRES. R.O.W.
OFFSET 35.00

OFFSET 25.79
EL. 825.77

EL. 824.27

OFFSET 32.91
EL. 825.58

PROP. R.O.W.
OFFSET 50.36

755+00.00
C=0 SF F=3 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 755+00.00
1"=10' VERT. END STA. 755+50.00

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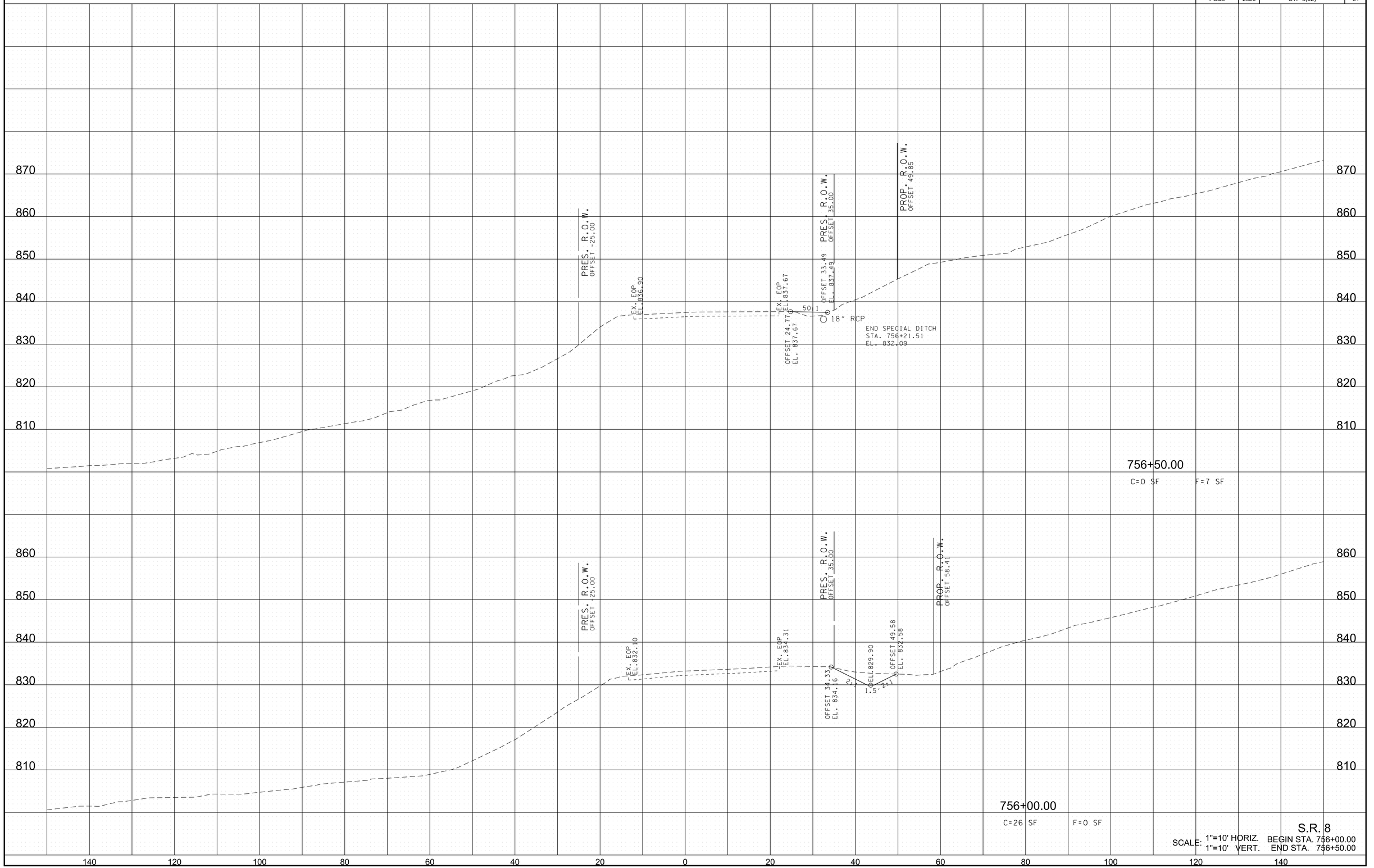
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	50
PS&E	2026	STP-8(52)	51

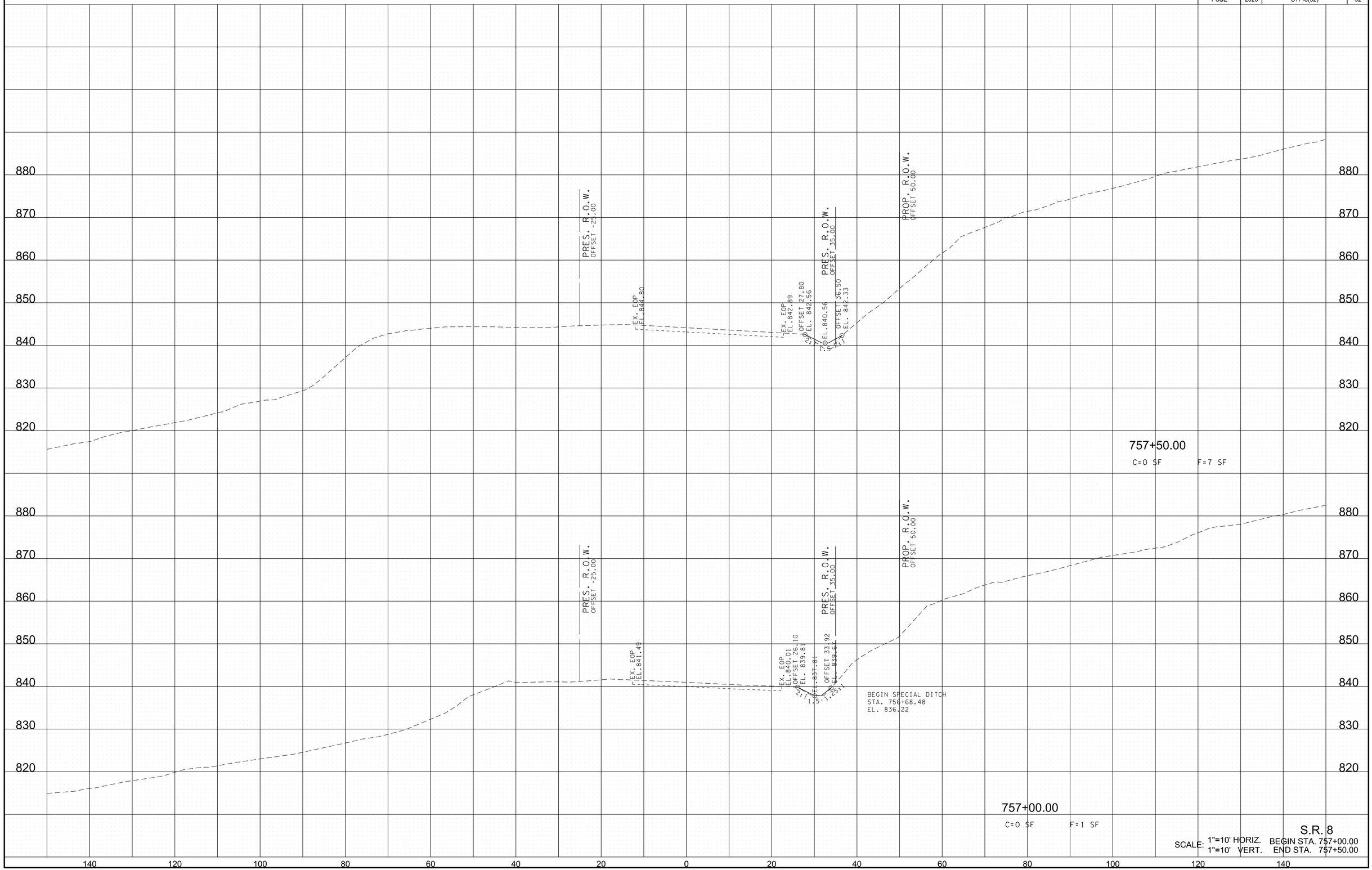


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 756+00.00
1"=10' VERT. END STA. 756+50.00

6/29/2026 8:17:26 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	51
PS&E	2026	STP-8(52)	52



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 757+00.00
1"=10' VERT. END STA. 757+50.00

6/29/2026 8:17:29 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	52
PS&E	2026	STP-8(52)	53

758+80.00
C=76 SF F=0 SF

758+50.00
C=0 SF F=4 SF

758+00.00
C=0 SF F=9 SF

S.R. 8
BEGIN STA. 758+00.00
END STA. 758+80.00

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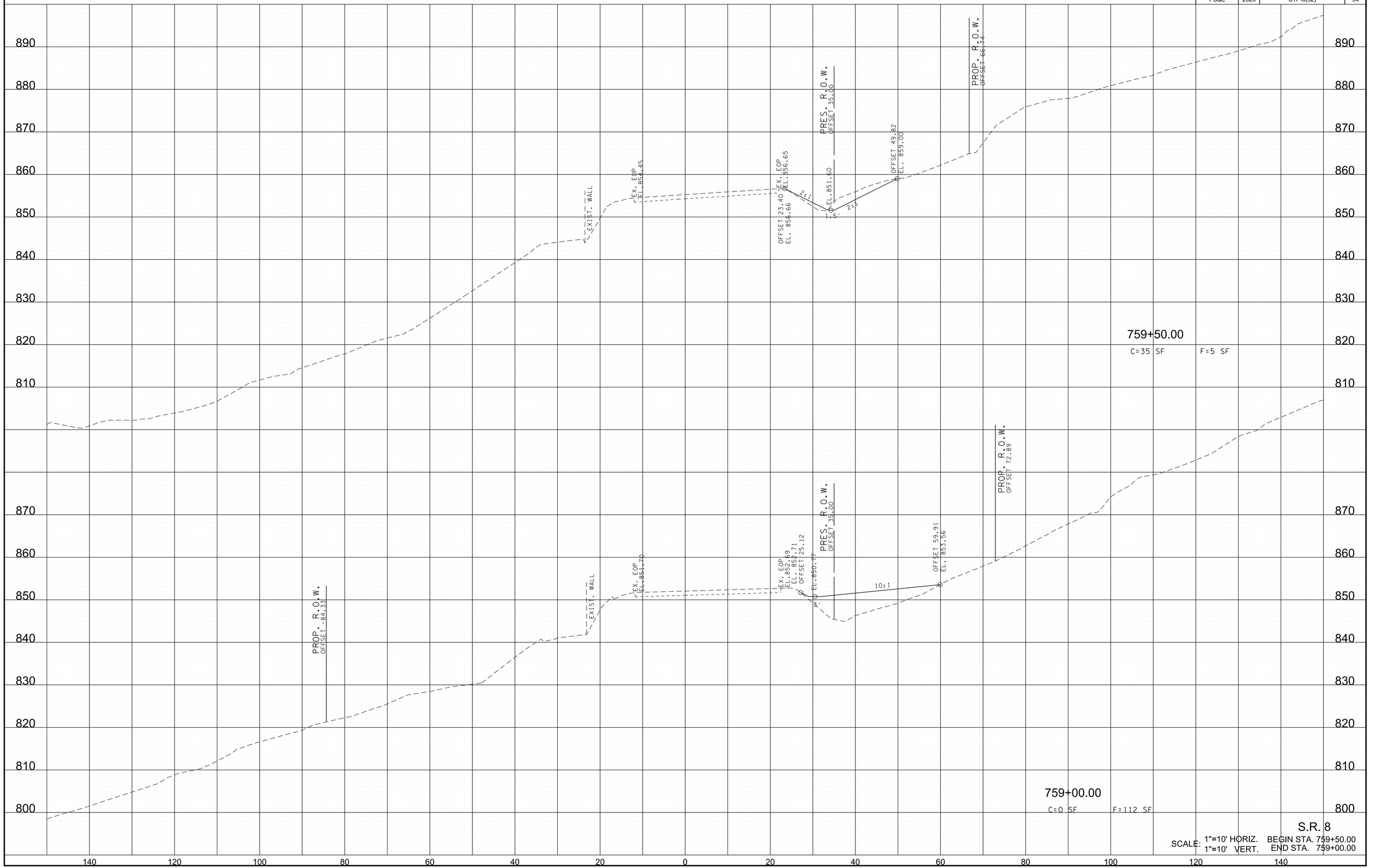
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	53
PS&E	2026	STP-8(52)	54



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 759+50.00
1"=10' VERT. END STA. 759+00.00

6/29/2026 8:17:36 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	54
PS&E	2026	STP-8(52)	55

760+50.00
C=0 SF F=2 SF

760+00.00
C=0 SF F=2 SF

EXIST. WALL
EX. EOP EL. 861.17
EX. EOP EL. 864.06
OFFSET 23.78 EL. 864.17
EL. 862.23
OFFSET 33.49 EL. 865.11
PRES. R.O.W. OFFSET 35.00
PROP. R.O.W. OFFSET 45.22

EXIST. WALL
EX. EOP EL. 857.79
EX. EOP EL. 860.44
OFFSET 23.89 EL. 860.52
EL. 858.58
OFFSET 32.72 EL. 860.89
PRES. R.O.W. OFFSET 35.00
PROP. R.O.W. OFFSET 49.96

S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT.
BEGIN STA. 760+50.00
END STA. 760+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	55
PS&E	2026	STP-8(52)	56

PROP. R.O.W.
OFFSET -109.15

PROP. R.O.W.
OFFSET -30.92

EXIST. WALL

EX. EOP
EL. 868.25

EX. EOP
EL. 871.22

PRES. R.O.W.
OFFSET 35.00

OFFSET 42.01
EL. 870.65

2:1

EL. 865.40

1.5'

6:1

OFFSET 68.38
EL. 867.55

PROP. R.O.W.
OFFSET 86.66

BEGIN SPECIAL DITCH
STA. 761+48.59
EL. 865.40

END SPECIAL DITCH
STA. 761+39.96
EL. 868.57

761+50.00
C=18 SF F=15 SF

PROP. R.O.W.
OFFSET -110.30

EXIST. WALL

EX. EOP
EL. 864.87

EX. EOP
EL. 867.70
OFFSET 27.65
EL. 868.00

EL. 866.06

2:1

1.5'

3:1

PRES. R.O.W.
OFFSET 35.00

OFFSET 37.69
EL. 867.69

PROP. R.O.W.
OFFSET 52.94

761+00.00
C=4 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT.
BEGIN STA. 761+00.00
END STA. 761+50.00

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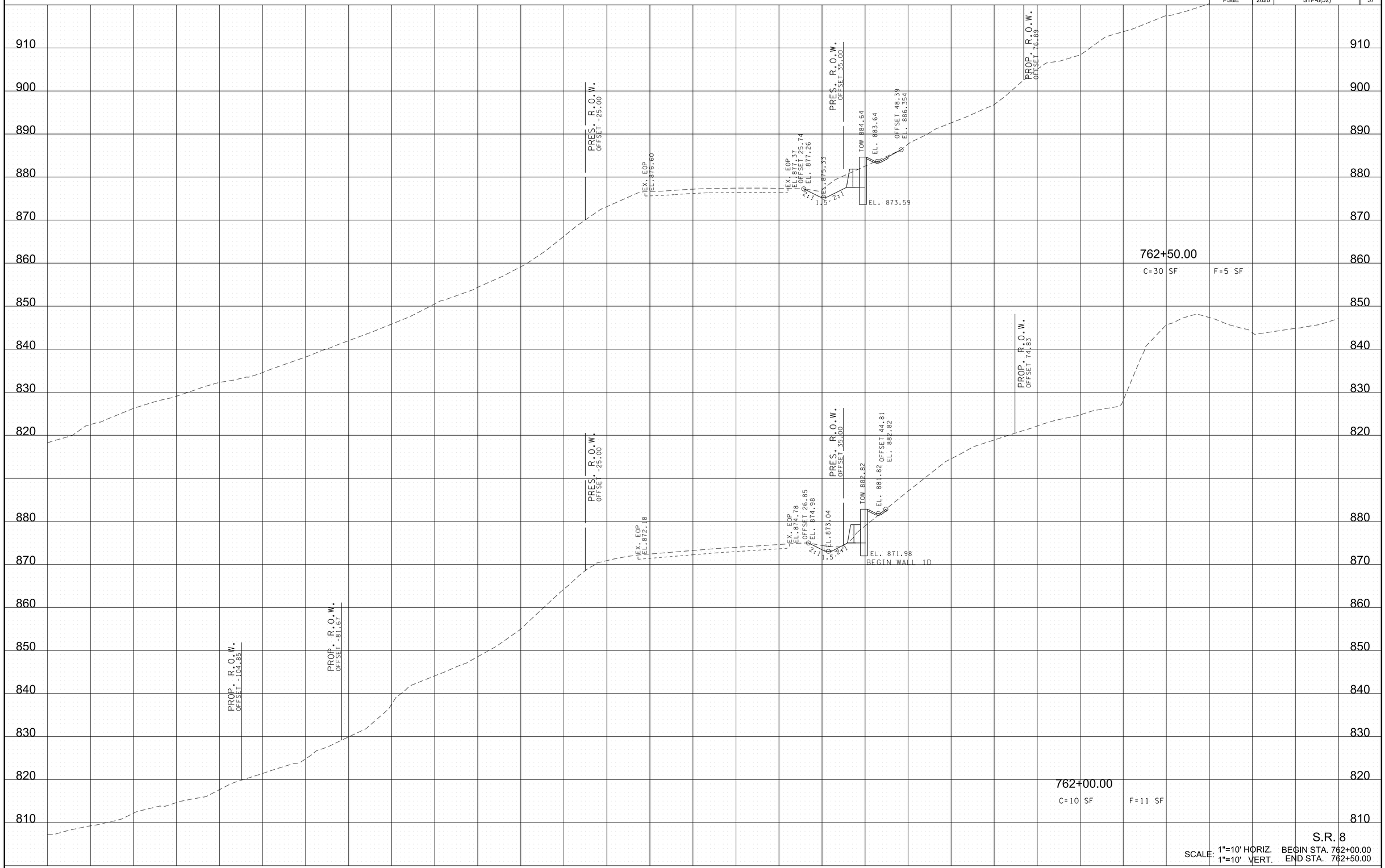
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	56
PS&E	2026	STP-8(52)	57



S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT.

BEGIN STA. 762+00.00
END STA. 762+50.00

6/29/2026 9:10:13 PM
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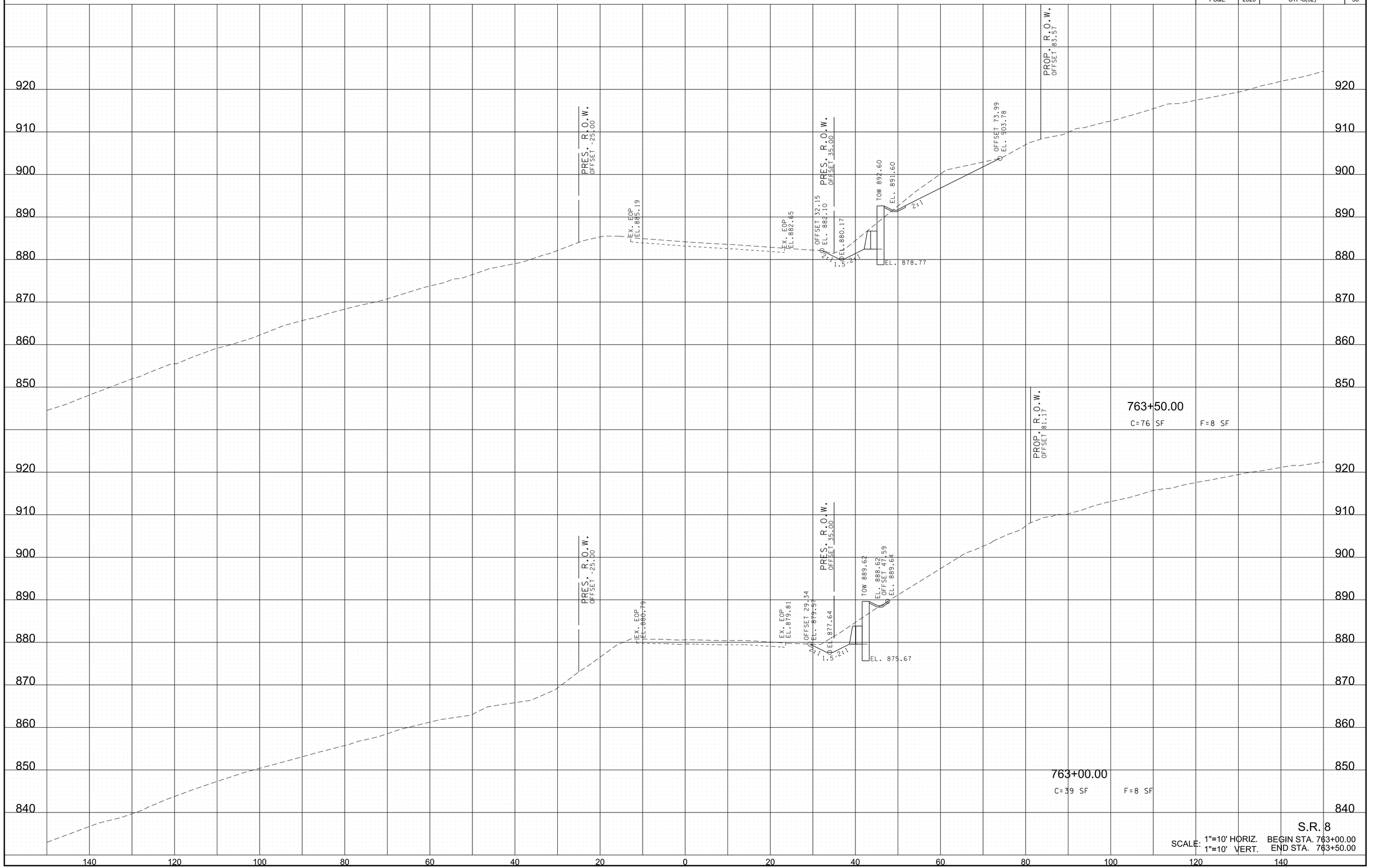
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	57
PS&E	2026	STP-8(52)	58

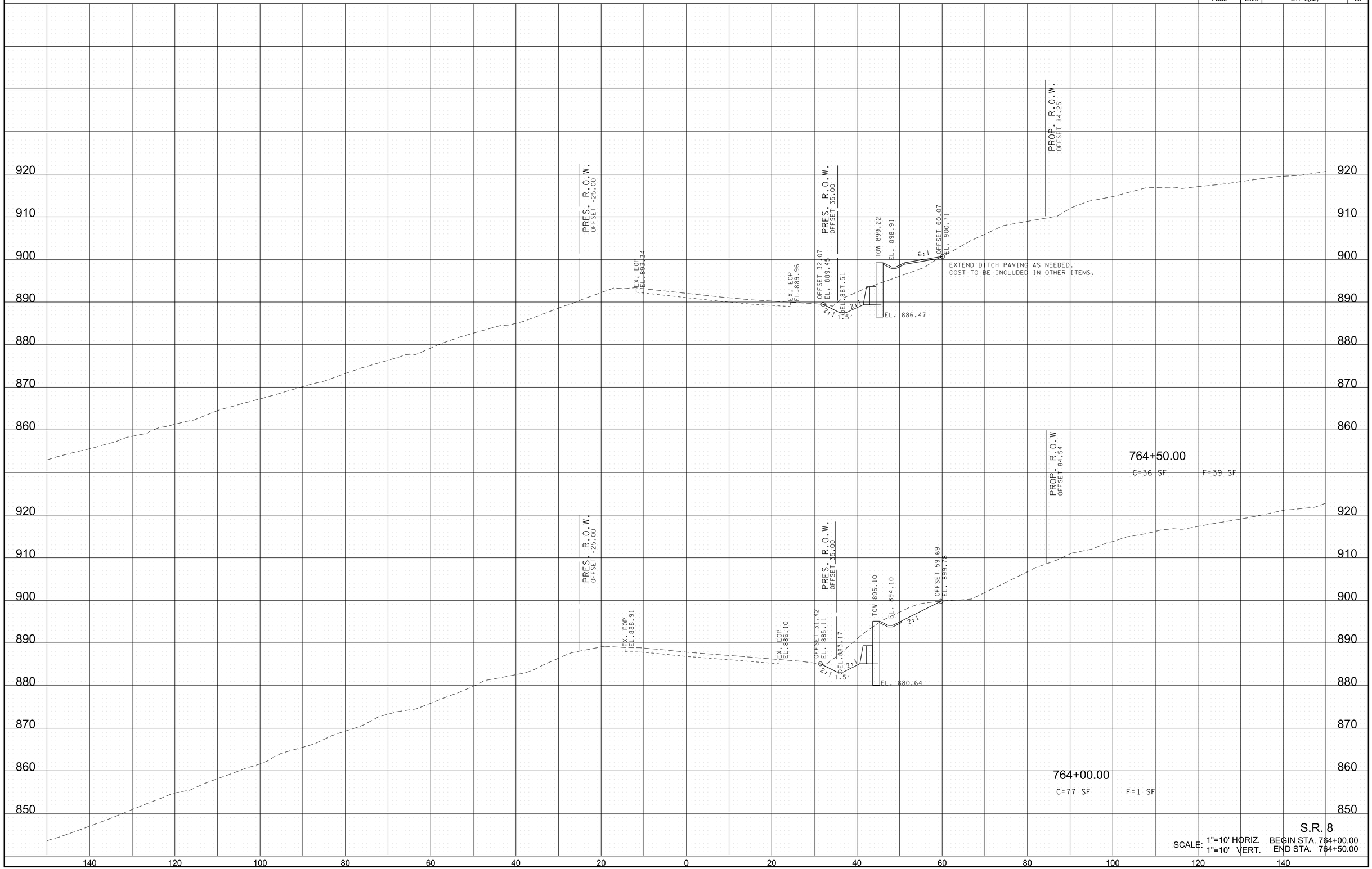


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 763+00.00
1"=10' VERT. END STA. 763+50.00

6/29/2026 8:17:48 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	58
PS&E	2026	STP-8(52)	59



S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT. BEGIN STA. 764+00.00 END STA. 764+50.00

6/29/2026 8:17:50 PM
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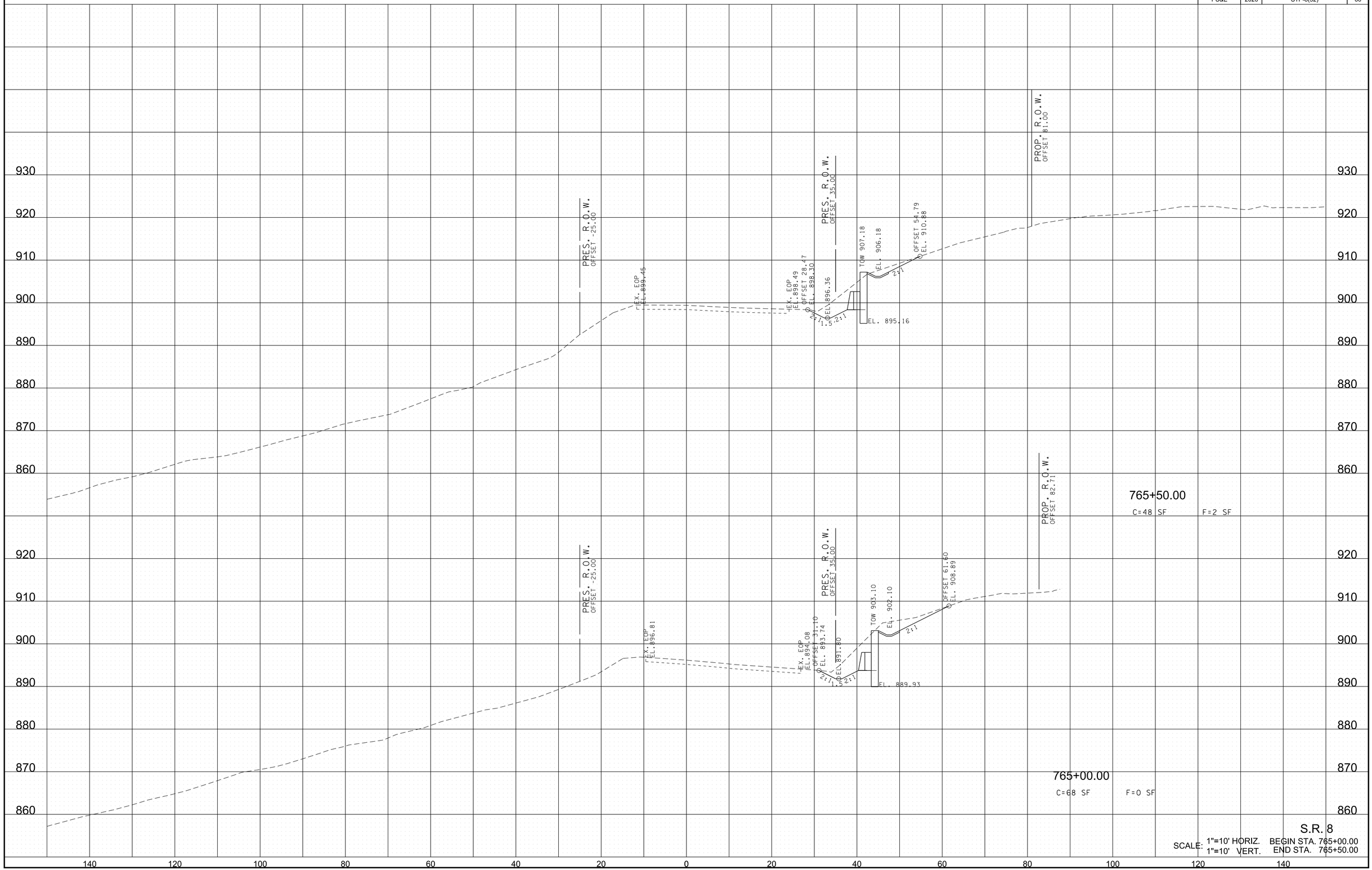
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	59
PS&E	2026	STP-8(52)	60

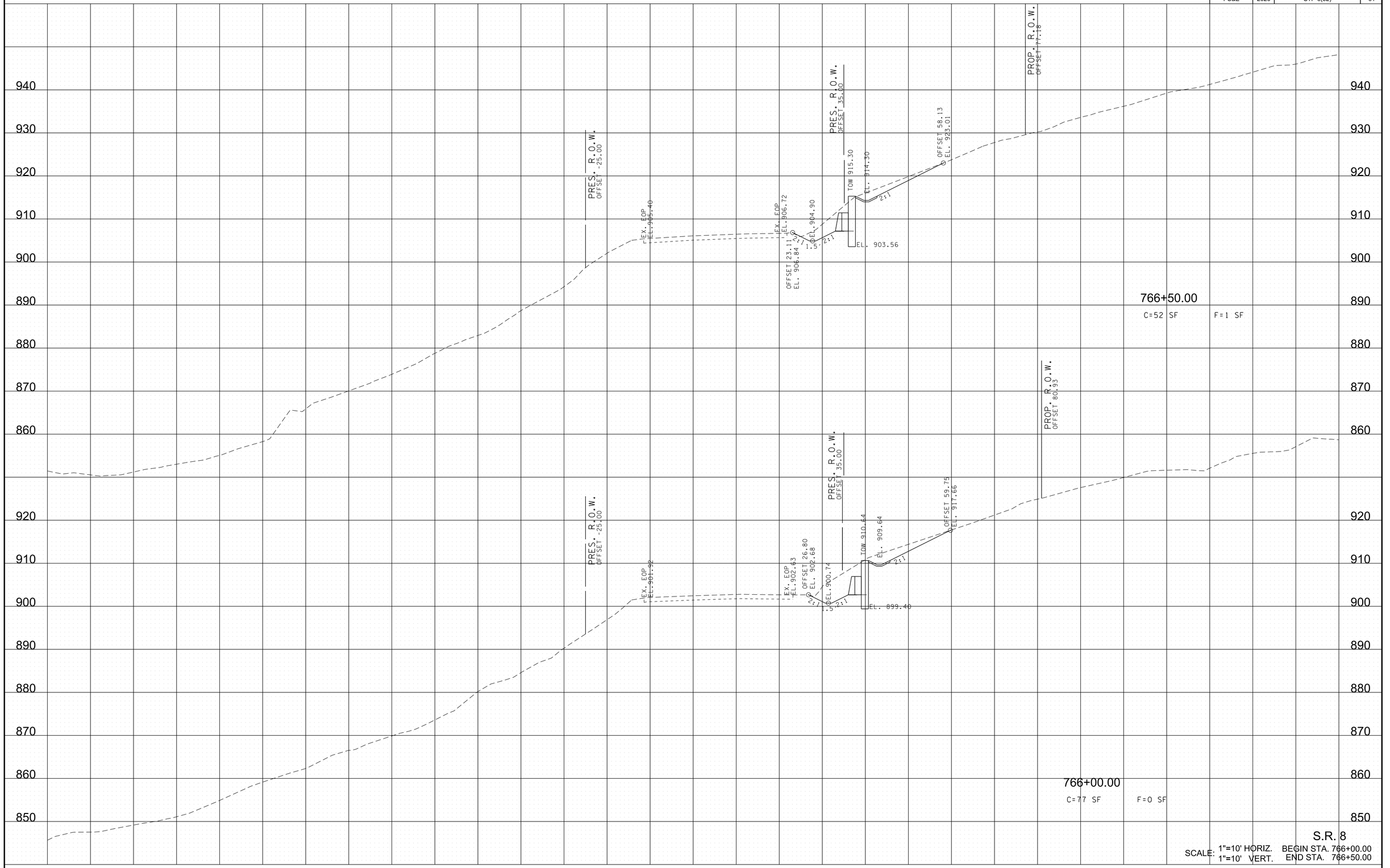


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 765+00.00
1"=10' VERT. END STA. 765+50.00

6/29/2026 8:17:53 PM
c:\pw_work\arcadspw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	60
PS&E	2026	STP-8(52)	61

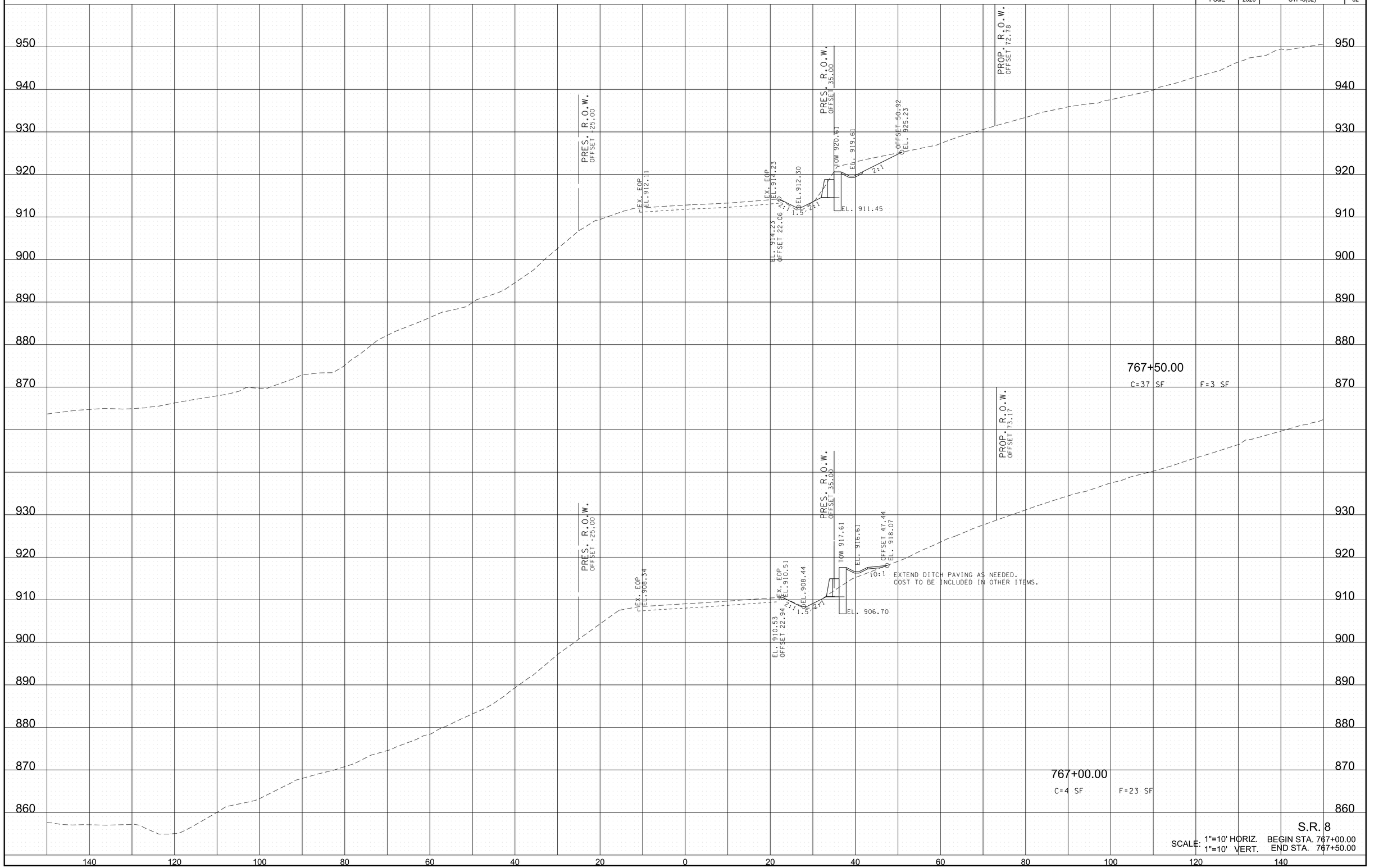


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 766+00.00
1"=10' VERT. END STA. 766+50.00

6/29/2026 8:17:55 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	61
PS&E	2026	STP-8(52)	62

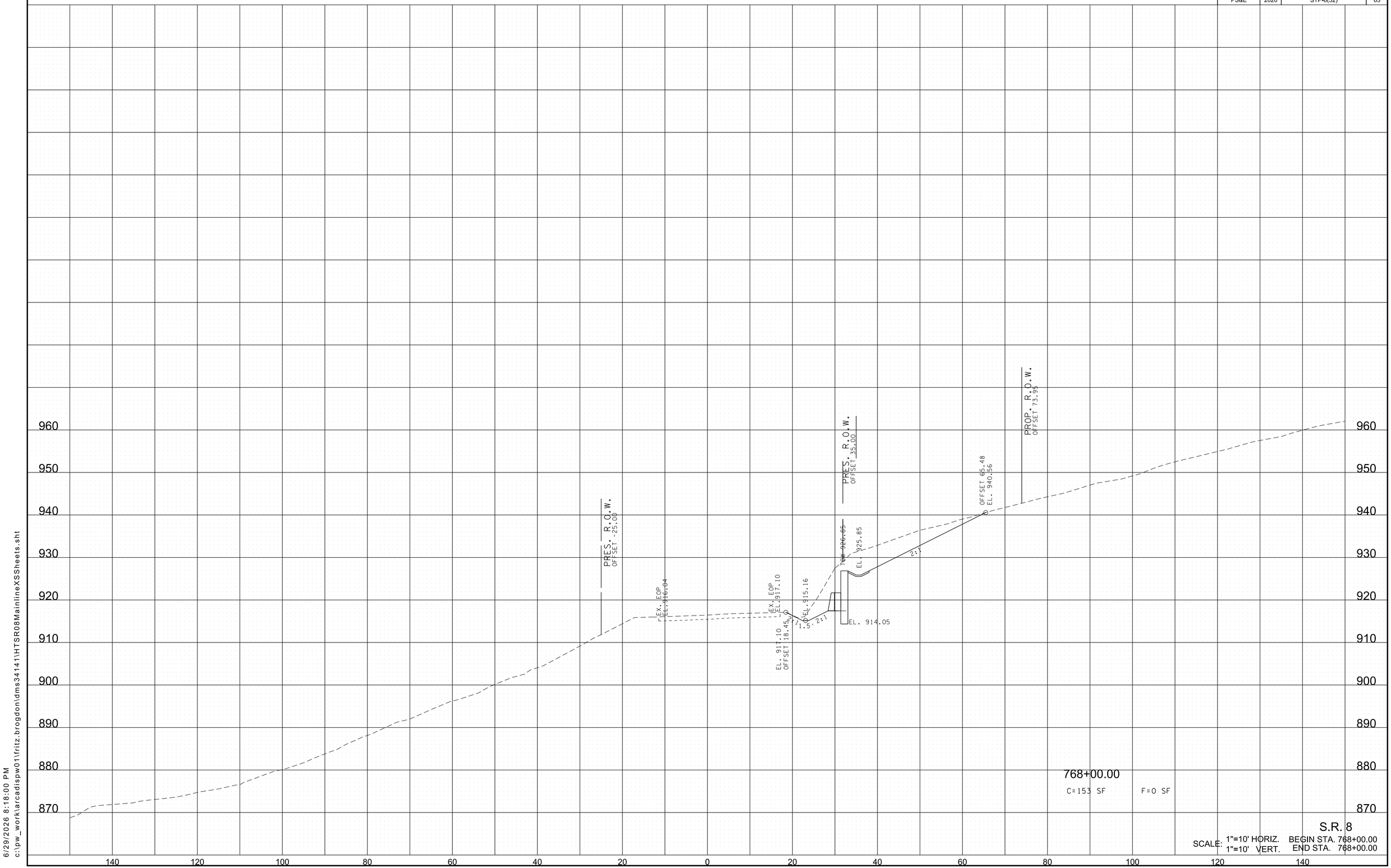


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 767+00.00
1"=10' VERT. END STA. 767+50.00

6/29/2026 8:17:58 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	62
PS&E	2026	STP-8(52)	63



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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	63
PS&E	2026	STP-8(52)	64

PRES. R.O.W.
OFFSET -25.00

EX. EOP
EL. 922.97

EX. EOP
EL. 923.99

EL. 922.34

OFFSET 22.89
EL. 923.58

PRES. R.O.W.
OFFSET 35.00

TOW 928.91

EL. 927.91

10:1

OFFSET 53.26
EL. 929.92

EL. 921.66
BEGIN WALL 2D

EXTEND DITCH PAVING AS NEEDED.
COST TO BE INCLUDED IN OTHER ITEMS.

PROP. R.O.W.
OFFSET* 73.99

769+00.00
C=4 SF F=26 SF

PROP. R.O.W.
OFFSET* -70.07

PRES. R.O.W.
OFFSET -25.00

EX. EOP
EL. 919.24

EX. EOP
EL. 920.73

EL. 919.14

EL. 920.78
OFFSET 20.42

TOW 925.03

EL. 924.03

OFFSET 41.53
EL. 925.34

10:1

EL. 916.85
END WALL ID
STA. 768+51.78

PRES. R.O.W.
OFFSET 35.00

PROP. R.O.W.
OFFSET* 74.03

768+50.00
C=12 SF F=4 SF

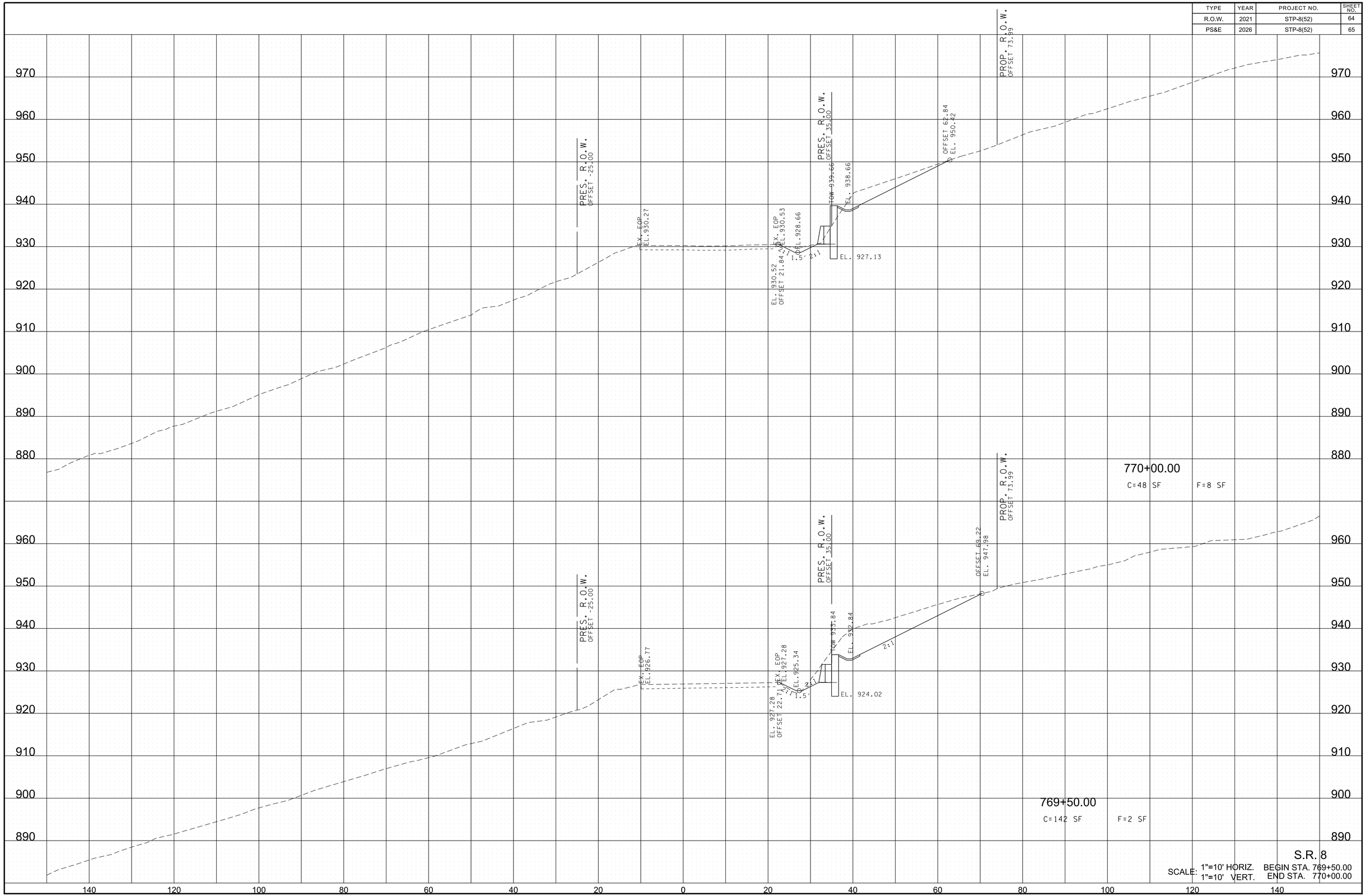
950 940 930 920 910 900 890 880 870

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

S.R. 8
SCALE: 1"=10' HORIZ. BEGIN STA. 768+50.00
1"=10' VERT. END STA. 769+00.00

6/29/2026 9:10:15 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	64
PS&E	2026	STP-8(52)	65



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 769+50.00
1"=10' VERT. END STA. 770+00.00

6/29/2026 8:18:05 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	65
PS&E	2026	STP-8(52)	66

PRES. R.O.W.
OFFSET -25.00

EX. EOP
EL. 936.49

EX. EOP
EL. 936.74

EL. 936.68
OFFSET 22.14

1.5

2:1

EL. 934.74

PRES. R.O.W.
OFFSET 35.00

TOW 947.14

EL. 946.14

EL. 932.71

2:1

OFFSET 67.35
EL. 960.57

PROP. R.O.W.
OFFSET 74.00

771+00.00
C=73 SF F=1 SF

PRES. R.O.W.
OFFSET -25.00

EX. EOP
EL. 933.36

EX. EOP
EL. 933.47

EL. 933.57
OFFSET 22.32

1.5

2:1

EL. 931.63

PRES. R.O.W.
OFFSET 35.00

TOW 943.58

EL. 942.58

EL. 930.01

2:1

OFFSET 42.04
EL 943.71

PROP. R.O.W.
OFFSET 74.00

770+50.00
C=29 SF F=14 SF

970 960 950 940 930 920 910 900

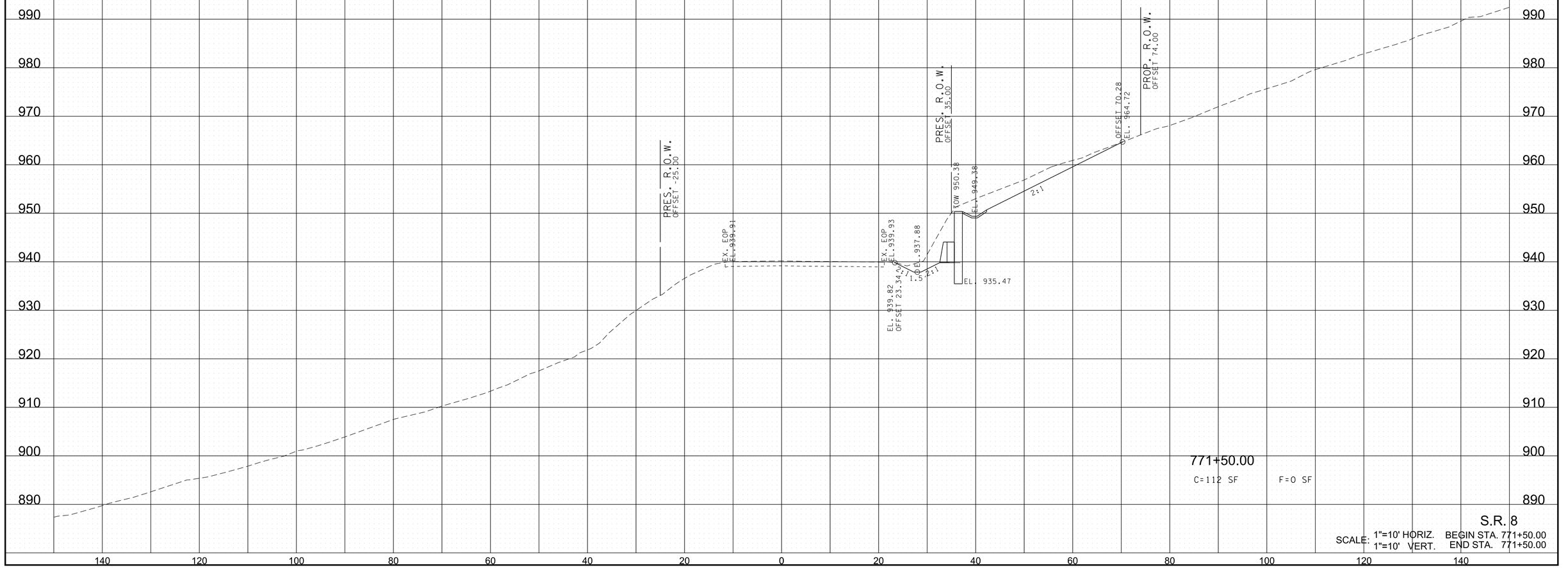
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT.
BEGIN STA. 770+50.00
END STA. 771+00.00

6/29/2026 8:18:08 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	66
PS&E	2026	STP-8(52)	67



771+50.00

C=112 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT.

BEGIN STA. 771+50.00

END STA. 771+50.00

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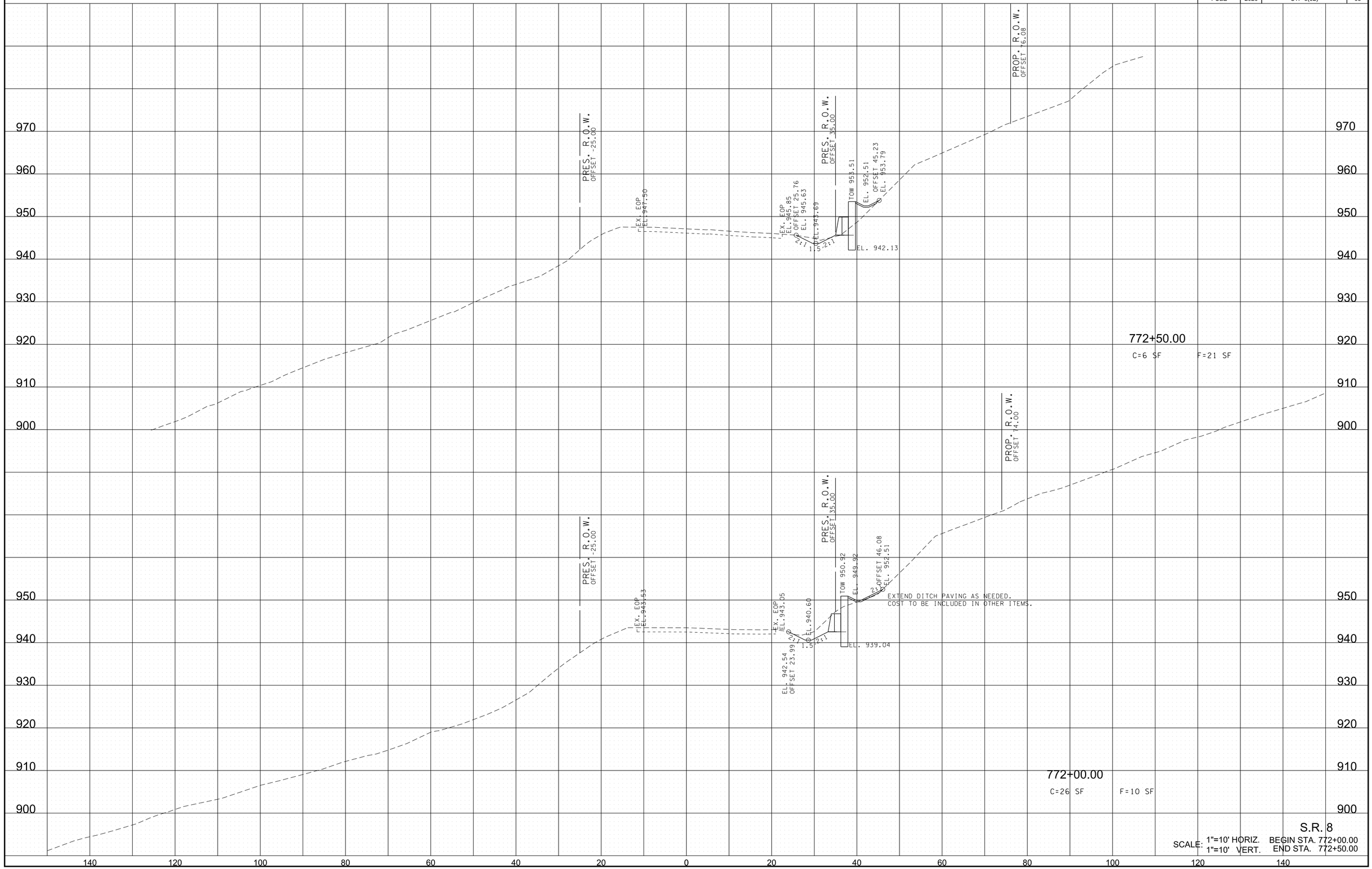
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	67
PS&E	2026	STP-8(52)	68

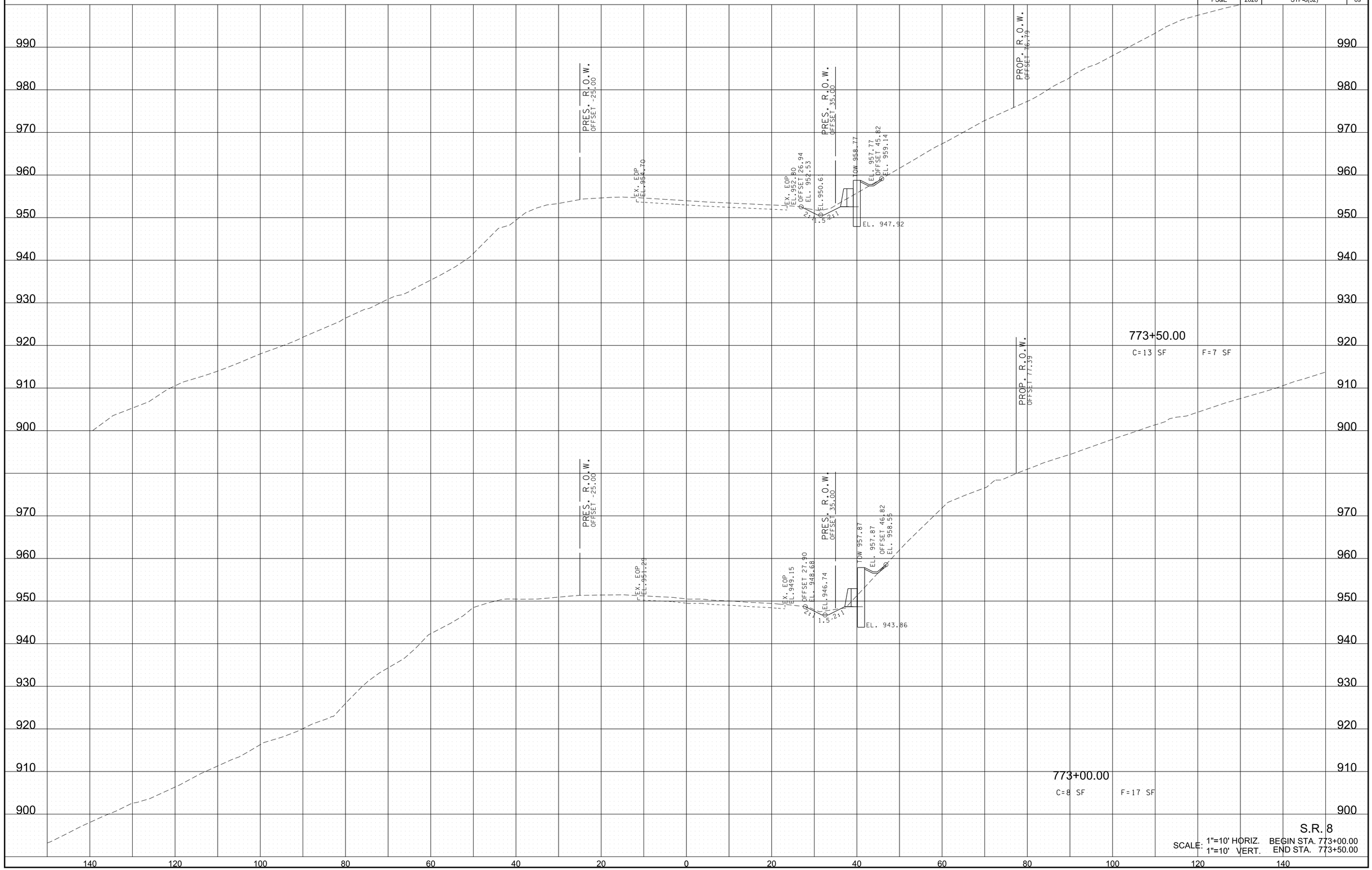


S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT. BEGIN STA. 772+00.00 END STA. 772+50.00

6/29/2026 8:18:13 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	68
PS&E	2026	STP-8(52)	69

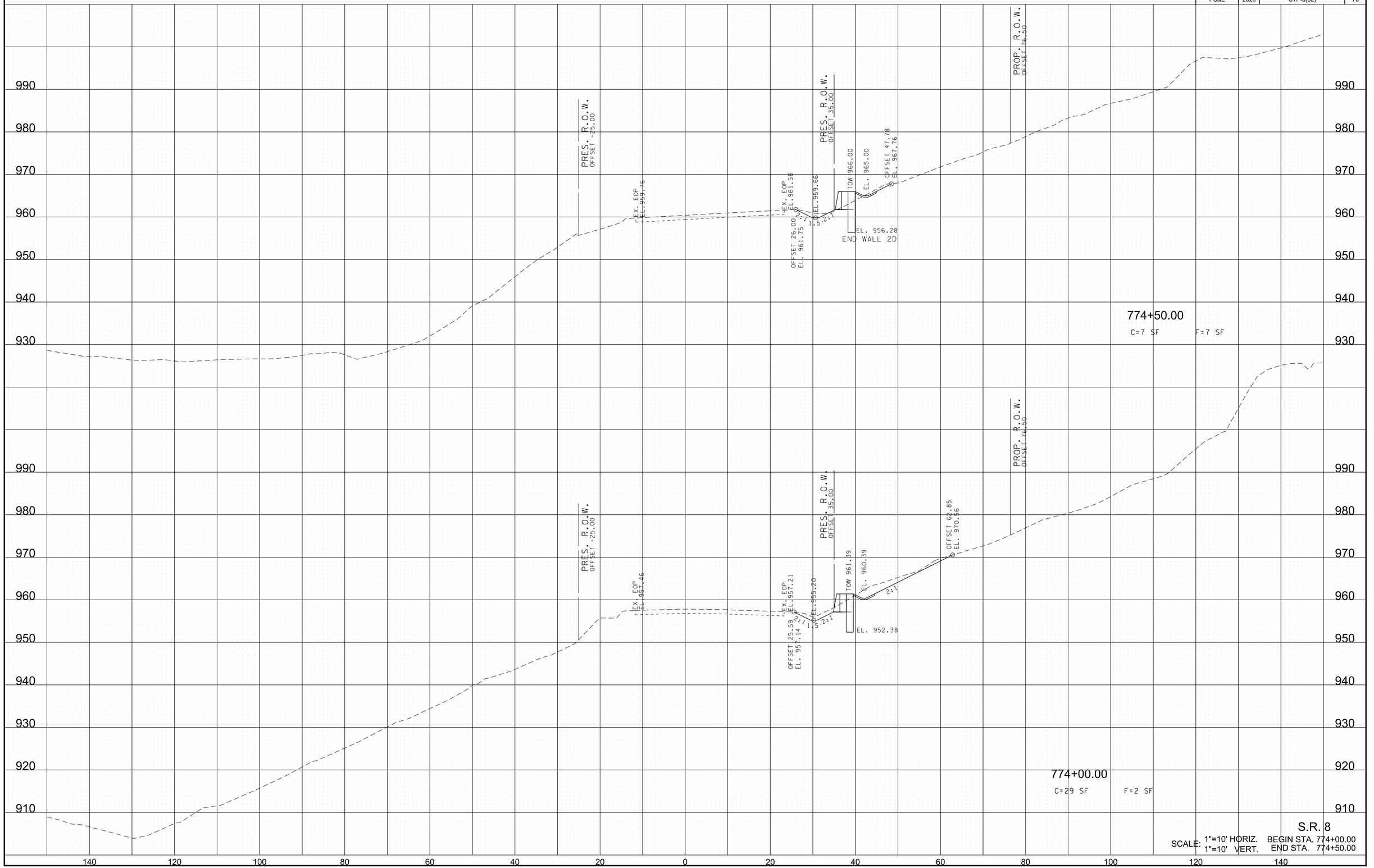


S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT. BEGIN STA. 773+00.00 END STA. 773+50.00

6/29/2026 8:18:15 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms341411\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	69
PS&E	2026	STP-8(52)	70



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 774+00.00
1"=10' VERT. END STA. 774+50.00

6/29/2026 8:18:18 PM
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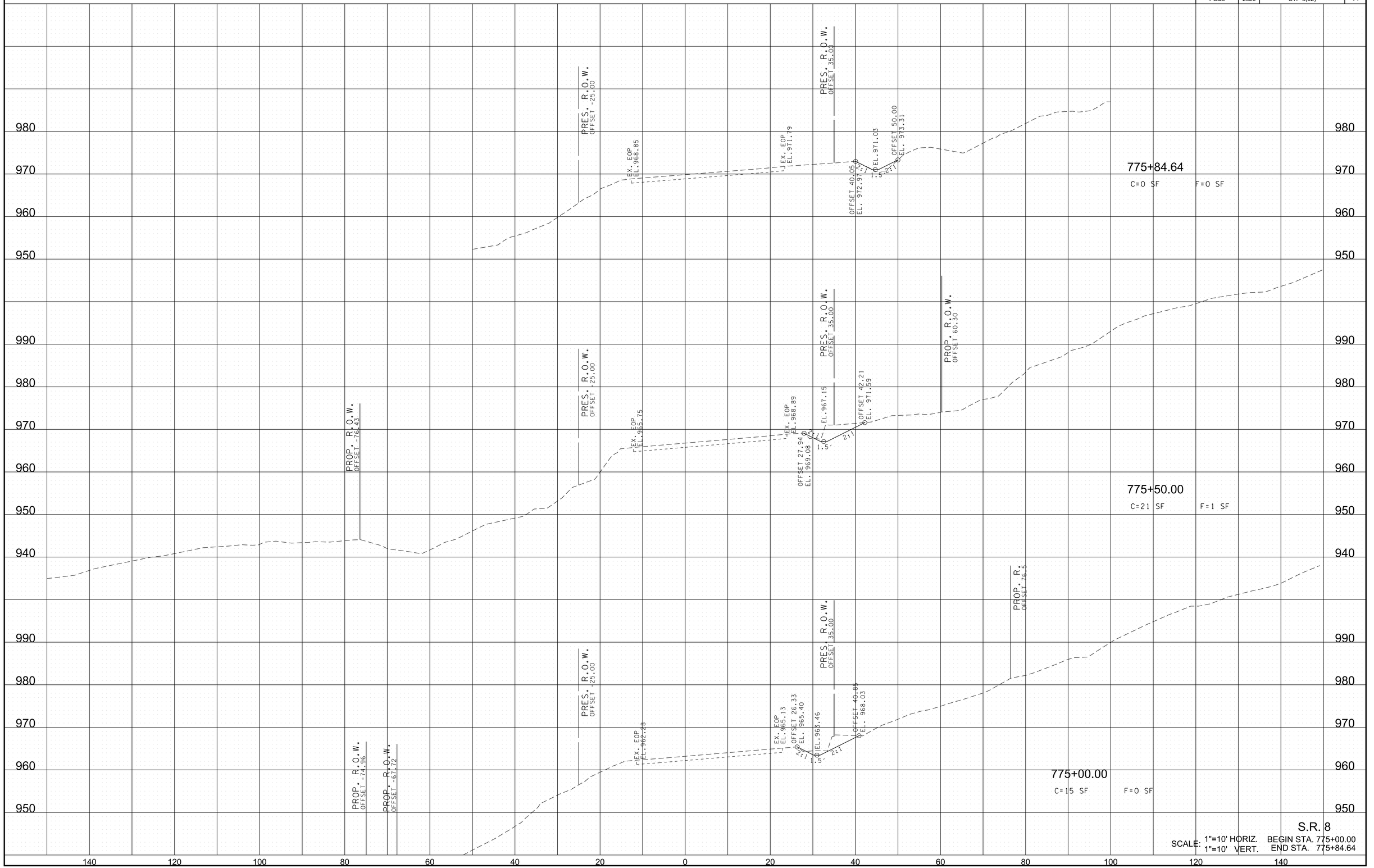
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	70
PS&E	2026	STP-8(52)	71

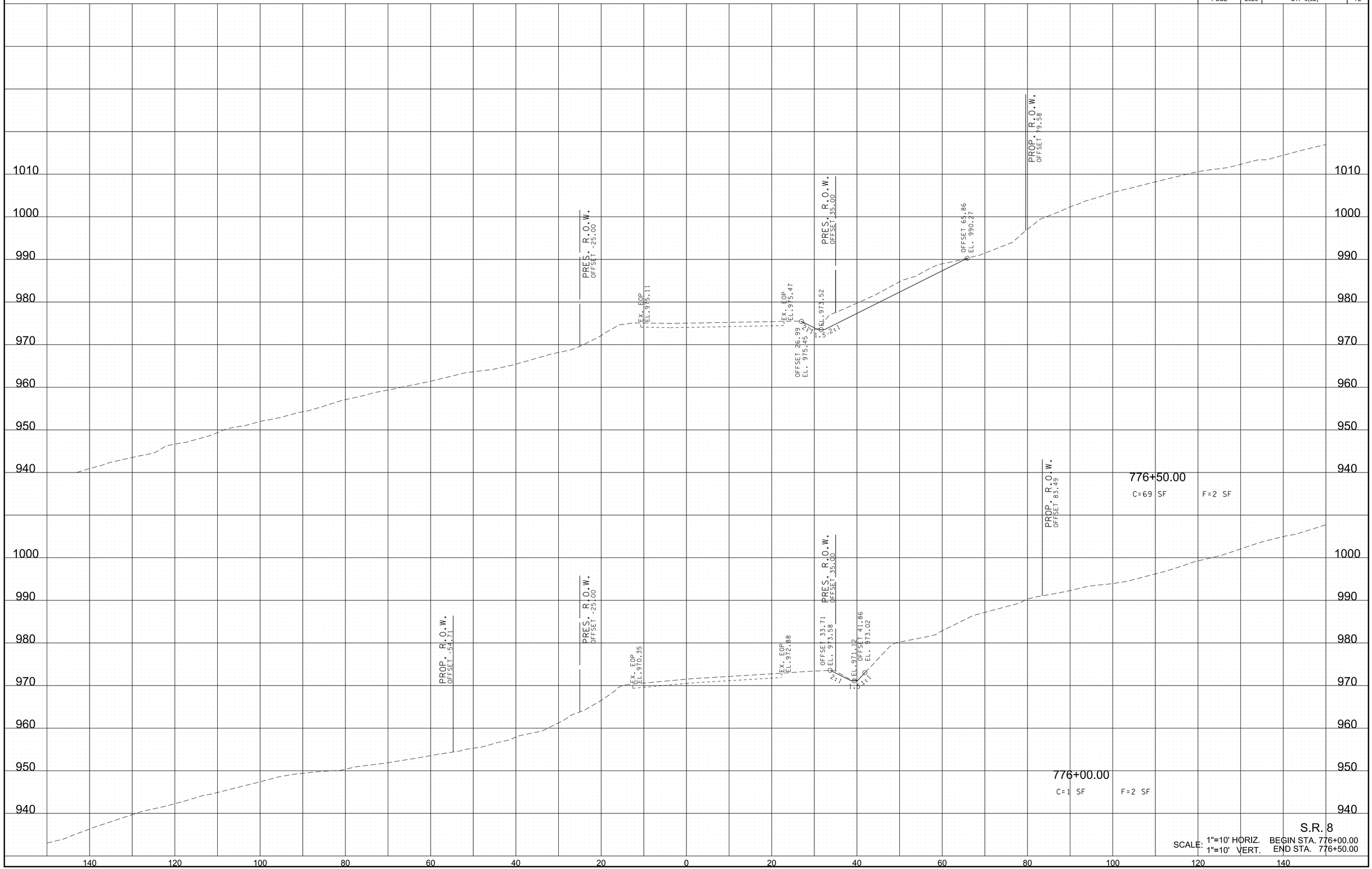


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 775+00.00
1"=10' VERT. END STA. 775+84.64

6/29/2026 8:18:21 PM
c:\pw_work\arcadlspw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	71
PS&E	2026	STP-8(52)	72

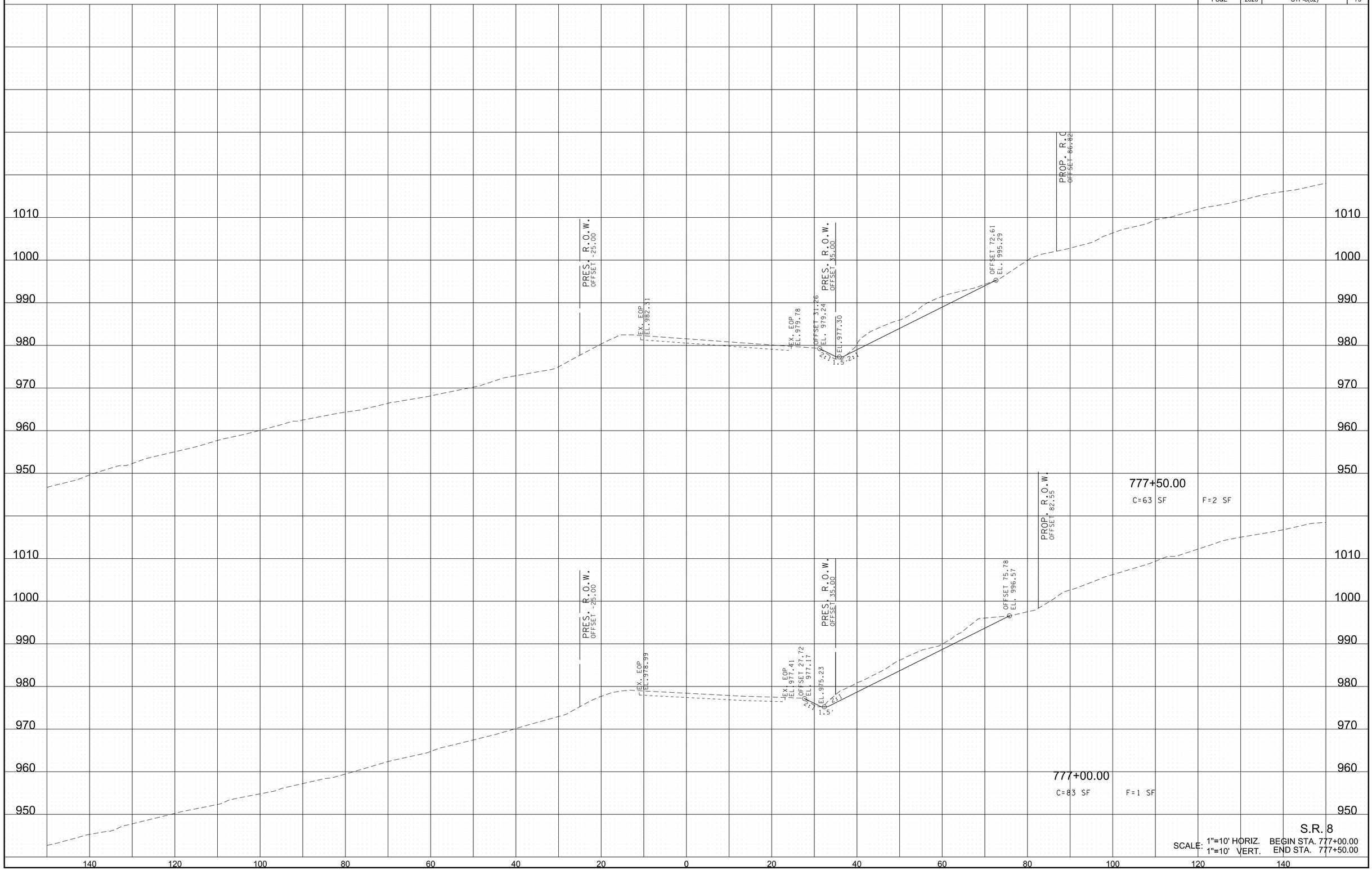


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 776+00.00
1"=10' VERT. END STA. 776+50.00

6/29/2026 8:18:23 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	72
PS&E	2026	STP-8(52)	73

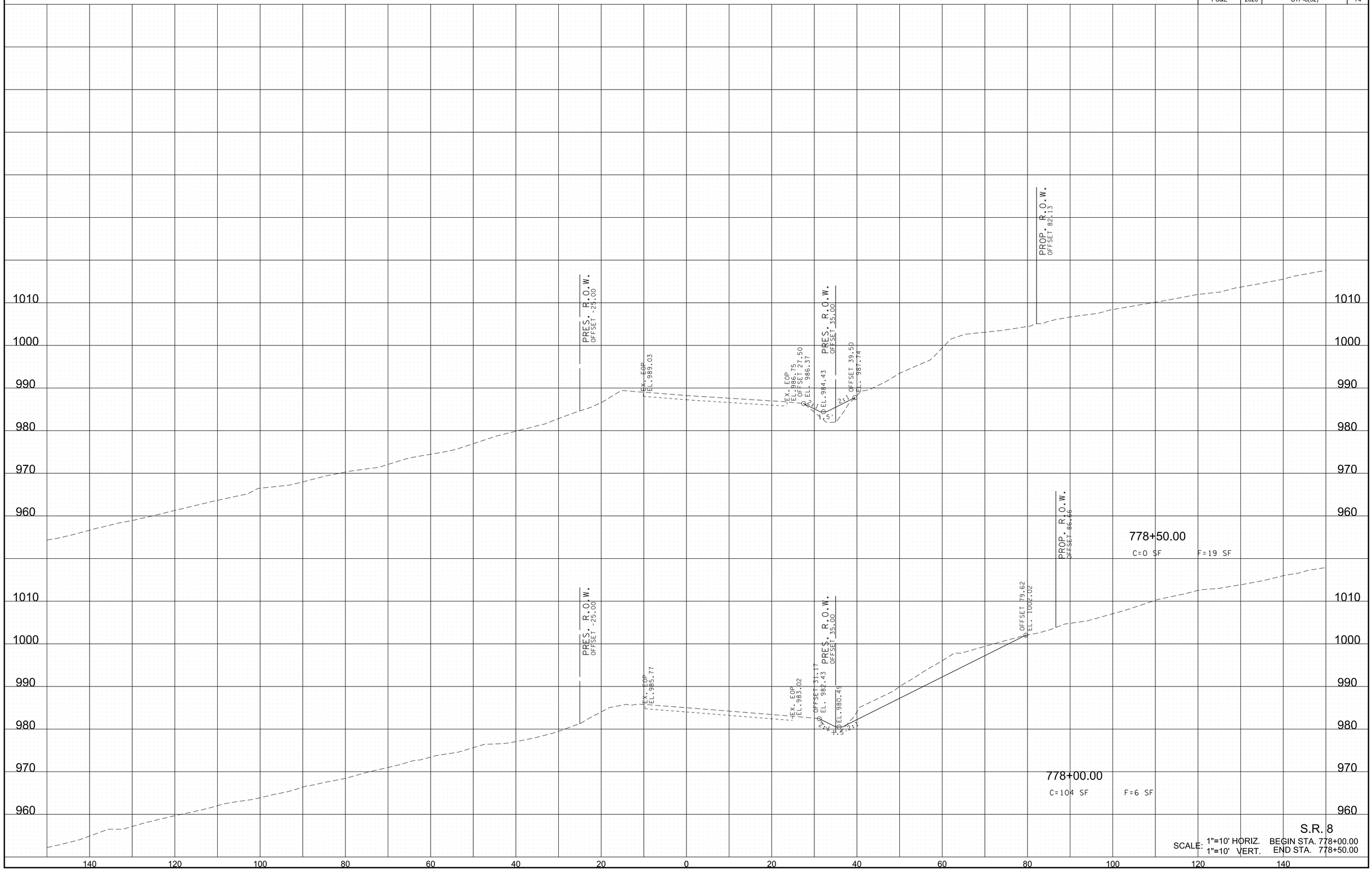


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 777+00.00
1"=10' VERT. END STA. 777+50.00

6/29/2026 8:18:26 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	73
PS&E	2026	STP-8(52)	74



6/29/2026 8:18:28 PM
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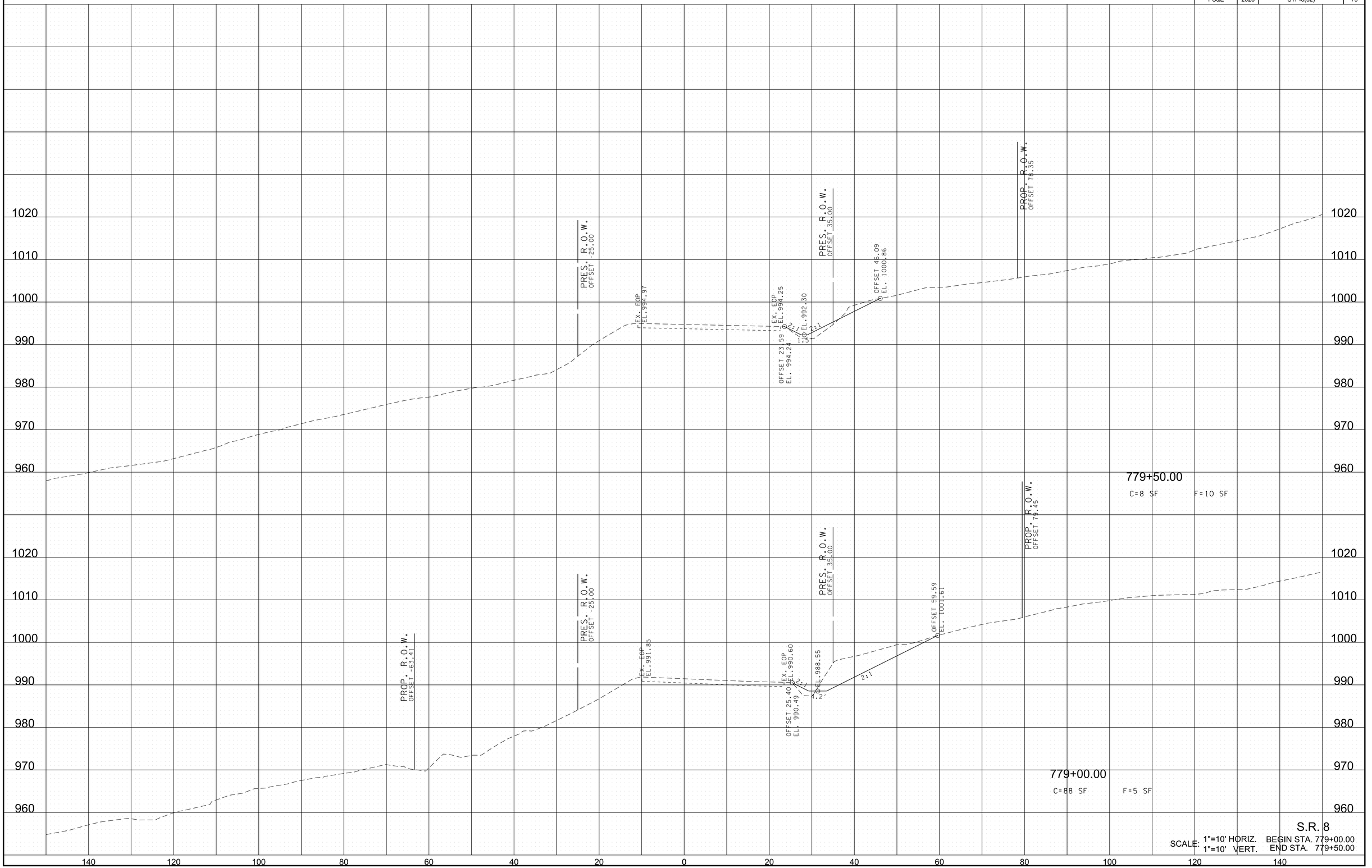
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	74
PS&E	2026	STP-8(52)	75

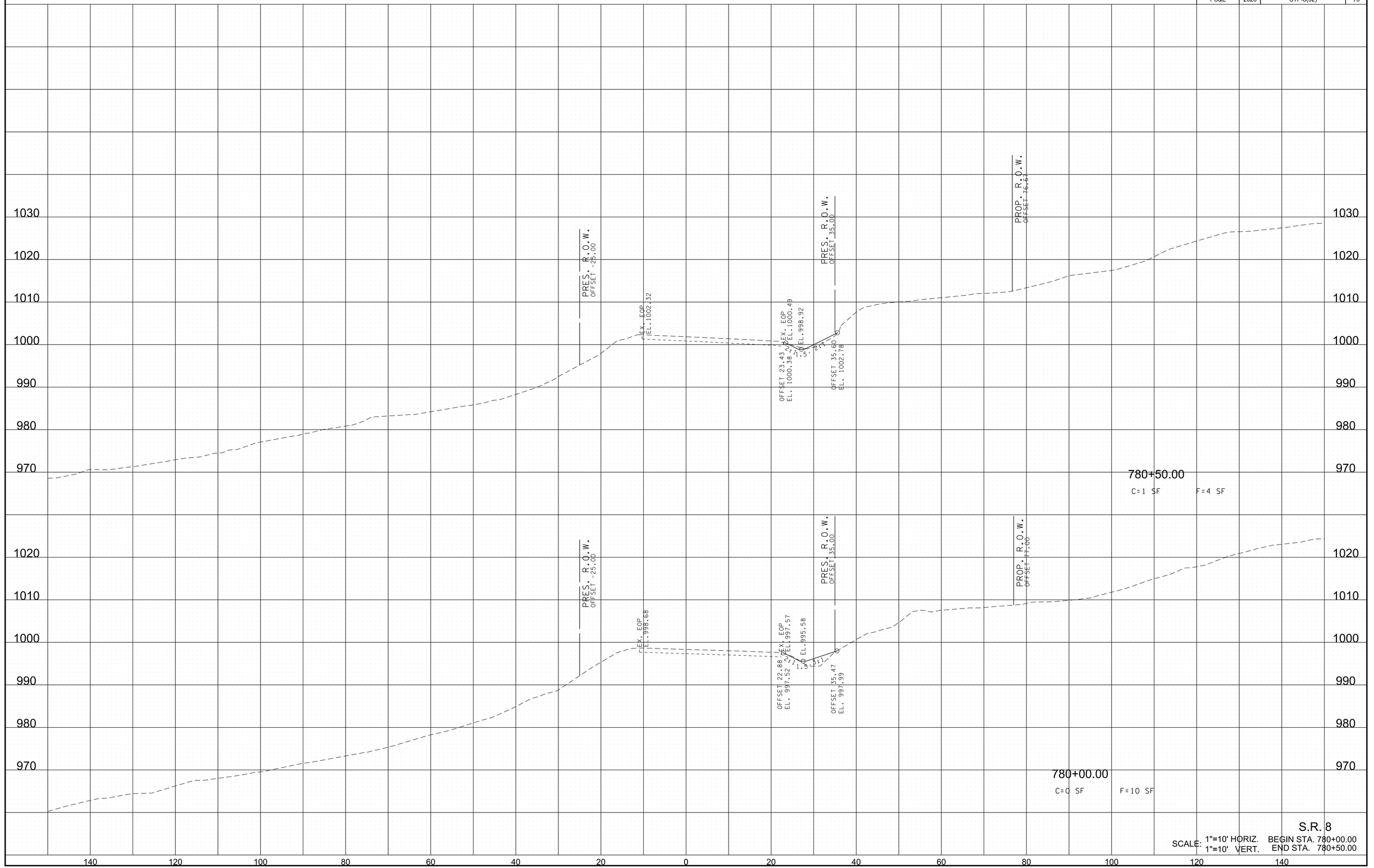


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 779+00.00
1"=10' VERT. END STA. 779+50.00

6/29/2026 8:18:31 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	75
PS&E	2026	STP-8(52)	76



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 780+00.00
1"=10' VERT. END STA. 780+50.00

6/29/2026 8:18:33 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	76
PS&E	2026	STP-8(52)	77

PRES. R.O.W.
OFFSET -25.00

EX. EOP
EL. 1009.11

PRES. R.O.W.
OFFSET 35.00

EX. EOP
EL. 1008.02

EL. 1006.04

OFFSET 42.80
EL. 1013.83

PROP. R.O.W.
OFFSET 72.55

EL. 1007.98
OFFSET 21.85

781+50.00
C=35 SF F=0 SF

PROP. R.O.W.
OFFSET 75.43

PRES. R.O.W.
OFFSET -25.00

EX. EOP
EL. 1005.60

PRES. R.O.W.
OFFSET 35.00

EX. EOP
EL. 1004.34

EL. 1002.30

OFFSET 41.72
EL. 1009.15

OFFSET 22.64
EL. 1004.24

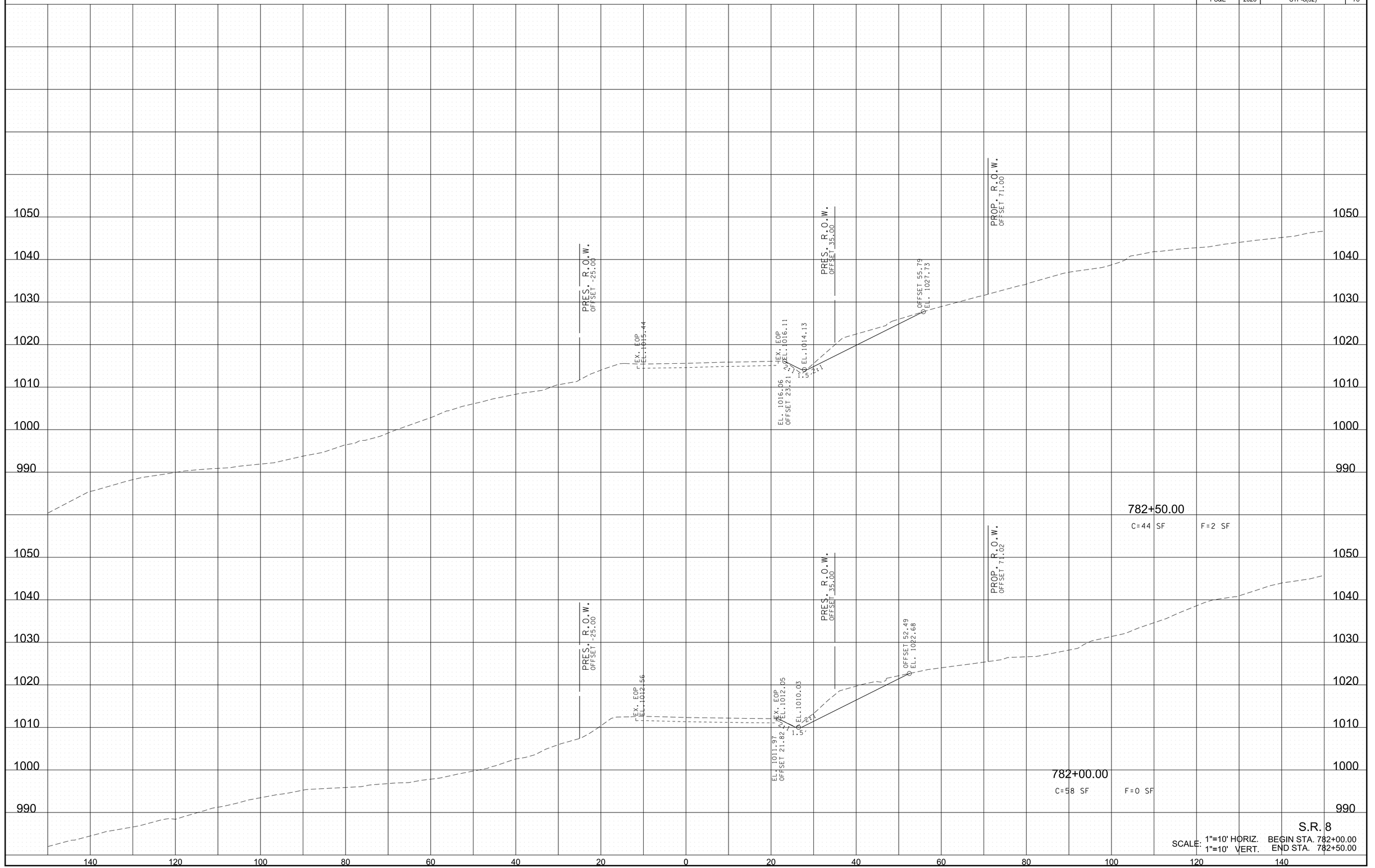
781+00.00
C=8 SF F=2 SF

S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT.
BEGIN STA. 781+00.00
END STA. 781+50.00

6/29/2026 8:18:36 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	77
PS&E	2026	STP-8(52)	78

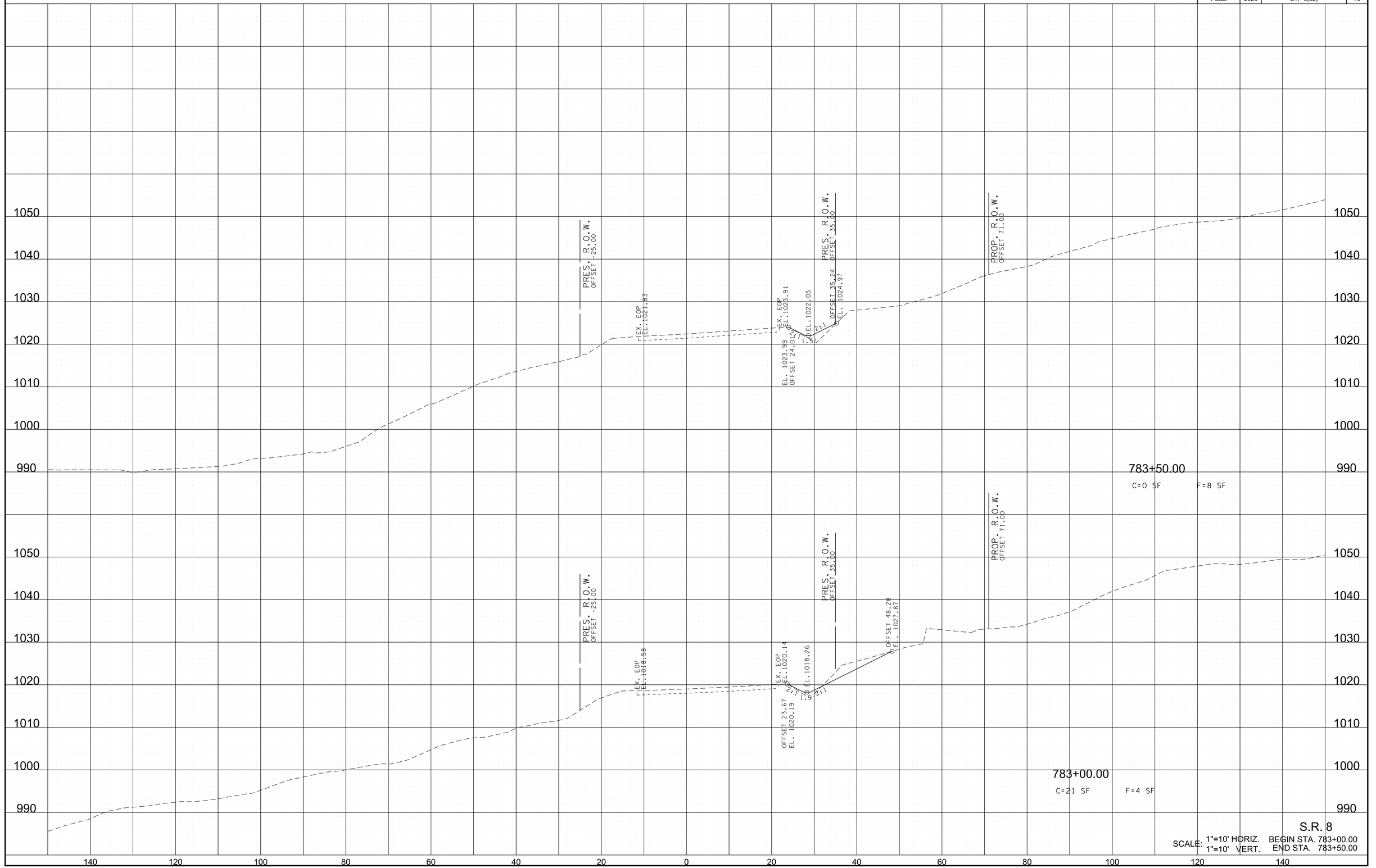


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 782+00.00
1"=10' VERT. END STA. 782+50.00

6/29/2026 8:18:38 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	78
PS&E	2026	STP-8(52)	79

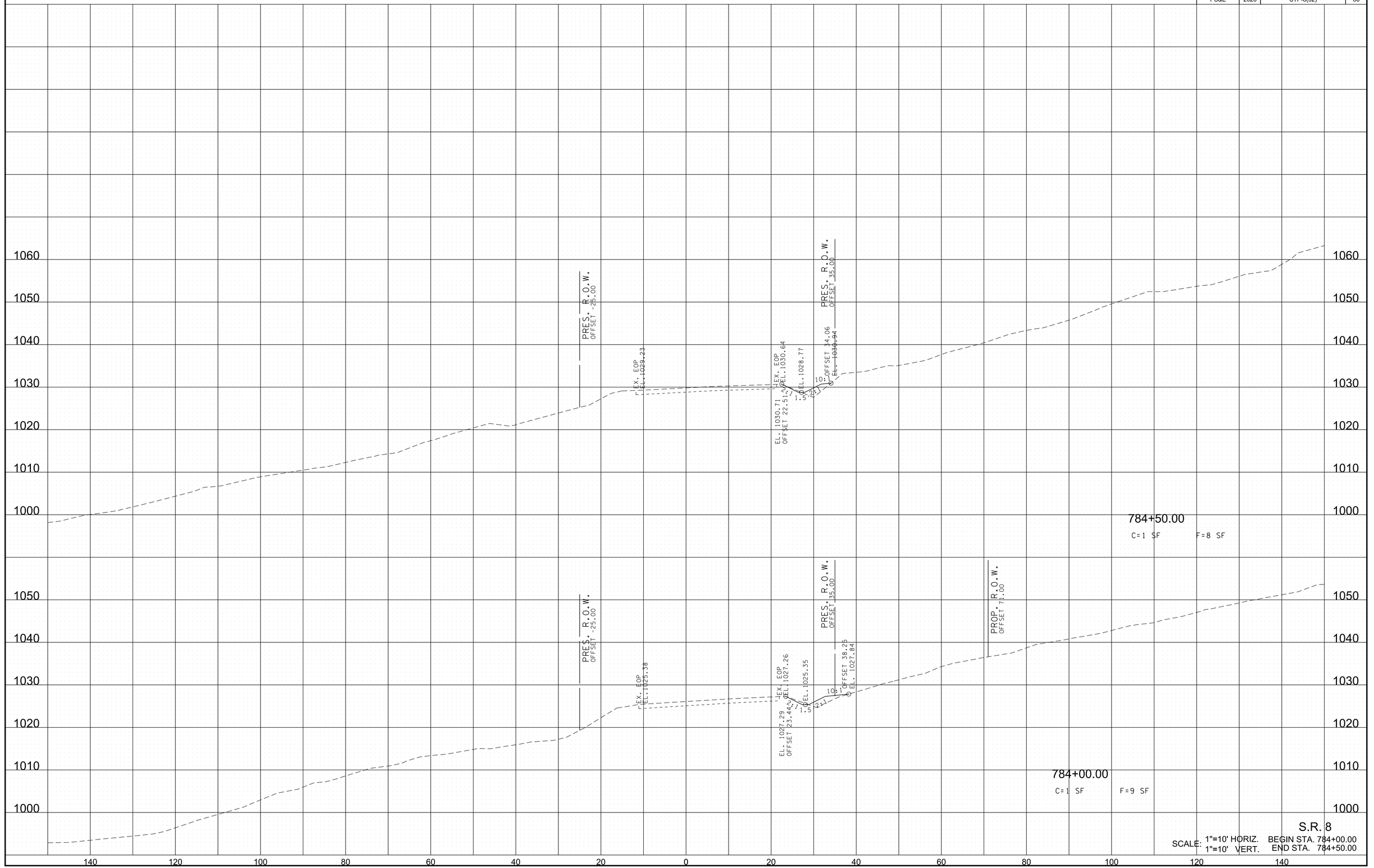


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 783+00.00
1"=10' VERT. END STA. 783+50.00

6/29/2026 8:18:41 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	79
PS&E	2026	STP-8(52)	80

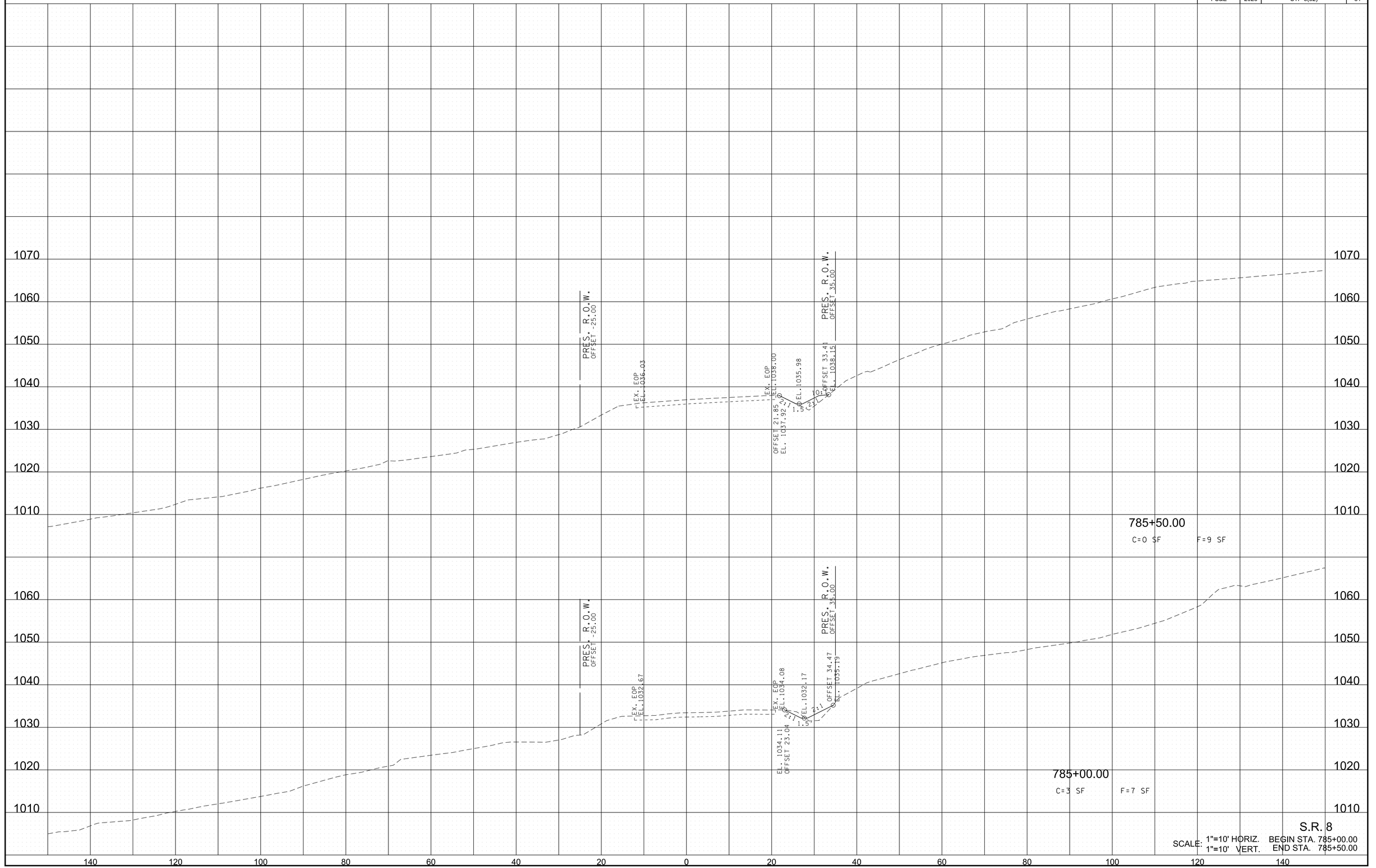


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 784+00.00
1"=10' VERT. END STA. 784+50.00

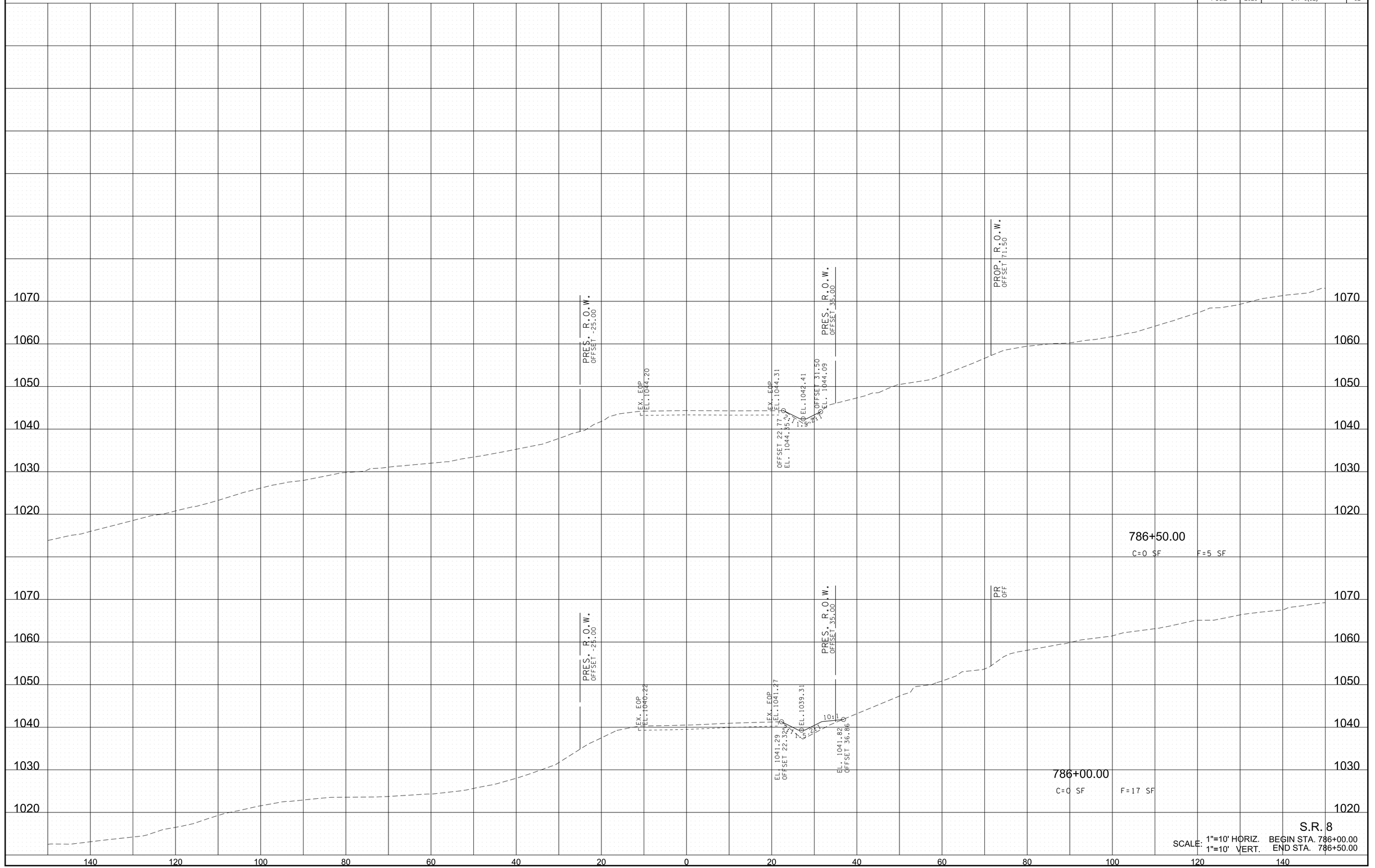
6/29/2026 8:18:43 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	80
PS&E	2026	STP-8(52)	81



6/29/2026 8:18:46 PM
c:\pw_work\arcadispw01\tritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	81
PS&E	2026	STP-8(52)	82

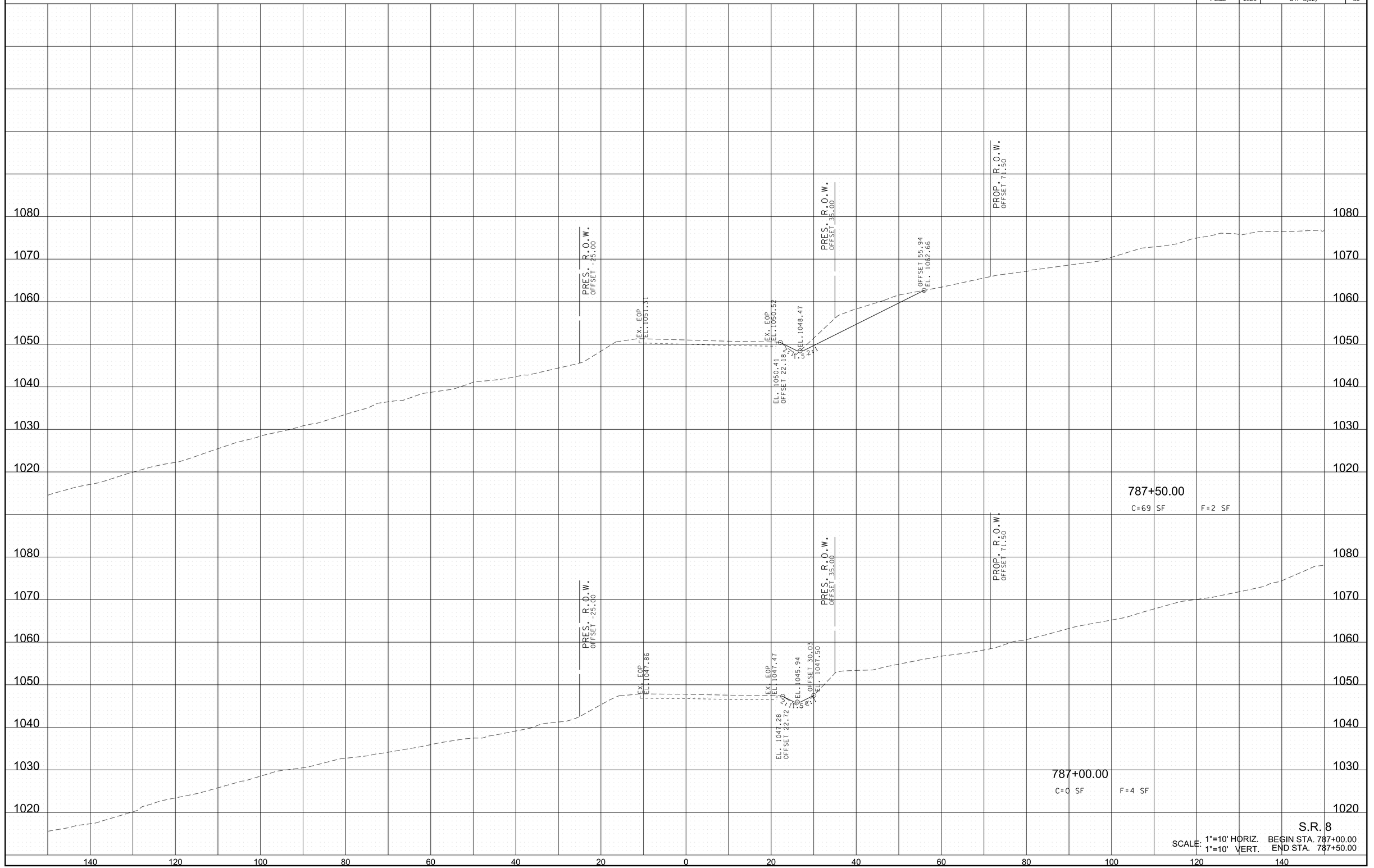


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 786+00.00
1"=10' VERT. END STA. 786+50.00

6/29/2026 8:18:48 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	82
PS&E	2026	STP-8(52)	83



S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT. BEGIN STA. 787+00.00 END STA. 787+50.00

6/29/2026 8:18:51 PM
c:\pw_workiarcadlspw011fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	83
PS&E	2026	STP-8(52)	84

788+00.00
C=99 SF F=1 SF

788+50.00
C=27 SF F=1 SF

PRES. R.O.W.
OFFSET -25.00

EX. EOP
EL. 1056.74

EX. EOP
EL. 1055.73

EL. 1055.66
OFFSET 22.66

EL. 1053.72
OFFSET 22.31

PRES. R.O.W.
OFFSET 35.00

OFFSET 48.15
EL. 1063.78

PROP. R.O.W.
OFFSET 71.50

EX. EOP
EL. 1054.29

EX. EOP
EL. 1053.30

EL. 1053.26
OFFSET 22.31

EL. 1051.32
OFFSET 22.31

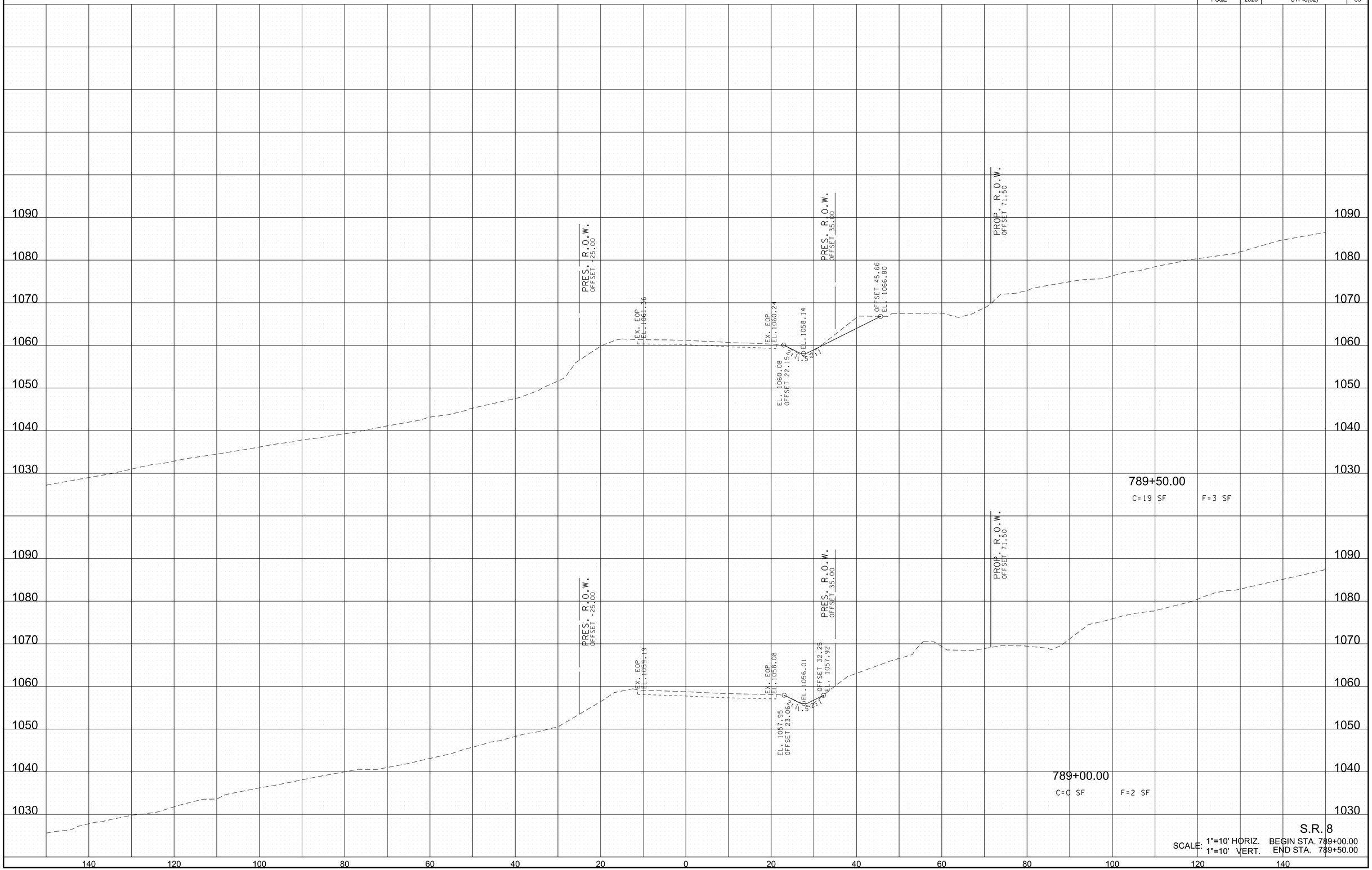
OFFSET 60.03
EL. 1067.46

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 788+00.00
1"=10' VERT. END STA. 788+50.00

6/29/2026 8:18:53 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	84
PS&E	2026	STP-8(52)	85



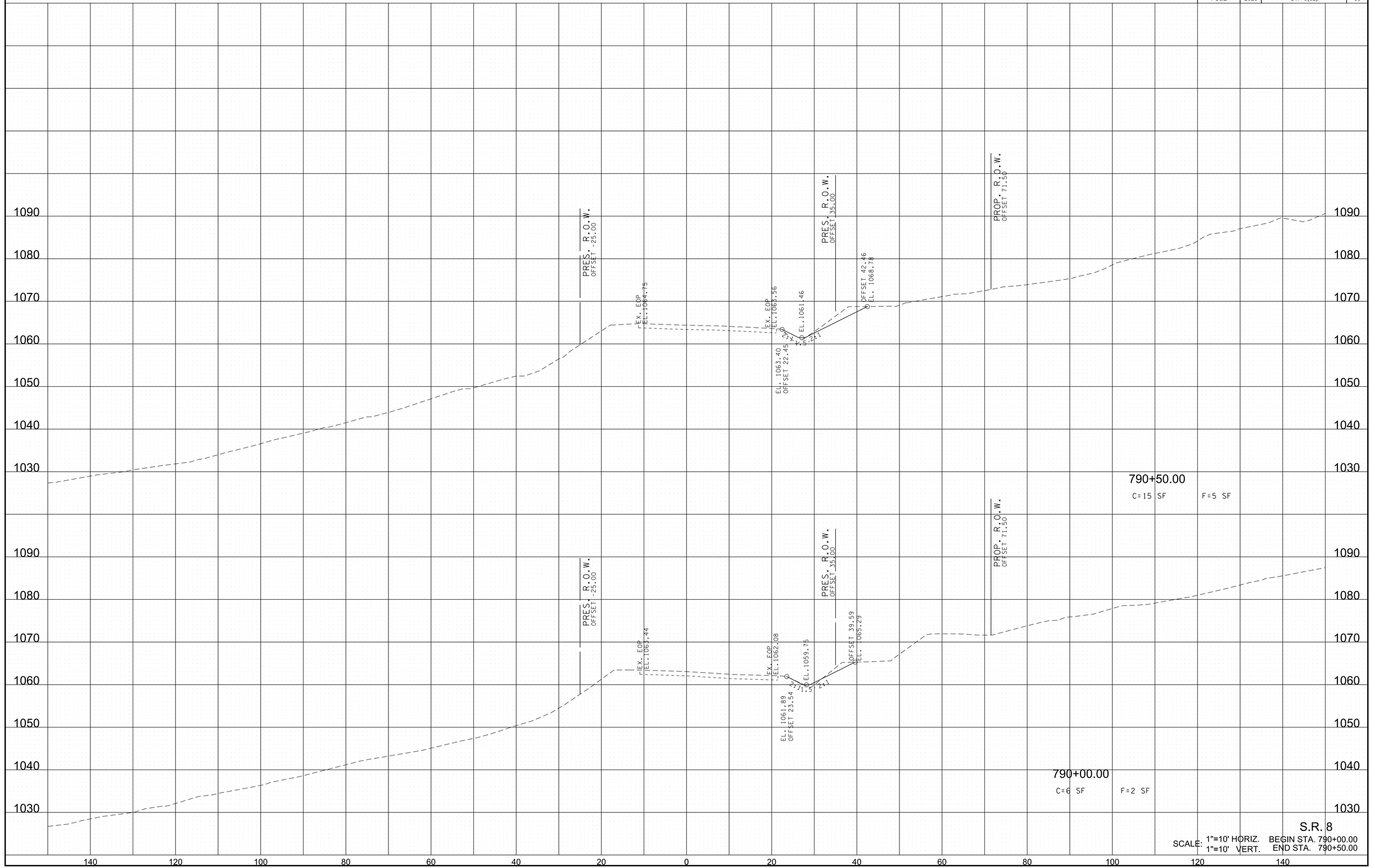
S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT.

BEGIN STA. 789+00.00
END STA. 789+50.00

6/29/2026 8:18:56 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	85
PS&E	2026	STP-8(52)	86

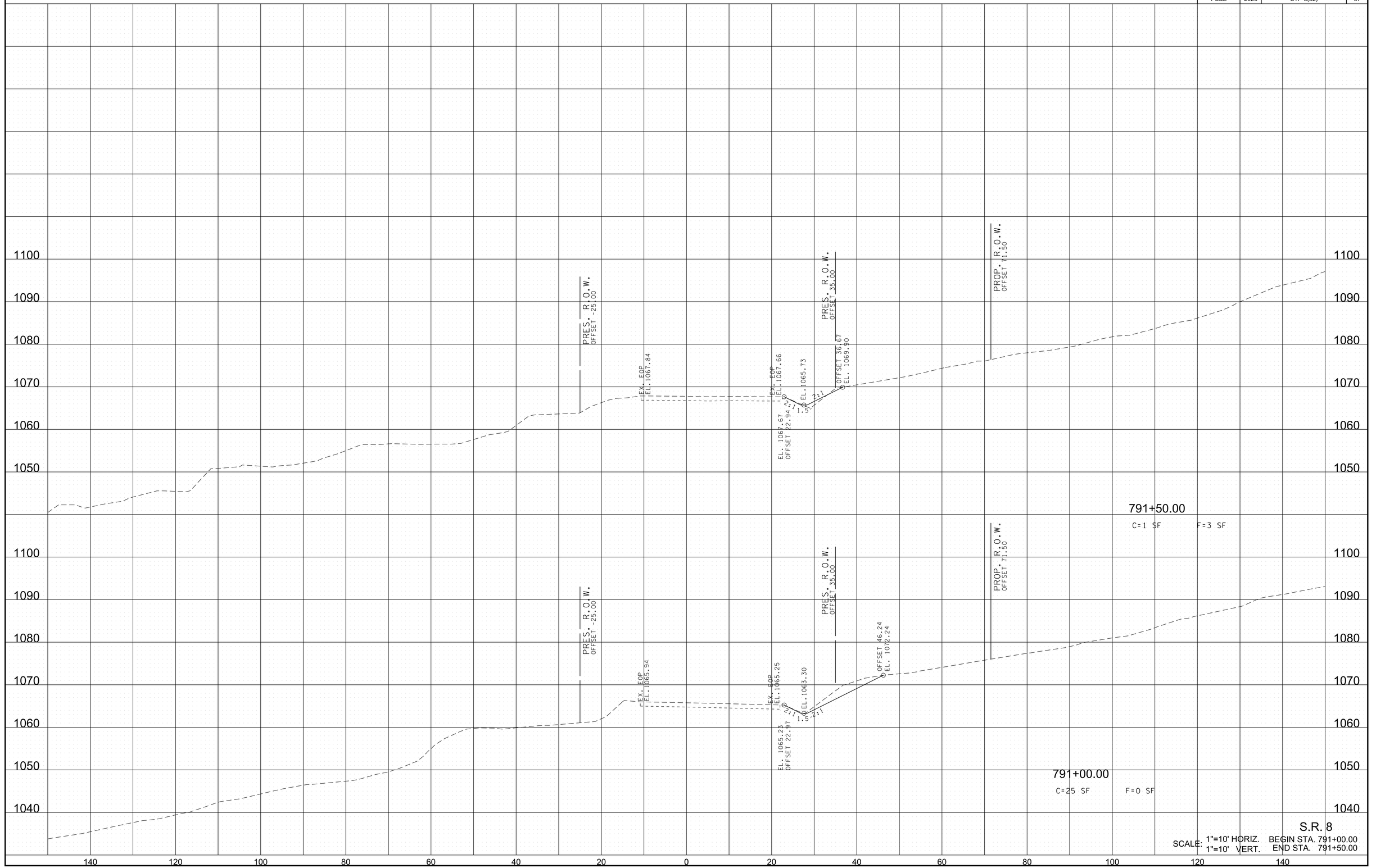


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 790+00.00
1"=10' VERT. END STA. 790+50.00

6/29/2026 8:18:58 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	86
PS&E	2026	STP-8(52)	87

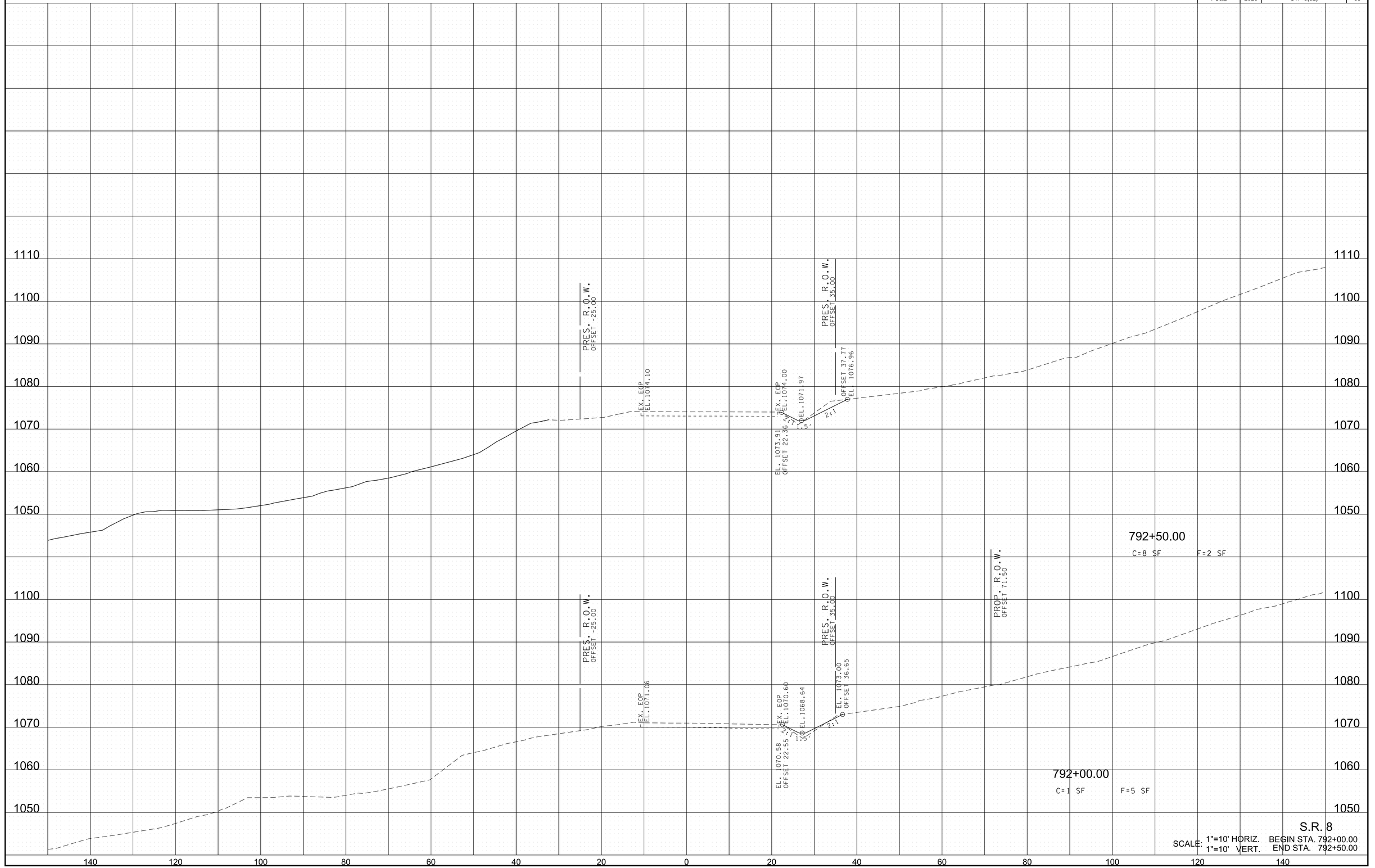


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 791+00.00
1"=10' VERT. END STA. 791+50.00

6/29/2026 8:19:01 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	87
PS&E	2026	STP-8(52)	88

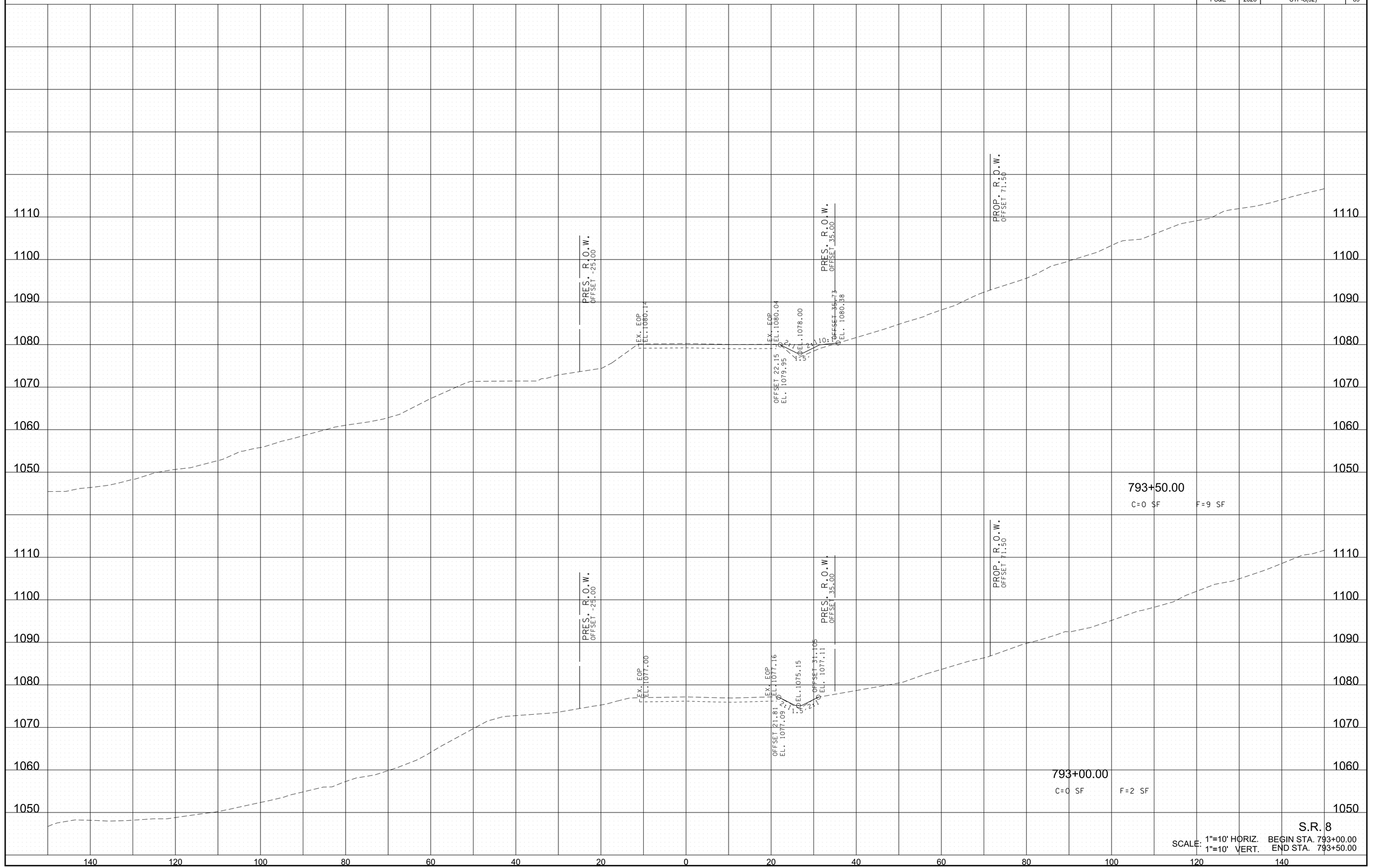


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 792+00.00
1"=10' VERT. END STA. 792+50.00

6/29/2026 8:19:03 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	88
PS&E	2026	STP-8(52)	89



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 793+00.00
1"=10' VERT. END STA. 793+50.00

6/29/2026 8:19:06 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	89
PS&E	2026	STP-8(52)	90

PRES. R.O.W.
OFFSET -25.00

EX. EOP
EL. 1086.88

PRES. R.O.W.
OFFSET 35.00

PROP. R.O.W.
OFFSET 71.50

OFFSET 54.79
EL. 1095.79

OFFSET 25.57
EL. 1085.81

EX. EOP
EL. 1085.98

EL. 1083.88

5.2:1

794+50.00
C=46 SF F=2 SF

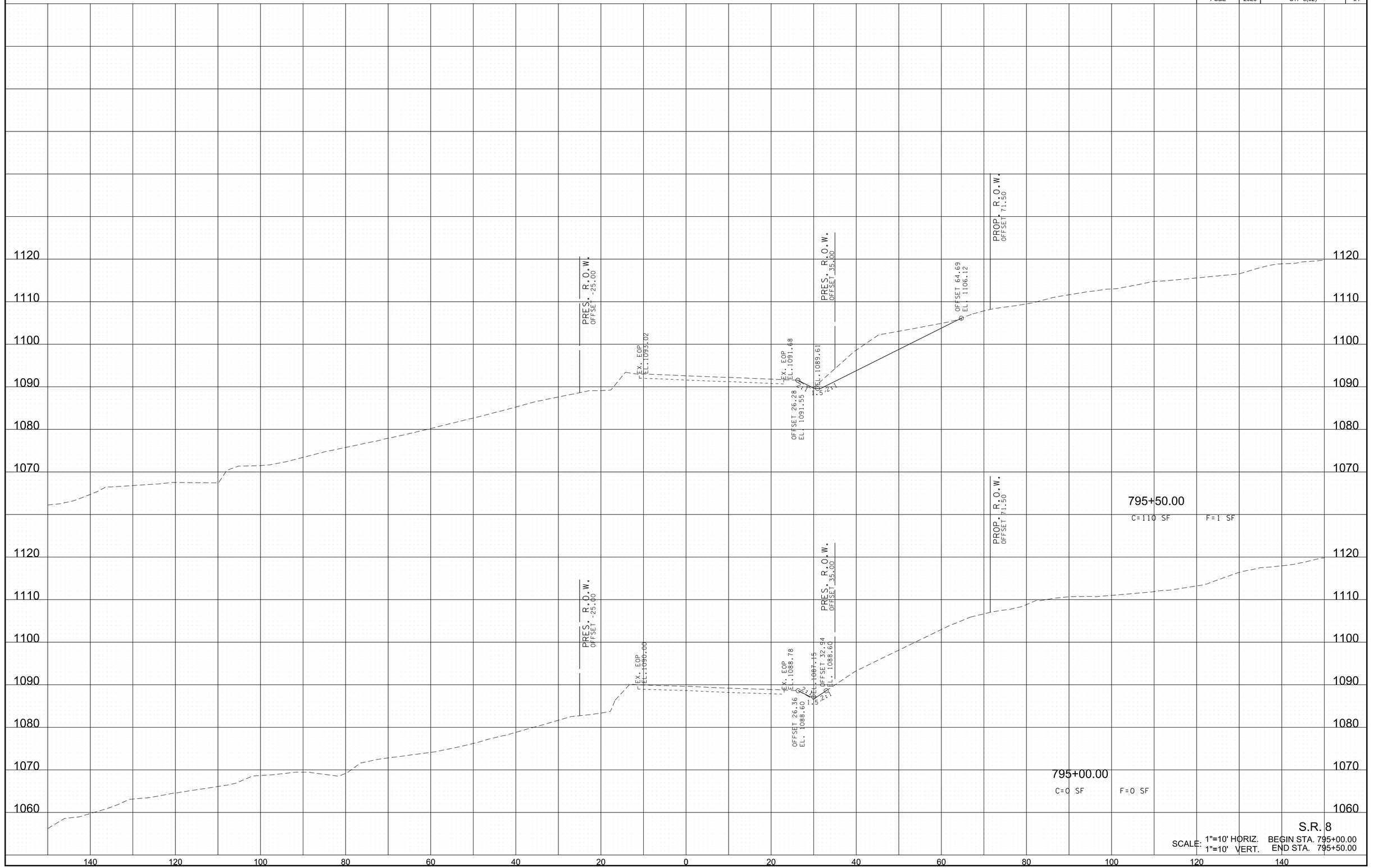
794+00.00
C=5 SF F=5 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 794+00.00
1"=10' VERT. END STA. 794+50.00

6/29/2026 8:19:08 PM
c:\pw_work\arcadlspw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	90
PS&E	2026	STP-8(52)	91

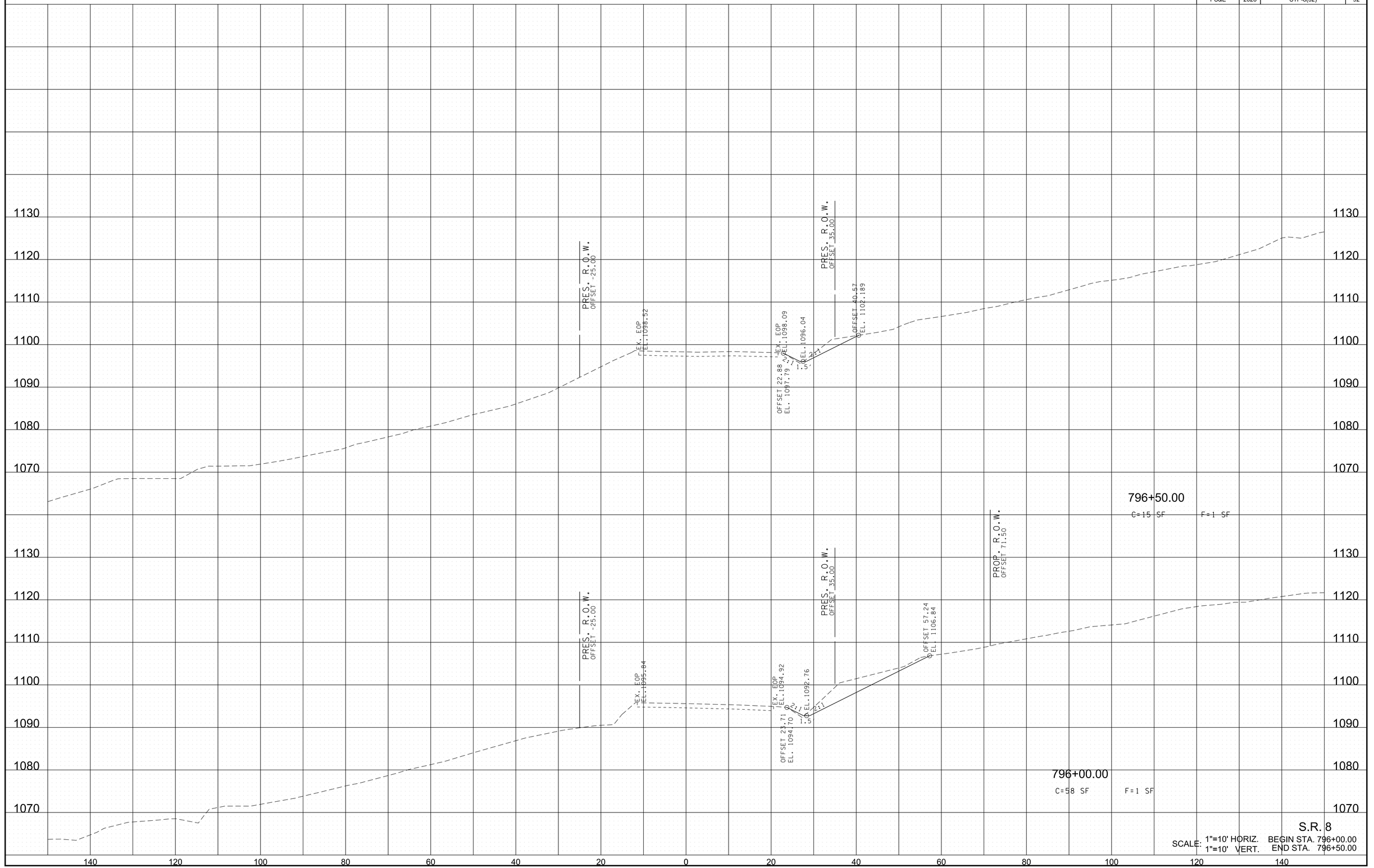


S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT. BEGIN STA. 795+00.00 END STA. 795+50.00

6/29/2026 8:19:11 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	91
PS&E	2026	STP-8(52)	92

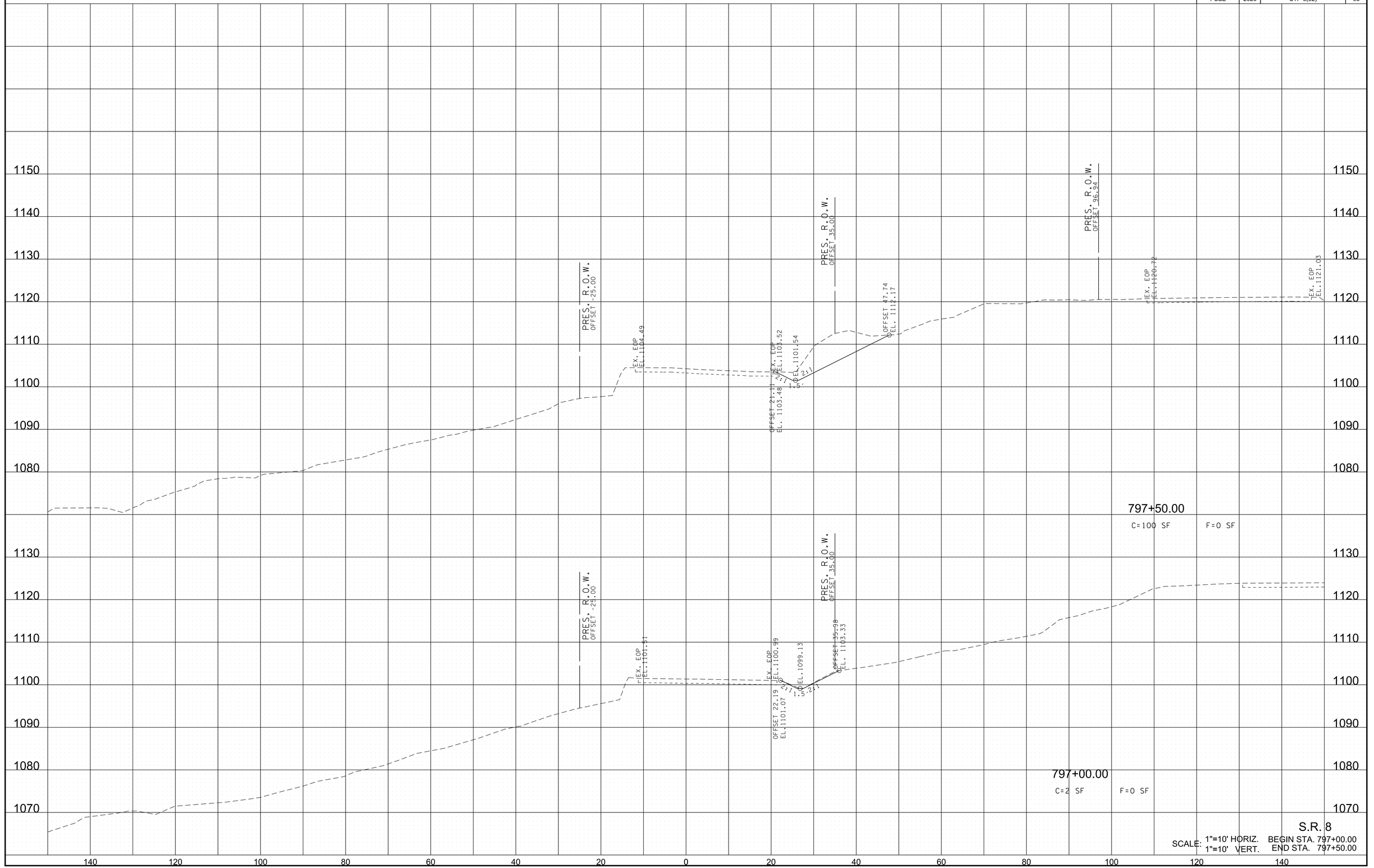


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 796+00.00
1"=10' VERT. END STA. 796+50.00

6/29/2026 8:19:13 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	92
PS&E	2026	STP-8(52)	93

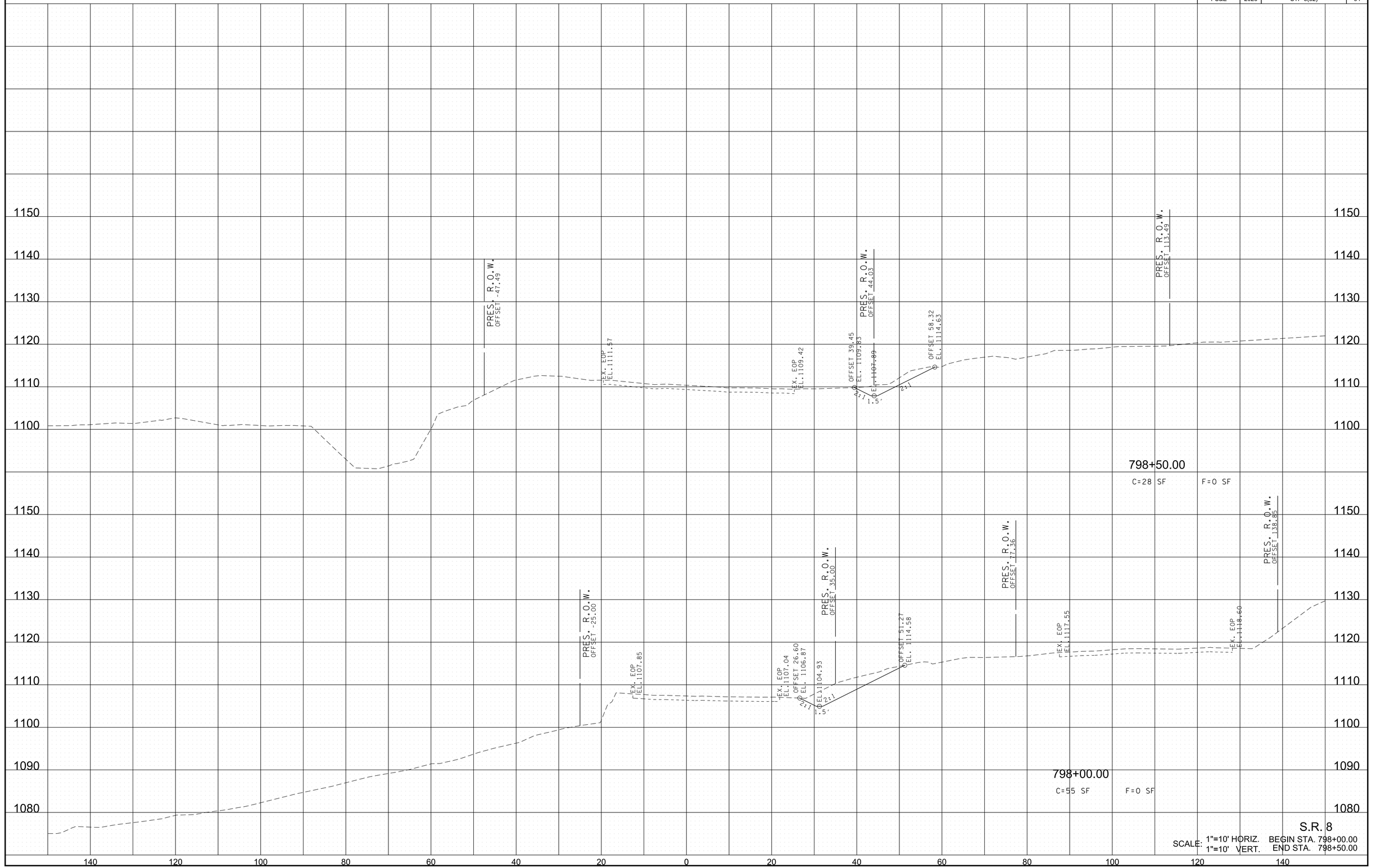


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 797+00.00
1"=10' VERT. END STA. 797+50.00

6/29/2026 8:19:16 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	93
PS&E	2026	STP-8(52)	94



6/29/2026 8:19:18 PM
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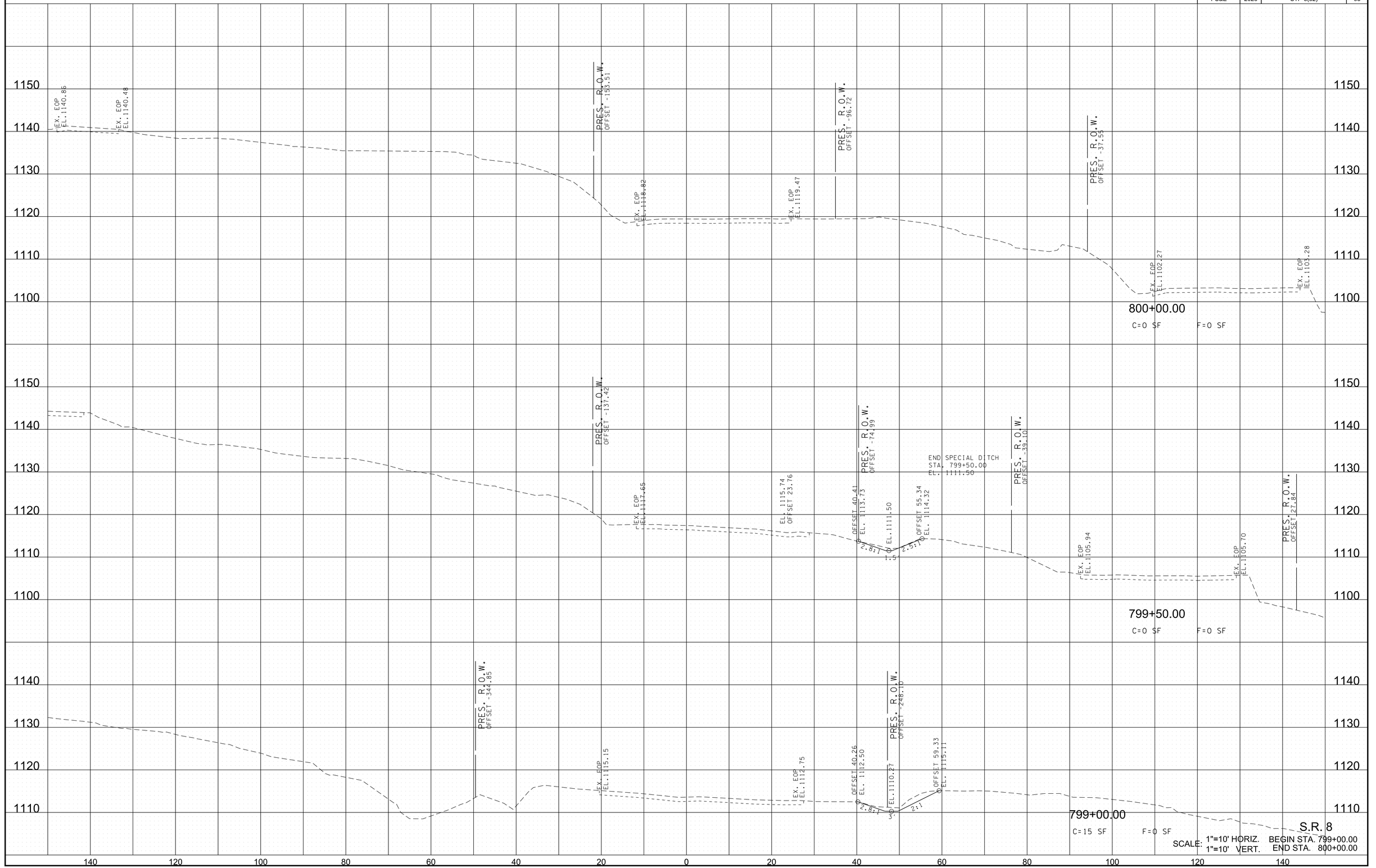
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	94
PS&E	2026	STP-8(52)	95



6/29/2026 8:19:21 PM
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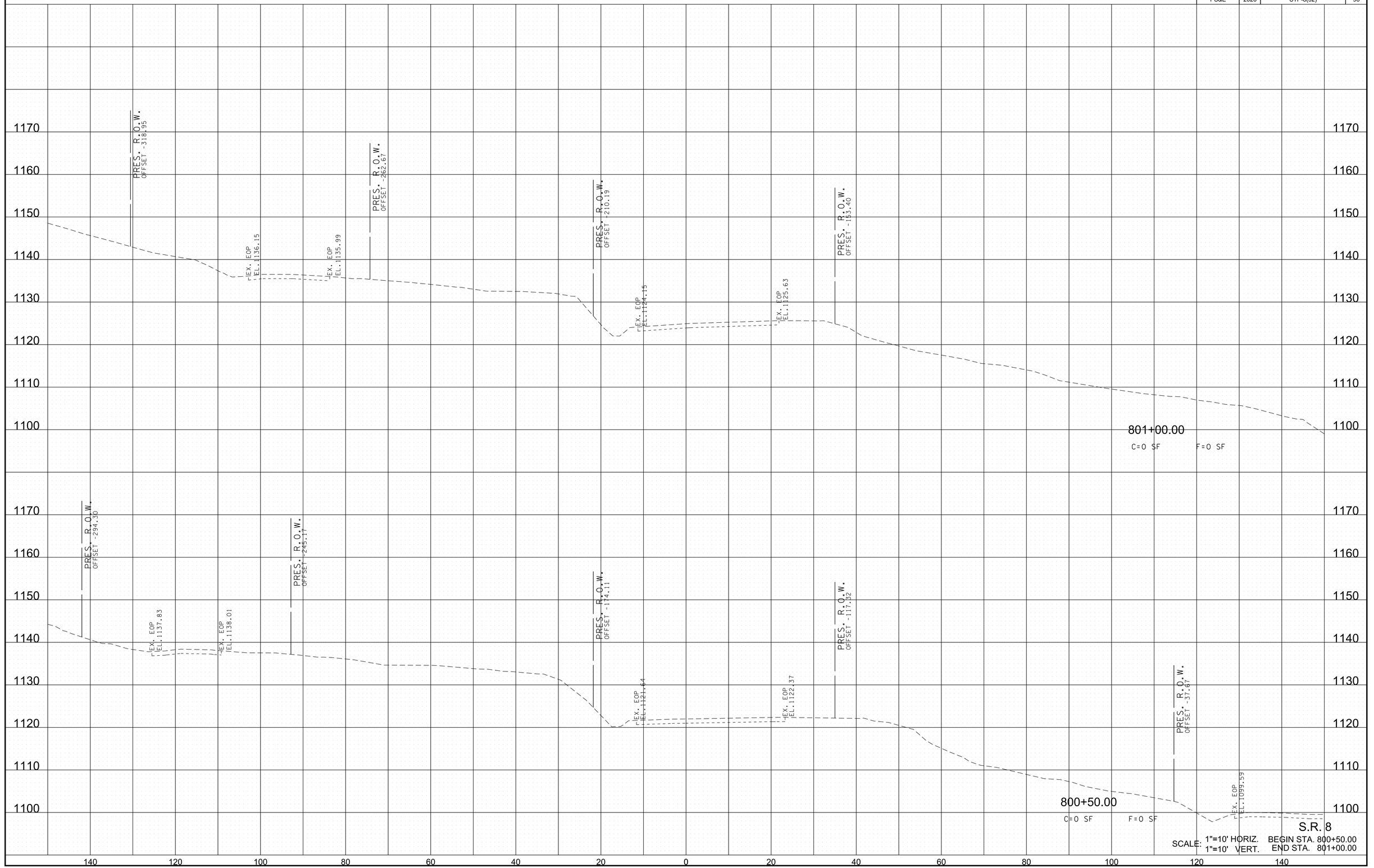
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	95
PS&E	2026	STP-8(52)	96



6/29/2026 8:19:23 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	96
PS&E	2026	STP-8(52)	97

PRES. R.O.W.
OFFSET -334.28

PRES. R.O.W.
OFFSET -282.17

PRES. R.O.W.
OFFSET 225.98

EX. EOP
EL.1133.92

EX. EOP
EL.1132.50

EX. EOP
EL.1130.36

EX. EOP
EL.1131.54

802+00.00
C=0 SF F=0 SF

PRES. R.O.W.
OFFSET -336.60

PRES. R.O.W.
OFFSET -280.05

PRES. R.O.W.
OFFSET -252.85

PRES. R.O.W.
OFFSET -196.06

EX. EOP
EL.1134.48

EX. EOP
EL.1134.54

EX. EOP
EL.1126.87

EX. EOP
EL.1128.95

801+50.00
C=0 SF F=0 SF

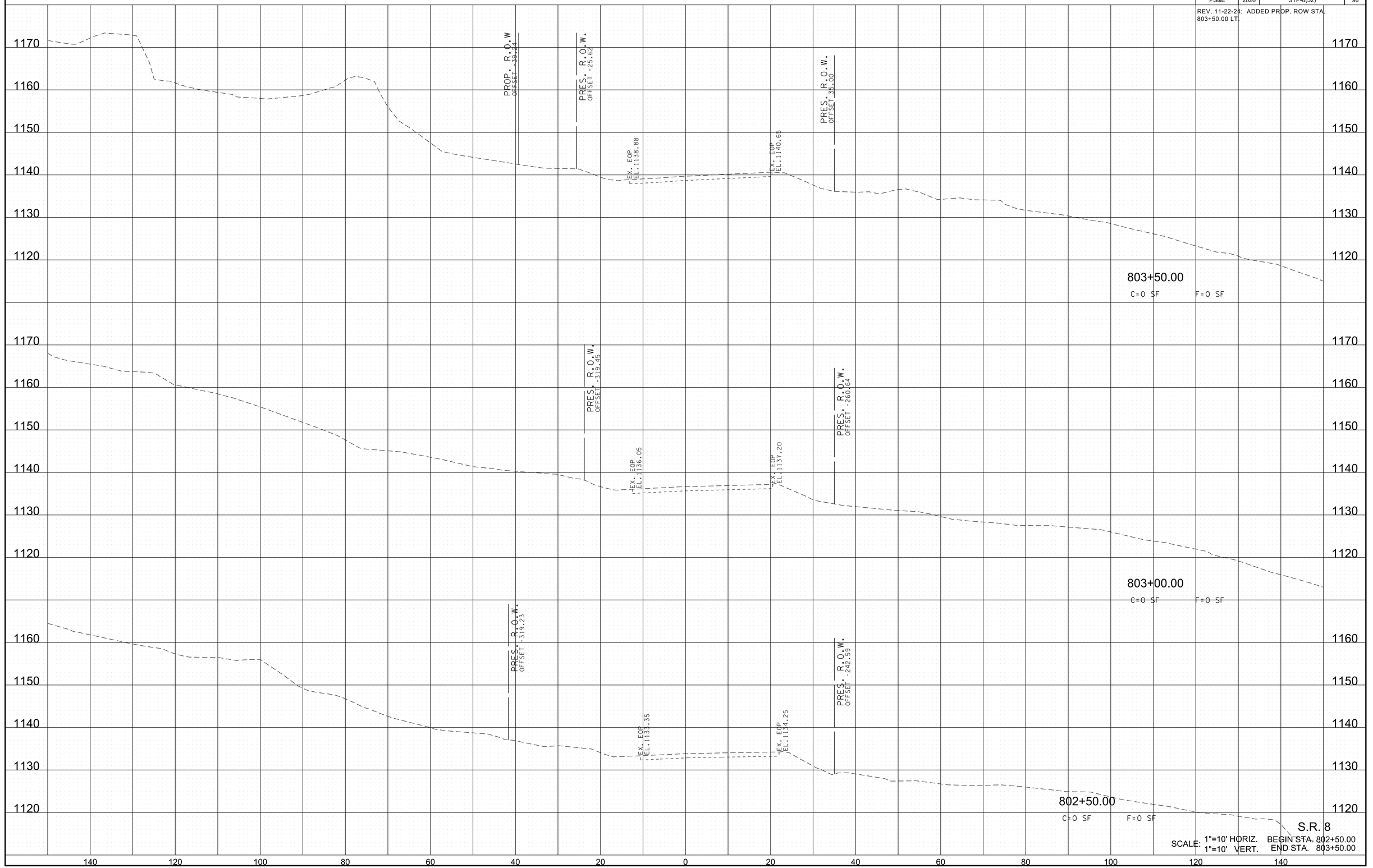
S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 801+50.00
1"=10' VERT. END STA. 802+00.00

6/29/2026 8:19:26 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	97
PS&E	2026	STP-8(52)	98

REV. 11-22-24: ADDED PROP. ROW STA. 803+50.00 LT.



6/29/2026 8:19:28 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	98
PS&E	2026	STP-8(52)	99

REV. 11-22-24: ADDED PROP. ROW STA. 804+00.00 LT.

PRES. R.O.W. OFFSET -18.78

EX. EOP EL. 1146.50

EX. EOP EL. 1148.34

OFFSET 21.10 EL. 1148.34

PRES. R.O.W. OFFSET 35.00

OFFSET 51.74 EL. 1137.04

804+50.00

C=0 SF F=23 SF

PRES. R.O.W. OFFSET -21.80

EX. EOP EL. 1144.47

EX. EOP EL. 1146.53

OFFSET 21.00 EL. 1146.53

PRES. R.O.W. OFFSET 35.00

OFFSET 32.60 EL. 1144.55

804+25.00

C=0 SF F=2 SF

PROP. R.O. OFFSET -35.57

PRES. R.O.W. OFFSET -21.80

EX. EOP EL. 1142.37

EX. EOP EL. 1144.56

PRES. R.O.W. OFFSET 35.00

804+00.00

C=0 SF F=0 SF

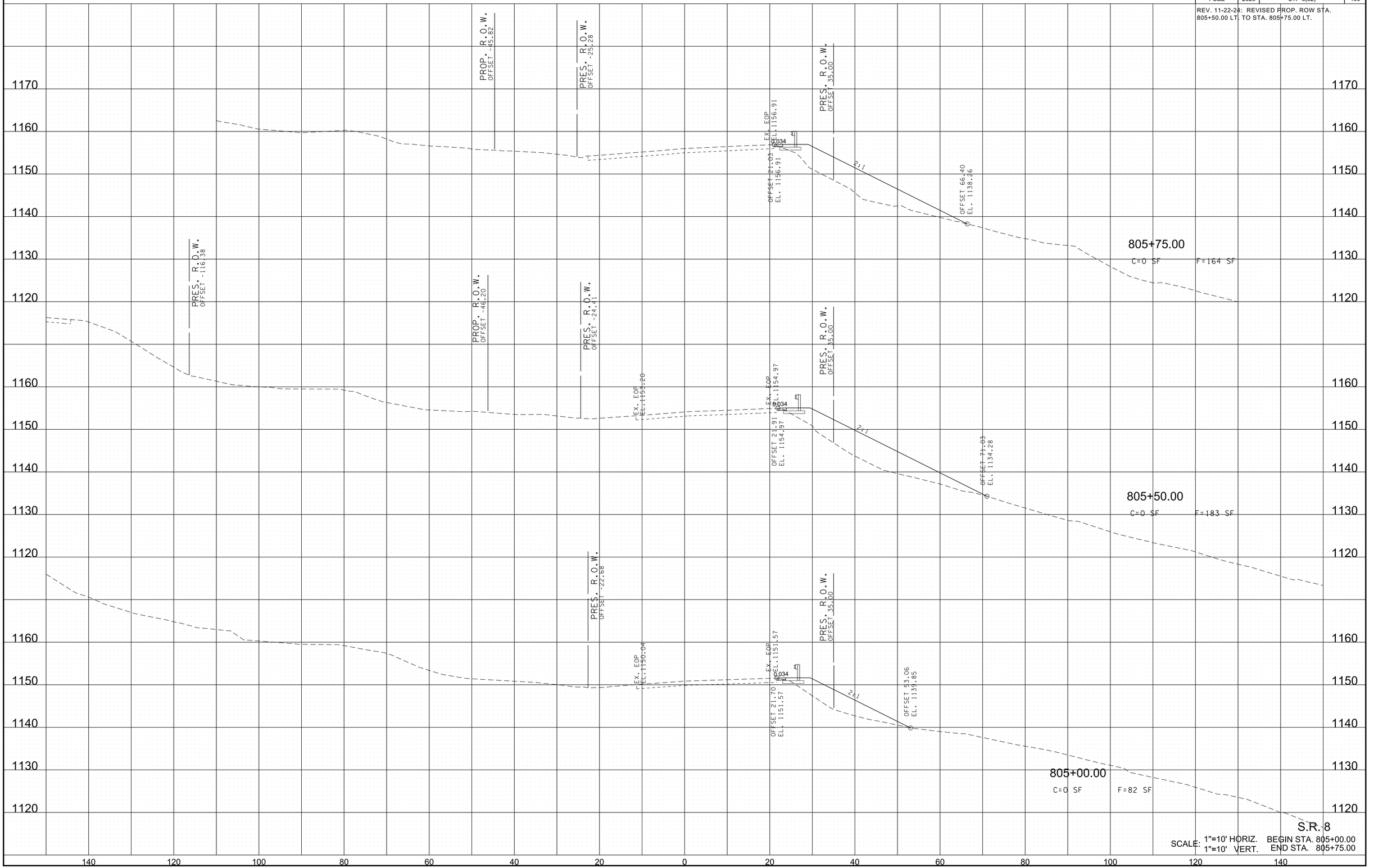
S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 804+00.00
1"=10' VERT. END STA. 804+50.00

6/29/2026 8:19:31 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	99
PS&E	2026	STP-8(52)	100

REV. 11-22-24: REVISED PROP. ROW STA. 805+50.00 LT. TO STA. 805+75.00 LT.



S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT. BEGIN STA. 805+00.00 END STA. 805+75.00

6/29/2026 8:19:33 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	100
PS&E	2026	STP-8(52)	101

REV. 11-22-24: REVISED PROP. ROW STA. 806+00.00 LT. TO STA. 806+75.00 LT.

PROP. R.O.W. OFFSET -44.55
PRES. R.O.W. OFFSET -29.51
EX. EOP EL.1160.89
EX. EOP EL.1164.25
PRES. R.O.W. OFFSET 36.80
OFFSET 23.88 EL. 1164.42
OFFSET 61.69 EL. 1148.48
2:1
806+50.00
C=0 SF F=96 SF

PROP. R.O.W. OFFSET -44.58
PRES. R.O.W. OFFSET -27.98
EX. EOP EL.1162.00
PRES. R.O.W. OFFSET 35.00
OFFSET 21.77 EL. 1162.00
OFFSET 64.87 EL. 1144.35
2:1
806+25.00
C=0 SF F=126 SF

PRES. R.O.W. OFFSET -107.13
PROP. R.O.W. OFFSET -44.62
PRES. R.O.W. OFFSET -26.46
EX. EOP EL.1156.61
EX. EOP EL.1159.66
PRES. R.O.W. OFFSET 35.00
0.034
OFFSET 22.28 EL. 1159.56
OFFSET 64.54 EL. 1141.96
2:1
806+00.00
C=0 SF F=137 SF

S.R. 8
SCALE: 1"=10' HORIZ. BEGIN STA. 806+00.00
1"=10' VERT. END STA. 806+50.00

6/29/2026 8:19:36 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	101
PS&E	2026	STP-8(52)	102

REV. 11-22-24: REVISED PROP. ROW STA. 807+00.00 LT.

PRES. R.O.W. OFFSET 29.33

PRES. R.O.W. OFFSET 111.18

EX. EOP EL. 1171.39

EX. EOP EL. 1175.75

PRES. R.O.W. OFFSET 227.80

808+00.00
C=0 SF F=0 SF

PRES. R.O.W. OFFSET 269.68

PRES. R.O.W. OFFSET 114.43

EX. EOP EL. 1169.43

EX. EOP

807+50.00
C=0 SF F=0 SF

PROP. R.O.W. OFFSET -44.40

PRES. R.O.W. OFFSET -43.62

EX. EOP EL. 1165.26

EX. EOP EL. 1168.10

807+00.00
C=0 SF F=0 SF

1210 1200 1190 1180 1170 1160

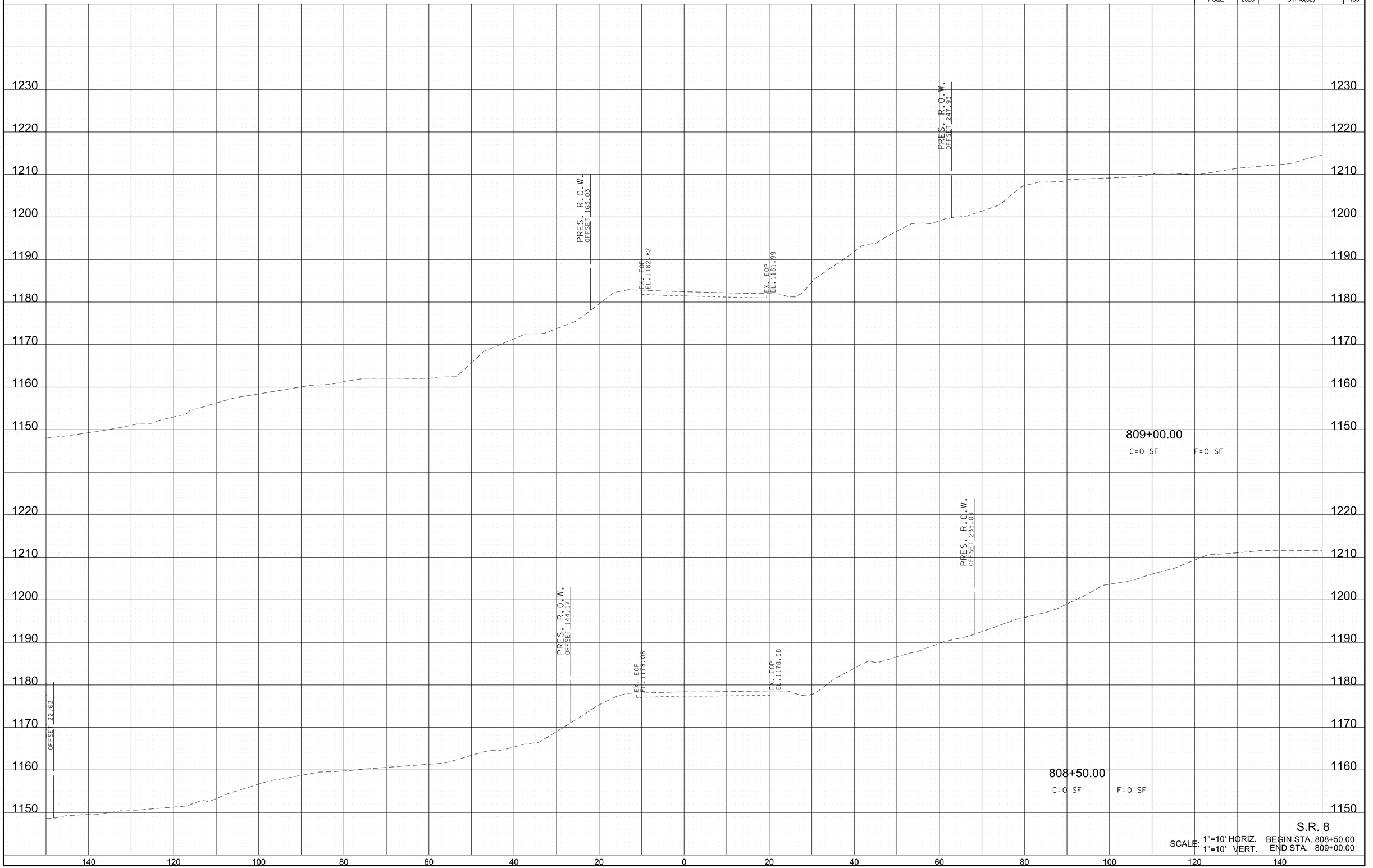
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 807+00.00
1"=10' VERT. END STA. 808+00.00

6/29/2026 8:19:38 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	102
PS&E	2026	STP-8(52)	103



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 808+50.00
1"=10' VERT. END STA. 809+00.00

6/29/2026 8:19:41 PM
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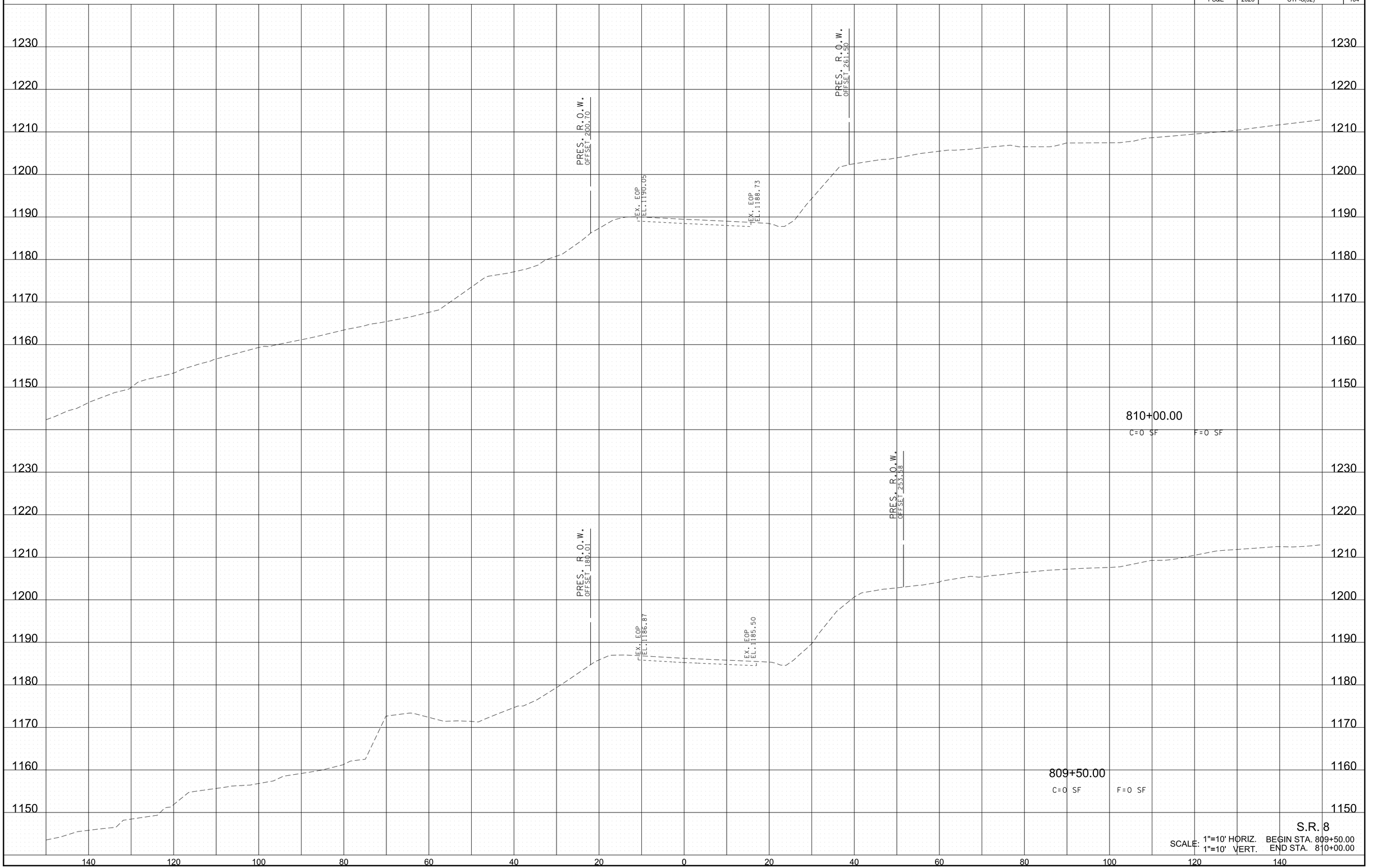
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	103
PS&E	2026	STP-8(52)	104

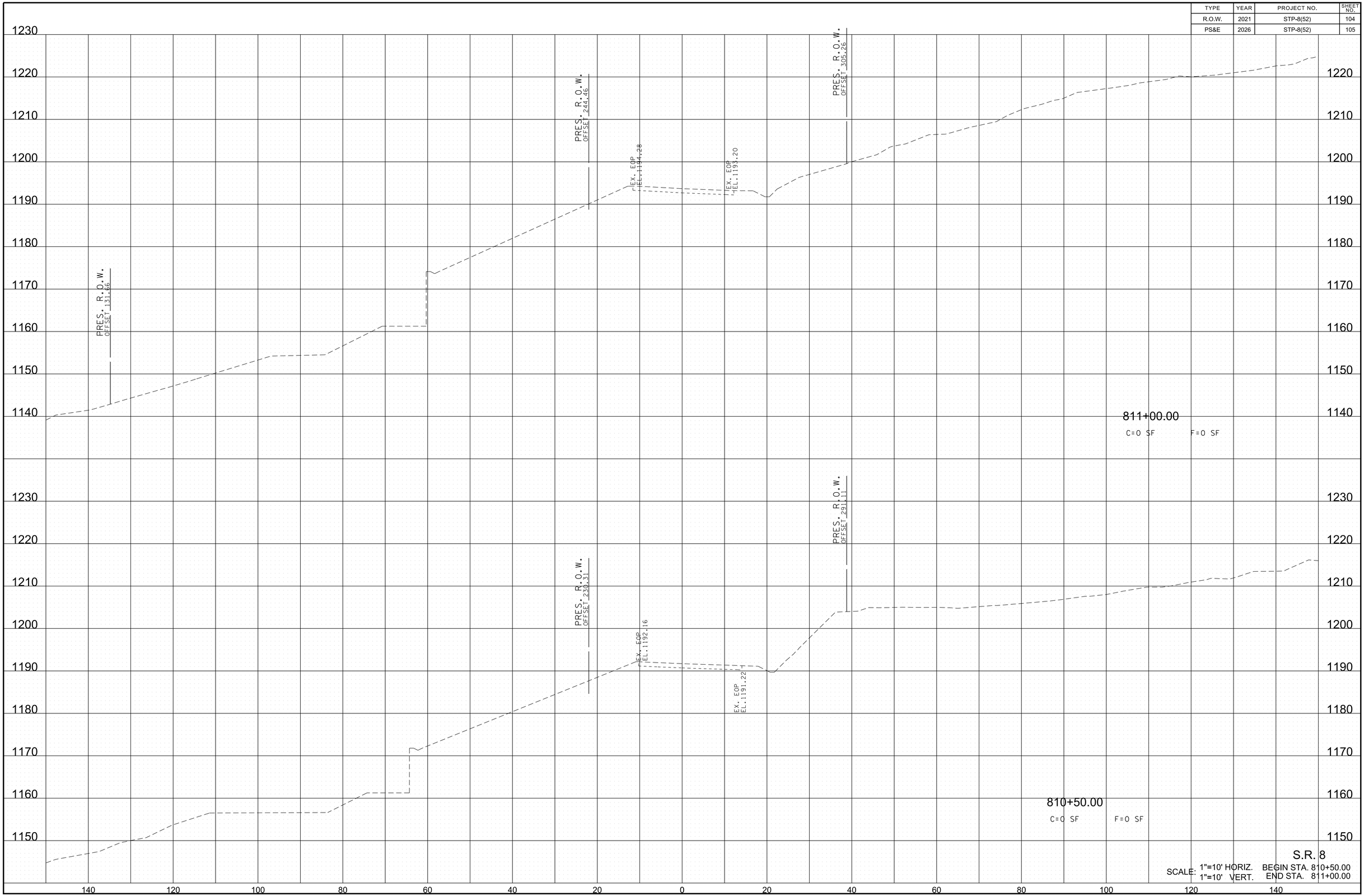


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 809+50.00
1"=10' VERT. END STA. 810+00.00

6/29/2026 8:19:43 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	104
PS&E	2026	STP-8(52)	105



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 810+50.00
1"=10' VERT. END STA. 811+00.00

6/29/2026 8:19:46 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	105
PS&E	2026	STP-8(52)	106

PRES. R.O.W.
OFFSET 247.92

EX. EOP
EL. 1196.86

EX. EOP
EL. 1195.82

PRES. R.O.W.
OFFSET 308.72

PRES. R.O.W.
OFFSET 146.77

811+50.00

C=0 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT.

BEGIN STA. 811+50.00
END STA. 811+50.00

1240
1230
1220
1210
1200
1190
1180
1170
1160
1150
1140

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

6/29/2026 8:19:48 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	106
PS&E	2026	STP-8(52)	107

PRES. R.O.W.
OFFSET 249.74

EX. EOP
EL. 1199.64

EX. EOP
EL. 1198.81

PRES. R.O.W.
OFFSET 310.54

PRES. R.O.W.
OFFSET 126.12

OFFSET 159.53
PRES. R.O.W.

812+00.00

C=0 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 812+00.00
1"=10' VERT. END STA. 812+00.00

6/29/2026 8:19:51 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	107
PS&E	2026	STP-8(52)	108

PRES. R.O.W.
OFFSET -146.52

PRES. R.O.W.
OFFSET -113.06

PRES. R.O.W.
OFFSET -22.00

EX. EOP
EL. 1202.82

EX. EOP
EL. 1201.82

PRES. R.O.W.
OFFSET 38.80

812+50.00

C=0 SF F=0 SF

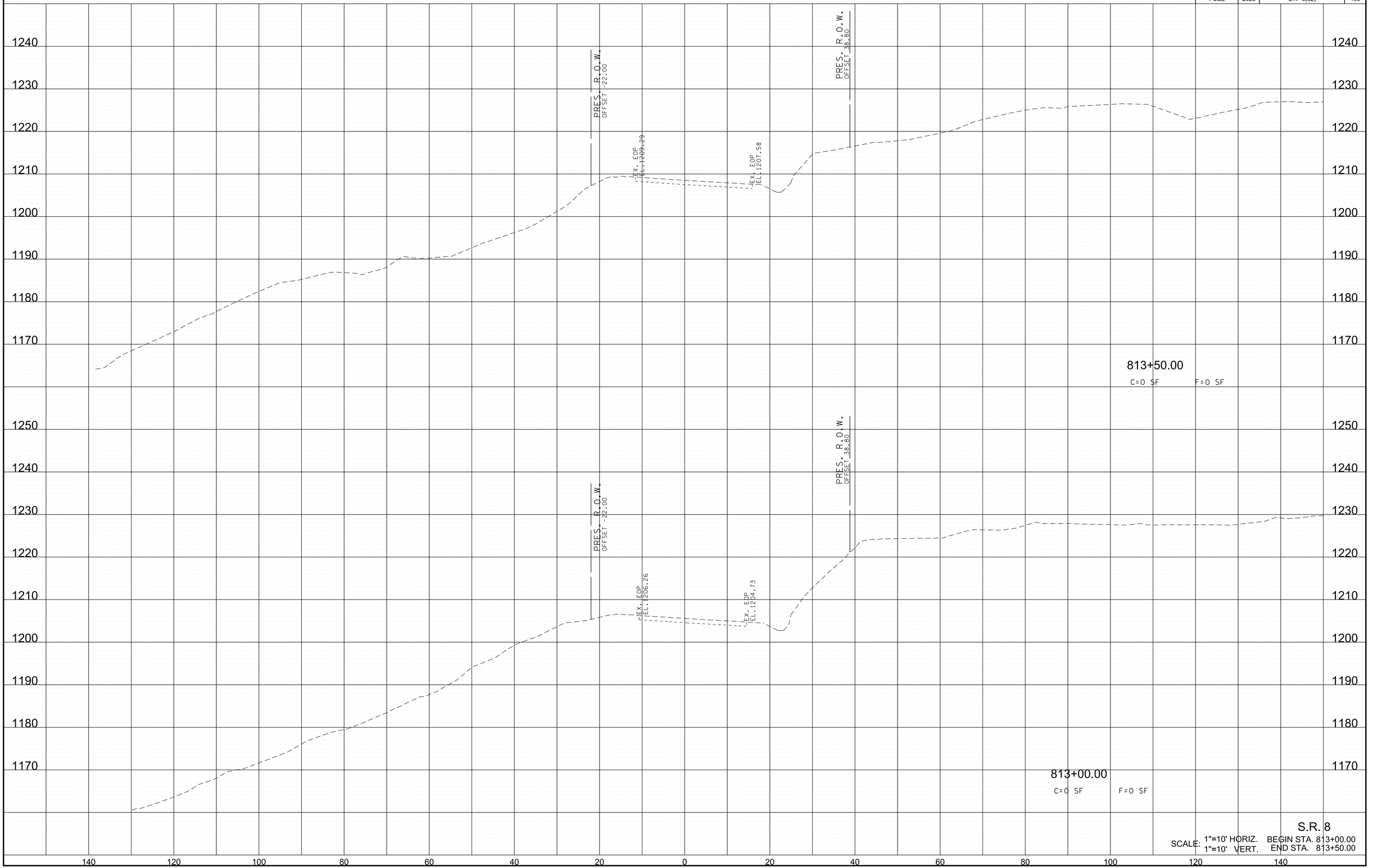
S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT.

BEGIN STA. 812+50.00
END STA. 812+50.00

6/29/2026 8:19:53 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	108
PS&E	2026	STP-8(52)	109

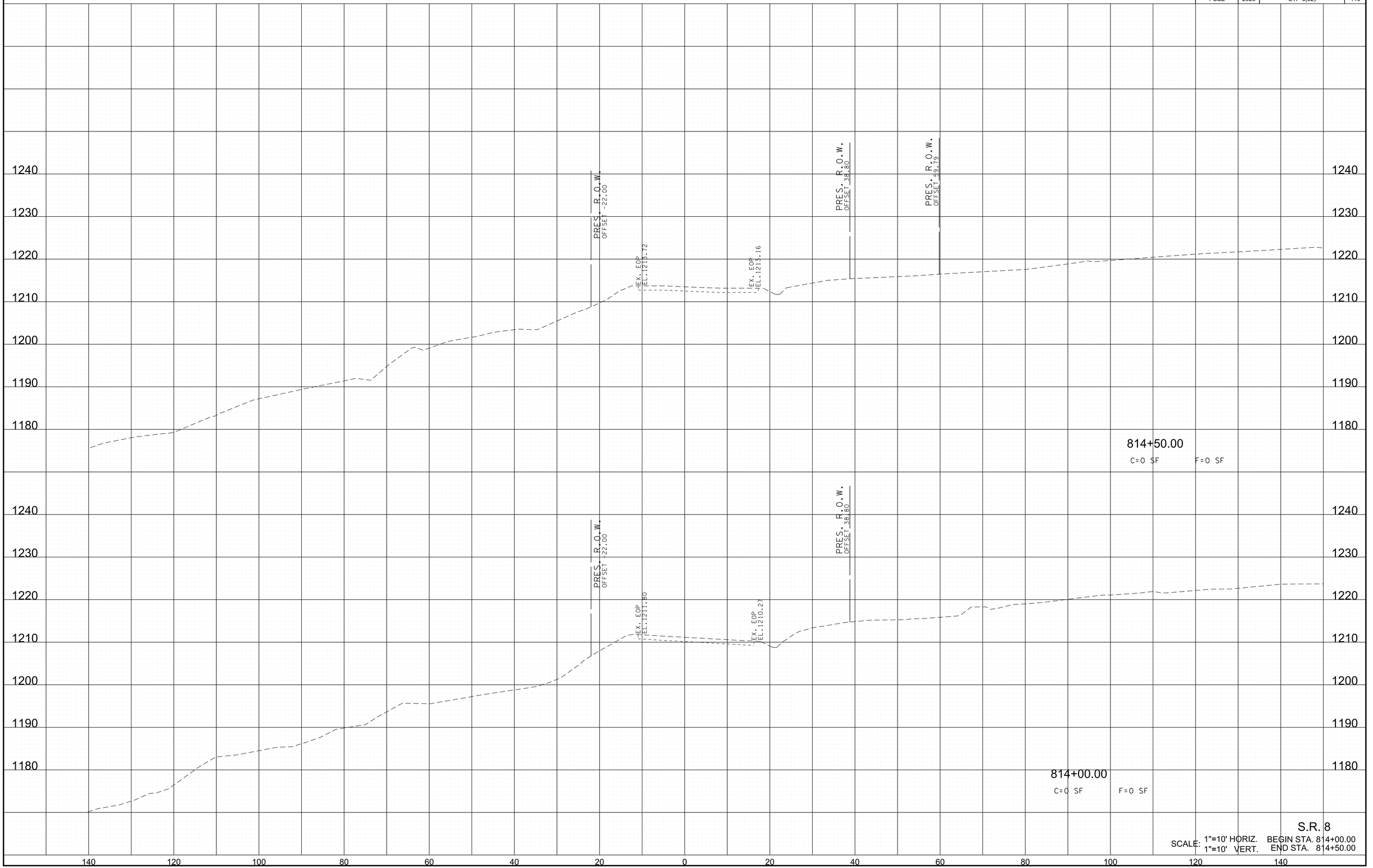


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 813+00.00
1"=10' VERT. END STA. 813+50.00

6/29/2026 8:19:56 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	109
PS&E	2026	STP-8(52)	110



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 814+00.00
1"=10' VERT. END STA. 814+50.00

6/29/2026 8:19:58 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	110
PS&E	2026	STP-8(52)	111

PRES. R.O.W.
OFFSET -22.00

EX. EOP
EL. 1217.60

OFFSET 20.18
EX. EOP
EL. 1218.89

OFFSET 18.83
PROP. EOP
EL. 1216.63

1:1

2:1

OFFSET 47.58
EL. 1228.08

PRES. R.O.W.
OFFSET 54.91

BEGIN SPECIAL DITCH
STA. 815+17.04
EL. 1214.25

815+50.00
C=58 SF F=0 SF

PRES. R.O.W.
OFFSET -22.00

EX. EOP
EL. 1215.51

PRES. R.O.W.
OFFSET 61.45

815+00.00
C=0 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 815+00.00
1"=10' VERT. END STA. 815+50.00

6/29/2026 8:20:01 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	111
PS&E	2026	STP-8(52)	112

PRES. R.O.W.
OFFSET -22.00

EX. EOP
EL. 1221.38

EX. EOP
EL. 1223.01

OFFSET 22.92
EL. 1222.76

EL. 1221.30

OFFSET 31.11
EL. 1224.44

PRES. R.O.W.
OFFSET 57.93

PROP. R.O.W.
OFFSET 69.00

816+50.00
C=6 SF F=0 SF

PRES. R.O.W.
OFFSET -22.00

EX. EOP
EL. 1219.55

EX. EOP
EL. 1221.08

OFFSET 21.58
EL. 1220.69

EL. 1219.19

2:1

OFFSET 48.00
EL. 1230.85

PRES. R.O.W.
OFFSET 54.02

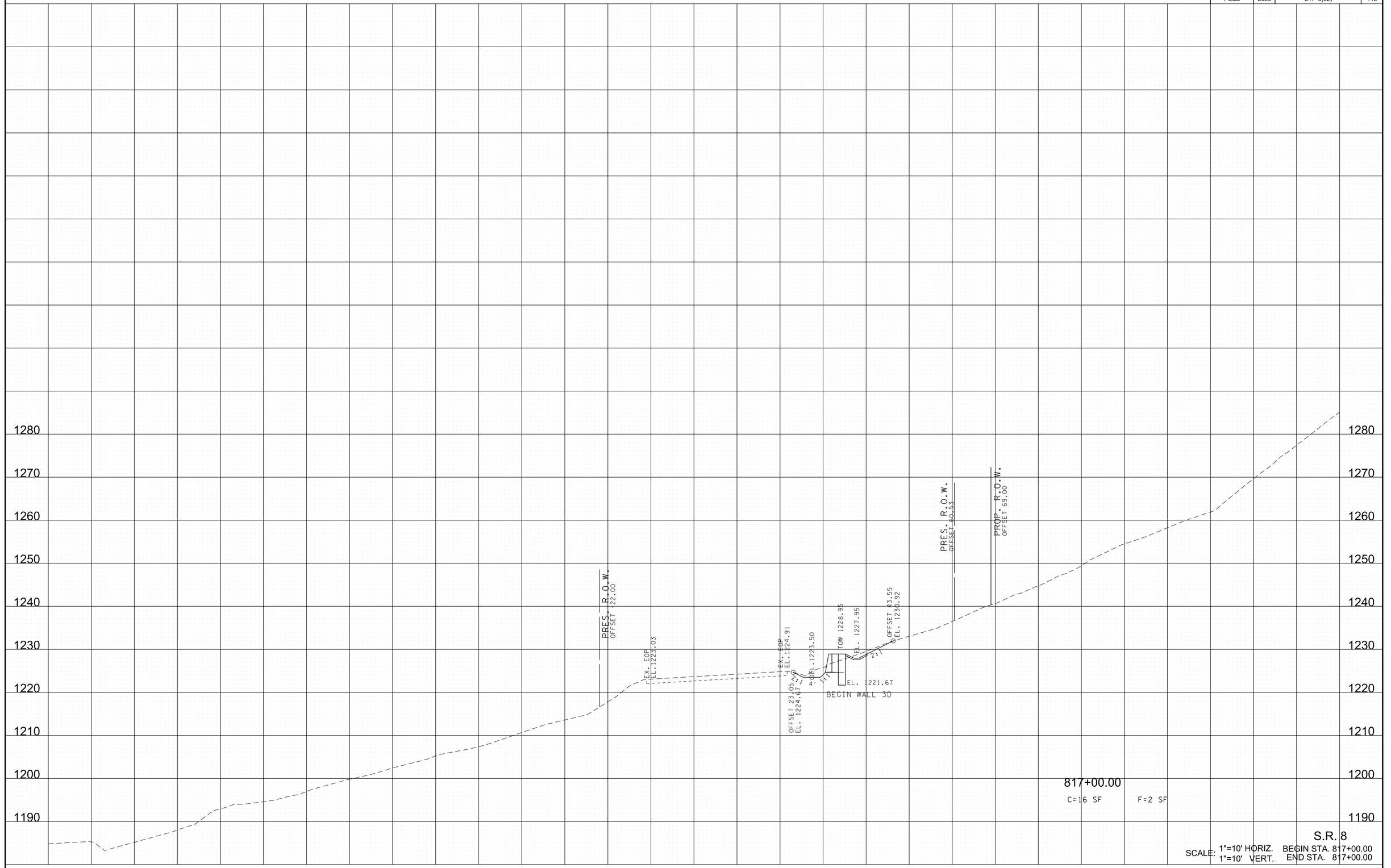
816+00.00
C=60 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 816+00.00
1"=10' VERT. END STA. 816+50.00

6/29/2026 8:20:03 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	112
PS&E	2026	STP-8(52)	113

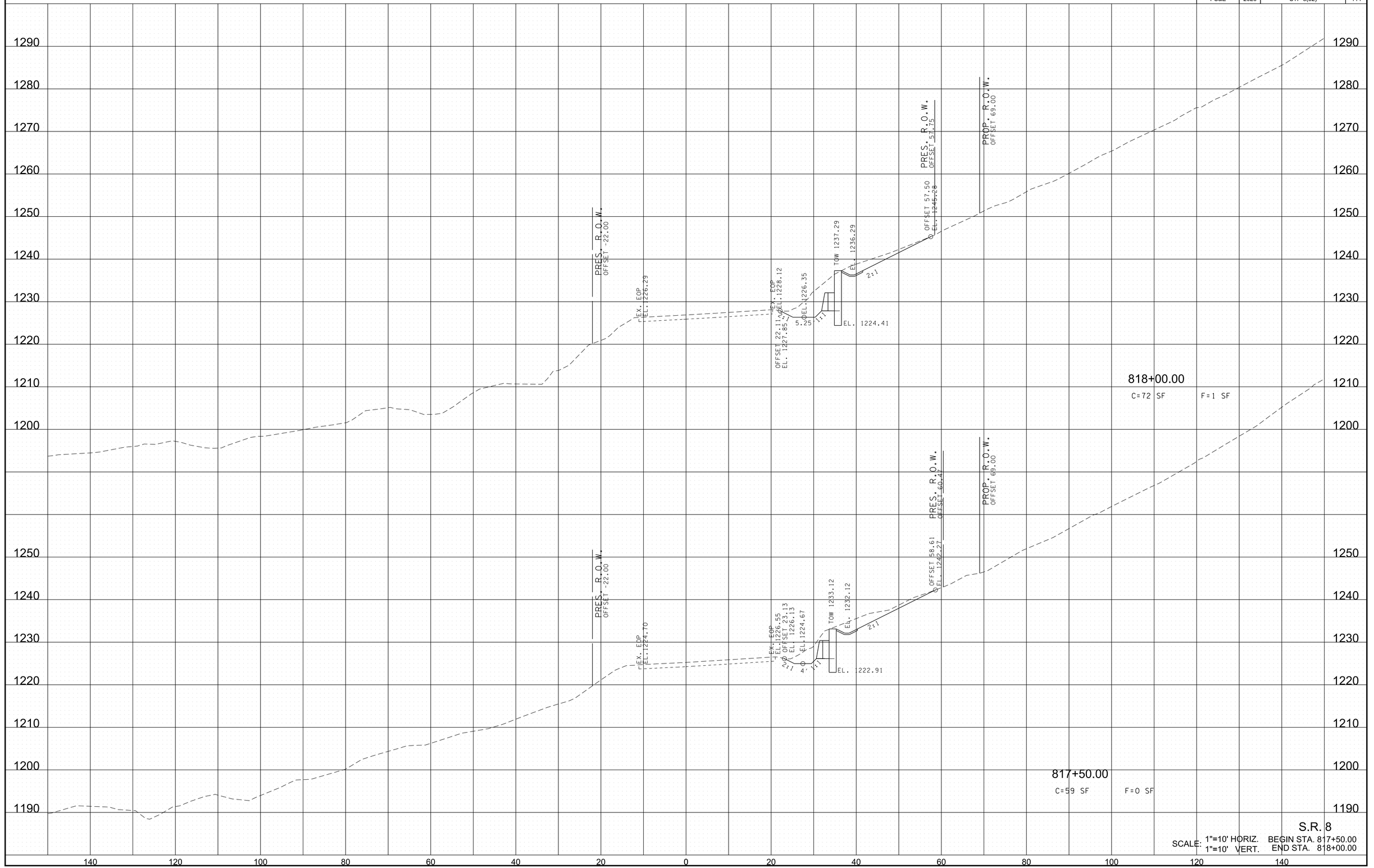


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 817+00.00
1"=10' VERT. END STA. 817+00.00

6/29/2026 8:20:06 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	113
PS&E	2026	STP-8(52)	114

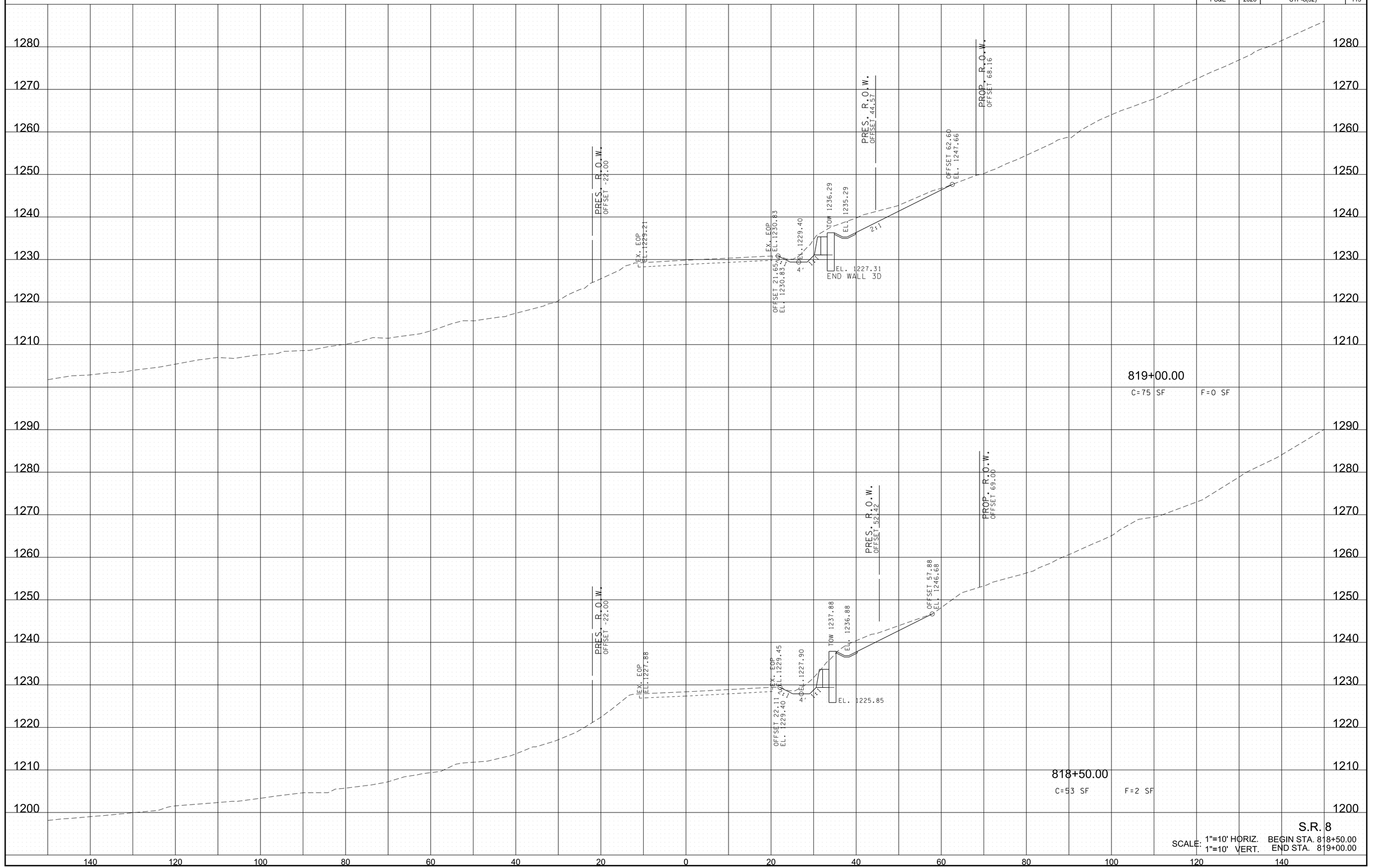


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 817+50.00
1"=10' VERT. END STA. 818+00.00

6/29/2026 8:20:08 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms341411\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	114
PS&E	2026	STP-8(52)	115

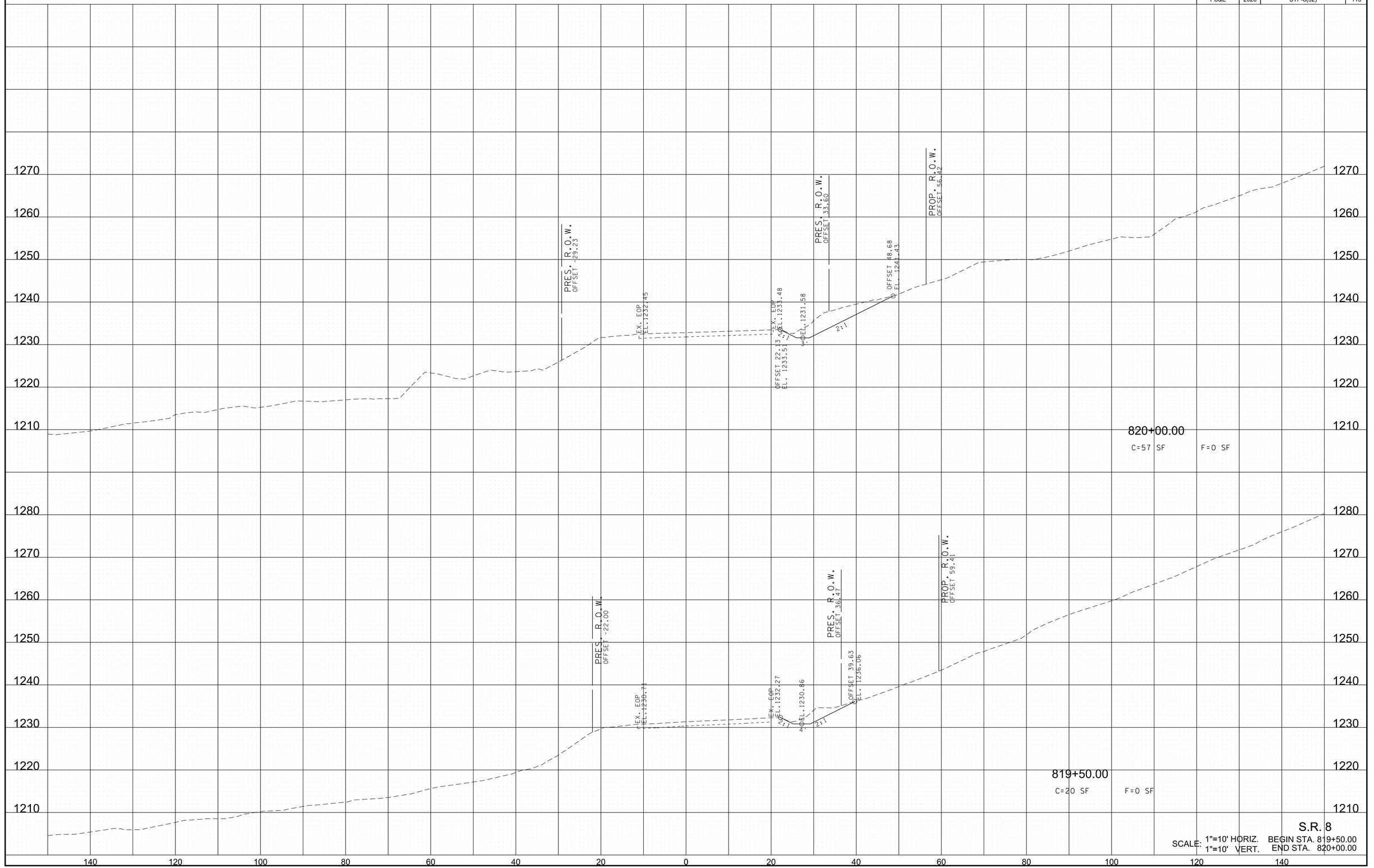


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 818+50.00
1"=10' VERT. END STA. 819+00.00

6/29/2026 8:20:11 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	115
PS&E	2026	STP-8(52)	116



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 819+50.00
1"=10' VERT. END STA. 820+00.00

6/29/2026 8:20:13 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	116
PS&E	2026	STP-8(52)	117

PRES. R.O.W. OFFSET -36.41

PRES. R.O.W. OFFSET 33.60

EX. EOP EL. 1237.36

EX. EOP EL. 1236.69

36" RCP

821+50.00

C=0 SF F=0 SF

PRES. R.O.W. OFFSET -34.62

PRES. R.O.W. OFFSET 33.60

EX. EOP EL. 1235.79

EX. EOP EL. 1235.81

36" RCP

821+00.00

C=0 SF F=0 SF

PRES. R.O.W. OFFSET -31.92

PRES. R.O.W. OFFSET 33.60

END SPECIAL DITCH STA. 820+50.00 EL. 1232.49

PROP. R.O.W. OFFSET 56.42

EX. EOP EL. 1234.22

EX. EOP EL. 1234.64

OFFSET 21.92 EL. 1234.64

EL. 1232.30

2:1

OFFSET 46.09 EL. 1240.55

820+50.00

C=62 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 820+50.00
1"=10' VERT. END STA. 821+50.00

6/29/2026 8:20:16 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	117
PS&E	2026	STP-8(52)	118

PRES. R.O.W.
OFFSET -36.74

PRES. R.O.W.
OFFSET -36.62

PRES. R.O.W.
OFFSET -36.99

PROP. R.O.W.
OFFSET 47.00

PRES. R.O.W.
OFFSET 33.60

EX. EOP
EL.1242.23

EX. EOP
EL.1240.54

EX. EOP
EL.1238.97

OFFSET 22.80
EL. 1241.10

EX. EOP
EL.1241.16

EX. EOP
EL.1239.48

EX. EOP
EL.1237.90

EL.1239.84

OFFSET 23.26
EL. 1239.28

OFFSET 32.26
EL. 1241.20

OFFSET 31.78
EL. 1239.44

EL.1238.09

5.3%

BEGIN SPECIAL DITCH
STA. 821+13.60
EL. 1239.49

36" RCP

823+00.00
C=4 SF F=0 SF

822+50.00
C=5 SF F=0 SF

822+00.00
C=0 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 822+00.00
1"=10' VERT. END STA. 823+00.00

6/29/2026 8:20:18 PM
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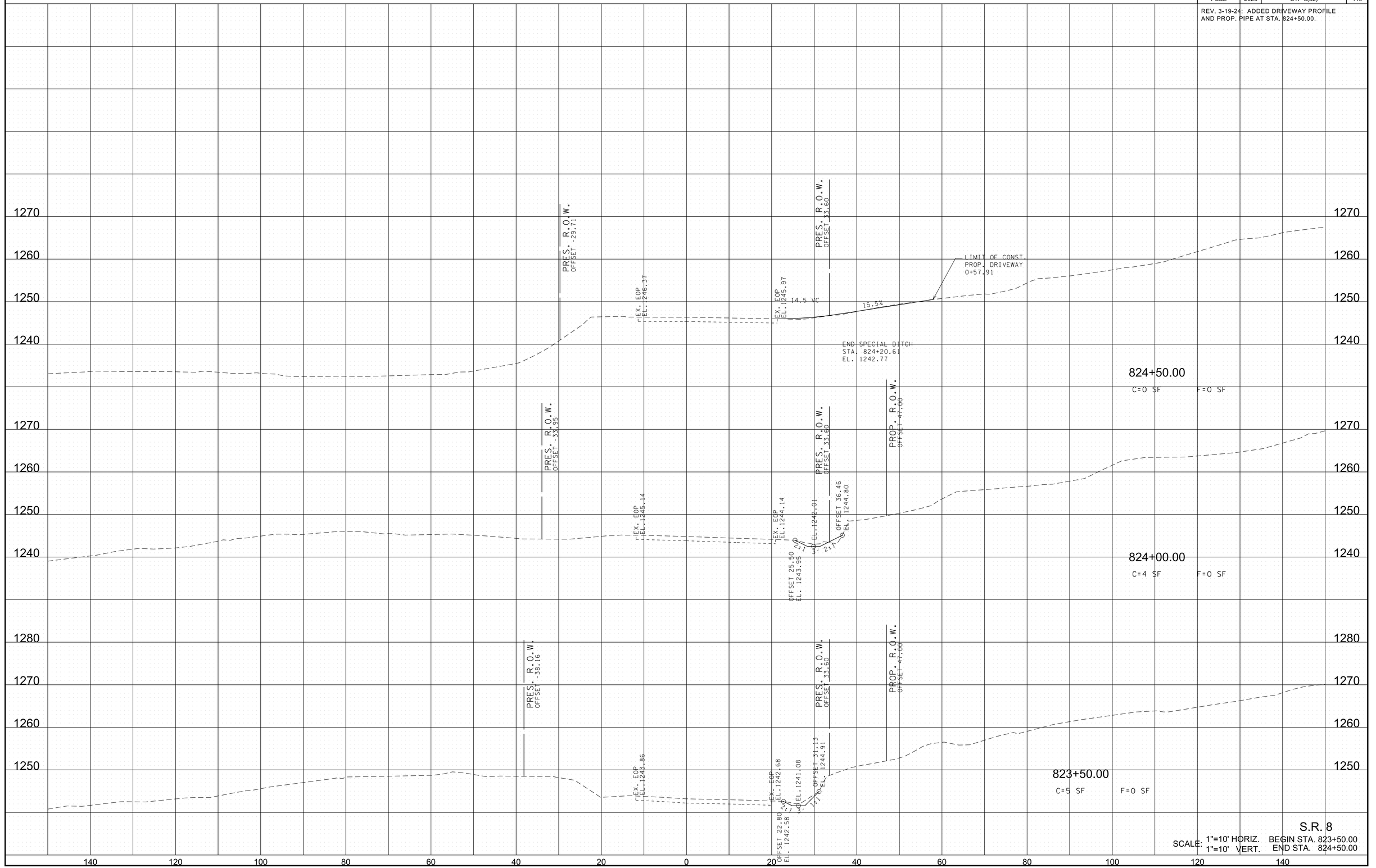
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	118
PS&E	2026	STP-8(52)	119

REV. 3-19-24: ADDED DRIVEWAY PROFILE AND PROP. PIPE AT STA. 824+50.00.



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 823+50.00
1"=10' VERT. END STA. 824+50.00

6/29/2026 8:20:21 PM
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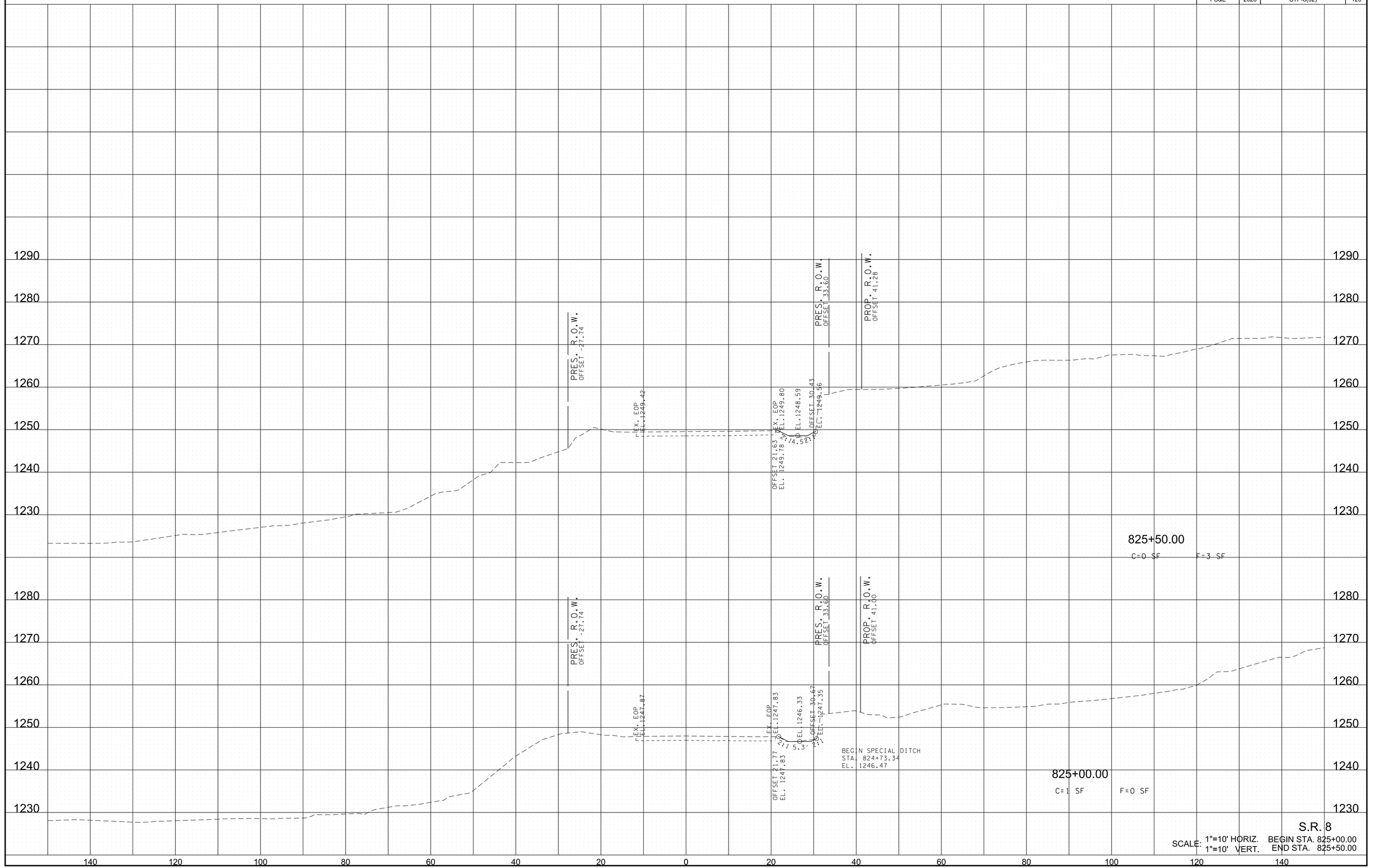
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	119
PS&E	2026	STP-8(52)	120

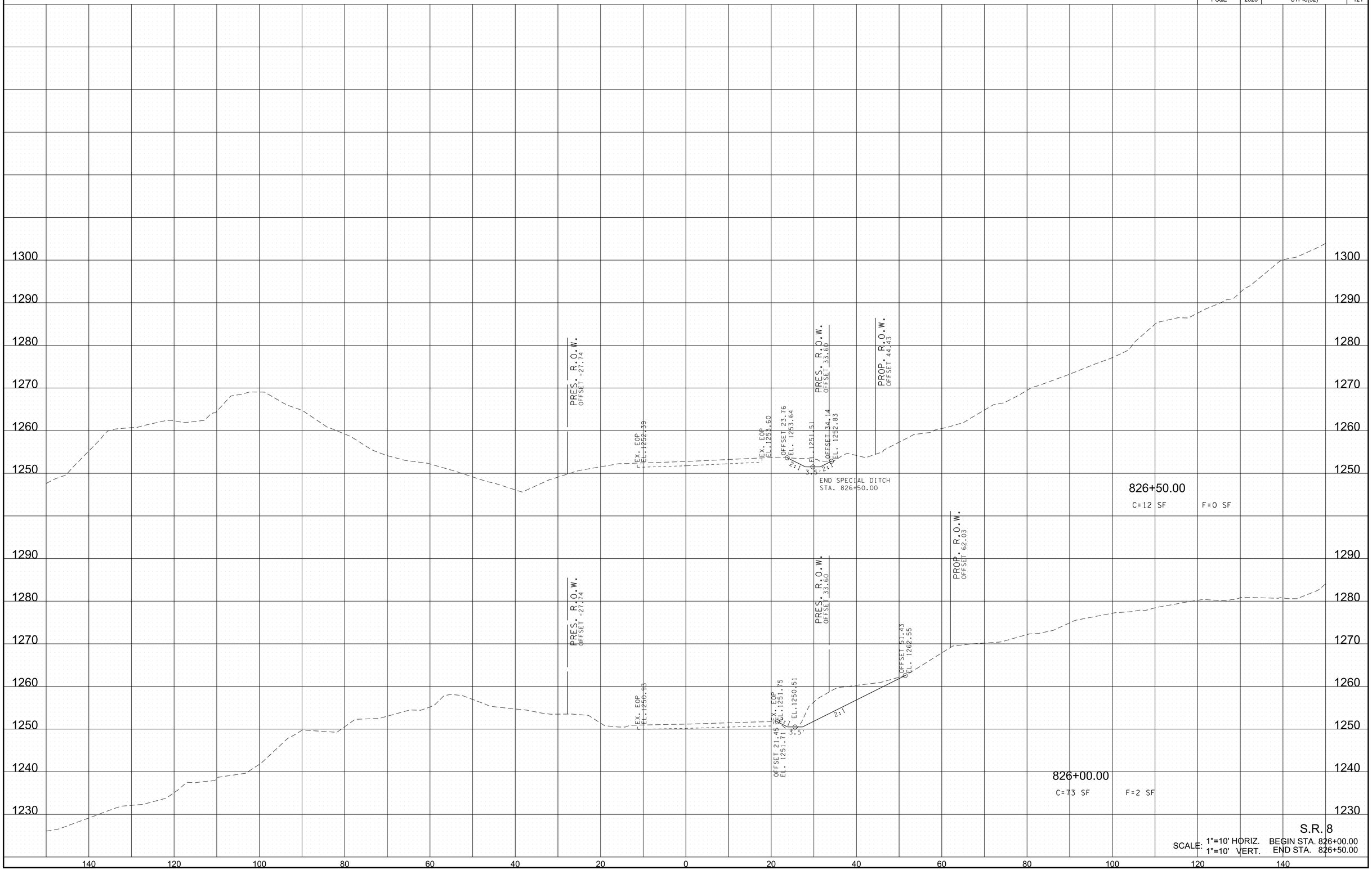


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 825+00.00
1"=10' VERT. END STA. 825+50.00

6/29/2026 8:20:23 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	120
PS&E	2026	STP-8(52)	121



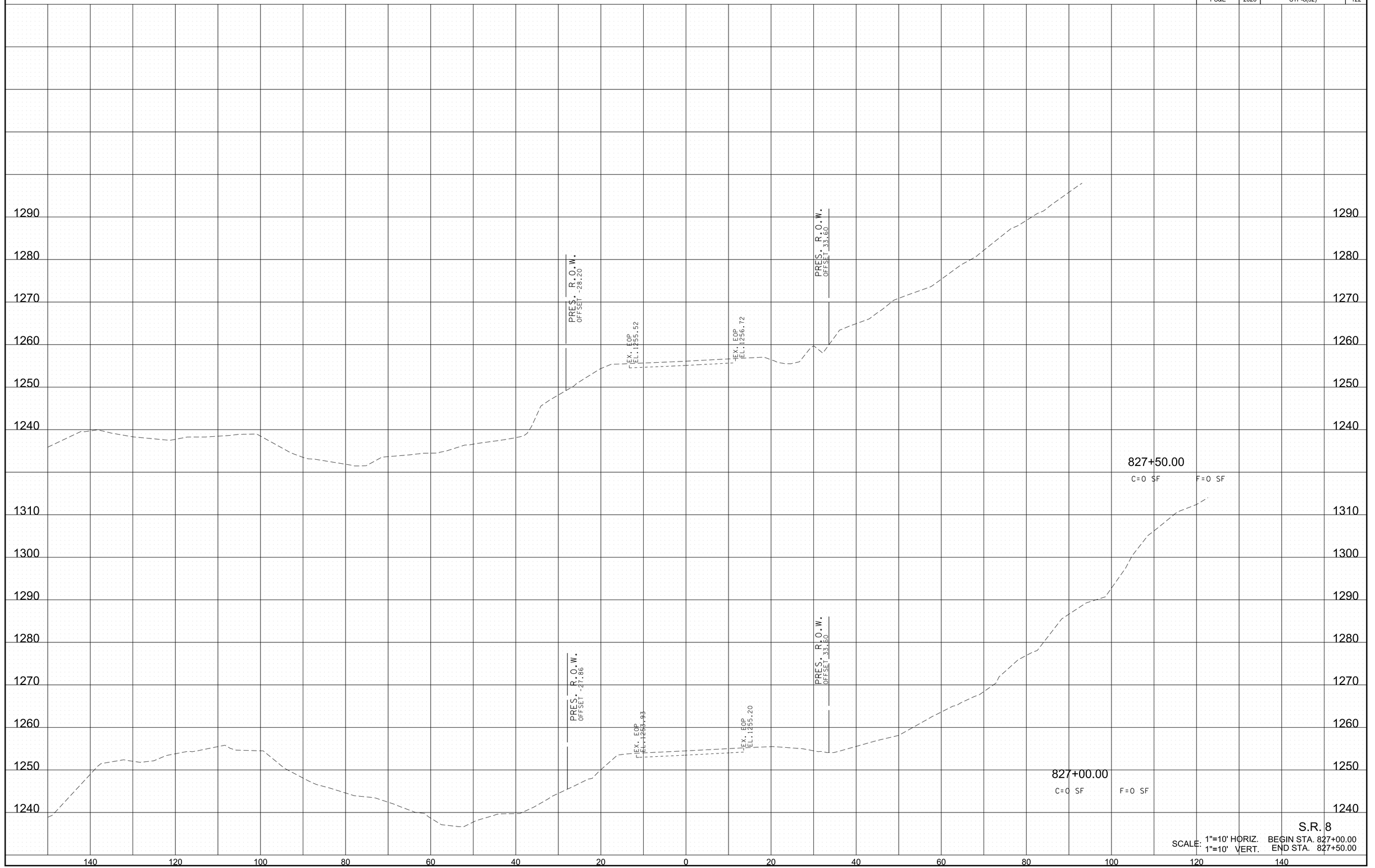
S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT.

BEGIN STA. 826+00.00
END STA. 826+50.00

6/29/2026 8:20:26 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	121
PS&E	2026	STP-8(52)	122

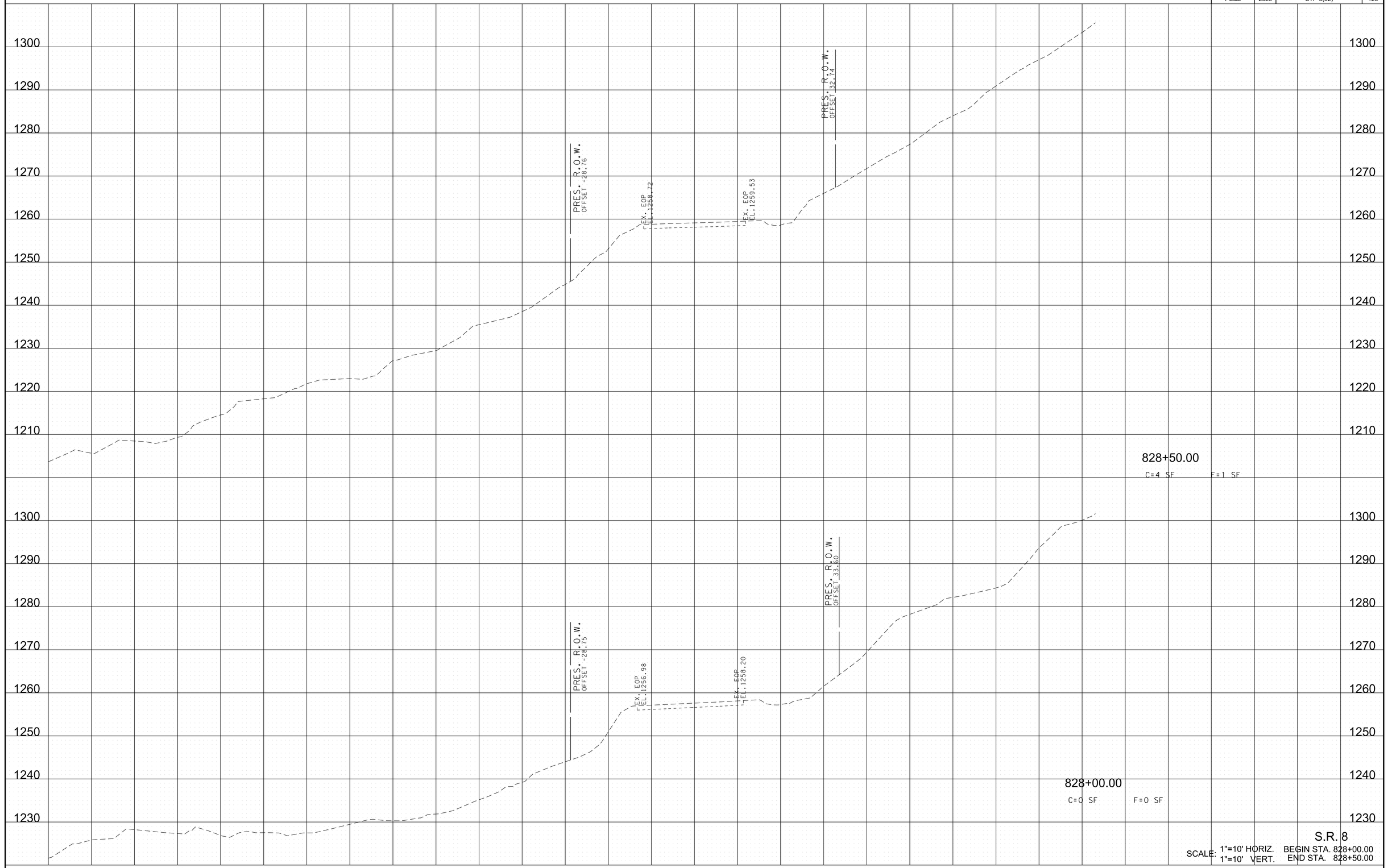


S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT. BEGIN STA. 827+00.00 END STA. 827+50.00

6/29/2026 8:20:28 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	122
PS&E	2026	STP-8(52)	123



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 828+00.00
1"=10' VERT. END STA. 828+50.00

6/29/2026 8:20:31 PM
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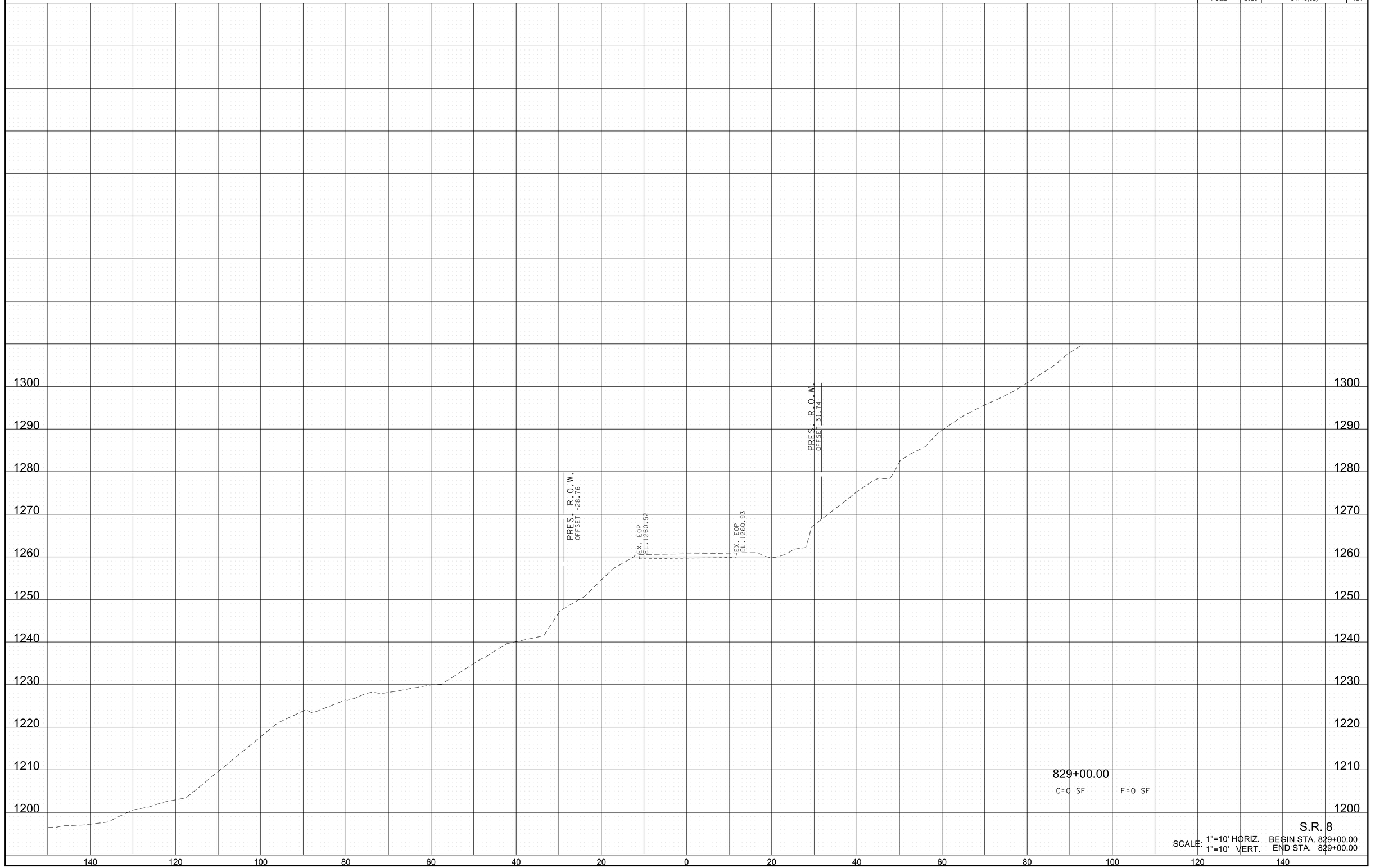
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	123
PS&E	2026	STP-8(52)	124

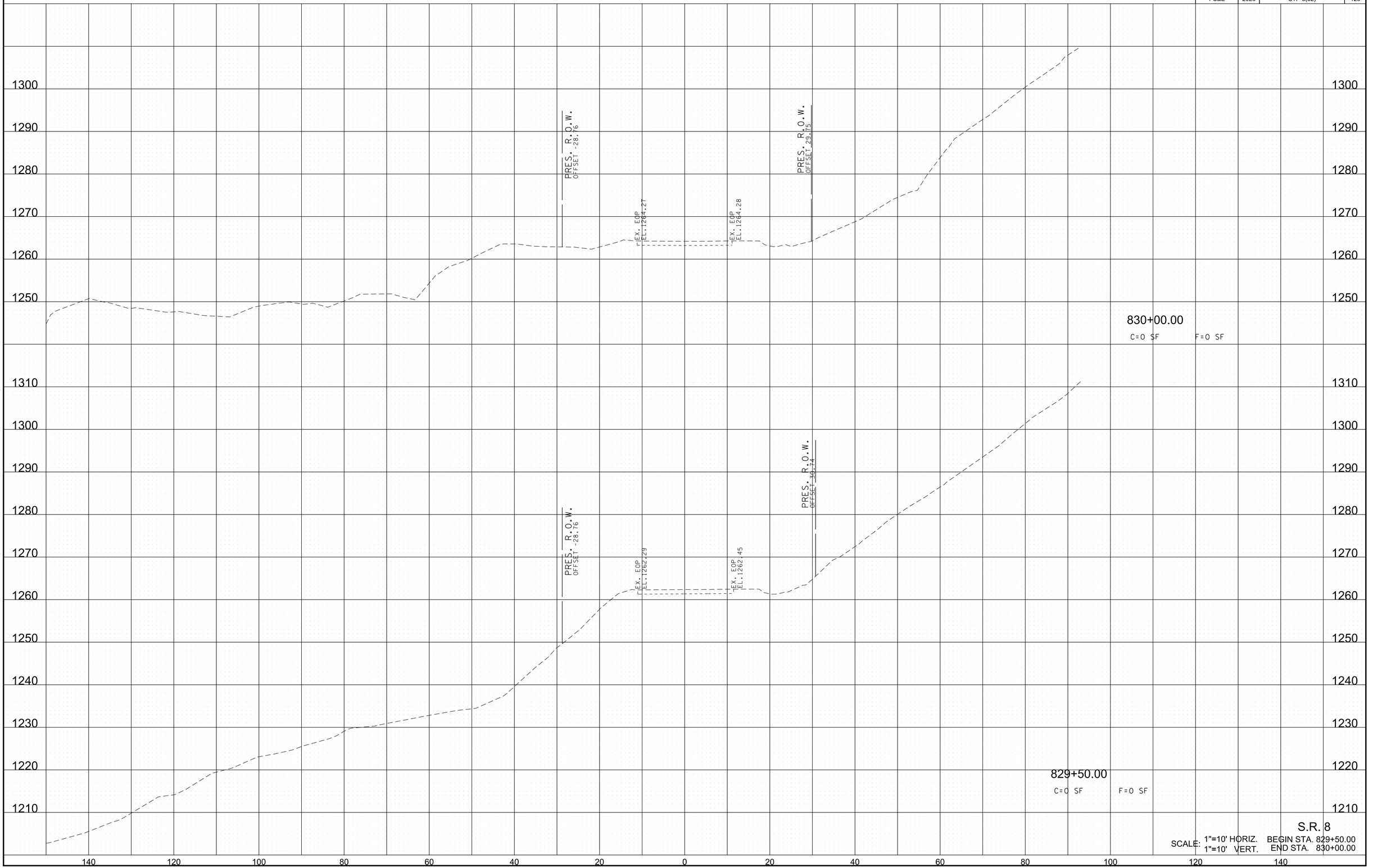


S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT. BEGIN STA. 829+00.00 END STA. 829+00.00

6/29/2026 8:20:33 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	124
PS&E	2026	STP-8(52)	125

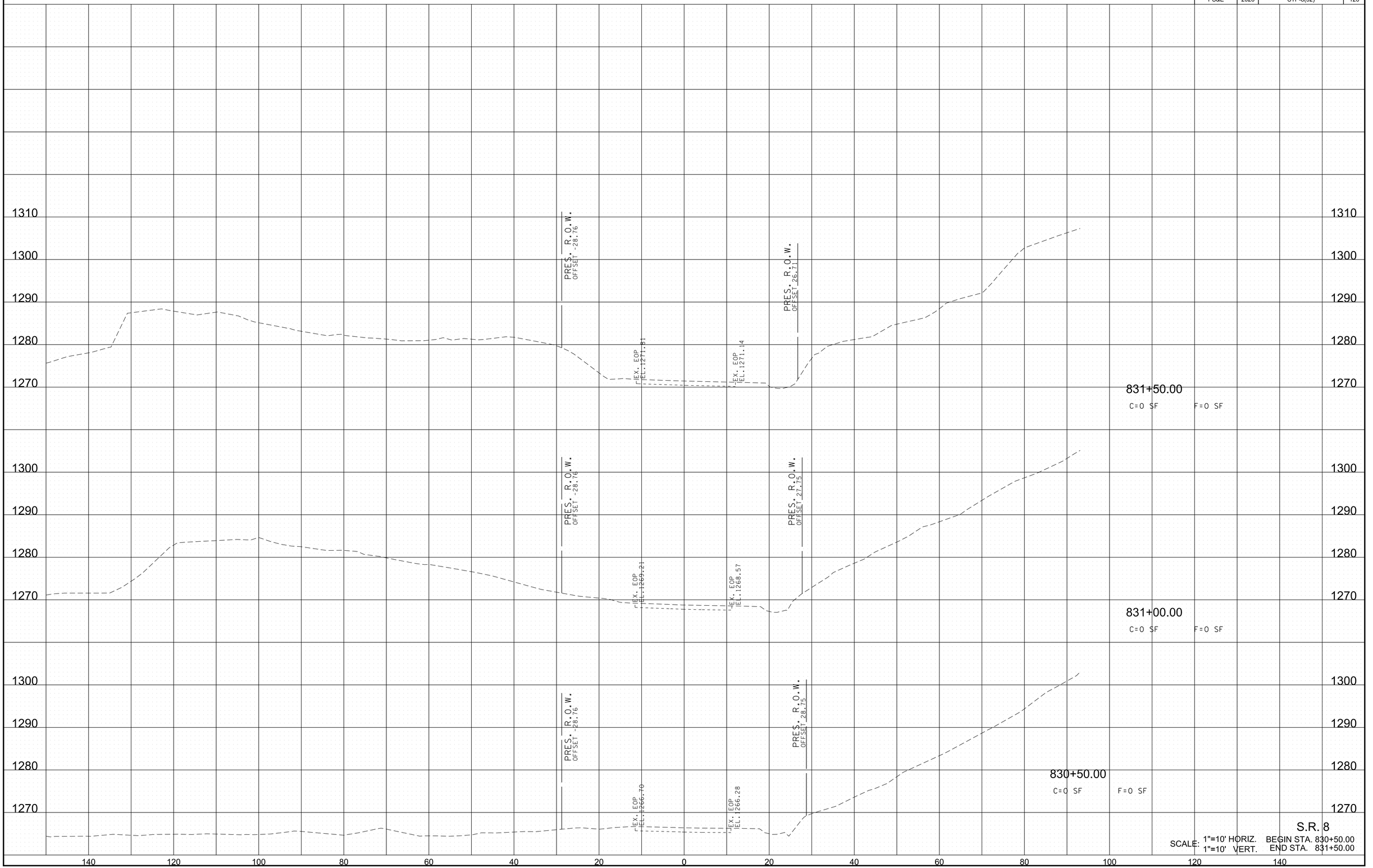


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 829+50.00
1"=10' VERT. END STA. 830+00.00

6/29/2026 8:20:36 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	125
PS&E	2026	STP-8(52)	126

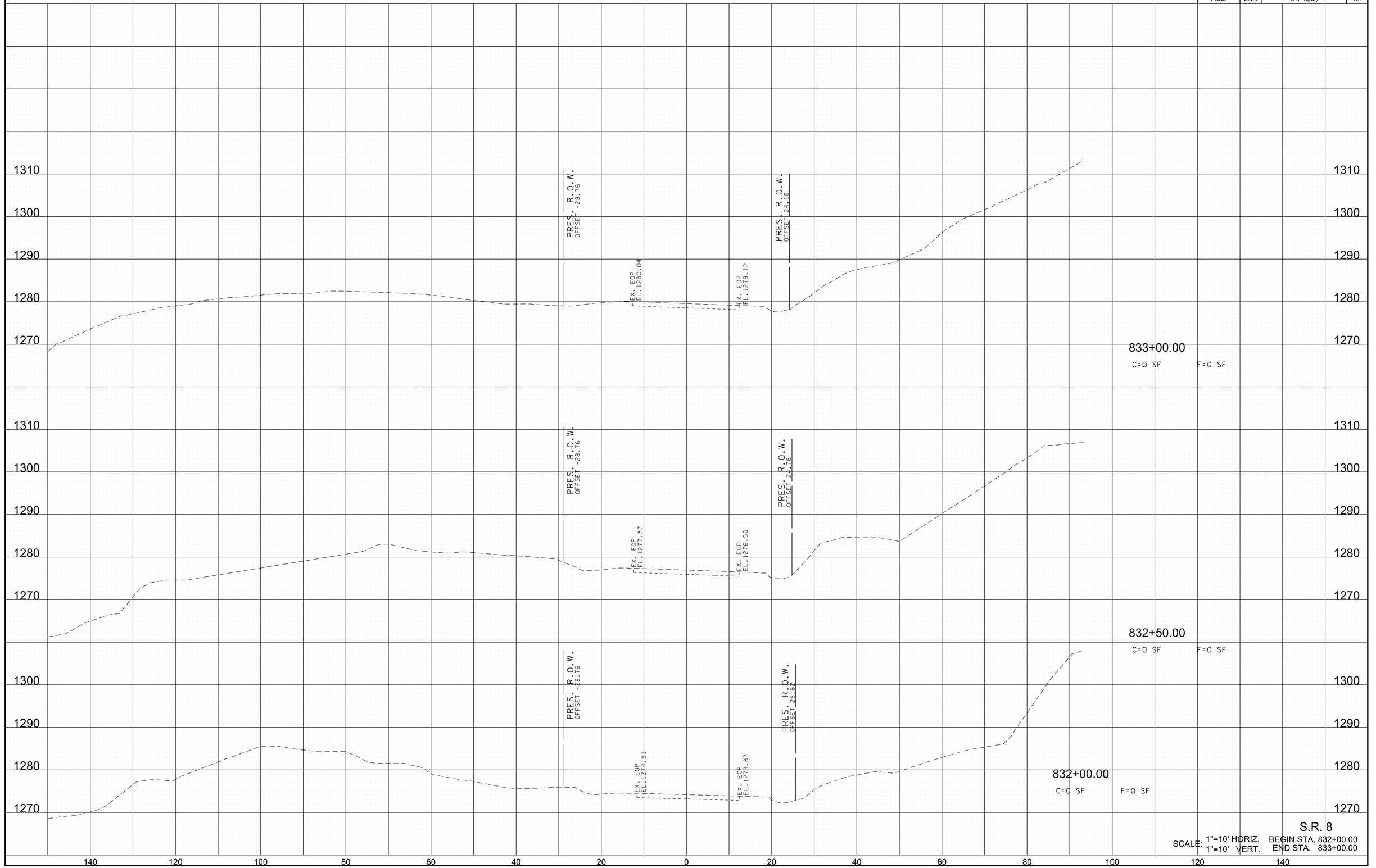


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 830+50.00
1"=10' VERT. END STA. 831+50.00

6/29/2026 8:20:38 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	126
PS&E	2026	STP-8(52)	127

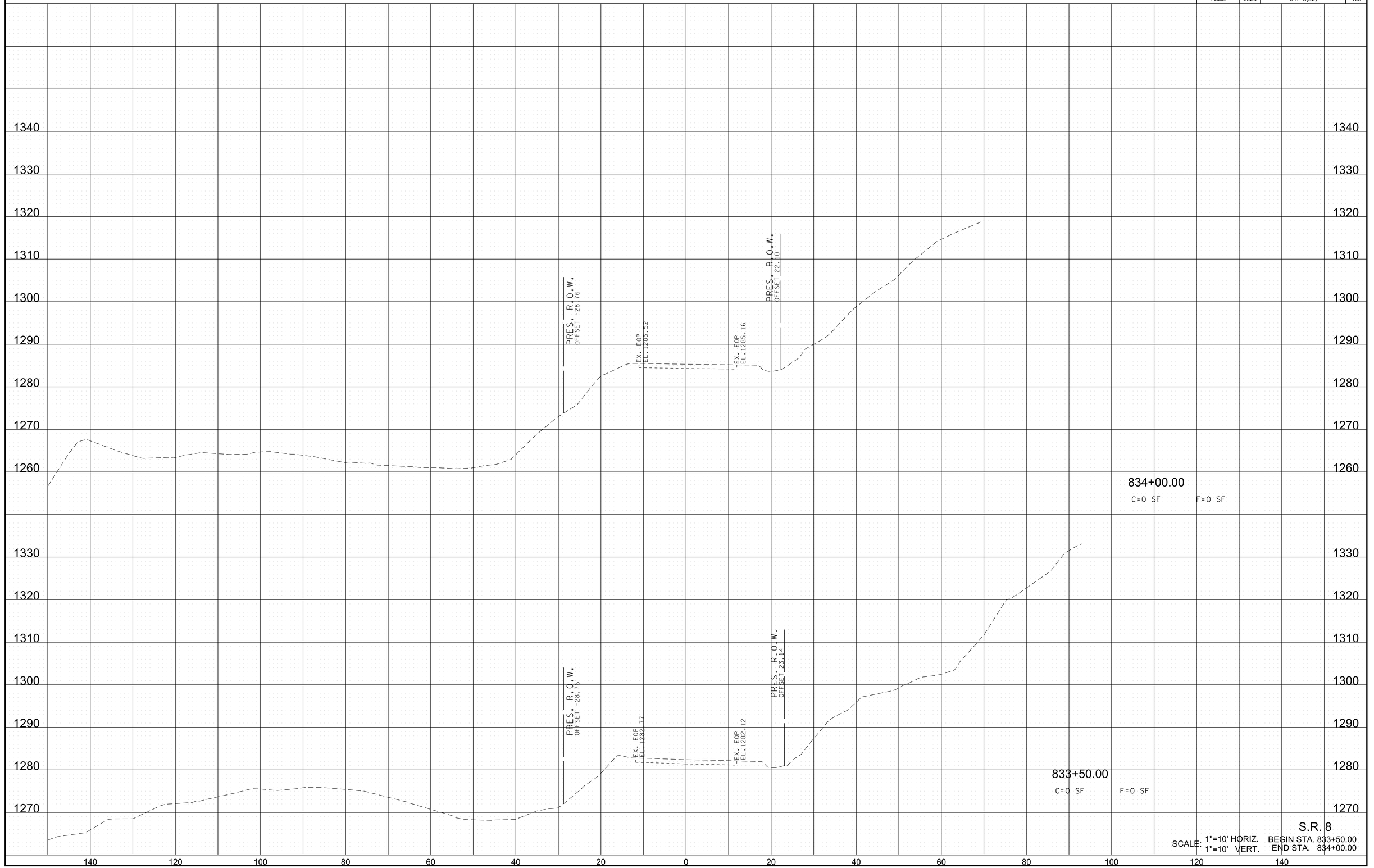


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 832+00.00
1"=10' VERT. END STA. 833+00.00

6/29/2026 8:20:41 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	127
PS&E	2026	STP-8(52)	128

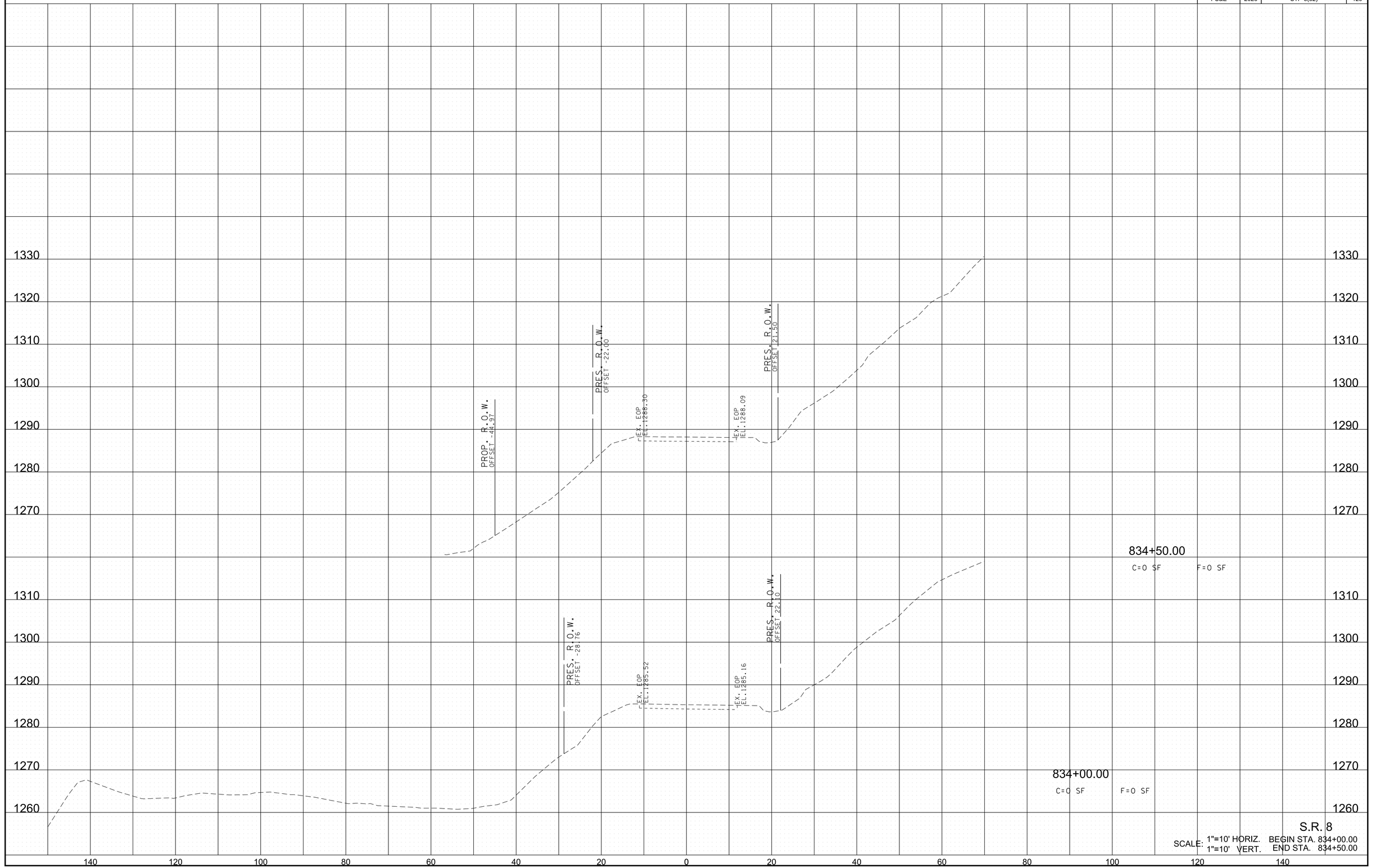


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 833+50.00
1"=10' VERT. END STA. 834+00.00

6/29/2026 8:20:43 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	128
PS&E	2026	STP-8(52)	129

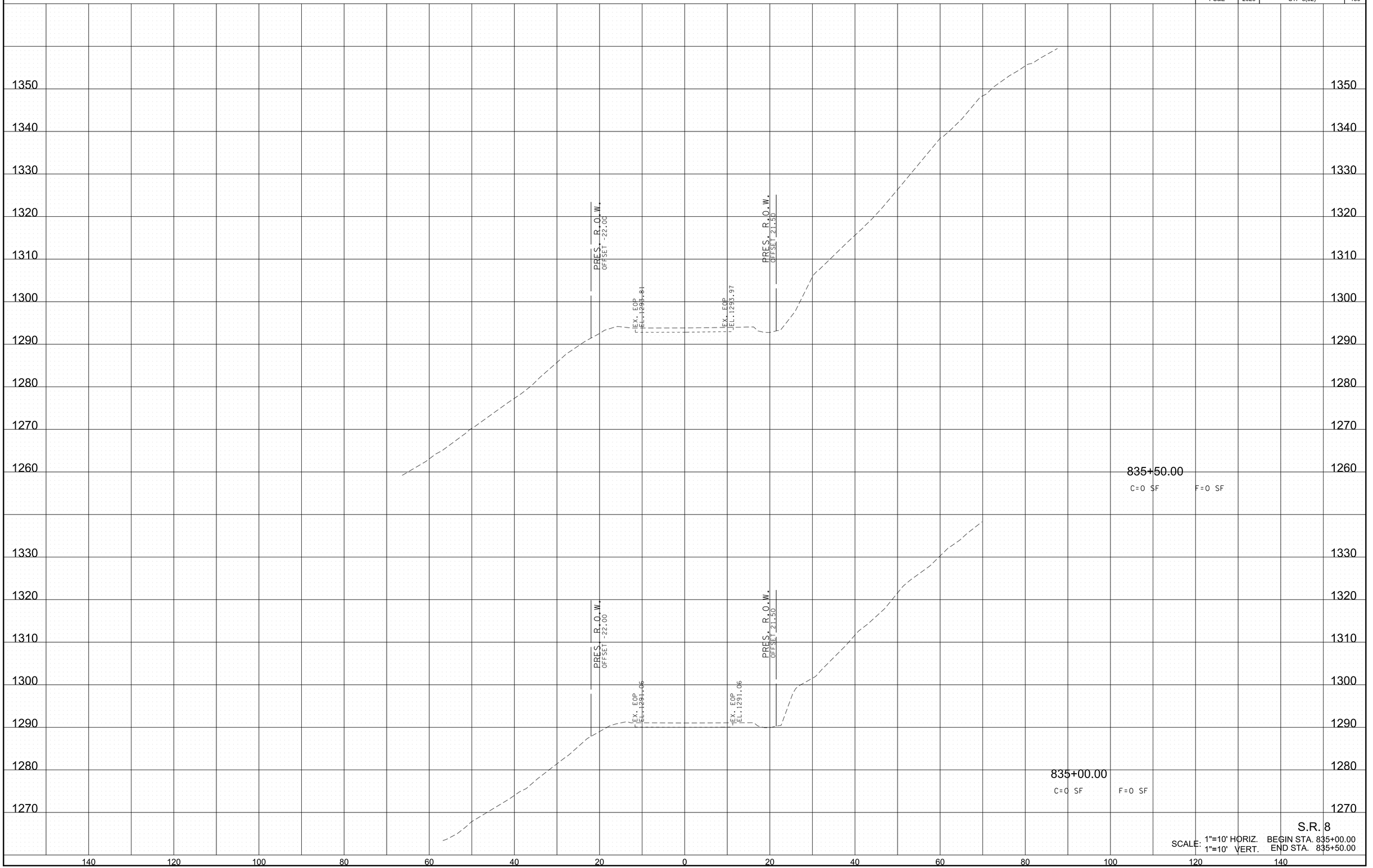


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 834+00.00
1"=10' VERT. END STA. 834+50.00

6/29/2026 8:20:46 PM
c:\pw_work\arcadspw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	129
PS&E	2026	STP-8(52)	130

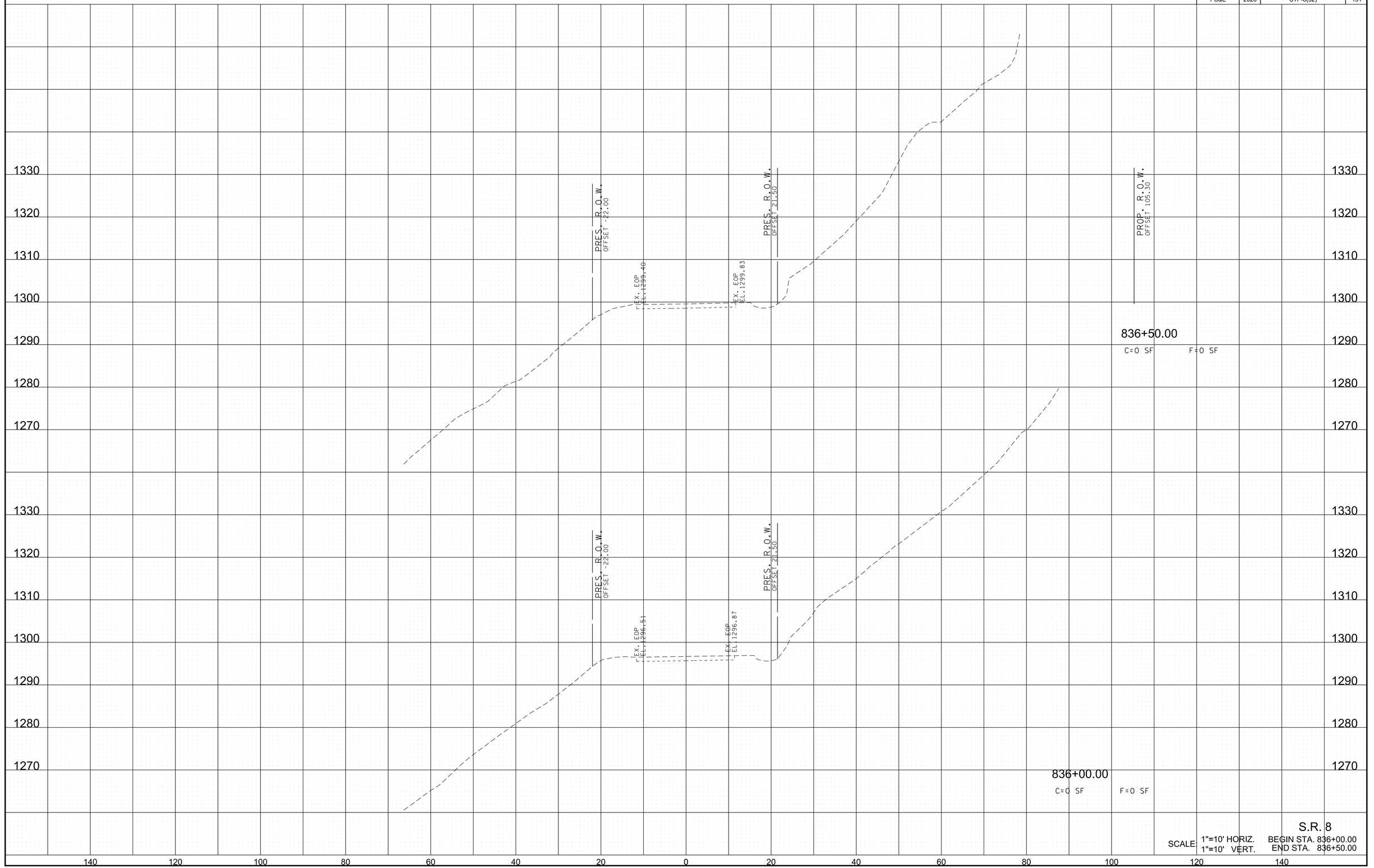


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 835+00.00
1"=10' VERT. END STA. 835+50.00

6/29/2026 8:20:48 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	130
PS&E	2026	STP-8(52)	131



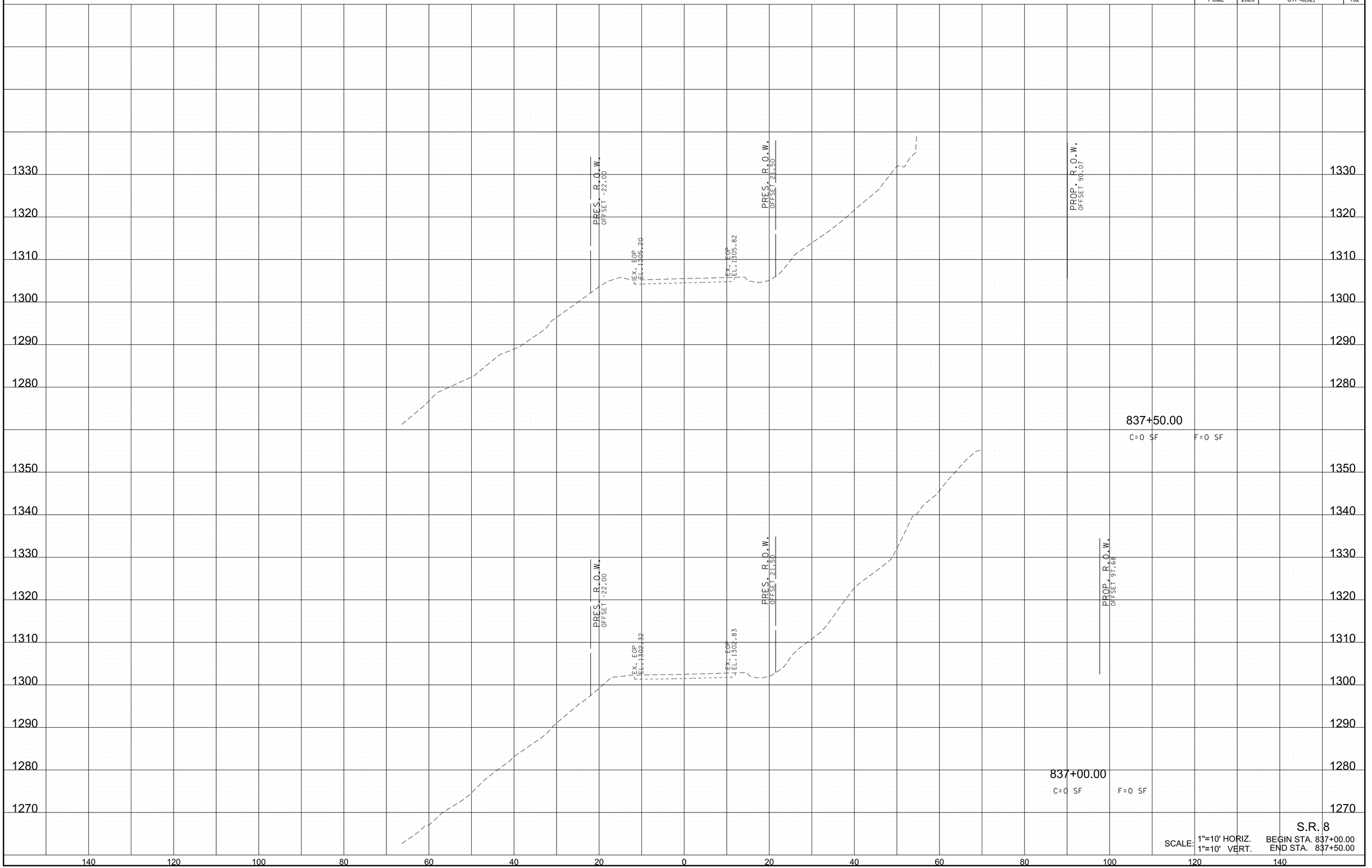
S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT.

BEGIN STA. 836+00.00
END STA. 836+50.00

6/29/2026 8:20:51 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	131
PS&E	2026	STP-8(52)	132



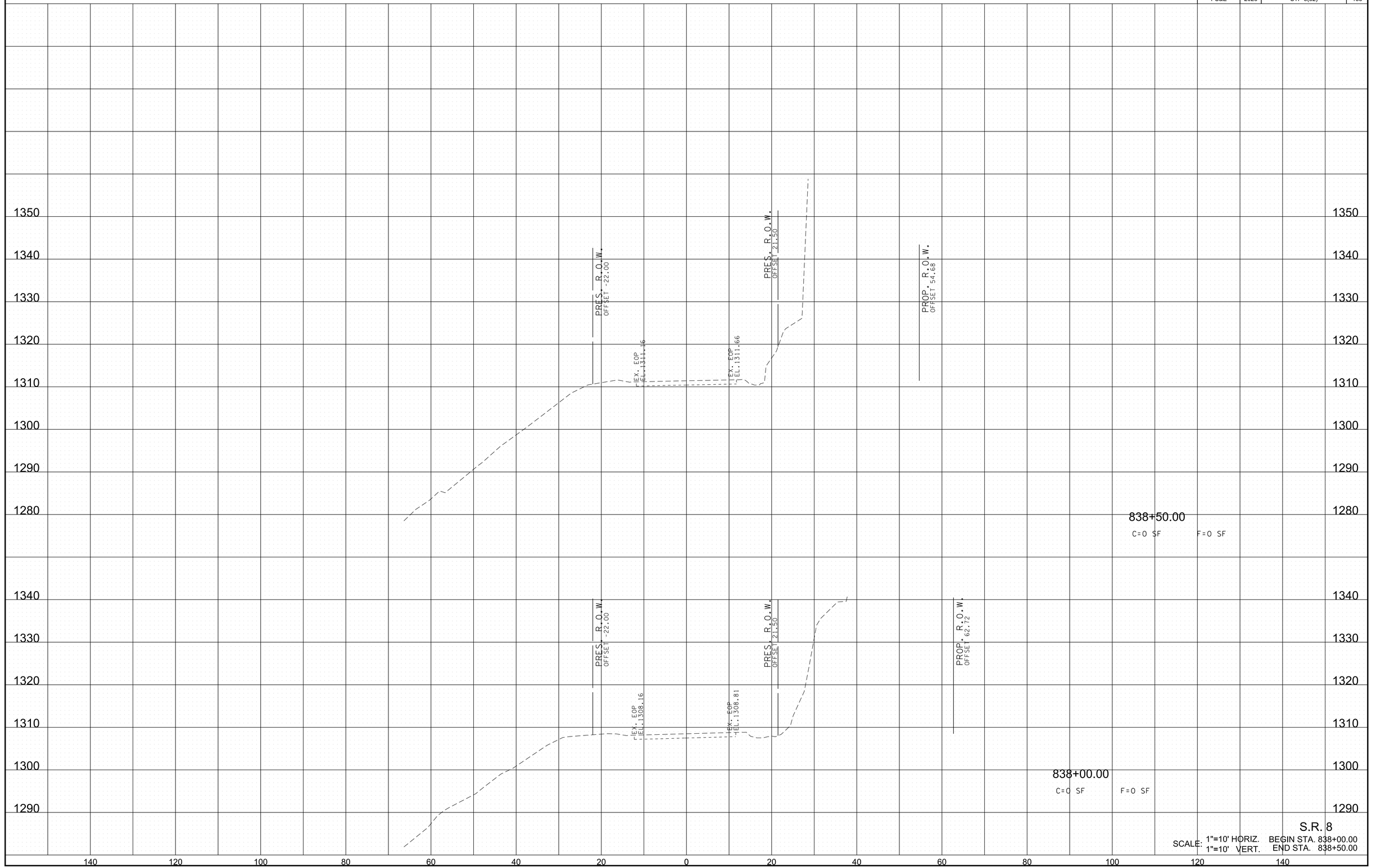
S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT.

BEGIN STA. 837+00.00
END STA. 837+50.00

6/29/2026 8:20:53 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	132
PS&E	2026	STP-8(52)	133

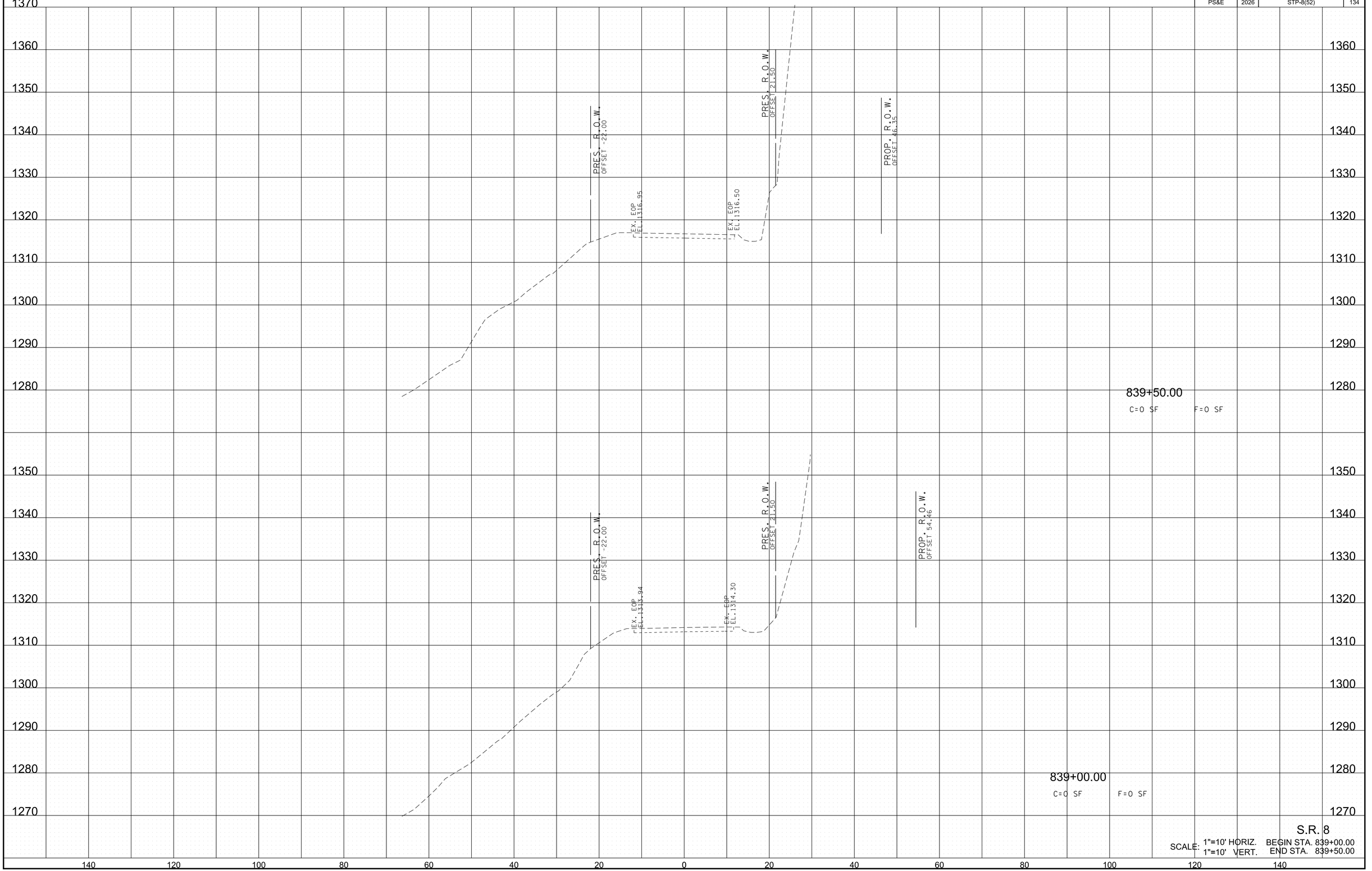


S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT. BEGIN STA. 838+00.00 END STA. 838+50.00

6/29/2026 8:20:56 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	133
PS&E	2026	STP-8(52)	134

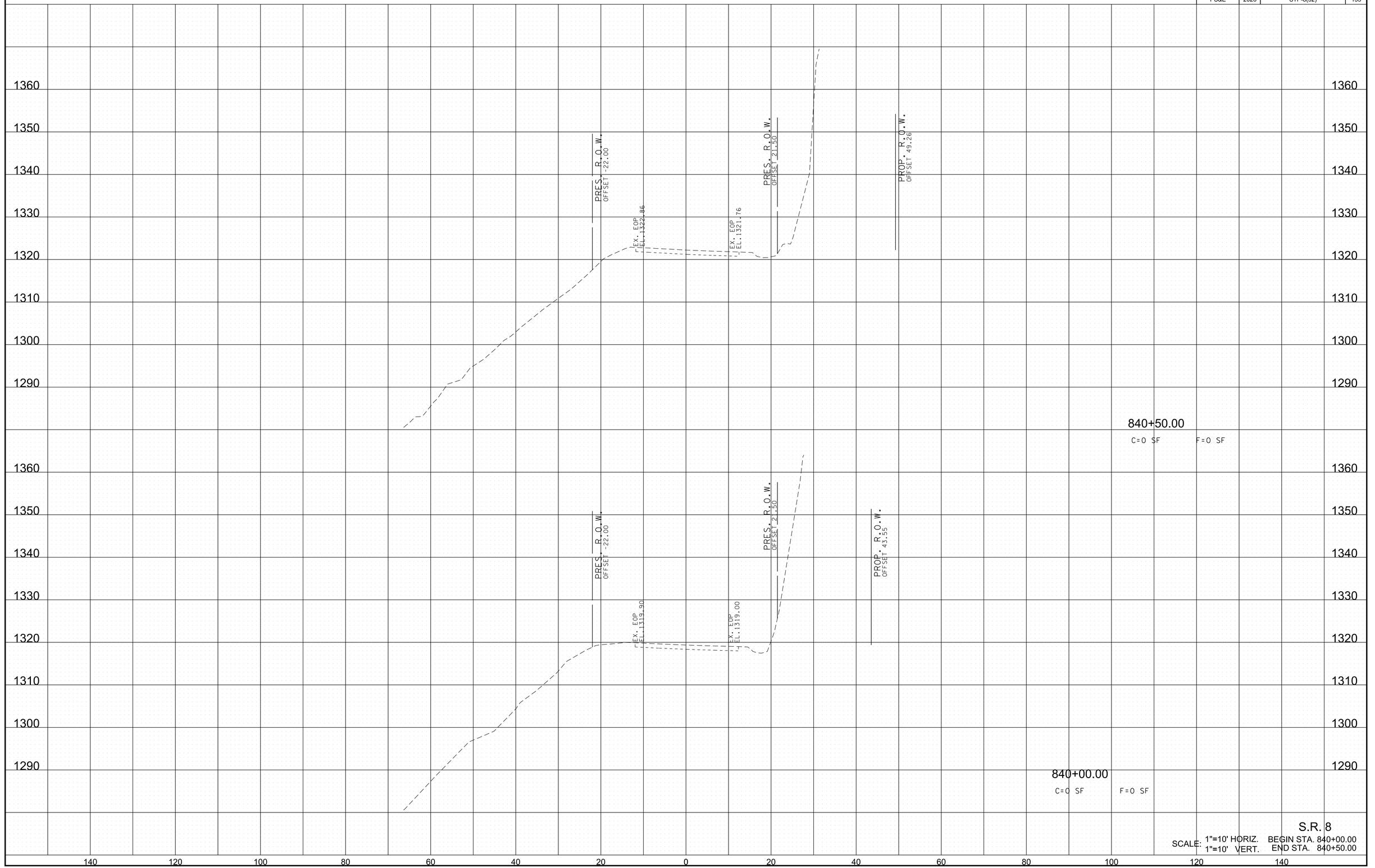


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 839+00.00
1"=10' VERT. END STA. 839+50.00

6/29/2026 8:20:58 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	134
PS&E	2026	STP-8(52)	135

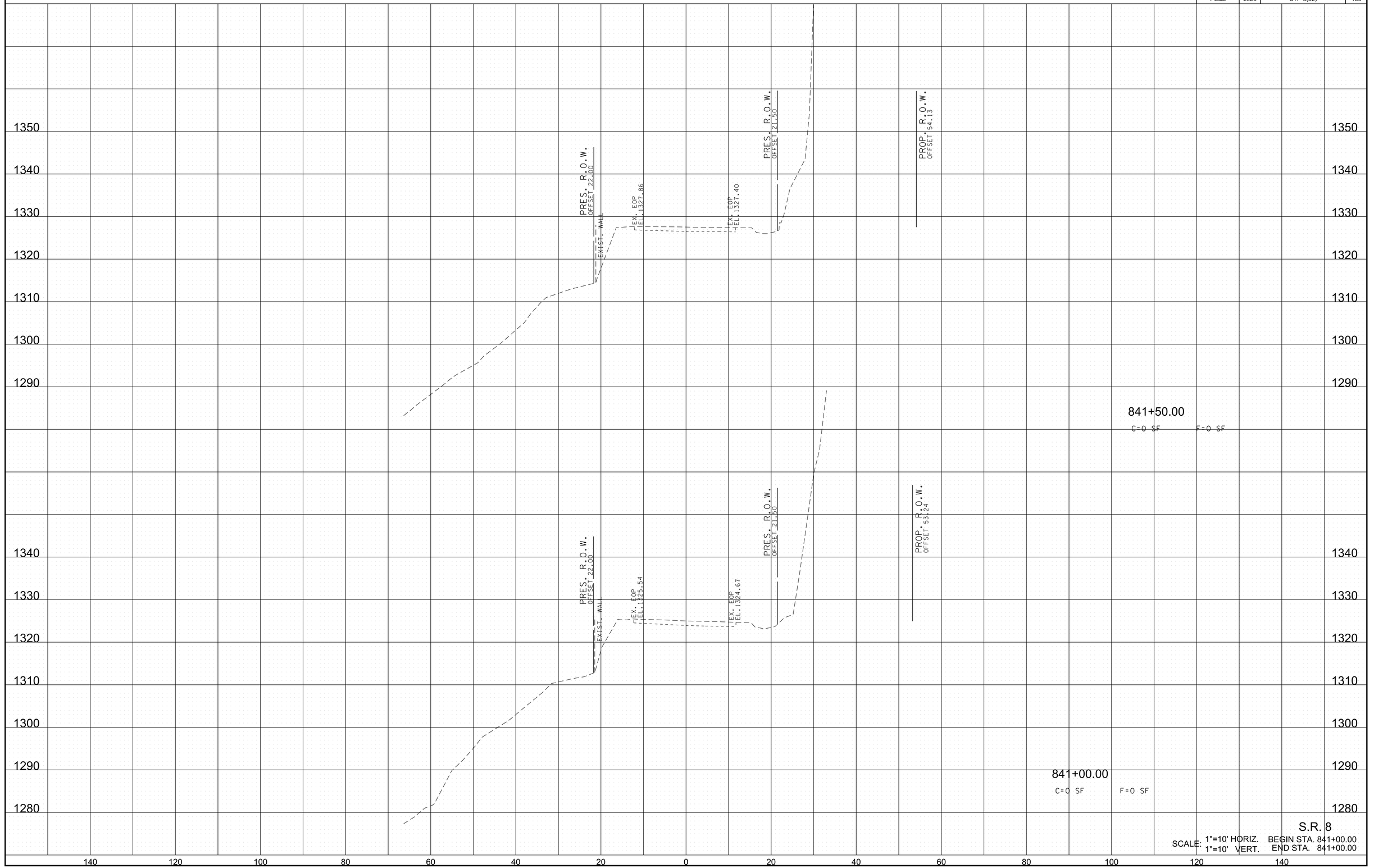


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 840+00.00
1"=10' VERT. END STA. 840+50.00

6/29/2026 8:21:35 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	135
PS&E	2026	STP-8(52)	136

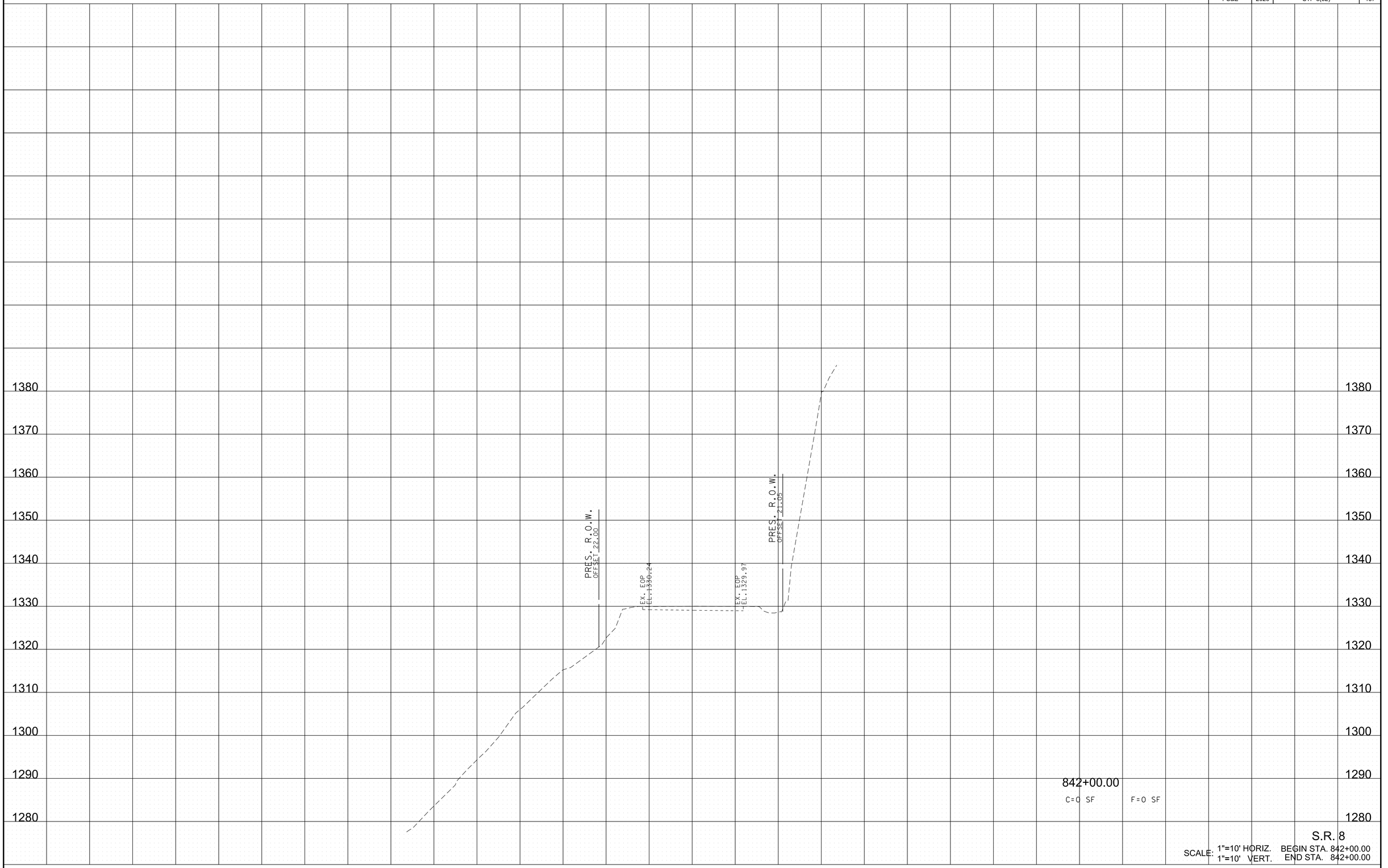


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 841+00.00
1"=10' VERT. END STA. 841+00.00

6/29/2026 8:21:37 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	136
PS&E	2026	STP-8(52)	137

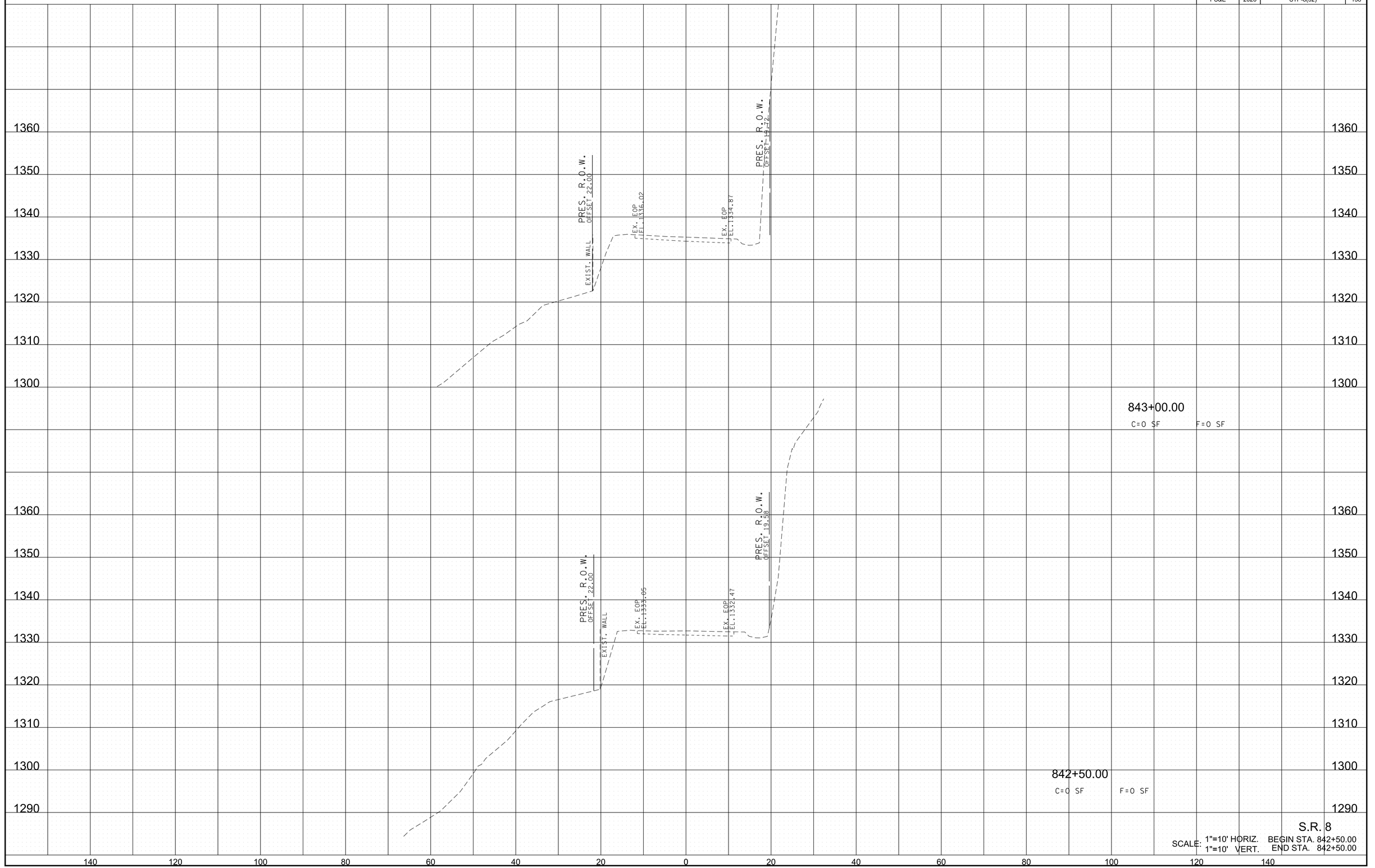


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 842+00.00
1"=10' VERT. END STA. 842+00.00

6/29/2026 8:21:40 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	137
PS&E	2026	STP-8(52)	138

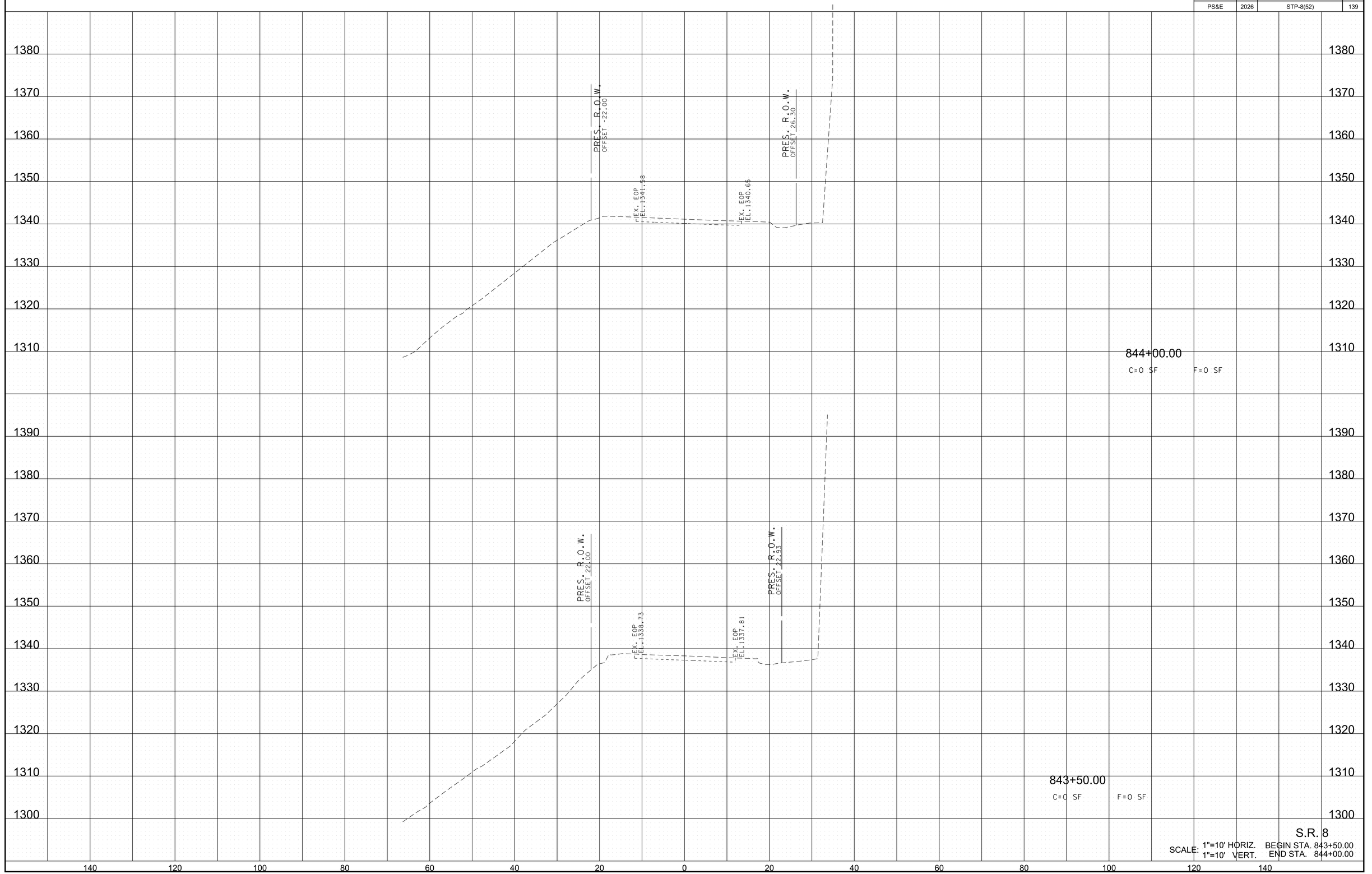


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 842+50.00
1"=10' VERT. END STA. 843+00.00

6/29/2026 8:21:42 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	138
PS&E	2026	STP-8(52)	139

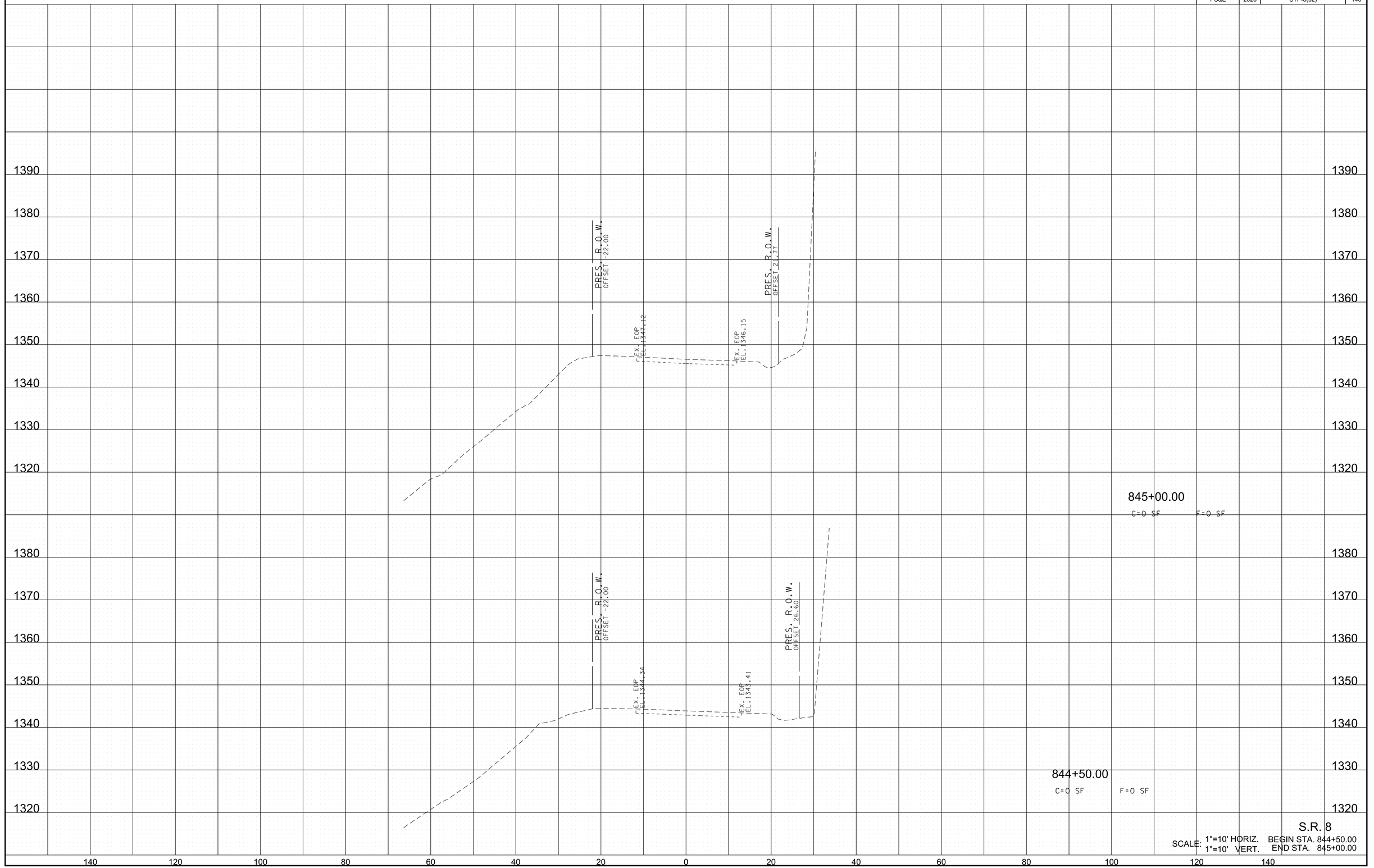


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 843+50.00
1"=10' VERT. END STA. 844+00.00

6/29/2026 8:21:45 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	139
PS&E	2026	STP-8(52)	140

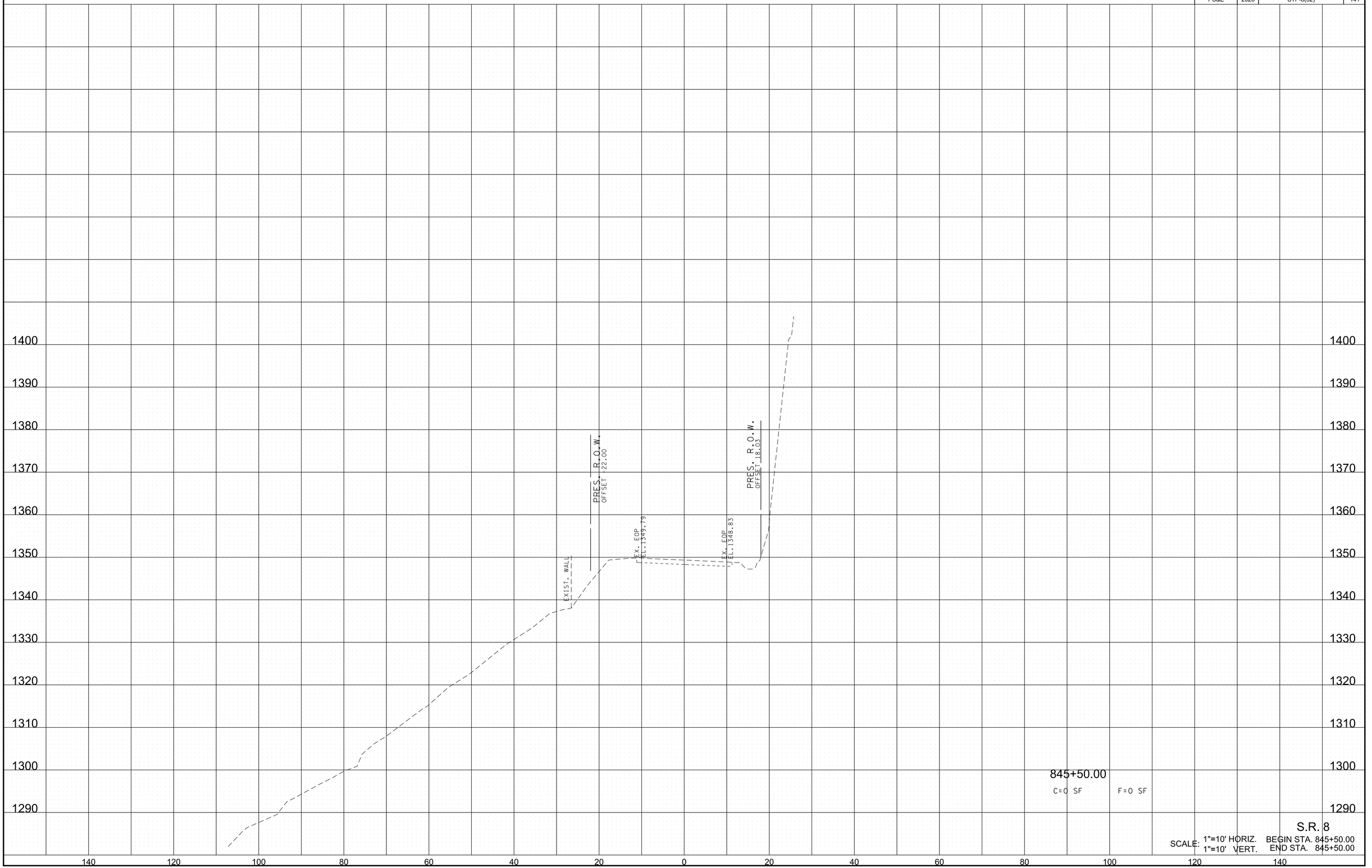


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 844+50.00
1"=10' VERT. END STA. 845+00.00

6/29/2026 8:21:47 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	140
PS&E	2026	STP-8(52)	141

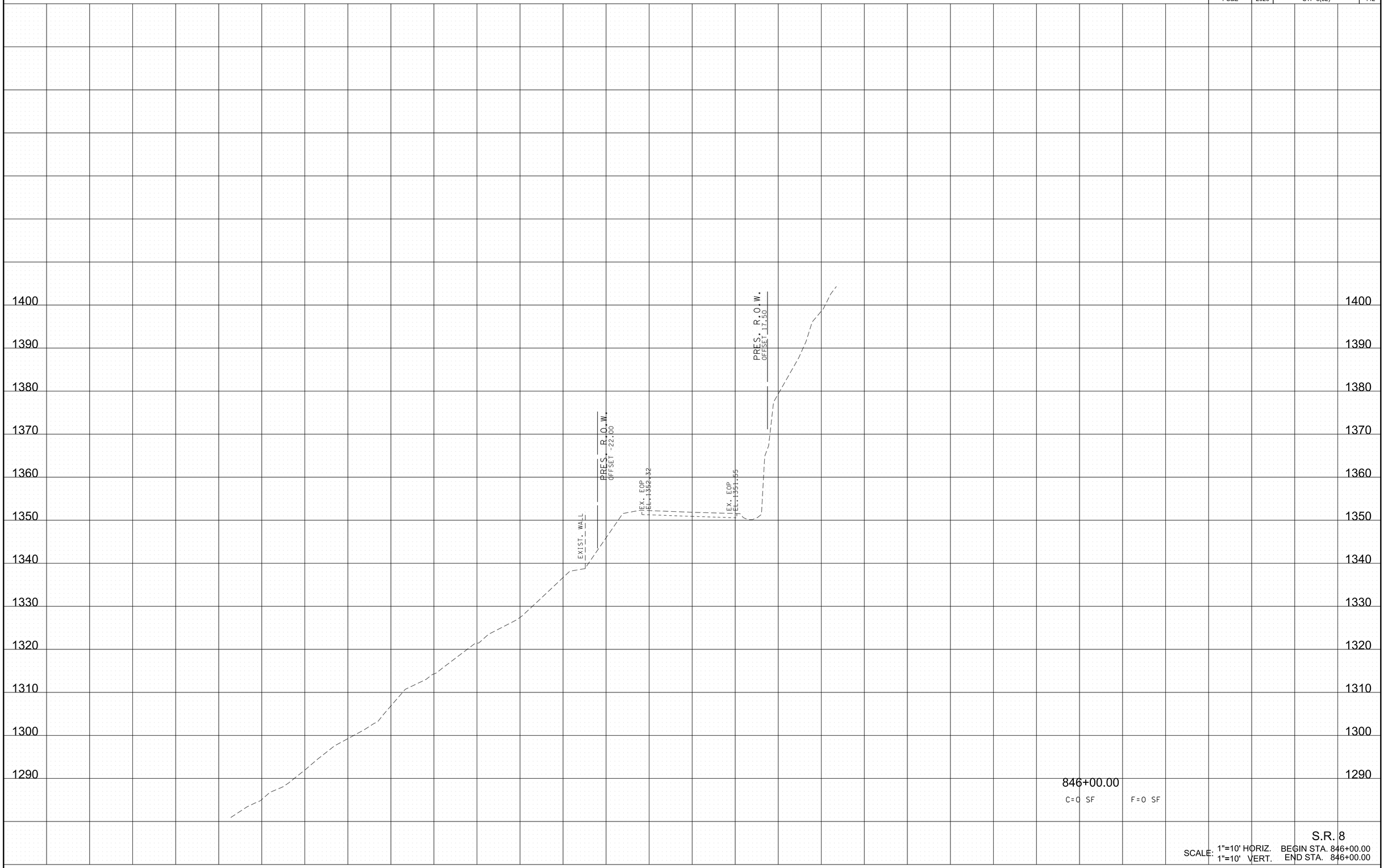


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 845+50.00
1"=10' VERT. END STA. 845+50.00

6/29/2026 8:21:49 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	141
PS&E	2026	STP-8(52)	142

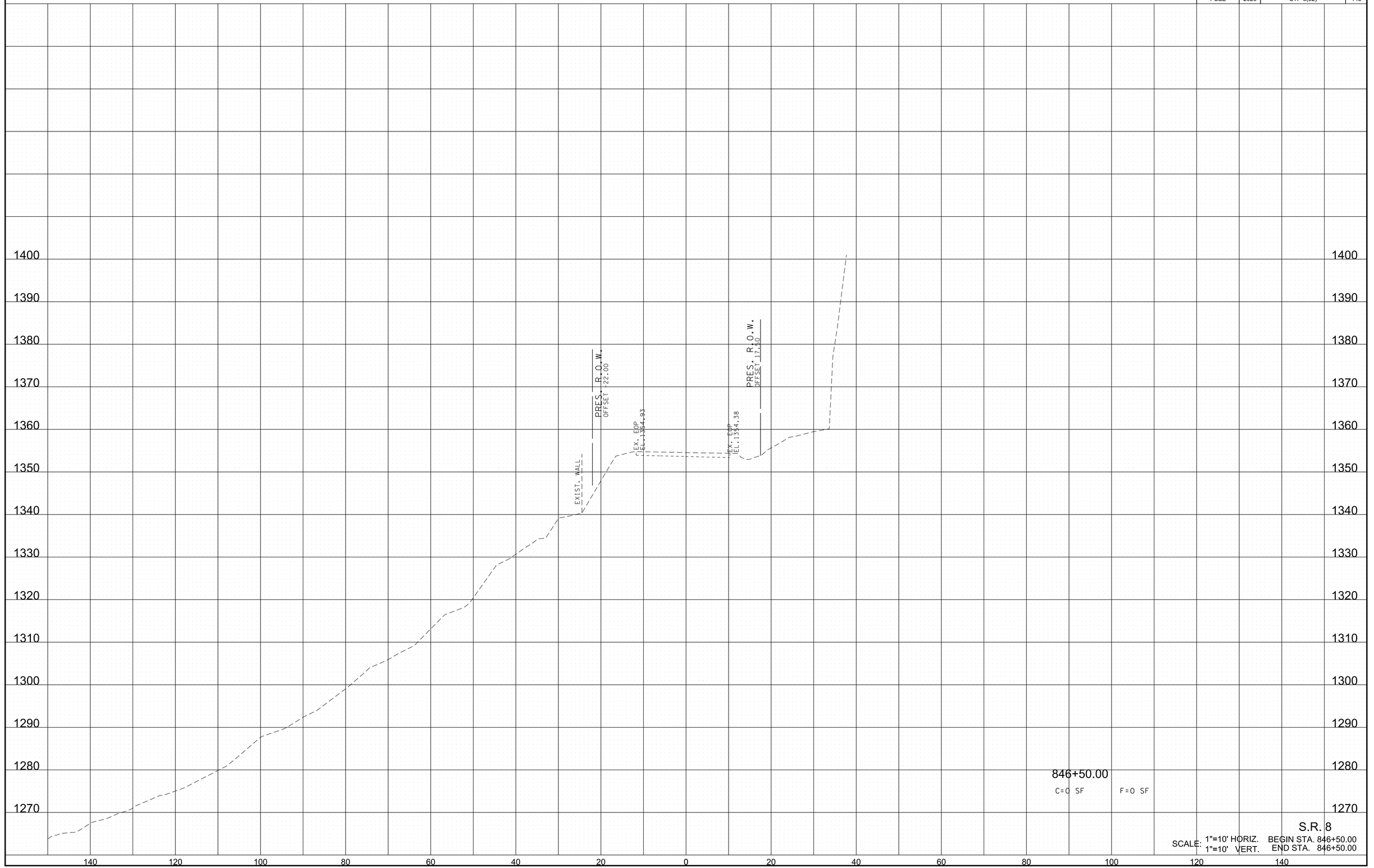


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 846+00.00
1"=10' VERT. END STA. 846+00.00

6/29/2026 8:21:52 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	142
PS&E	2026	STP-8(52)	143

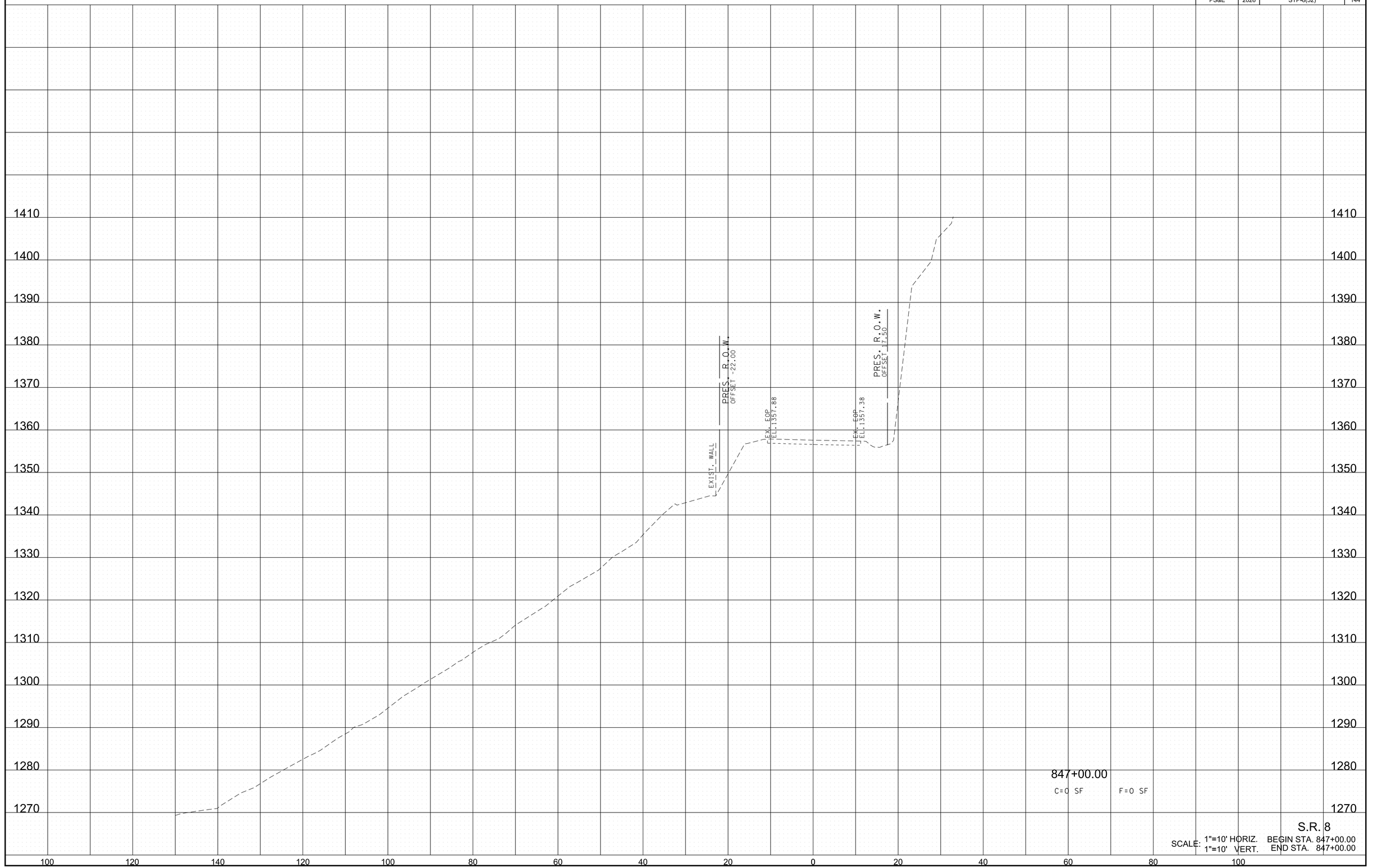


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 846+50.00
1"=10' VERT. END STA. 846+50.00

6/29/2026 8:21:54 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	143
PS&E	2026	STP-8(52)	144

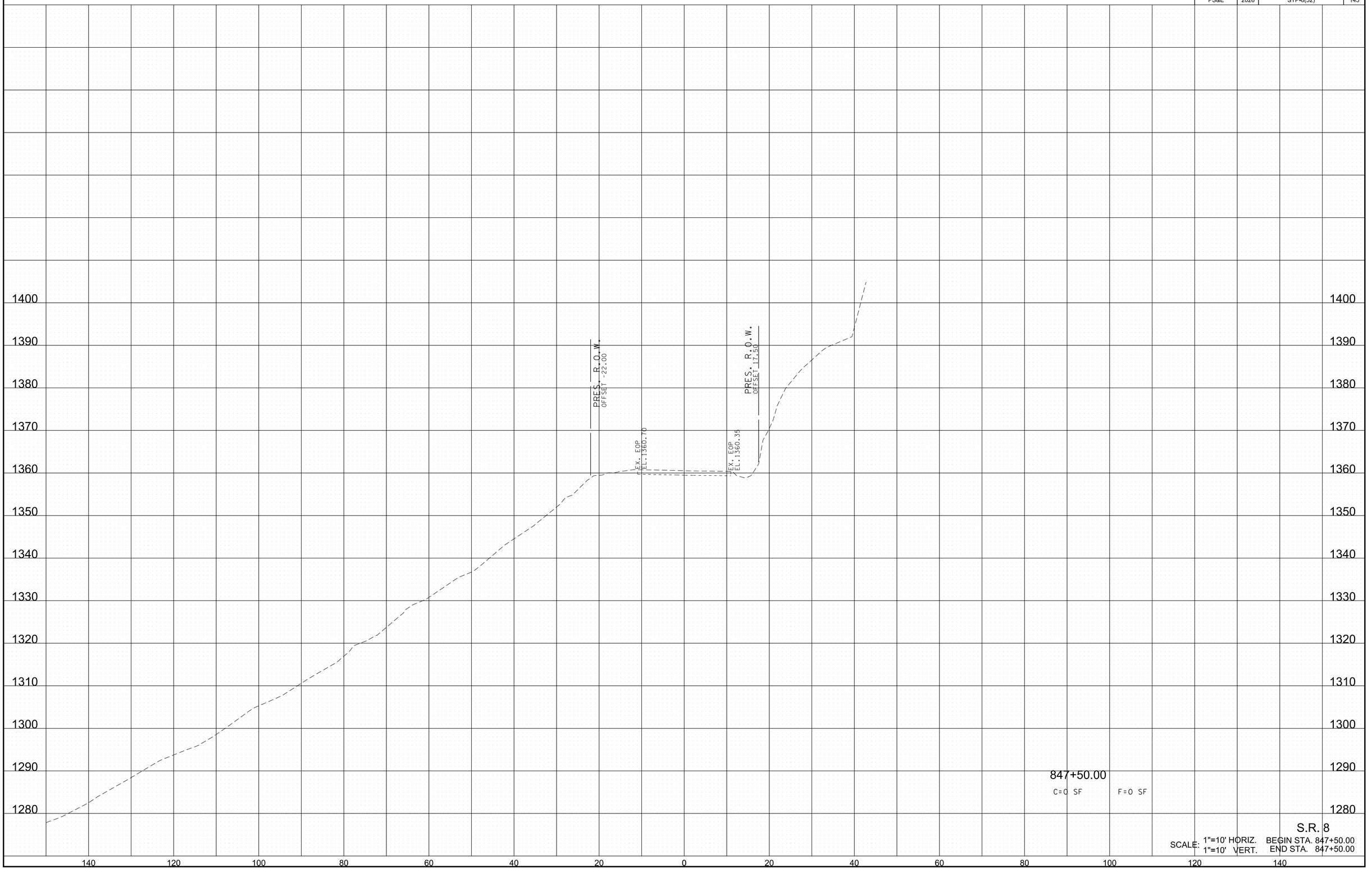


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 847+00.00
1"=10' VERT. END STA. 847+00.00

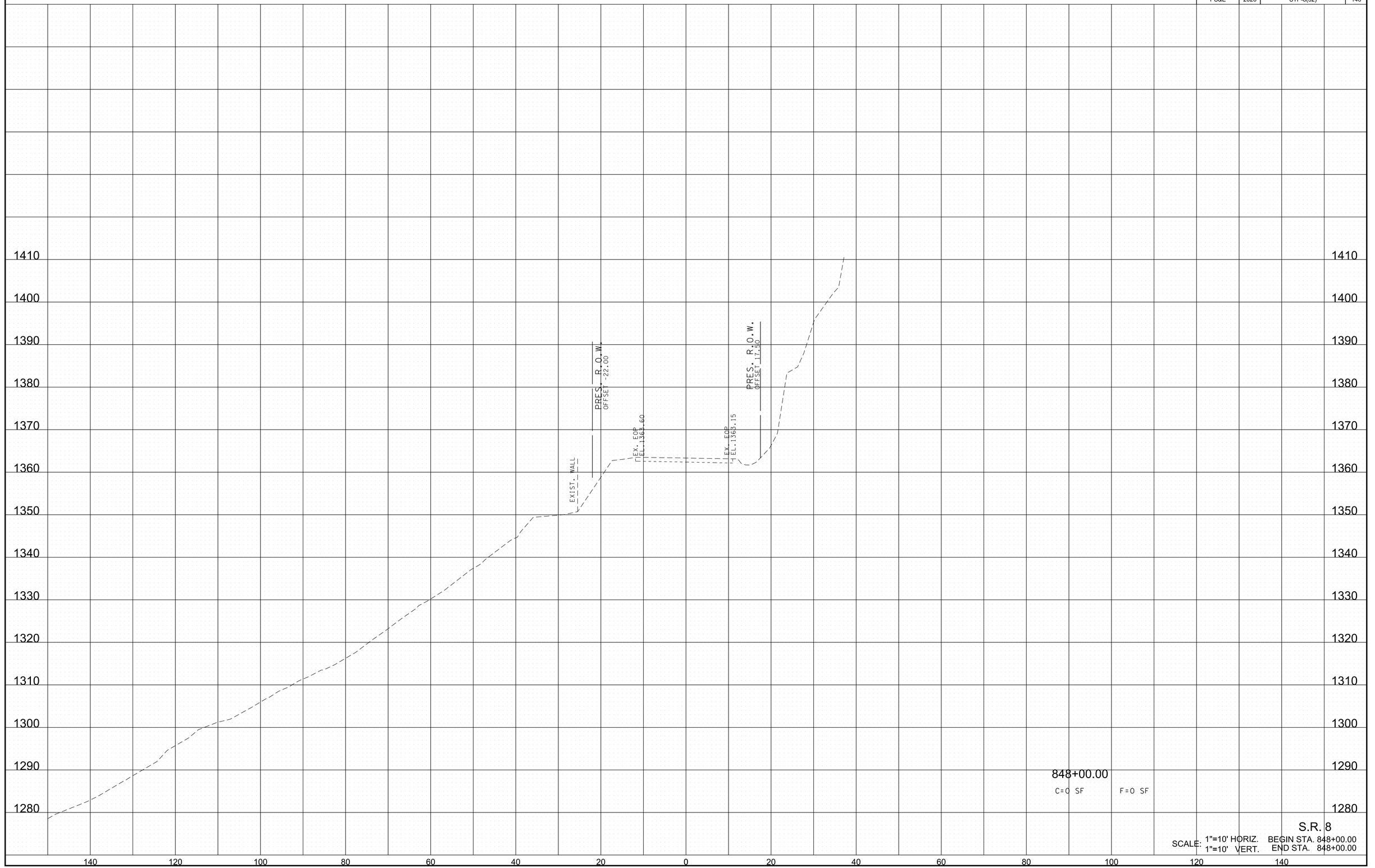
6/29/2026 8:21:56 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	144
PS&E	2026	STP-8(52)	145



6/29/2026 8:21:58 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	145
PS&E	2026	STP-8(52)	146



848+00.00

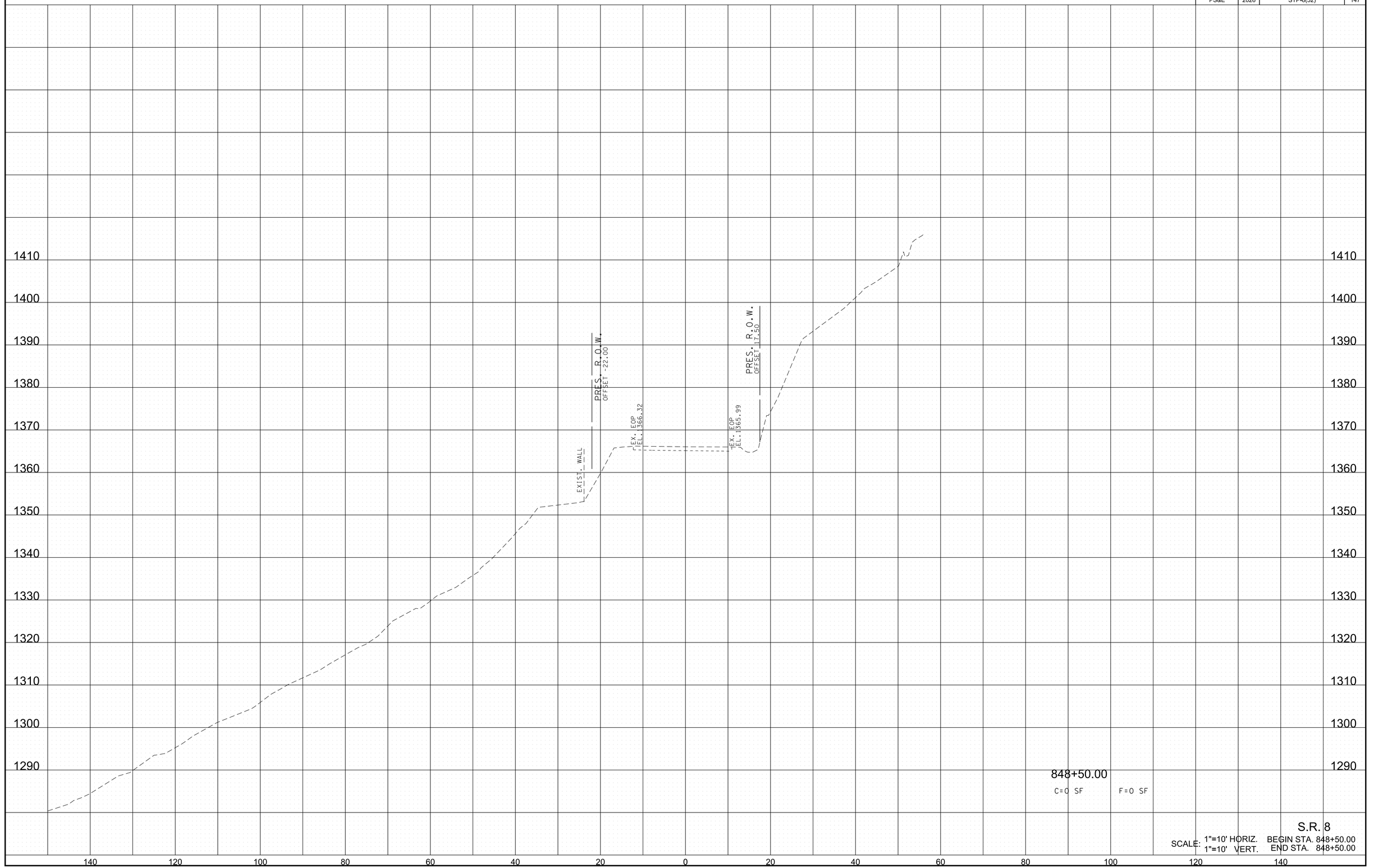
C=0 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 848+00.00
1"=10' VERT. END STA. 848+00.00

6/29/2026 8:22:00 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	146
PS&E	2026	STP-8(52)	147

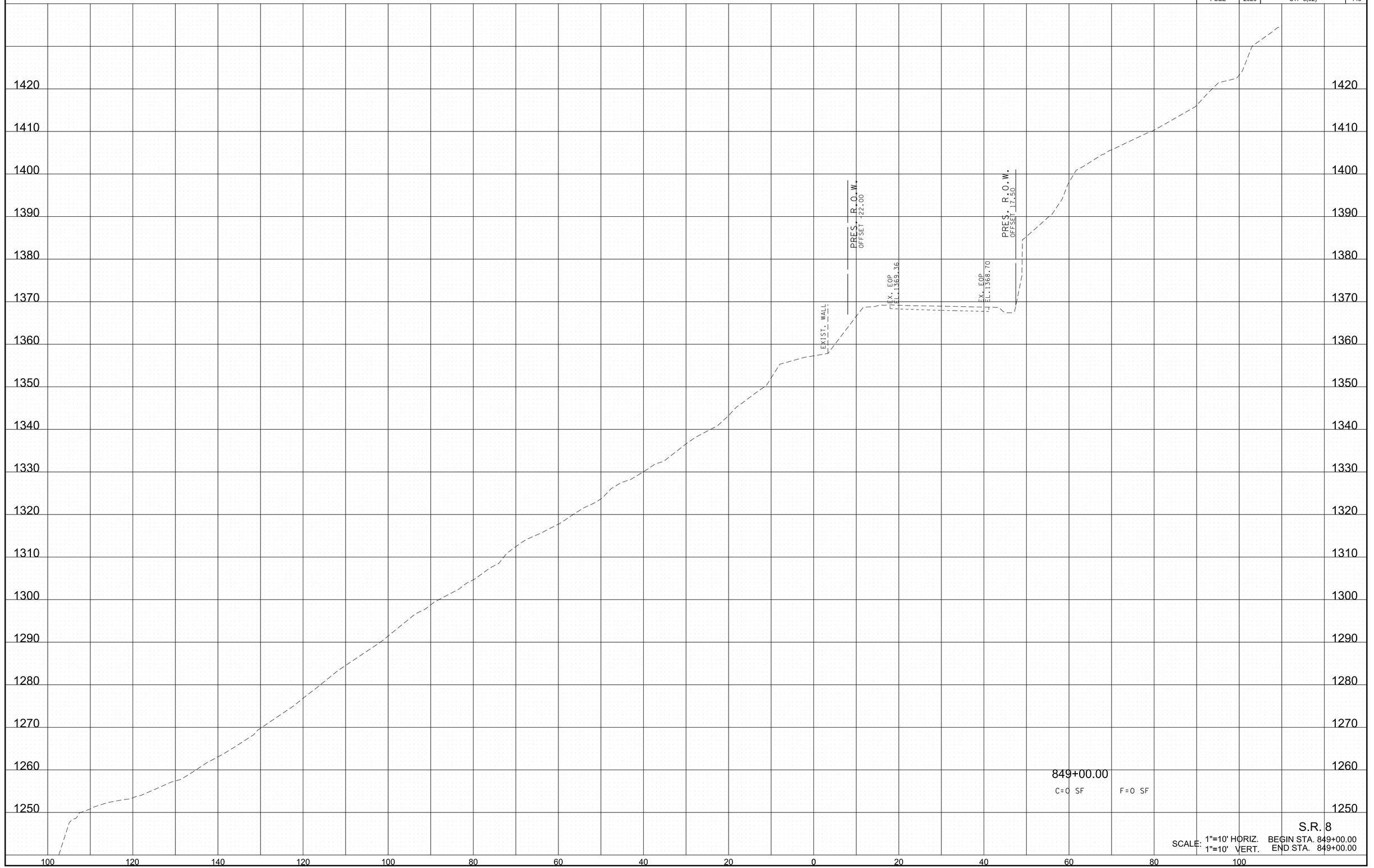


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 848+50.00
1"=10' VERT. END STA. 848+50.00

6/29/2026 8:22:02 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	147
PS&E	2026	STP-8(52)	148

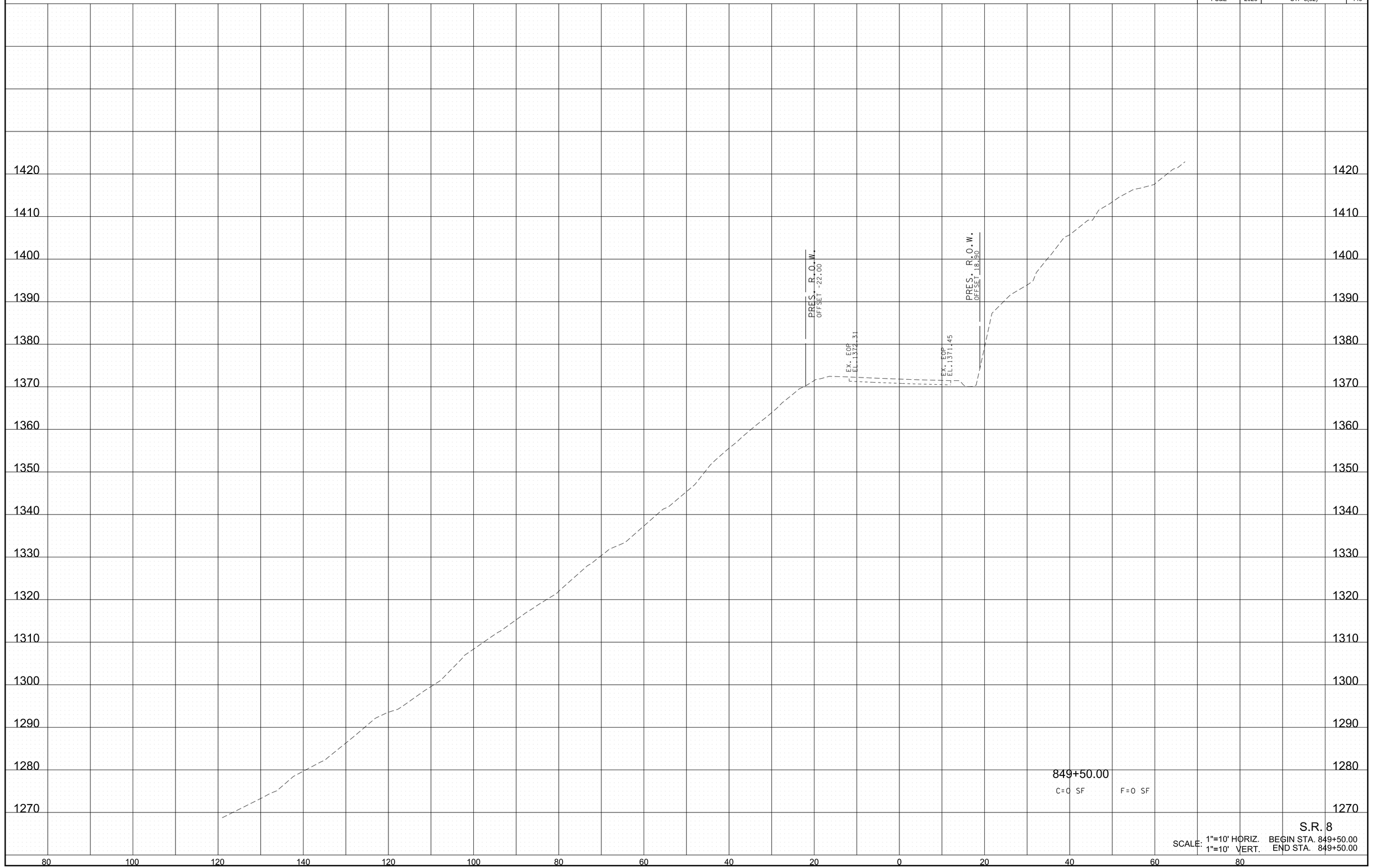


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 849+00.00
1"=10' VERT. END STA. 849+00.00

6/29/2026 8:22:04 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	148
PS&E	2026	STP-8(52)	149



S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT. BEGIN STA. 849+50.00 END STA. 849+50.00

6/29/2026 8:22:06 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	149
PS&E	2026	STP-8(52)	150

PRES. R.O.W.
OFFSET -22.00

EX. EOP
EL. 1375.38

EX. EOP
EL. 1374.24

PRES. R.O.W.
OFFSET 19.84

850+00.00

C=0 SF F=0 SF

S.R. 8

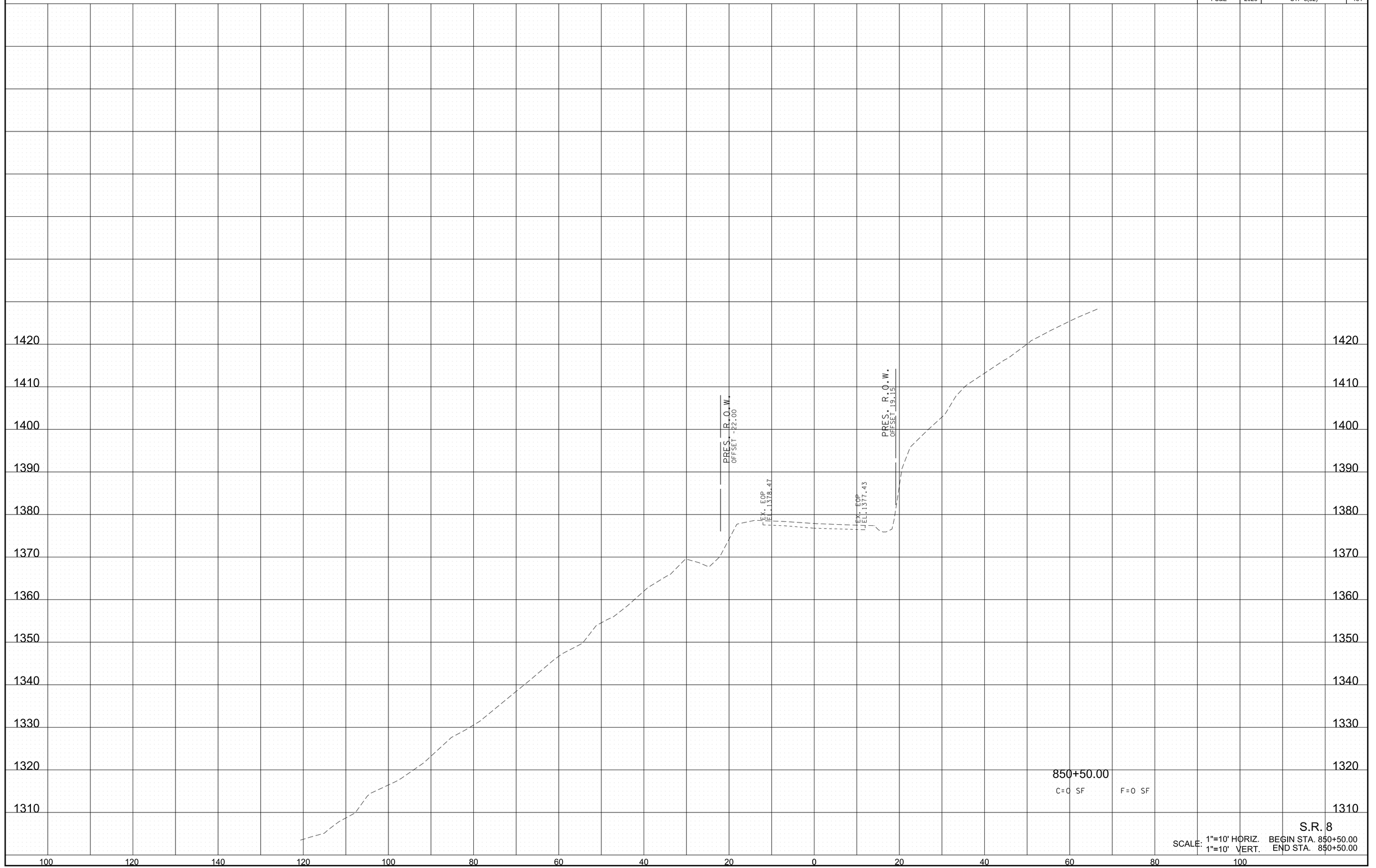
SCALE: 1"=10' HORIZ. BEGIN STA. 850+00.00
1"=10' VERT. END STA. 850+00.00

1420 1410 1400 1390 1380 1370 1360 1350 1340 1330 1320 1310 1300

100 120 140 120 100 80 60 40 20 0 20 40 60 80 100

6/29/2026 8:22:09 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	150
PS&E	2026	STP-8(52)	151

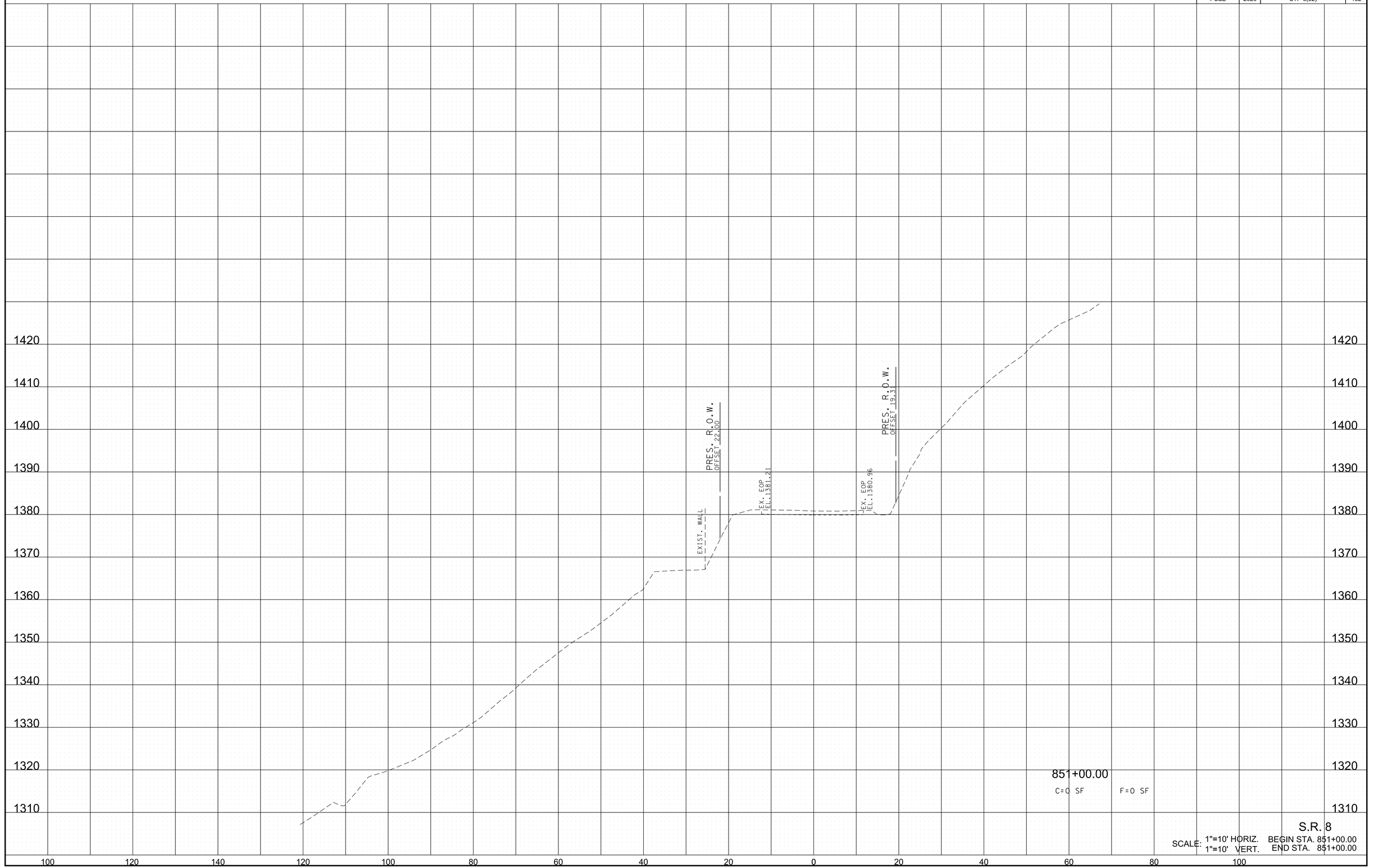


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 850+50.00
1"=10' VERT. END STA. 850+50.00

6/29/2026 8:22:11 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	151
PS&E	2026	STP-8(52)	152

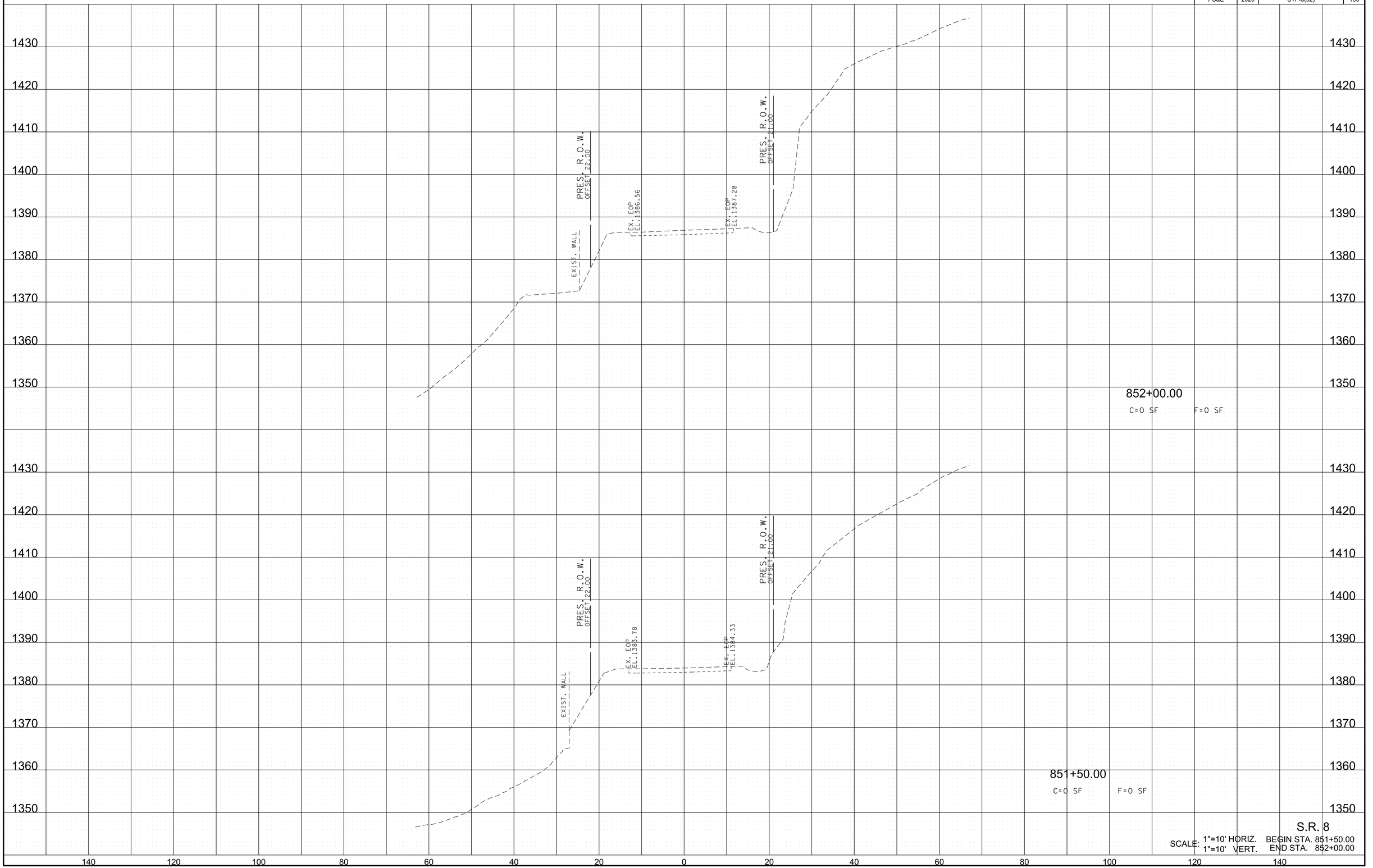


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 851+00.00
1"=10' VERT. END STA. 851+00.00

6/29/2026 8:22:13 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	152
PS&E	2026	STP-8(52)	153

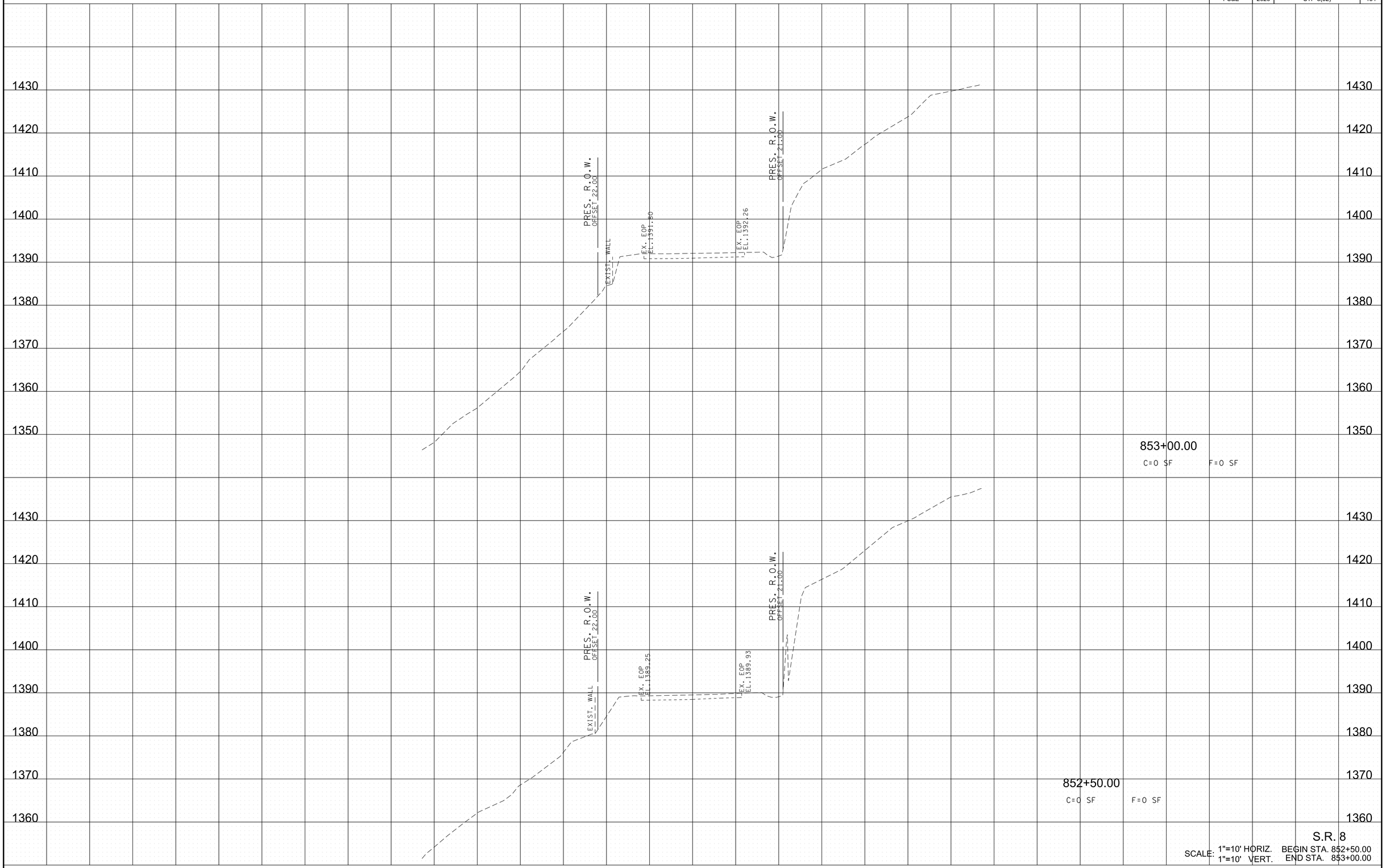


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 851+50.00
1"=10' VERT. END STA. 852+00.00

6/29/2026 8:22:15 PM
c:\pw_work\arcadlspw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	153
PS&E	2026	STP-8(52)	154

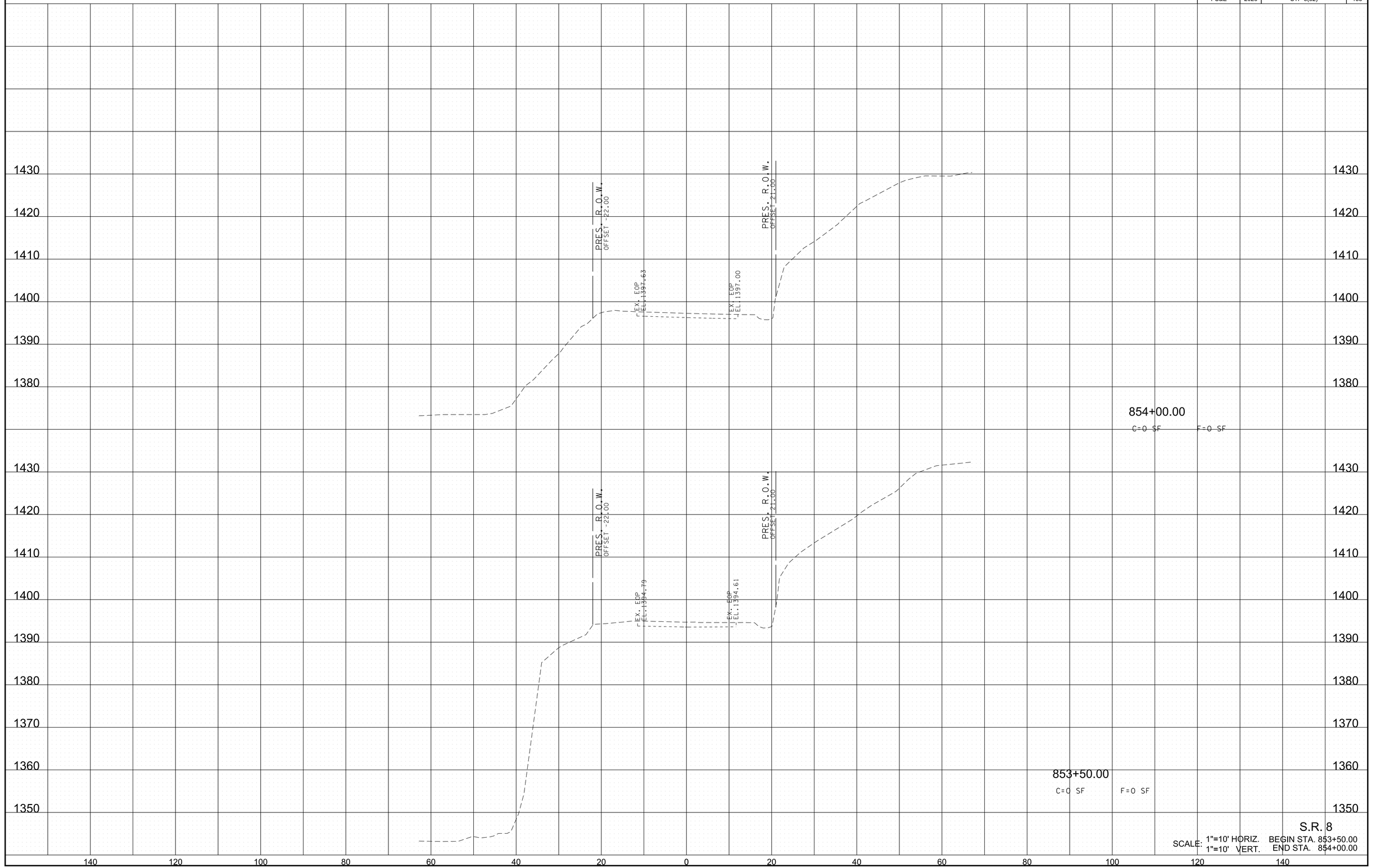


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 852+50.00
1"=10' VERT. END STA. 853+00.00

6/29/2026 8:22:17 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	154
PS&E	2026	STP-8(52)	155

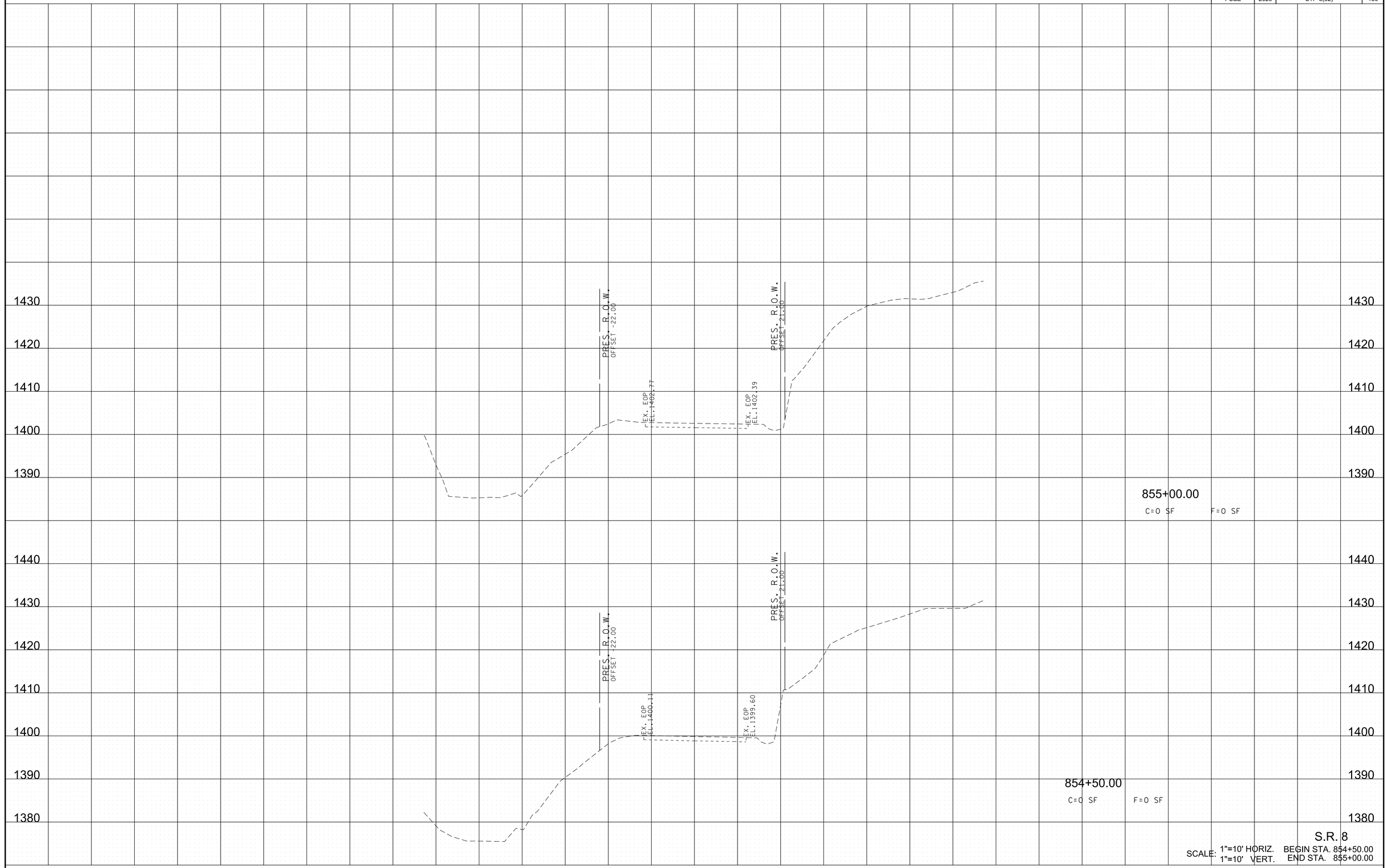


S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT. BEGIN STA. 853+50.00 END STA. 854+00.00

6/29/2026 8:22:19 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	155
PS&E	2026	STP-8(52)	156



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 854+50.00
1"=10' VERT. END STA. 855+00.00

6/29/2026 8:22:21 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	156
PS&E	2026	STP-8(52)	157

856+50.00
C=0 SF F=0 SF

856+00.00
C=0 SF F=0 SF

855+50.00
C=0 SF F=0 SF

PRES. R.O.W. OFFSET -22.00
PRES. R.O.W. OFFSET -21.00
EX. EOP EL.1410.82
EX. EOP EL.1410.33
EX. EOP EL.1408.23
EX. EOP EL.1407.63
EX. EOP EL.1405.57
EX. EOP EL.1405.06

1450 1440 1430 1420 1410 1400 1390

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

S.R. 8
SCALE: 1"=10' HORIZ. BEGIN STA. 855+50.00
1"=10' VERT. END STA. 856+50.00

6/29/2026 8:22:23 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	157
PS&E	2026	STP-8(52)	158

858+00.00
C=0 SF F=0 SF

PRES. R.O.W.
OFFSET -22.00
EX. EOP
EL. 1418.84

PRES. R.O.W.
OFFSET 25.48
EX. EOP
EL. 1418.58

857+50.00
C=0 SF F=0 SF

PRES. R.O.W.
OFFSET -22.00
EX. EOP
EL. 1416.18

PRES. R.O.W.
OFFSET 21.82
EX. EOP
EL. 1415.97

857+00.00
C=0 SF F=0 SF

PRES. R.O.W.
OFFSET -22.00
EX. EOP
EL. 1413.48

PRES. R.O.W.
OFFSET 21.00
EX. EOP
EL. 1413.30

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 857+00.00
1"=10' VERT. END STA. 858+00.00

6/29/2026 8:22:25 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	158
PS&E	2026	STP-8(52)	159

REV. 4-23-25, REVISED PROPOSED DITCH AT STA. 858+50.00.

1470
1460
1450
1440
1430

PRES. R.O.W. OFFSET -32.07

EX. EOP EL.1427.13

SEE SHOAL CREEK ROAD CROSS SECTIONS

859+50.00
C=0 SF F=0 SF

1470
1460
1450
1440
1430
1420

PRES. R.O.W. OFFSET -33.54

EX. EOP EL.1424.36

SEE SHOAL CREEK ROAD CROSS SECTIONS

859+00.00
C=0 SF F=0 SF

1460
1450
1440
1430
1420
1410

PRES. R.O.W. OFFSET -36.88

EX. EOP EL.1421.61

EX. EOP EL.1421.28

EL.1420.32

PRES. R.O.W. OFFSET -42.87

858+50.00
C=0 SF F=0 SF

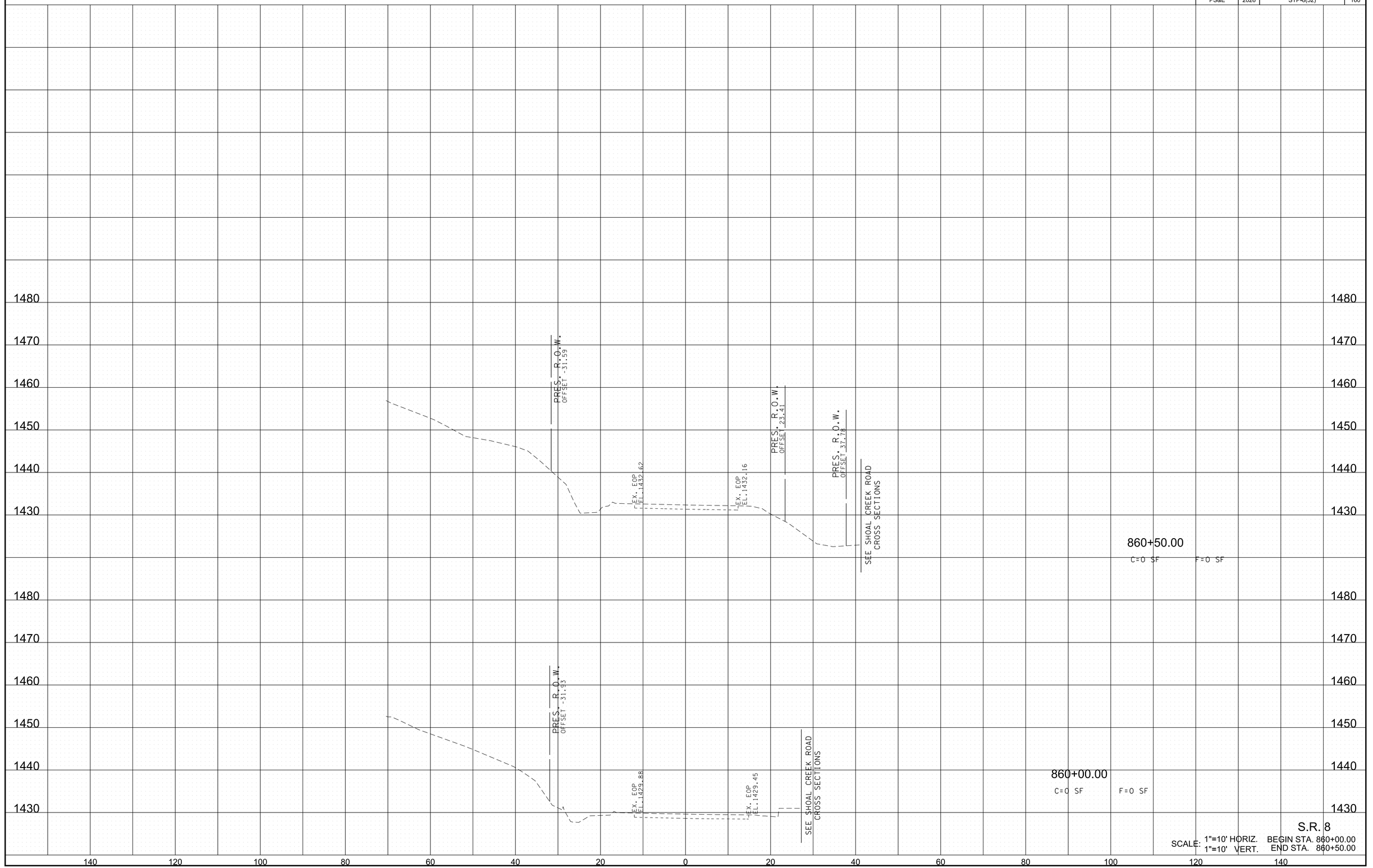
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 858+50.00
1"=10' VERT. END STA. 859+50.00

6/29/2026 8:22:27 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	159
PS&E	2026	STP-8(52)	160

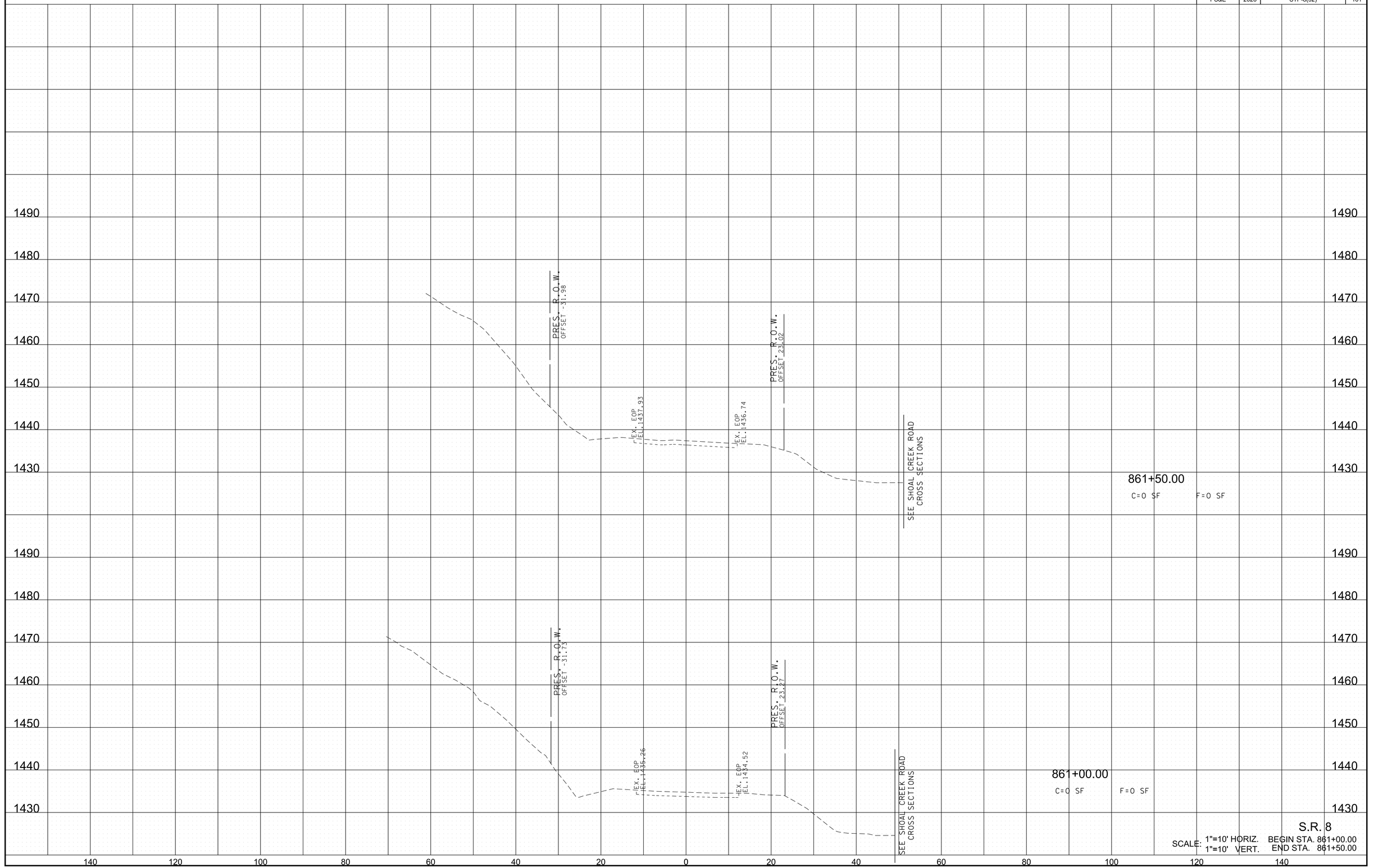


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 860+00.00
1"=10' VERT. END STA. 860+50.00

6/29/2026 8:22:30 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	160
PS&E	2026	STP-8(52)	161



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 861+00.00
1"=10' VERT. END STA. 861+50.00

6/29/2026 8:22:32 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	161
PS&E	2026	STP-8(52)	162

PRES. R.O.W.
OFFSET -27.98

PRES. R.O.W.
OFFSET 23.00

EX. EOP
EL.1445.42

EX. EOP
EL.1443.50

863+00.00
C=0 SF F=0 SF

PRES. R.O.W.
OFFSET -30.45

PRES. R.O.W.
OFFSET 23.00

EX. EOP
EL.1442.90

EX. EOP
EL.1441.19

862+50.00
C=0 SF F=0 SF

PRES. R.O.W.
OFFSET -31.78

PRES. R.O.W.
OFFSET 23.00

EX. EOP
EL.1440.53

EX. EOP
EL.1439.38

SEE SHOAL CREEK ROAD CROSS SECTIONS

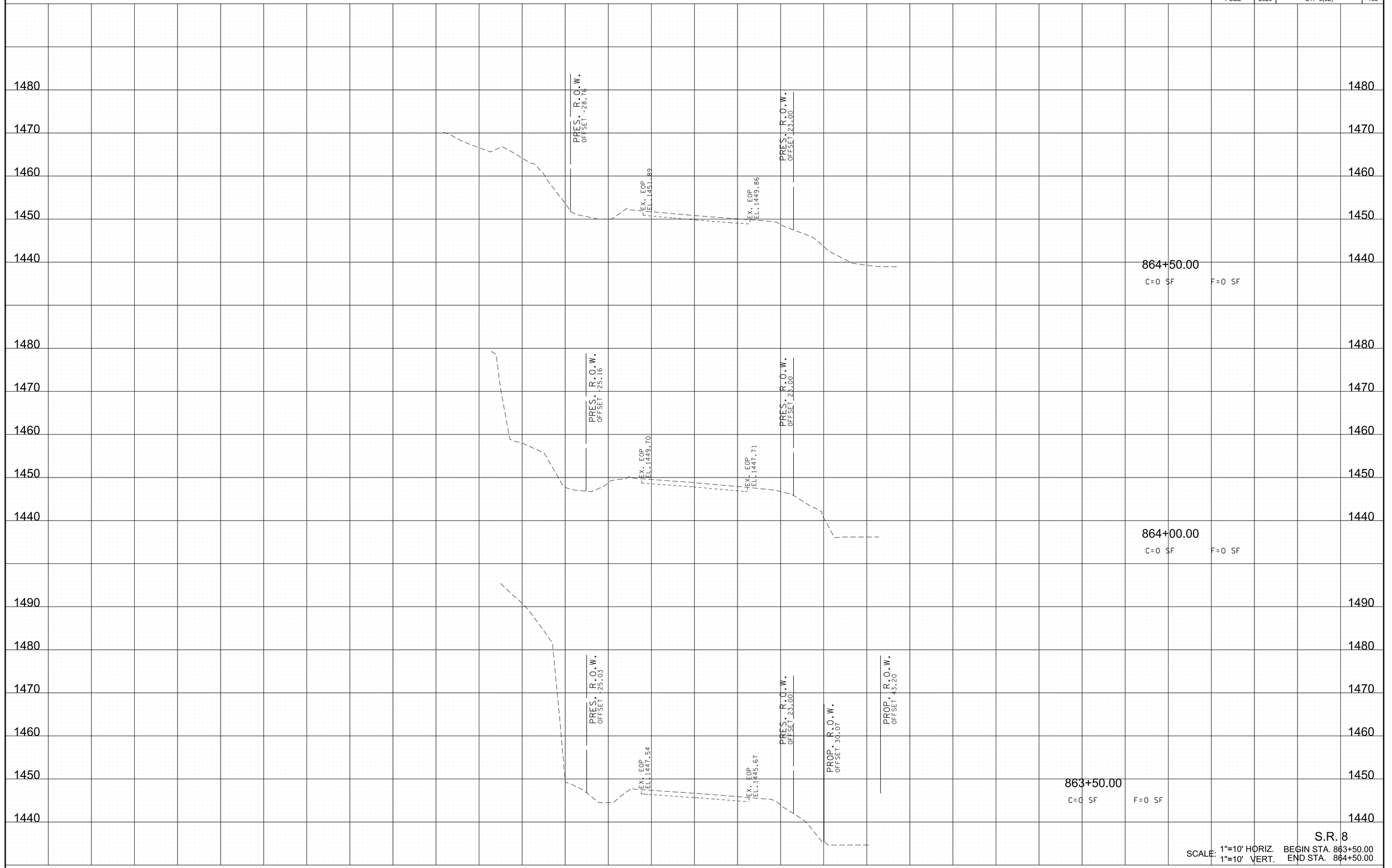
862+00.00
C=0 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 862+00.00
1"=10' VERT. END STA. 863+00.00

6/29/2026 8:22:34 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	162
PS&E	2026	STP-8(52)	163

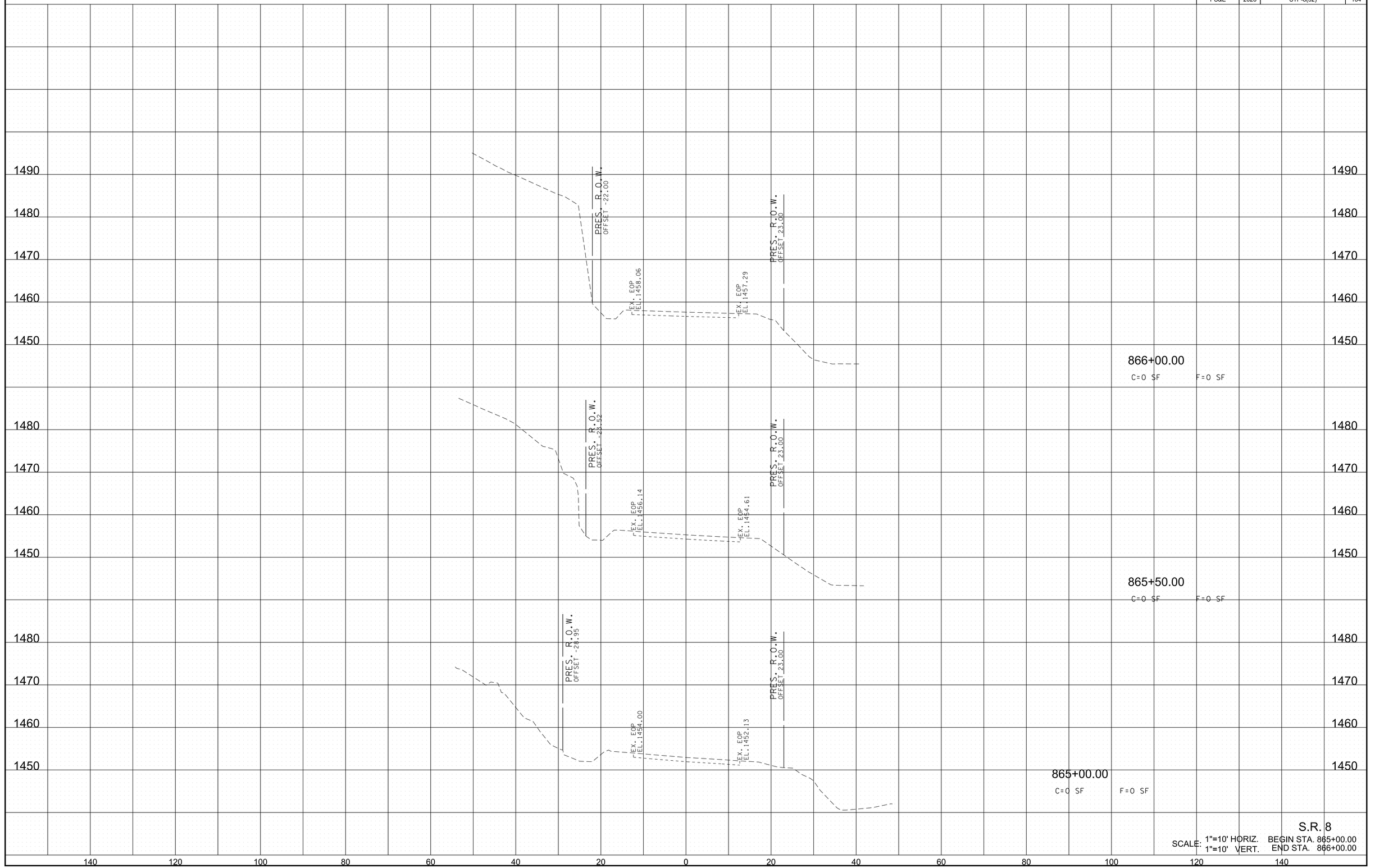


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 863+50.00
1"=10' VERT. END STA. 864+50.00

6/29/2026 8:22:36 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	163
PS&E	2026	STP-8(52)	164

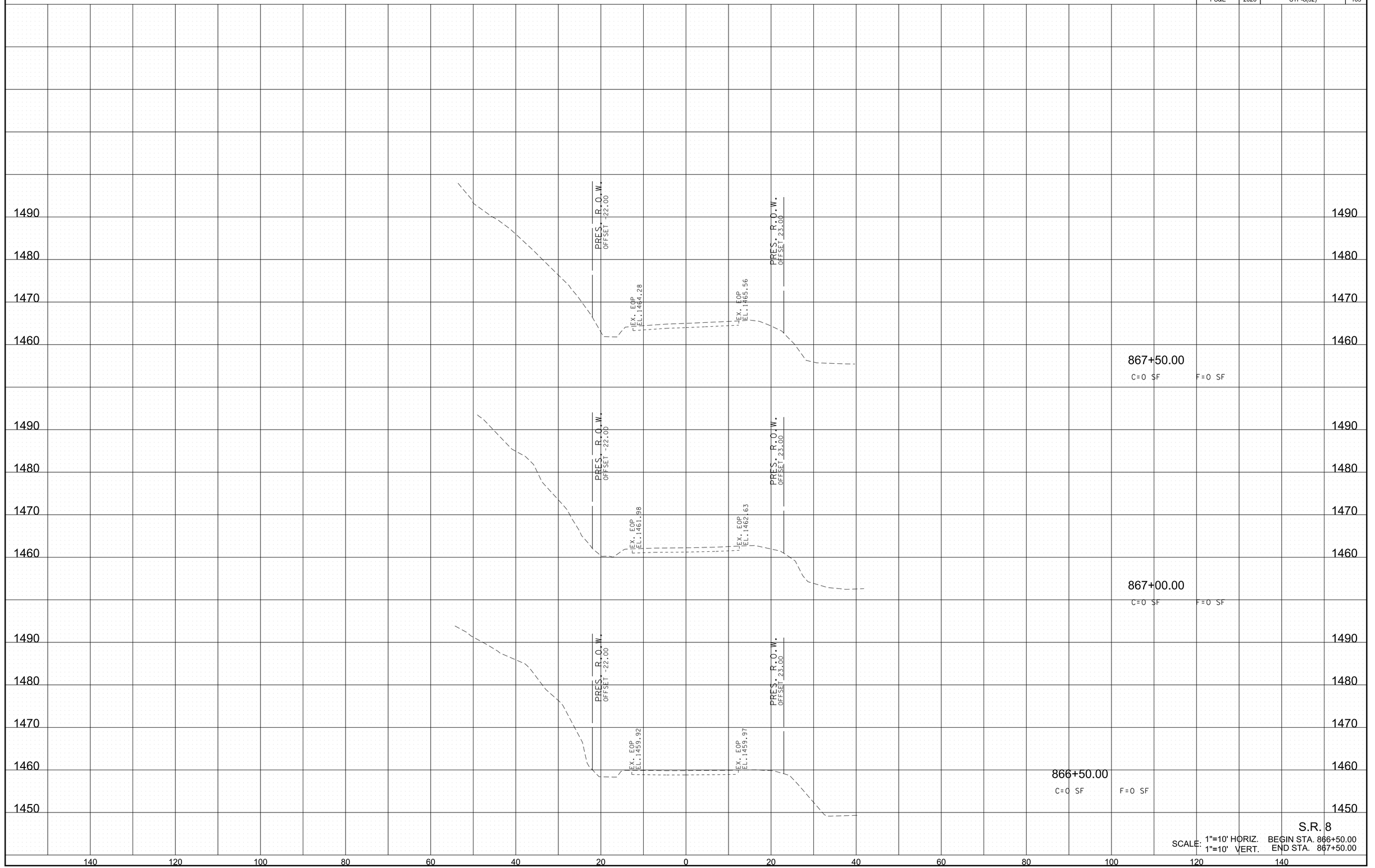


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 865+00.00
1"=10' VERT. END STA. 866+00.00

6/29/2026 8:22:38 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	164
PS&E	2026	STP-8(52)	165

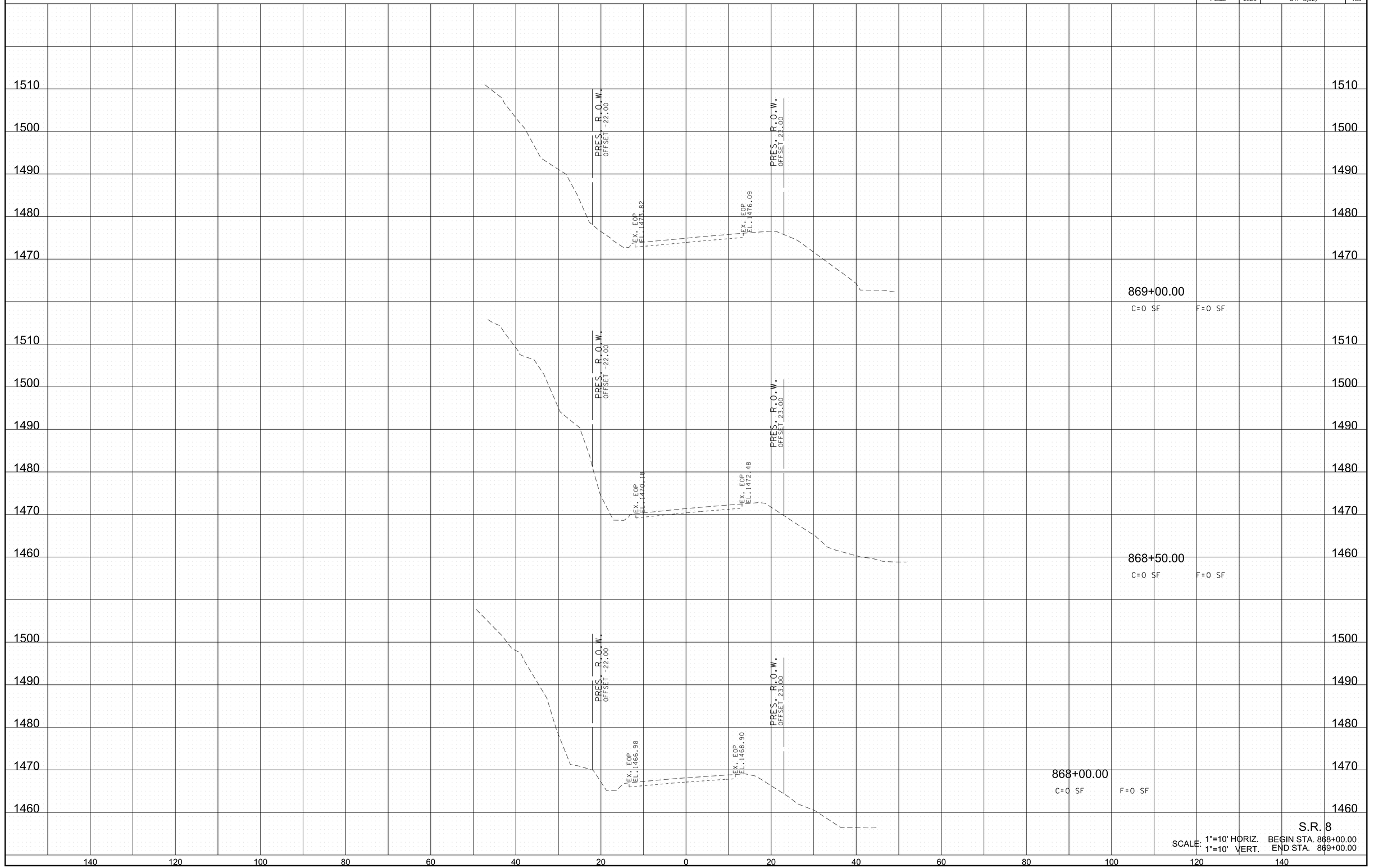


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 866+50.00
1"=10' VERT. END STA. 867+50.00

6/29/2026 8:22:41 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	165
PS&E	2026	STP-8(52)	166



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 868+00.00
1"=10' VERT. END STA. 869+00.00

6/29/2026 8:22:43 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	166
PS&E	2026	STP-8(52)	167

PRES. R.O.W. OFFSET -22.00

PRES. R.O.W. OFFSET 23.00

EX. EOP EL. 1486.36

EX. EOP EL. 1486.84

870+50.00

C=0 SF F=0 SF

EX. EOP EL. 1482.20

EX. EOP EL. 1483.35

870+00.00

C=0 SF F=0 SF

EX. EOP EL. 1477.94

EX. EOP EL. 1479.67

869+50.00

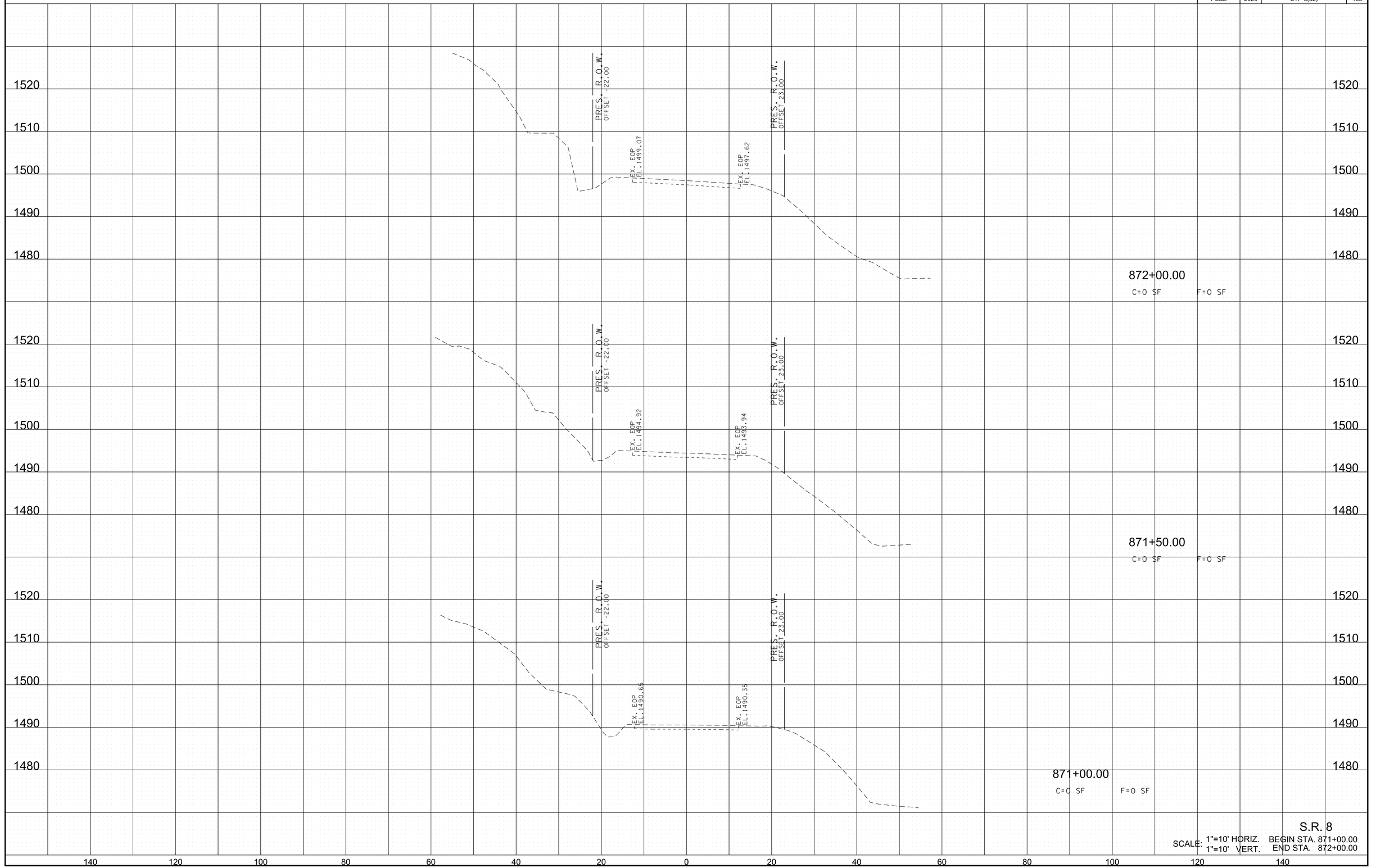
C=0 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 869+50.00
1"=10' VERT. END STA. 870+50.00

6/29/2026 8:22:46 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	167
PS&E	2026	STP-8(52)	168

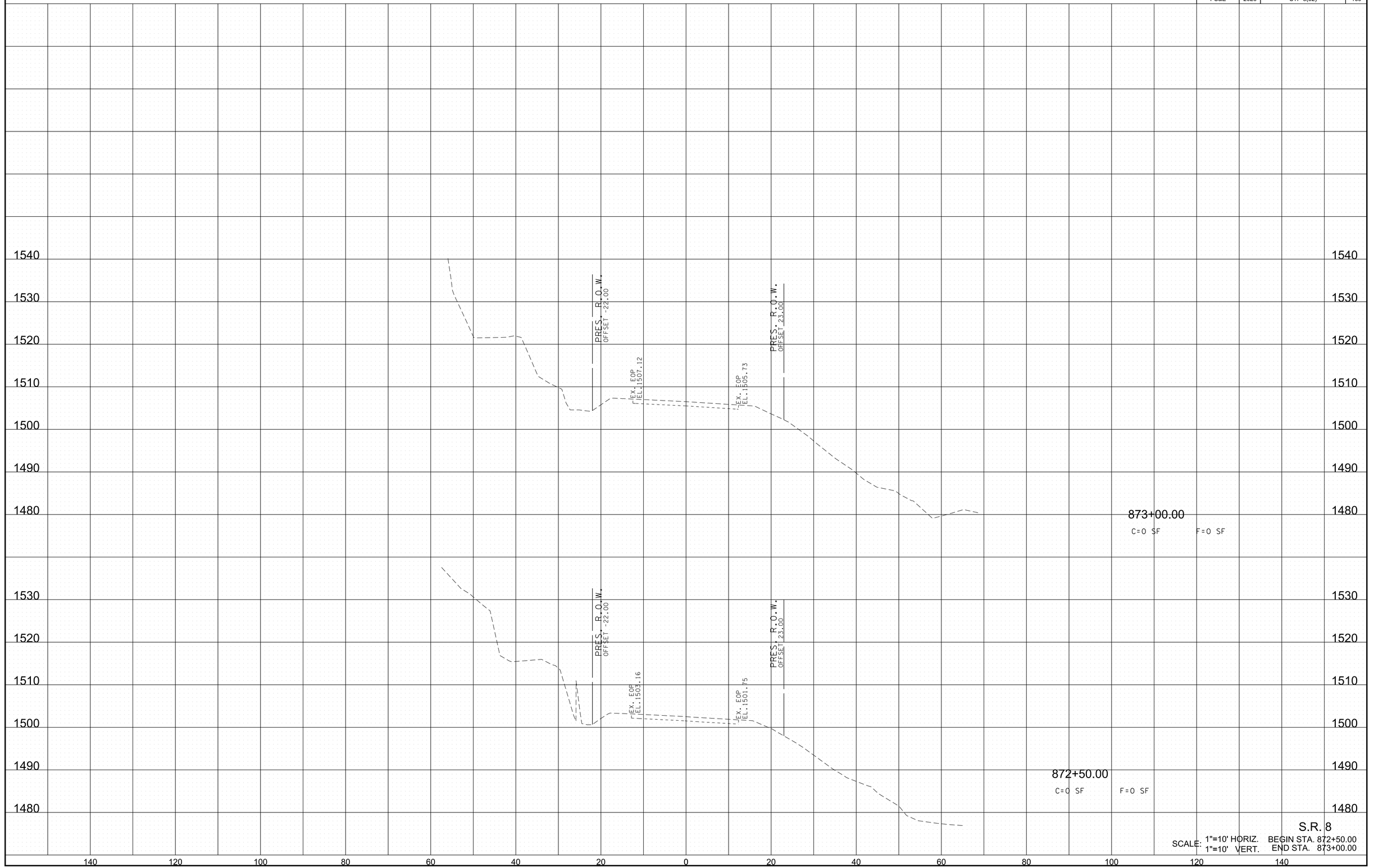


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 871+00.00
1"=10' VERT. END STA. 872+00.00

6/29/2026 8:22:49 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	168
PS&E	2026	STP-8(52)	169

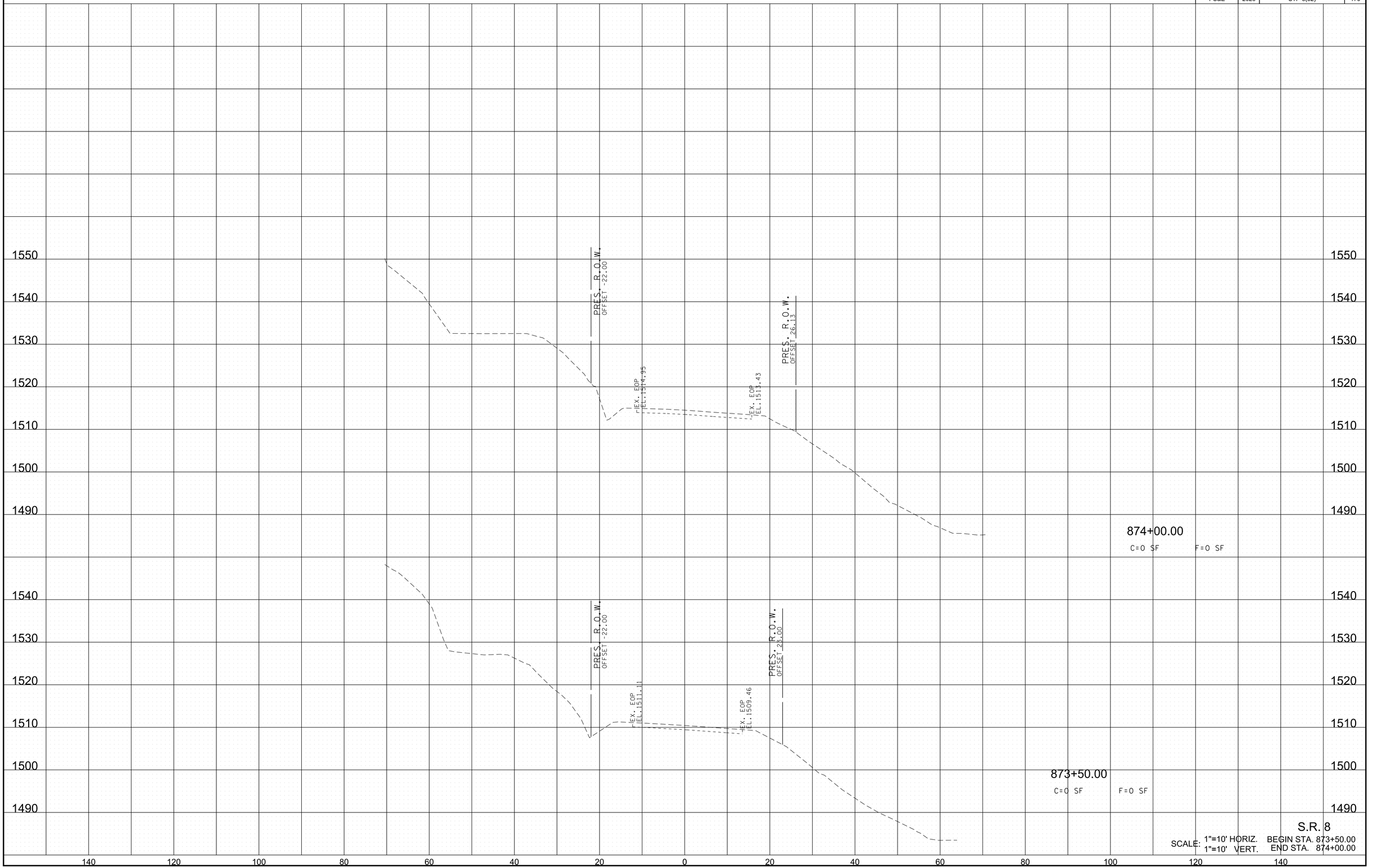


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 872+50.00
1"=10' VERT. END STA. 873+00.00

6/29/2026 8:22:52 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	169
PS&E	2026	STP-8(52)	170

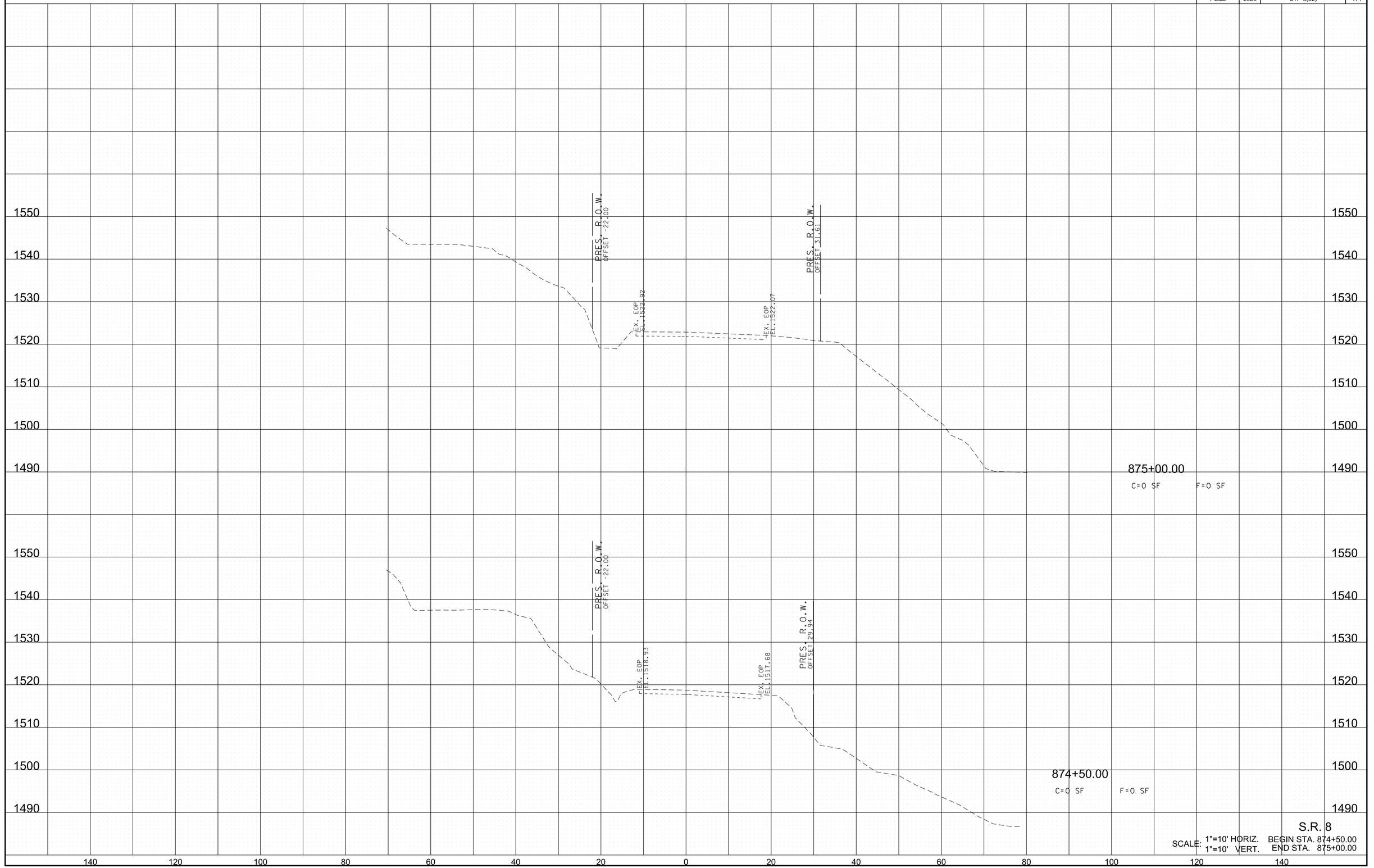


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 873+50.00
1"=10' VERT. END STA. 874+00.00

6/29/2026 8:22:55 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	170
PS&E	2026	STP-8(52)	171

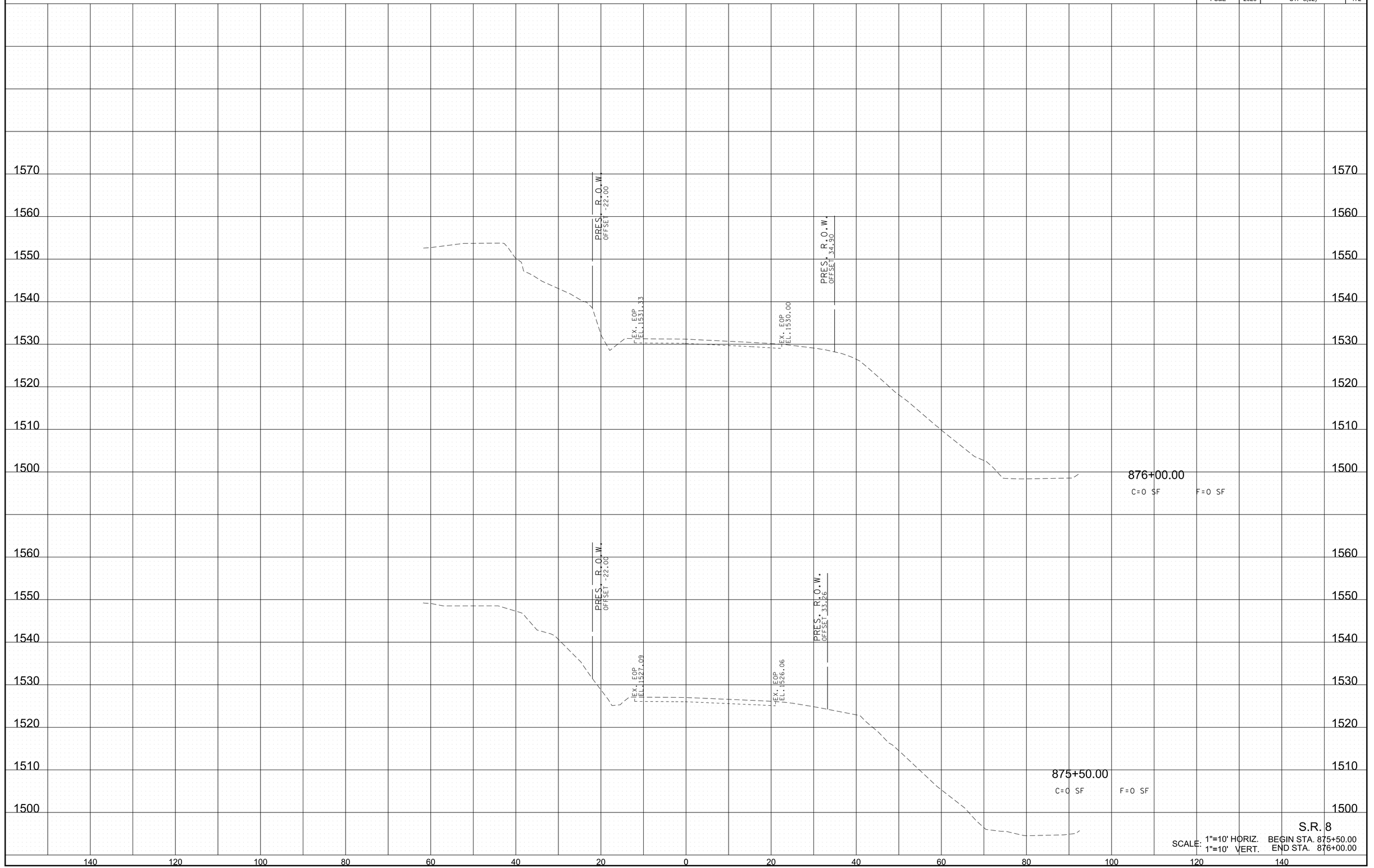


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 874+50.00
1"=10' VERT. END STA. 875+00.00

6/29/2026 8:22:58 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	171
PS&E	2026	STP-8(52)	172

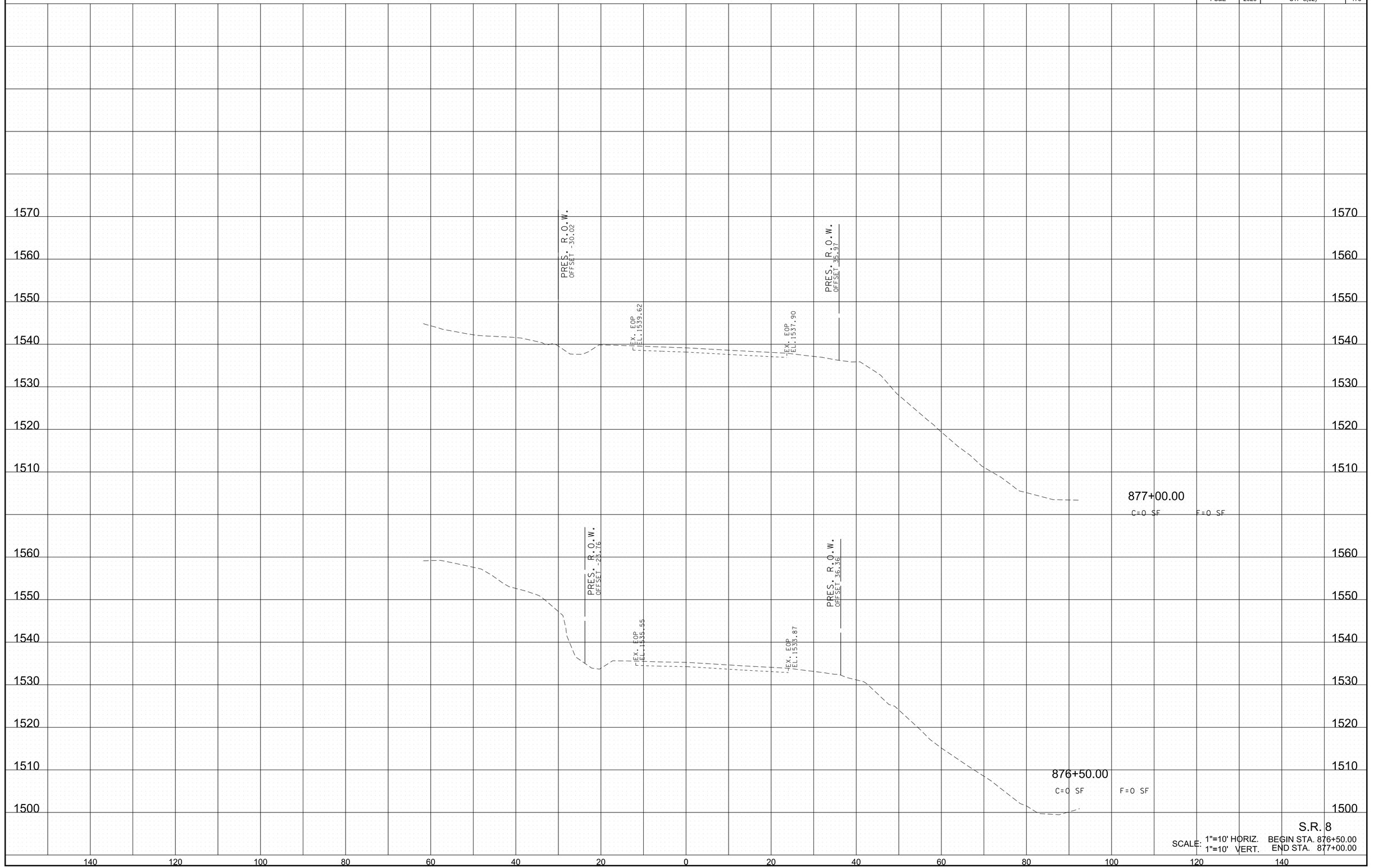


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 875+50.00
1"=10' VERT. END STA. 876+00.00

6/29/2026 8:23:01 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	172
PS&E	2026	STP-8(52)	173

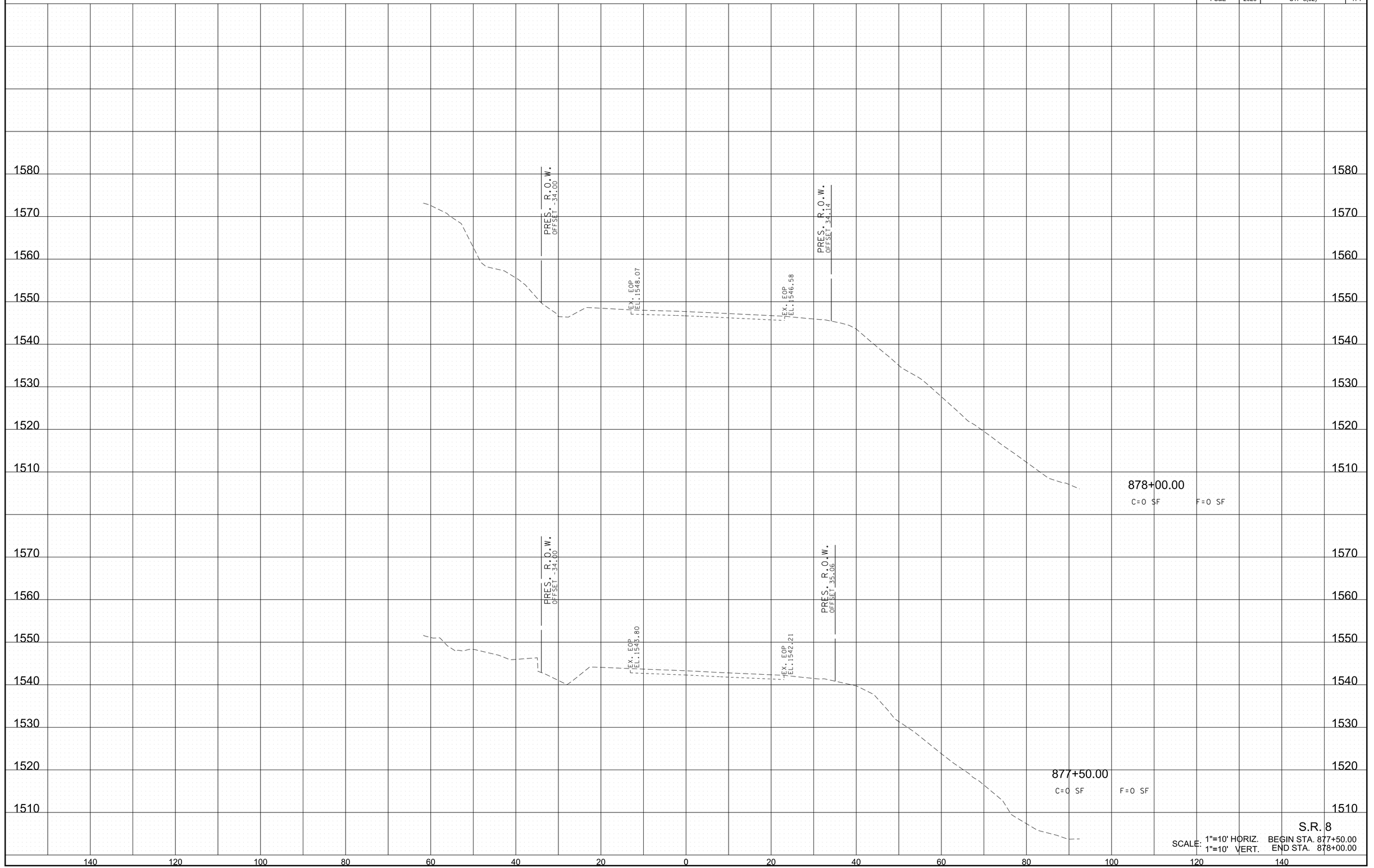


S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT. BEGIN STA. 876+50.00 END STA. 877+00.00

6/29/2026 8:23:03 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	173
PS&E	2026	STP-8(52)	174



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 877+50.00
1"=10' VERT. END STA. 878+00.00

6/29/2026 8:23:06 PM
c:\pw_work\arcadispw01\tritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	174
PS&E	2026	STP-8(52)	175

PRES. R.O.W.
OFFSET -34.00

EX. EOP
EL.1557.03

EX. EOP
EL.1555.54

PRES. R.O.W.
OFFSET 32.32

879+00.00
C=0 SF F=0 SF

PRES. R.O.W.
OFFSET -34.00

EX. EOP
EL.1552.55

EX. EOP
EL.1551.04

PRES. R.O.W.
OFFSET 33.23

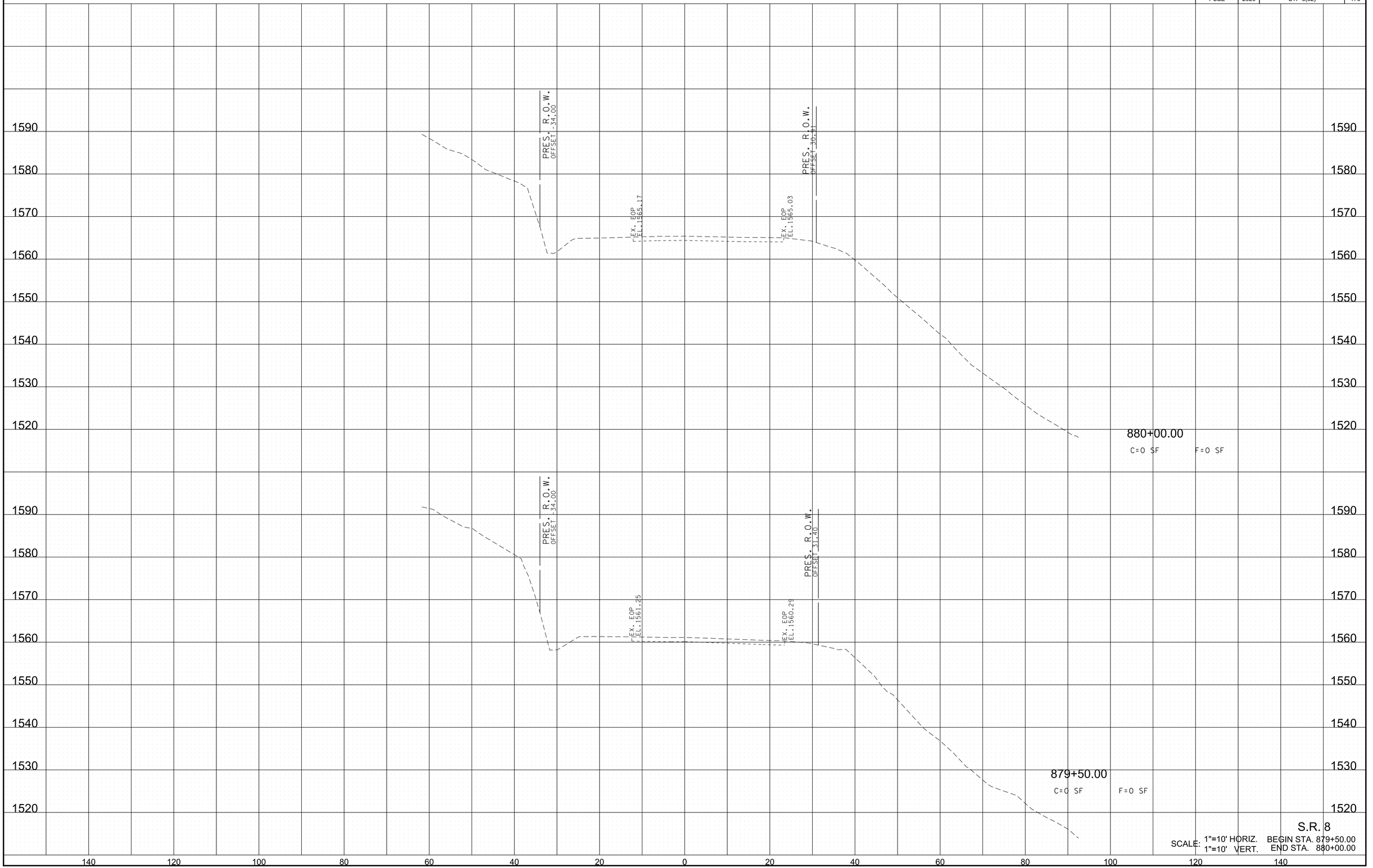
878+50.00
C=0 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 878+50.00
1"=10' VERT. END STA. 879+00.00

6/29/2026 8:23:08 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	175
PS&E	2026	STP-8(52)	176



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 879+50.00
1"=10' VERT. END STA. 880+00.00

6/29/2026 8:23:11 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	176
PS&E	2026	STP-8(52)	177

PRES. R.O.W.
OFFSET -34.00

EX. EOP
EL. 1572.22

EX. EOP
EL. 1573.85

PRES. R.O.W.
OFFSET 32.45

881+00.00
C=0 SF F=0 SF

PRES. R.O.W.
OFFSET -34.00

EX. EOP
EL. 1568.73

EX. EOP
EL. 1569.51

PRES. R.O.W.
OFFSET 31.26

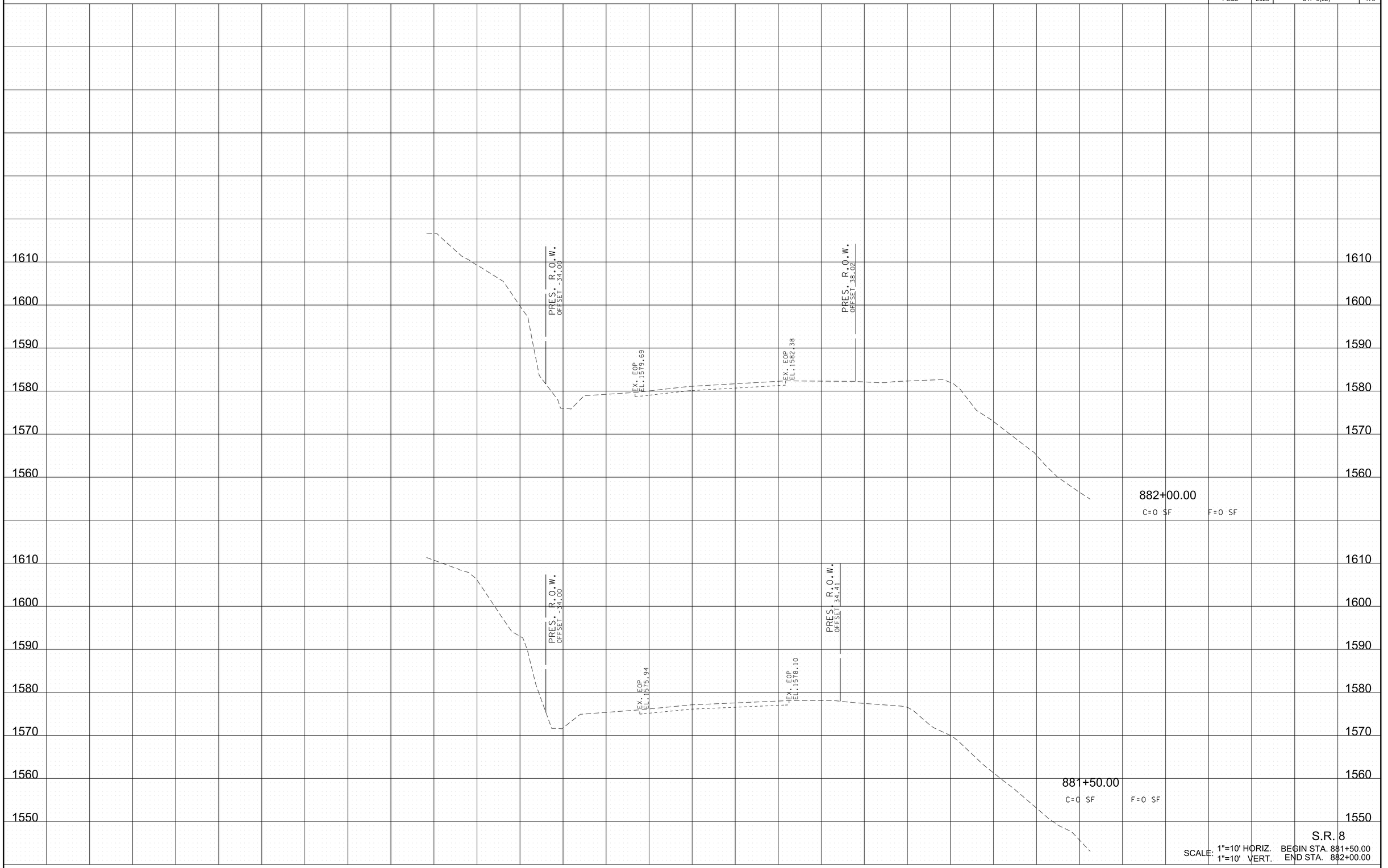
880+50.00
C=0 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 880+50.00
1"=10' VERT. END STA. 881+00.00

6/29/2026 8:23:14 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	177
PS&E	2026	STP-8(52)	178

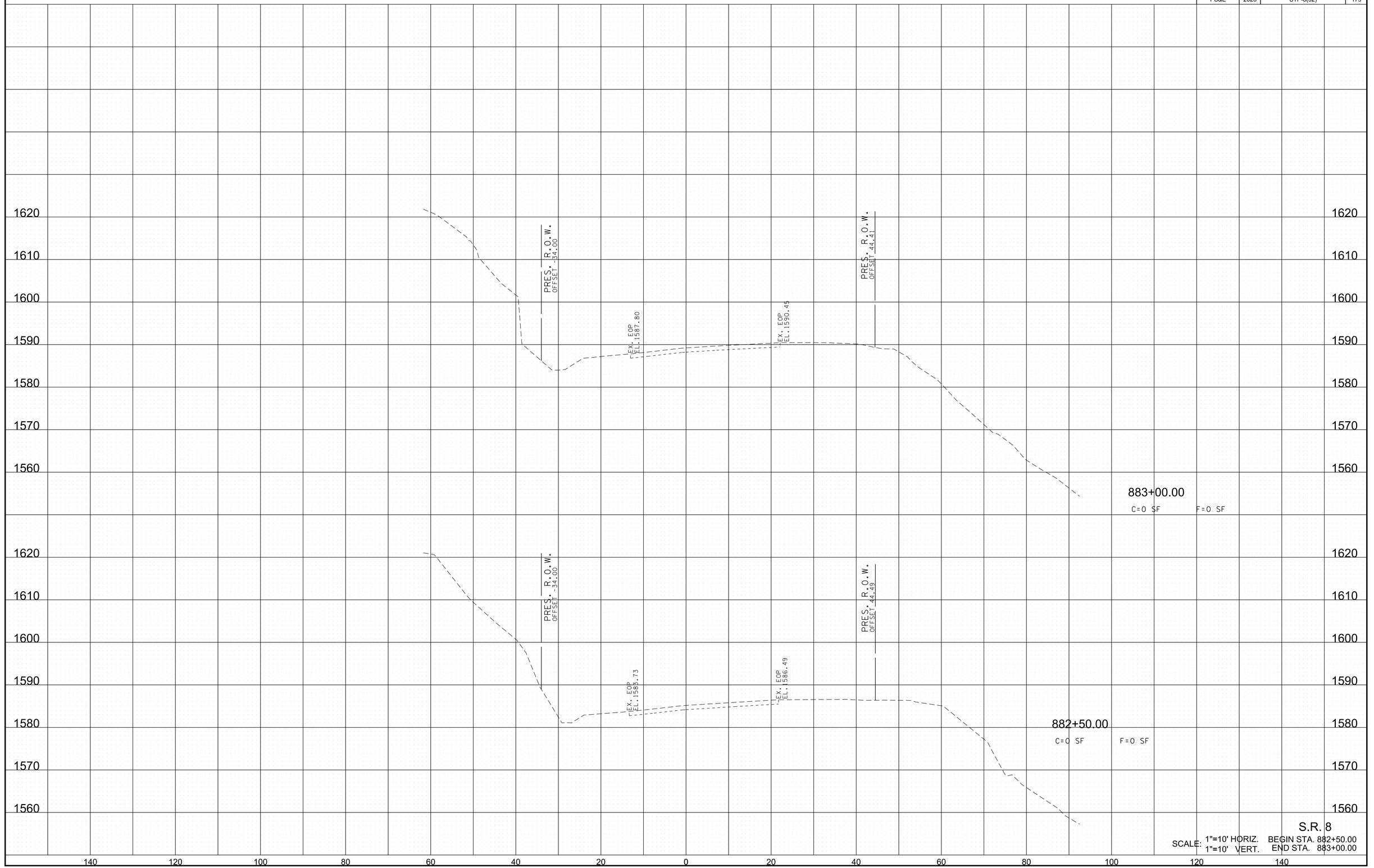


S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 881+50.00
1"=10' VERT. END STA. 882+00.00

6/29/2026 8:23:17 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	178
PS&E	2026	STP-8(52)	179



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 882+50.00
1"=10' VERT. END STA. 883+00.00

6/29/2026 8:23:19 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	179
PS&E	2026	STP-8(52)	180

PRES. R.O.W.
OFFSET -34.00

EX. EOP
EL. 1596.10

EX. EOP
EL. 1597.96

PRES. R.O.W.
OFFSET 33.46

884+00.00
C=0 SF F=0 SF

PRES. R.O.W.
OFFSET -34.00

EX. EOP
EL. 1591.95

EX. EOP
EL. 1594.23

PRES. R.O.W.
OFFSET 37.50

883+50.00
C=0 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 883+50.00
1"=10' VERT. END STA. 884+00.00

6/29/2026 8:23:22 PM
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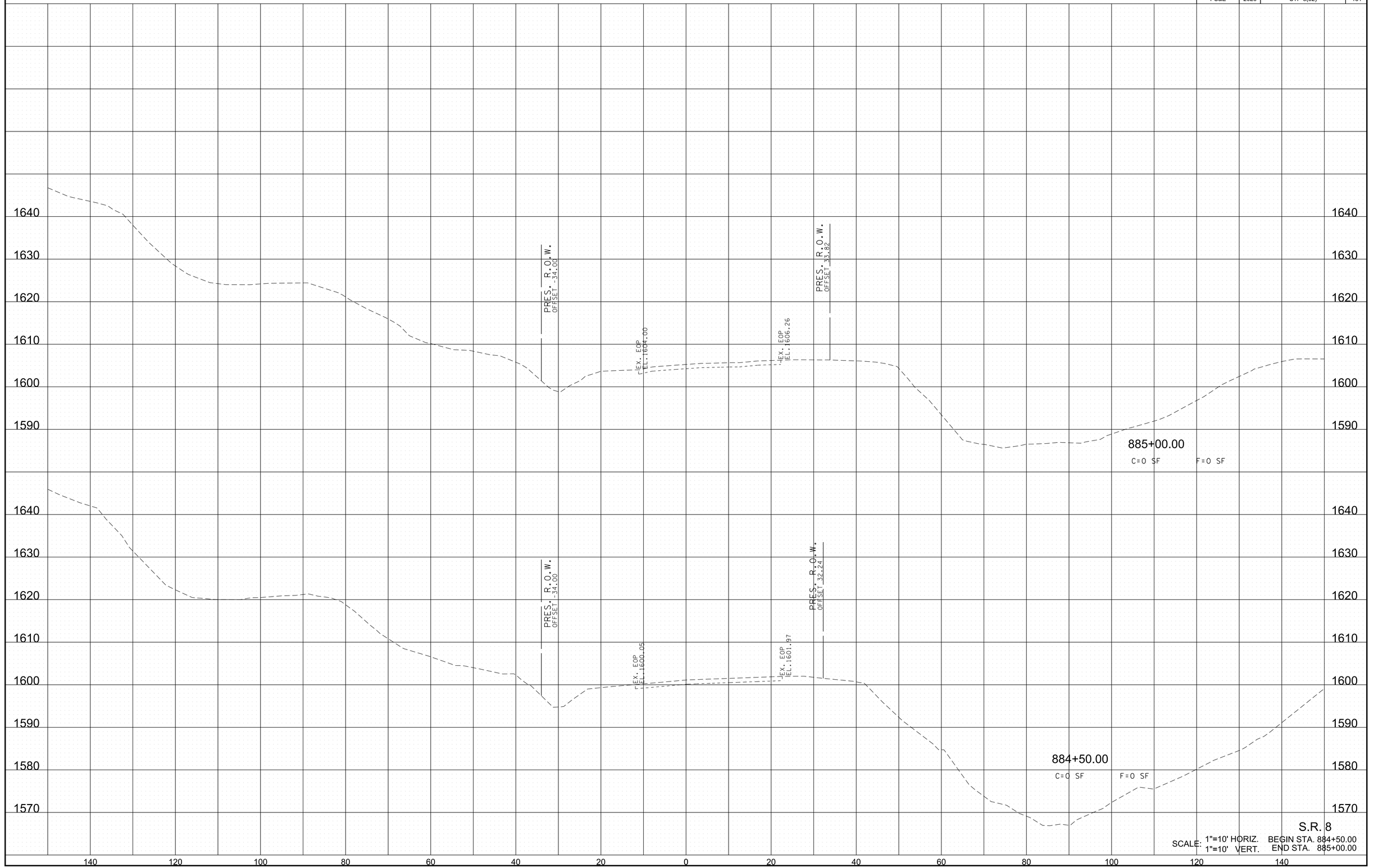
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	180
PS&E	2026	STP-8(52)	181



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 884+50.00
1"=10' VERT. END STA. 885+00.00

6/29/2026 8:23:25 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	181
PS&E	2026	STP-8(52)	182

PRES. R.O.W.
OFFSET -55.59

EX. EOP
EL. 1616.62

EX. EOP
EL. 1617.43

PRES. R.O.W.
OFFSET 40.00

886+50.00
C=0 SF F=0 SF

PRES. R.O.W.
OFFSET -34.00

EX. EOP
EL. 1612.49

EX. EOP
EL. 1613.81

PRES. R.O.W.
OFFSET 38.73

886+00.00
C=0 SF F=0 SF

PRES. R.O.W.
OFFSET -34.00

EX. EOP
EL. 1608.23

EX. EOP
EL. 1610.02

PRES. R.O.W.
OFFSET 37.38

885+50.00
C=0 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 885+50.00
1"=10' VERT. END STA. 886+50.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	182
PS&E	2026	STP-8(52)	183

PRES. R.O.W.
OFFSET -56.03

PRES. R.O.W.
OFFSET -55.88

PRES. R.O.W.
OFFSET -55.74

EX. EOP
EL.1629.09

EX. EOP
EL.1628.82

EX. EOP
EL.1624.85

EX. EOP
EL.1624.86

EX. EOP
EL.1620.67

EX. EOP
EL.1620.80

PRES. R.O.W.
OFFSET 43.82

PRES. R.O.W.
OFFSET 42.55

PRES. R.O.W.
OFFSET 41.28

888+00.00
C=0 SF F=0 SF

887+50.00
C=0 SF F=0 SF

887+00.00
C=0 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 887+00.00
1"=10' VERT. END STA. 888+00.00

6/29/2026 8:23:30 PM
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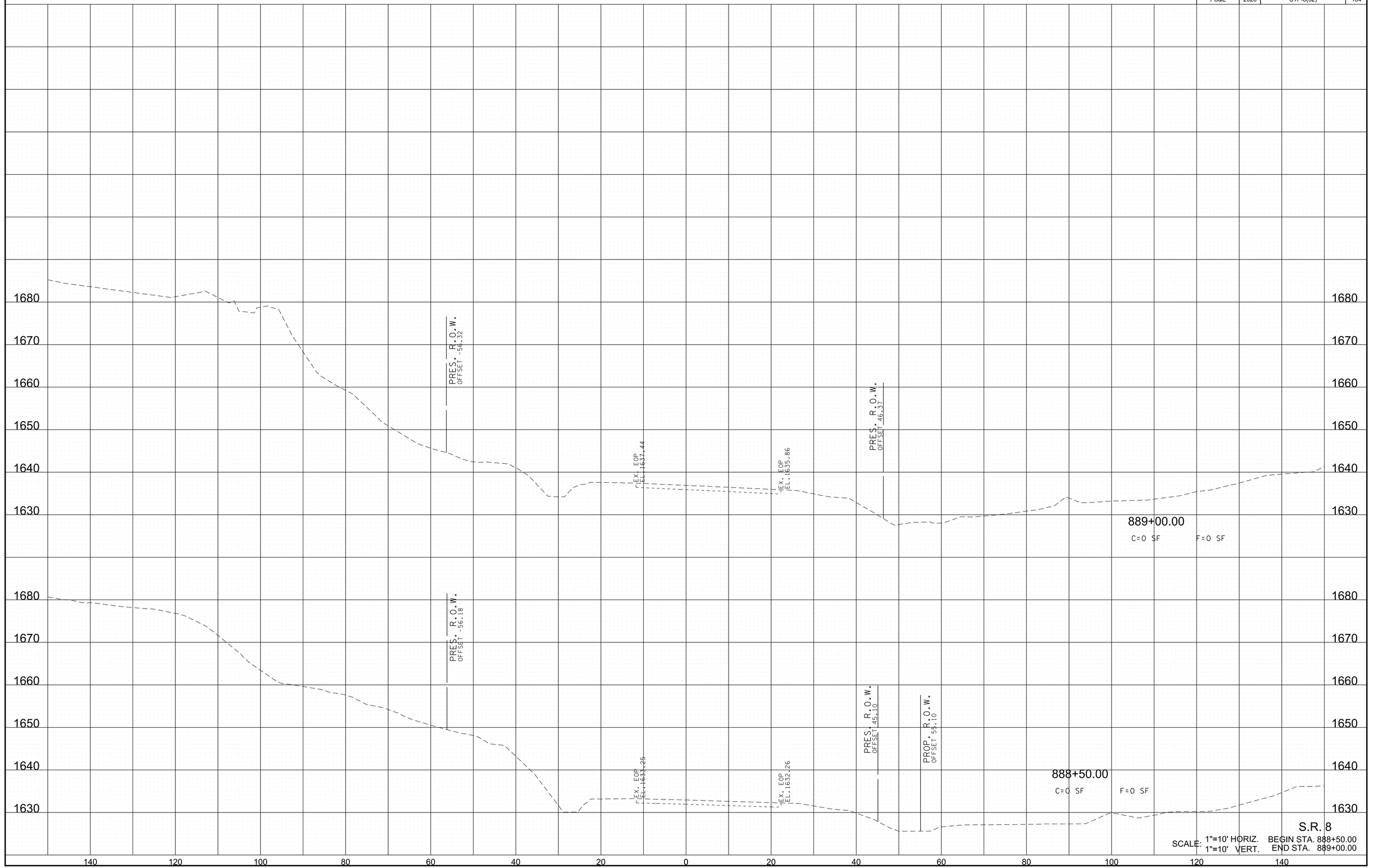
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	183
PS&E	2026	STP-8(52)	184



S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 888+50.00
1"=10' VERT. END STA. 889+00.00

6/29/2026 8:23:33 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	184
PS&E	2026	STP-8(52)	185

PRES. R.O.W.
OFFSET -57.29

PRES. R.O.W.
OFFSET -56.47

EX. EOP
EL.1645.87

EX. EOP
EL.1641.60

EX. EOP
EL.1647.17

EX. EOP
EL.1639.40

PRES. R.O.W.
OFFSET 58.94

PRES. R.O.W.
OFFSET 54.33

890+00.00
C=0 SF F=0 SF

889+50.00
C=0 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 889+50.00
1"=10' VERT. END STA. 890+00.00

6/29/2026 8:23:36 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	185
PS&E	2026	STP-8(52)	186

PRES. R.O.W.
OFFSET -59.89

EX. EOP
EL.1654.44

EX. EOP
EL.1650.85

PRES. R.O.W.
OFFSET 56.69

891+00.00
C=0 SF F=0 SF

PRES. R.O.W.
OFFSET -58.65

EX. EOP
EL.1650.05

EX. EOP
EL.1647.25

PRES. R.O.W.
OFFSET 57.16

890+50.00
C=0 SF F=0 SF

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 890+50.00
1"=10' VERT. END STA. 891+00.00

1710 1700 1690 1680 1670 1660 1650 1640

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

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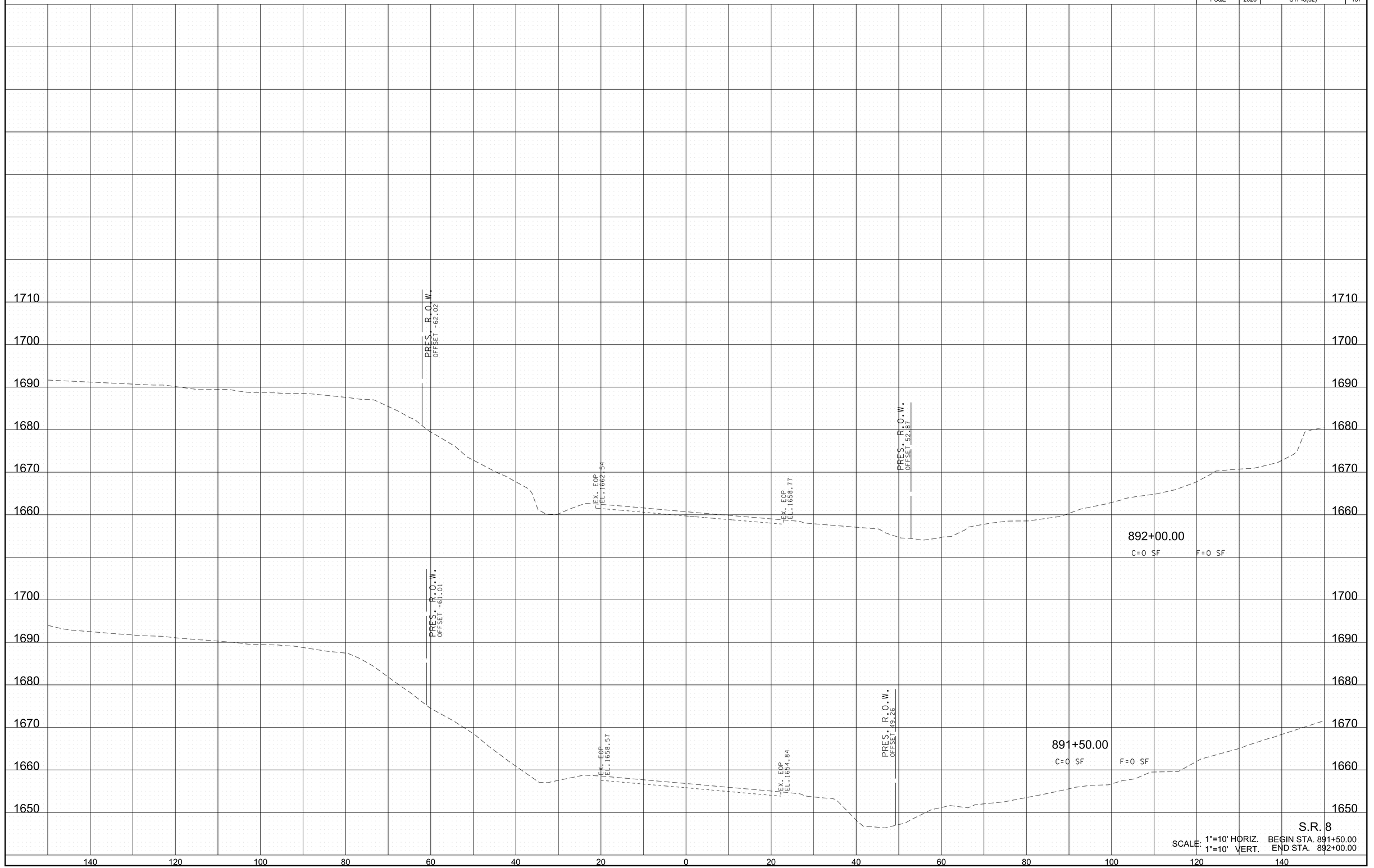
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	186
PS&E	2026	STP-8(52)	187



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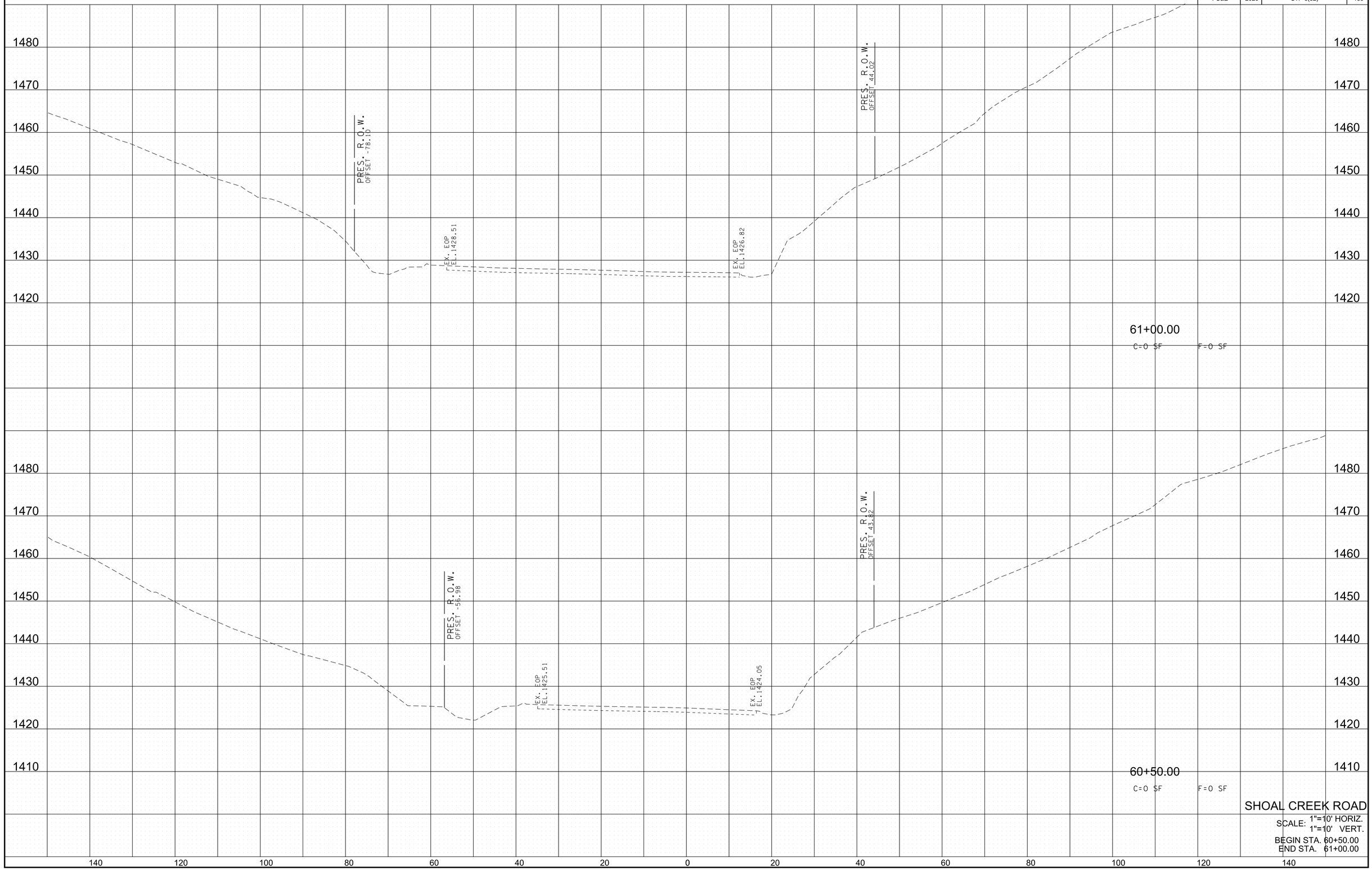
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	187
PS&E	2026	STP-8(52)	188



SHOAL CREEK ROAD

SCALE: 1"=10' HORIZ.
1"=10' VERT.

BEGIN STA. 60+50.00
END STA. 61+00.00

6/29/2026 8:23:51 PM
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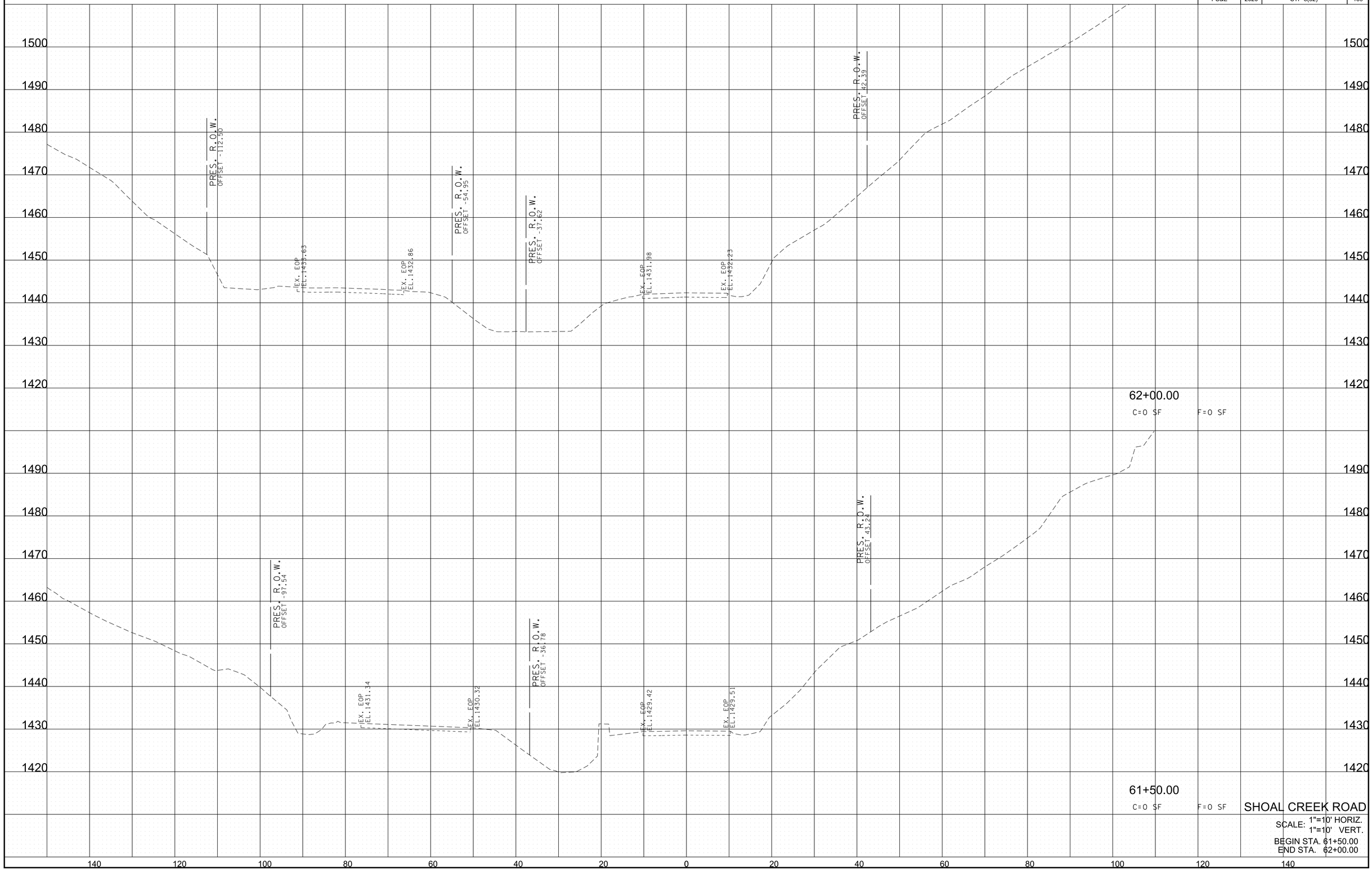
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	188
PS&E	2026	STP-8(52)	189



SHOAL CREEK ROAD

SCALE: 1"=10' HORIZ.
1"=10' VERT.

BEGIN STA. 61+50.00
END STA. 62+00.00

6/29/2026 8:23:52 PM
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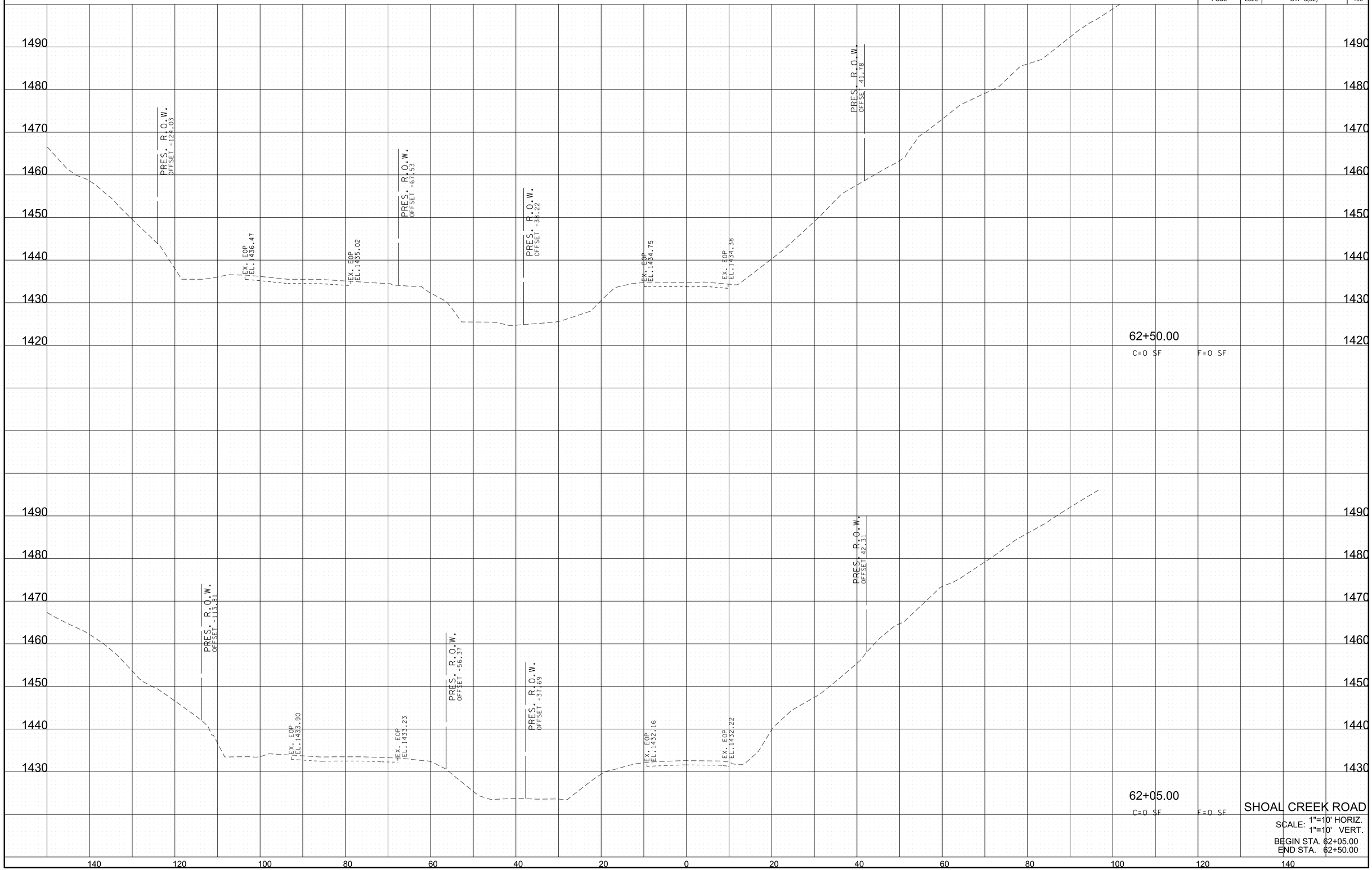
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	189
PS&E	2026	STP-8(52)	190



SHOAL CREEK ROAD

SCALE: 1"=10' HORIZ.
1"=10' VERT.

BEGIN STA. 62+05.00
END STA. 62+50.00

6/29/2026 8:23:52 PM
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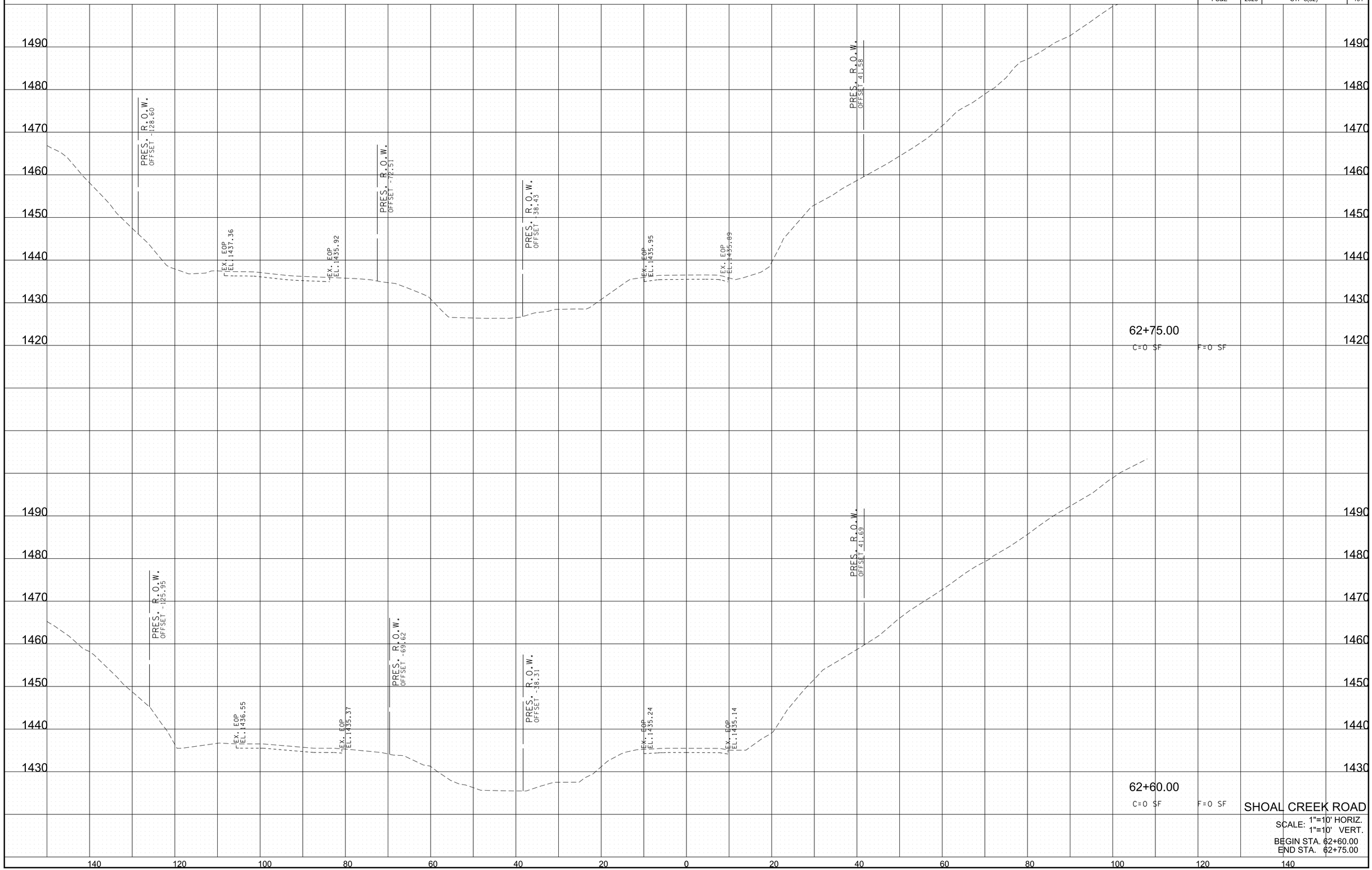
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	190
PS&E	2026	STP-8(52)	191



SHOAL CREEK ROAD

SCALE: 1"=10' HORIZ.
1"=10' VERT.

BEGIN STA. 62+60.00
END STA. 62+75.00

6/29/2026 8:23:53 PM
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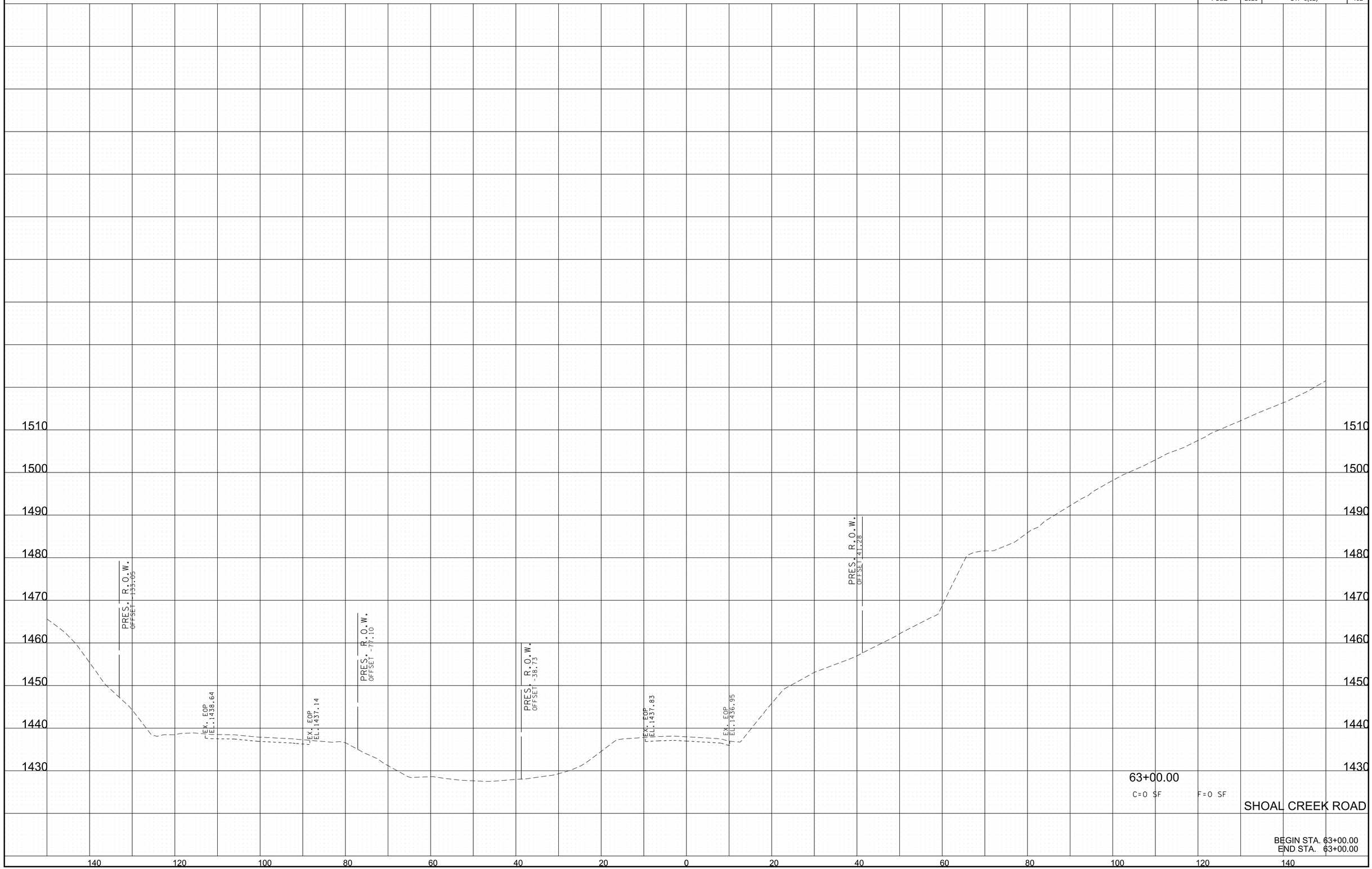
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	191
PS&E	2026	STP-8(52)	192



6/29/2026 8:23:54 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T1
PS&E	2026	STP-8(52)	T1

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

A. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY TRAFFIC, CAUSED BY BASE, PAVING OR RESURFACING:

1. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 0.75 INCH AND NOT EXCEEDING 1.75 INCHES:

   a. WARNING SIGNS, UNEVEN LANES (W8-11) AND/OR SHOULDER DROP-OFF WITH PLAQUE (W8-17 AND W8-17P), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

   b. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY ADDED PAVEMENT SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

   c. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

   d. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN SEVEN WORKDAYS AFTER THE CONDITION IS CREATED.

2. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 1.75 INCHES AND NOT EXCEEDING 6 INCHES, TRAFFIC IS NOT TO BE ALLOWED TO TRAVERSE THIS DIFFERENCE IN ELEVATION.

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   b. IF THE DIFFERENCE IN ELEVATION IS ELIMINATED OR DECREASED TO 2 INCHES OR LESS BY THE END OF EACH WORKDAY, CONES MAY BE USED DURING DAYLIGHT HOURS IN LIEU OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES MENTIONED IN PARAGRAPH a, PROVIDED WARNING SIGNS ARE ERECTED. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

   c. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE THROUGH TRAFFIC LANE AND THE SHOULDER AND THE ELEVATION DIFFERENCE IS LESS THAN 3.5 INCHES, THE CONTRACTOR MAY USE WARNING SIGNS AND/OR PROTECTIVE DEVICES AS APPLICABLE AND APPROVED BY THE ENGINEER. SEE PARAGRAPH a REGARDING USE OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) WILL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

   IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 2 MILES IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

3. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 6 INCHES BUT NOT EXCEEDING 18 INCHES, THE CONTRACTOR, WITH THE ENGINEER'S APPROVAL, MAY UTILIZE ONE OF THE FOLLOWING:

   a. THE CONTRACTOR SHALL ACCOMPLISH SEPARATION BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   IN ORDER TO USE THIS METHOD, THE CONTRACTOR MUST REDUCE THE DIFFERENCE IN ELEVATION TO 6 INCHES OR LESS BY THE END OF THE WORKDAY THAT THE CONDITION IS CREATED.

   b. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a, AND CONSTRUCT A STONE WEDGE WITH A 4:1 SLOPE, OR FLATTER, TO ELIMINATE THE VERTICAL OFFSET IF THE LOWER ELEVATION IS AT OR BELOW SUBGRADE AT THE END OF EACH DAY.

   c. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a AND IF THE LOWER ELEVATION IS BASE STONE OR ASPHALT PAVEMENT, PLACEMENT OF SUBSEQUENT LAYERS OF PAVEMENT MUST BEGIN THE NEXT WORK DAY AND PROGRESS CONTINUOUSLY UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED OR REDUCED TO SIX INCHES OR LESS.

   d. THE CONTRACTOR SHALL PROVIDE SEPARATION BY PORTABLE BARRIER RAIL.

   FOR PRECEDING CONDITIONS a, b, AND c, THE CONTRACTOR SHALL USE THE SHOULDER DROP-OFF WARNING SIGN WITH PLAQUE (W8-17 AND W8-17P). IT SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN THE SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

4. FOR DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 18 INCHES.

   SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

   IN THIS SITUATION THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

B. IF THE DIFFERENCE IN ELEVATION IS WITHIN 30 FEET OF THE NEAREST TRAFFIC LANE BEING USED BY TRAFFIC CAUSED BY GRADING, EXCAVATION FOR UTILITIES, DRAINAGE STRUCTURES, UNDERCUTTING, ETC.:

1. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 3/4 INCH AND NOT EXCEEDING 2 INCHES.

   a. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

2. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES:

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

3. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 6 INCHES:

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   b. ELIMINATE VERTICAL OFFSET BY CONSTRUCTING A STONE WEDGE OR GRADING TO A 4:1 SLOPE, OR FLATTER, OR USE PORTABLE BARRIER RAIL.

   THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE WITHIN 8 FEET OF A TRAFFIC LANE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

C. IF THE DIFFERENCE IN ELEVATION IS FARTHER THAN 8 FEET FROM THE NEAREST TRAFFIC LANE BUT NOT MORE THAN 30 FEET FROM THE NEAREST TRAFFIC LANE:

SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

1. WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

2. WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

6/29/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE
DROP-OFF NOTES
FOR
TRAFFIC CONTROL

6/29/2026 9:55:31 AM
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GENERAL:

1. ALL EXISTING DITCHES, DRAINAGE PIPES, AND RELATED STRUCTURES SHALL REMAIN IN SERVICE UNTIL THE CORRESPONDING PROPOSED DITCHES, PIPES, AND STRUCTURES HAVE BEEN INSTALLED AND ARE FULLY OPERATIONAL. ONLY AFTER THE NEW DRAINAGE ELEMENTS ARE INSTALLED AND FUNCTIONAL MAY THE CONTRACTOR REMOVE THE EXISTING STRUCTURES THAT ARE BEING REPLACED.

2. DRAINAGE INSTALLATION OF PROPOSED DRAINAGE ELEMENTS SHALL BEGIN FROM THE LOWER ELEVATIONS AND PROCEED TO THE HIGHER ELEVATIONS.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR COVERING ALL EXISTING SIGNS THAT ARE IN CONFLICT WITH SIGNS USED FOR TRAFFIC CONTROL.

4. FLAGGERS SHALL BE UTILIZED FOR TEMPORARY LANE CLOSURE THAT REQUIRE REDUCING THE ROADWAY TO ONE LANE OF TRAVEL TO FACILITATE THE PROPOSED ROADWAY WORK. ON LONG TERM CLOSURES, A TEMPORARY TRAFFIC SIGNAL SYSTEM SHALL BE UTILIZED.

5. TEMPORARY TRAFFIC SIGNAL SHALL BE OF THE PORTABLE, TRAILER MOUNTED TYPE. THE TEMPORARY TRAFFIC SIGNAL SYSTEM SHALL BE CAPABLE OF BOTH WIRED OR WIRELESS INTERCONNECT.

6. ALL ENVIRONMENTAL COMMITMENTS SHALL BE FOLLOWED DURING THE CONSTRUCTION PHASE.

PHASE 1

1. THE FOLLOWING WORK AREAS SHALL BE UTILIZED IN PHASE 1:
   WORK AREA 1: PROJECT BEGIN TO STA 770+00
   WORK AREA 2: STA 760+00 TO STA 784+00
   WORK AREA 3: STA 812+00 TO STA 824+00
   WORK AREA 4: STA 829+00 TO STA 843+00
   WORK AREA 5: STA 841+50 TO STA 856+25
   WORK AREA 6: STA 854+00 TO STA 872+00
   WORK AREA 7: STA 881+00 TO PROJECT END.

2. WORK IN WORK AREAS 1- 3 WILL SHALL BE COMPLETED IN A SEQUENTIAL MANNER. PROCEEDING 1 TO 3. ONLY ONE OF THESE WORK AREAS SHALL BE ACTIVE AT A TIME.

3. IN WORK AREAS 1-3, LANE SHIFTS, LANE CLOSURES, AND TEMPORARY TRAFFIC SIGNALS SHALL BE UTILIZED TO INSTALL PROPOSED CROSS DRAINS, ASSOCIATED DRAINAGE FEATURES, GUARDRAIL AND COMPLETE DITCH WORK ON THE LEFT SIDE OF THE ROADWAY. 11' LANES SHALL BE UTILIZED IN THESE WORK AREAS.

4. WORK IN WORK AREAS 4-5 SHALL BE COMPLETED IN A SEQUENTIAL MANNER. PROCEEDING 4 TO 5. ONLY ONE OF THESE WORK AREAS SHALL BE ACTIVE AT A TIME. WORK IN WORK AREA 4-5 CAN BE PERFORMED WHILE WORK IS BEING PERFORMED IN EITHER WORK AREA 1 OR 2.

5. IN WORK AREAS 4-5, TEMPORARY TRAFFIC SIGNALS SHALL BE UTILIZED TO INSTALL PROPOSED CROSS DRAINS, ASSOCIATED DRAINAGE FEATURES, GUARDRAIL, RETAINING WALLS AND COMPLETE DITCH WORK ON THE LEFT SIDE OF THE ROADWAY. 11' LANES SHALL BE UTILIZED IN THESE WORK AREAS.

6. WORK IN WORK AREAS 6-7 SHALLL BE COMPLETED IN A SEQUENTIAL MANNER. PROCEEDING 6 TO 7. ONLY ONE OF THESE WORK AREAS SHALL BE ACTIVE AT A TIME. WORK IN WORK AREA 6-7 CAN ONLY BE PERFORMED ONCE WORK HAS BEEN COMPLETED IN BOTH WORK AREA 4 AND 5.

7. IN WORK AREAS 6-7, LANE SHIFTS, LANE CLOSURES, AND TEMPORARY TRAFFIC SIGNALS SHALL BE UTILIZED TO INSTALL PROPOSED CROSS DRAINS, ASSOCIATED DRAINAGES FEATURES, AND COMPLETE DITCH WORK ON THE LEFT SIDE OF THE ROADWAY. 11' LANES WILL BE UTILIZED IN THESE WORK AREAS.

PHASE 2

1. THE FOLLOWING WORK AREAS SHALL BE UTILIZED IN PHASE 2:
   WORK AREA 1 : PROJECT BEGIN TO STA 828+24
   WORK AREA 2: STA 828+24 TO STA 853+00
   WORK AREA 3: STA 853+00 TO STA 868+00
   WORK AREA 4: STA 868+00 TO PROJECT END

2. WORK IN WORK AREAS 1- 4 SHALL BE COMPLETED IN A SEQUENTIAL MANNER. PROCEEDING 1 TO 4. ONLY ONE OF THESE WORK AREAS SHALL BE ACTIVE AT A TIME.

3. IN WORK AREA 1, LANE CLOSURES SHALL BE UTILIZED TO INSTALL PROPOSED CROSS DRAINS, ASSOCIATED DRAINAGE FEATURES, GUARDRAIL, RETAINING WALLS AND COMPLETE DITCH WORK ON THE RIGHT SIDE OF THE ROADWAY. 11' LANES WILL BE UTILIZED IN THIS WORK AREA.

4. IN WORK AREAS 2-3, TEMPORARY TRAFFIC SIGNALS SHALL BE UTILIZED TO INSTALL PROPOSED CROSS DRAINS, ASSOCIATED DRAINAGE FEATURES, GUARDRAIL, RETAINING WALLS, ROCKFALL MITIGATION, AND COMPLETE DITCH WORK ON THE LEFT SIDE OF THE ROADWAY. 11' LANES WILL BE UTILIZED IN THESE WORK AREAS. WORK IN WORK AREA 2-3 CAN ONLY BE PERFORMED ONCE WORK HAS BEEN COMPLETED IN WORK AREA 1. ONLY ONE OF THESE WORK AREAS SHALL BE ACTIVE AT A TIME.

5. IN WORK AREA 4, LANE SHIFTS AND LANE CLOSURES SHALL BE UTILIZED TO INSTALL PROPOSED CROSS DRAINS, ASSOCIATED DRAINAGE FEATURES, AND COMPLETE DITCH WORK ON THE RIGHT SIDE OF THE ROADWAY. 11' LANES WILL BE UTILIZED IN THIS WORK AREA. WORK IN WORK AREA 4 CAN ONLY BE PERFORMED ONCE WORK HAS BEEN COMPLETED IN WORK AREA 2 AND 3.

6. THE USE OF FLAGGERS, PHASED CONSTRUCTION, AND METAL PLATING MAY BE NECESSARY TO CONNECT CROSS DRAINS TO WORK PERFORMED DURING PHASE 1. COST OF PLATING SHALL BE INCLUDED IN OTHER ITEMS.

PHASE 3

1. PERFORM COLD PLANING, FINAL PAVING AND STRIPING ALONG SR 8 FROM STA 738+00 TO STA 891+00.

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	TEMPORARY ATTENUATOR
	ARROW BOARD TYPE C
	ARROW BOARD TYPE C (SINGLE ARROW)
	TEMPORARY BARRICADE (TYPE III)
	TEMPORARY SIGNAL

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T2
PS&E	2026	STP-8(52)	T2

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JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

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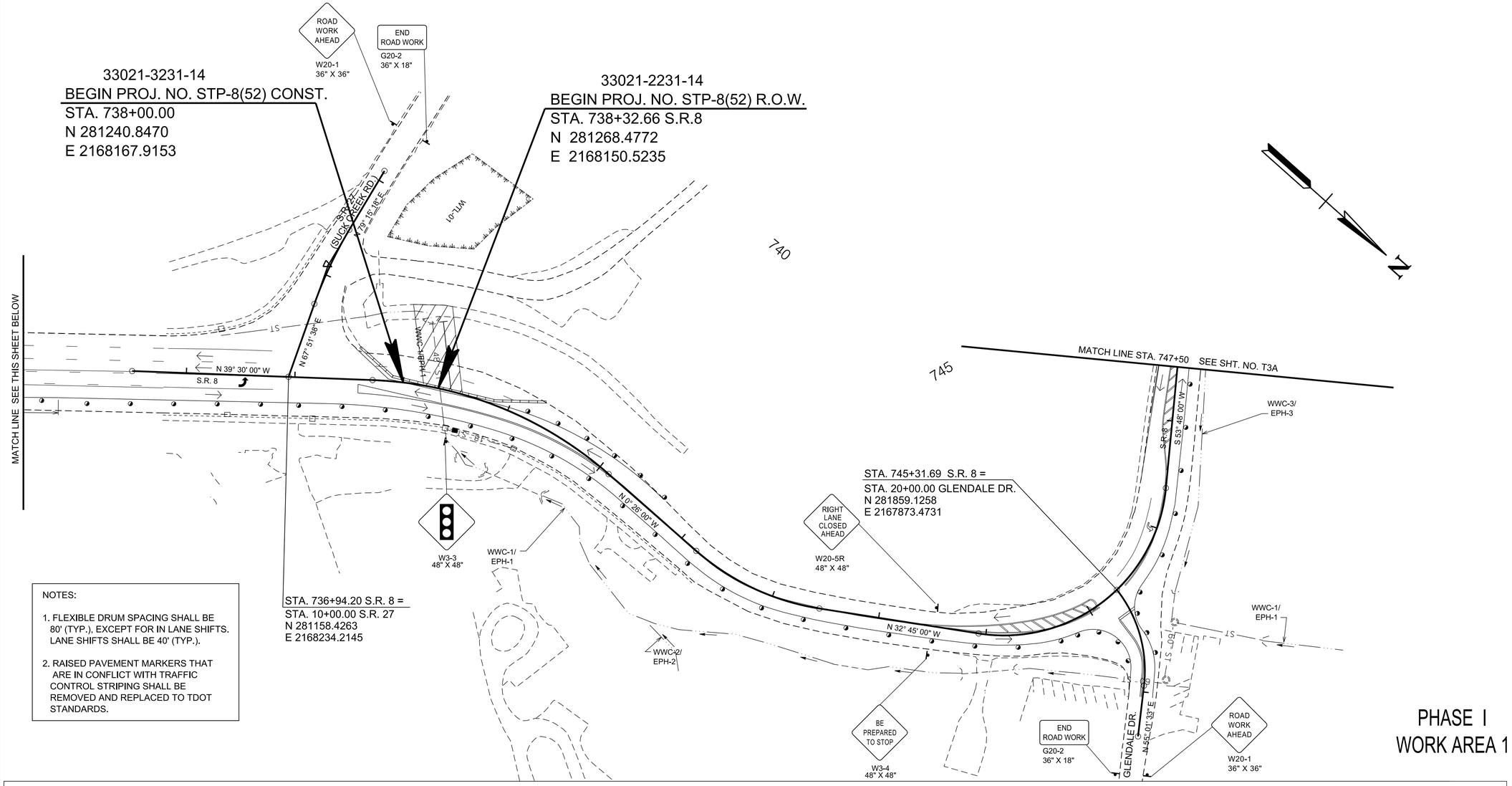
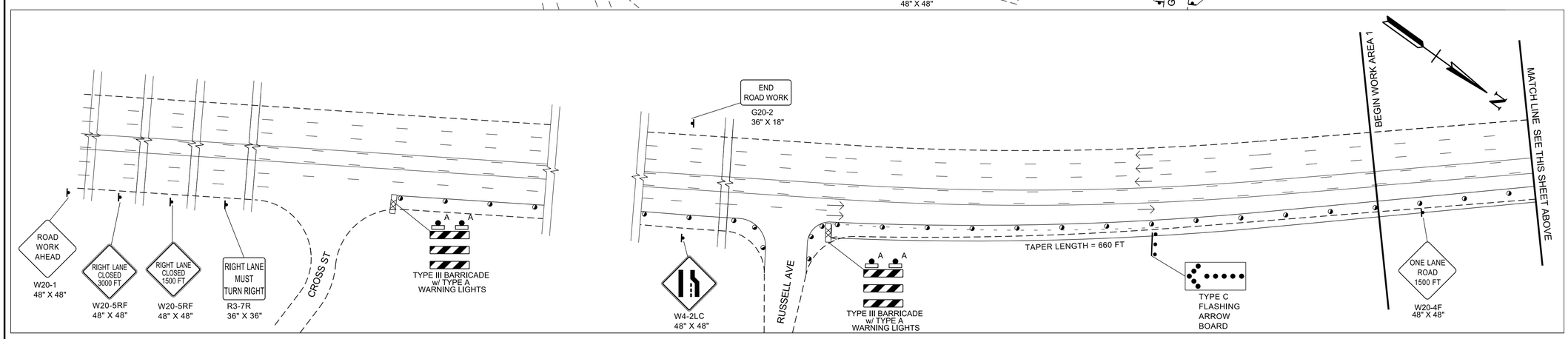
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T3
PS&E	2026	STP-8(52)	T3



NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).
2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.

PHASE I
WORK AREA 1



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TRAFFIC CONTROL PLANS

STA. 735+50 TO STA. 747+50
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T3A
PS&E	2026	STP-8(52)	T3A

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).
2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.

N

750

755

MATCH LINE STA. 747+50 SEE SHT. NO. T3

MAINTAIN XX MPH SPEED
SPEC2
42" X 36"

S 65° 59' 00" W

WWC-4/EPH-4

N 58° 15' 00" W

S 78° 09' 00" W

N 69° 42' 00" W

WWC-6/EPH-6

WWC-5/EPH-5

S 53° 46' 00" W

S.R. 8

WWC-3/EPH-3

STAY
IN LANE
TO EXTEND
GREEN
R10-6M
30" X 42"

MAXIMUM
MINUTE
RED
SPEC1
42" X 48"

W1-4R
48" X 48"

MAINTAIN XX MPH SPEED
SPEC2
42" X 36"

MAINTAIN XX MPH SPEED
SPEC2
42" X 36"

WWC-4/EPH-4

WWC-5/EPH-5

MATCH LINE STA. 760+50 SEE SHT. NO. T3B

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TRAFFIC CONTROL PLANS

STA.747+50 TO STA.760+50
SCALE: 1"=50'

PHASE I
WORK AREA 1

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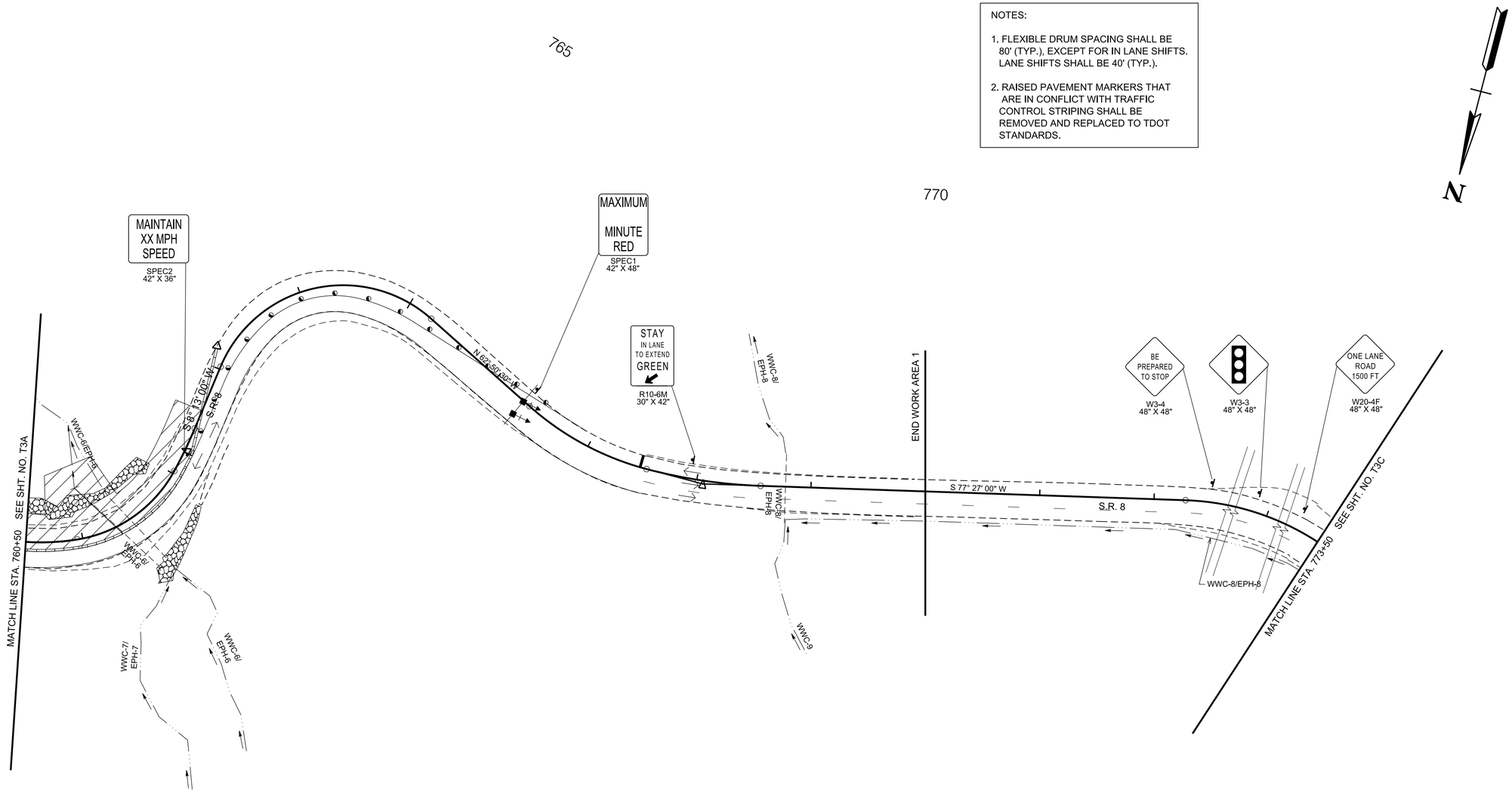
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T3B
PS&E	2026	STP-8(52)	T3B

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).

2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.



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TRAFFIC CONTROL PLANS

STA.760+50 TO STA.773+50
SCALE: 1"=50'

PHASE I
WORK AREA 1

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T3A-1
PS&E	2026	STP-8(52)	T3A-1

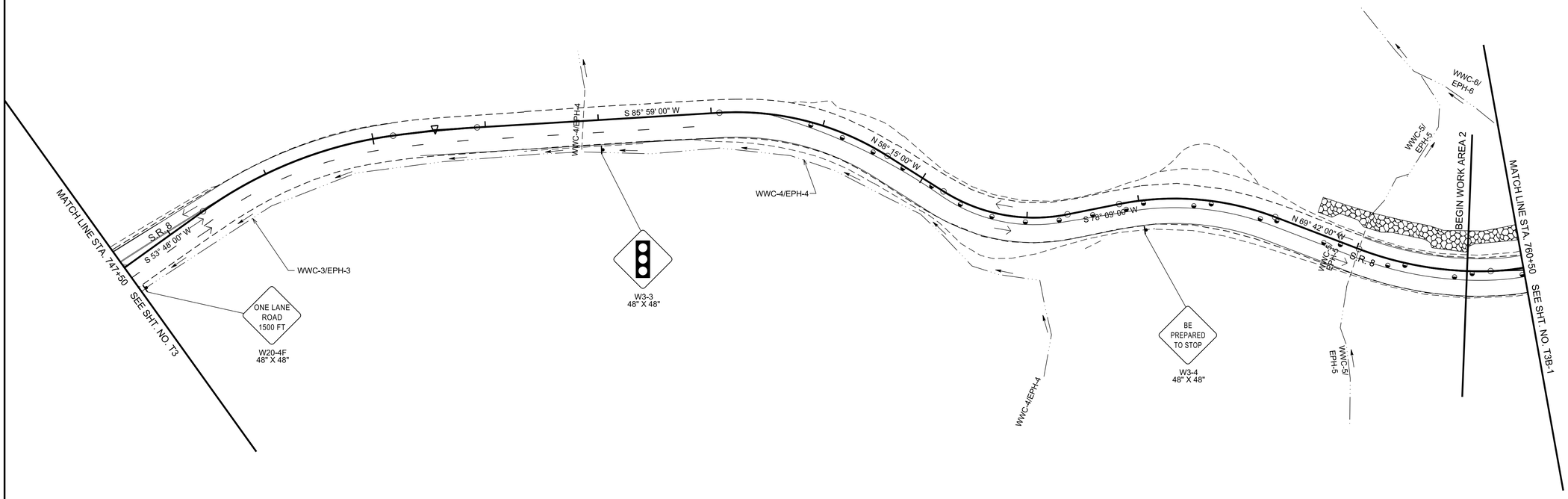
NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).
2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.

N

750

755



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TRAFFIC CONTROL PLANS

STA.747+50 TO STA.760+50
SCALE: 1"=50'

PHASE I
WORK AREA 2

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T3B-1
PS&E	2026	STP-8(52)	T3B-1

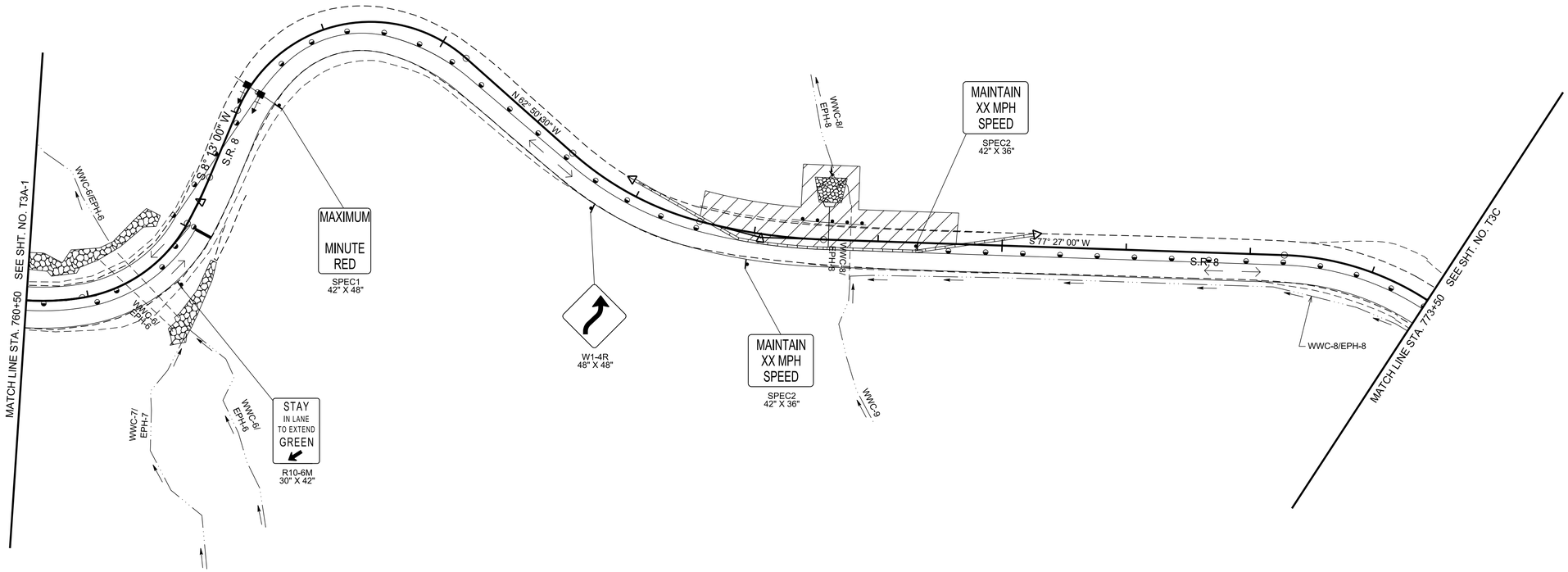
NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).
2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.

765

770

N



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TRAFFIC CONTROL PLANS

STA.760+50 TO STA.773+50
SCALE: 1"=50'

PHASE I
WORK AREA 2

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T3C
PS&E	2026	STP-8(52)	T3C

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).

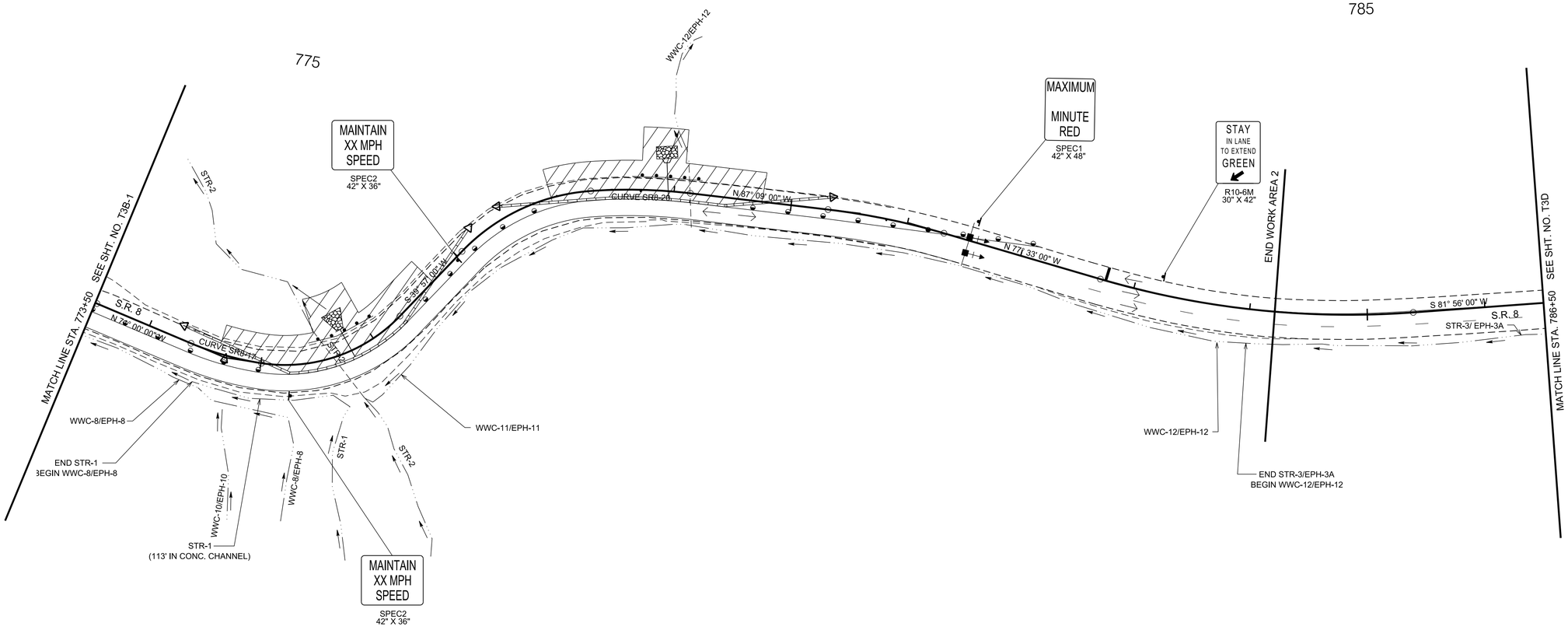
2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.

780

775

785

N



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TRAFFIC CONTROL PLANS

STA.773+50 TO STA.786+50
SCALE: 1"=50'

PHASE I
WORK AREA 2

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T3D
PS&E	2026	STP-8(52)	T3D

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).

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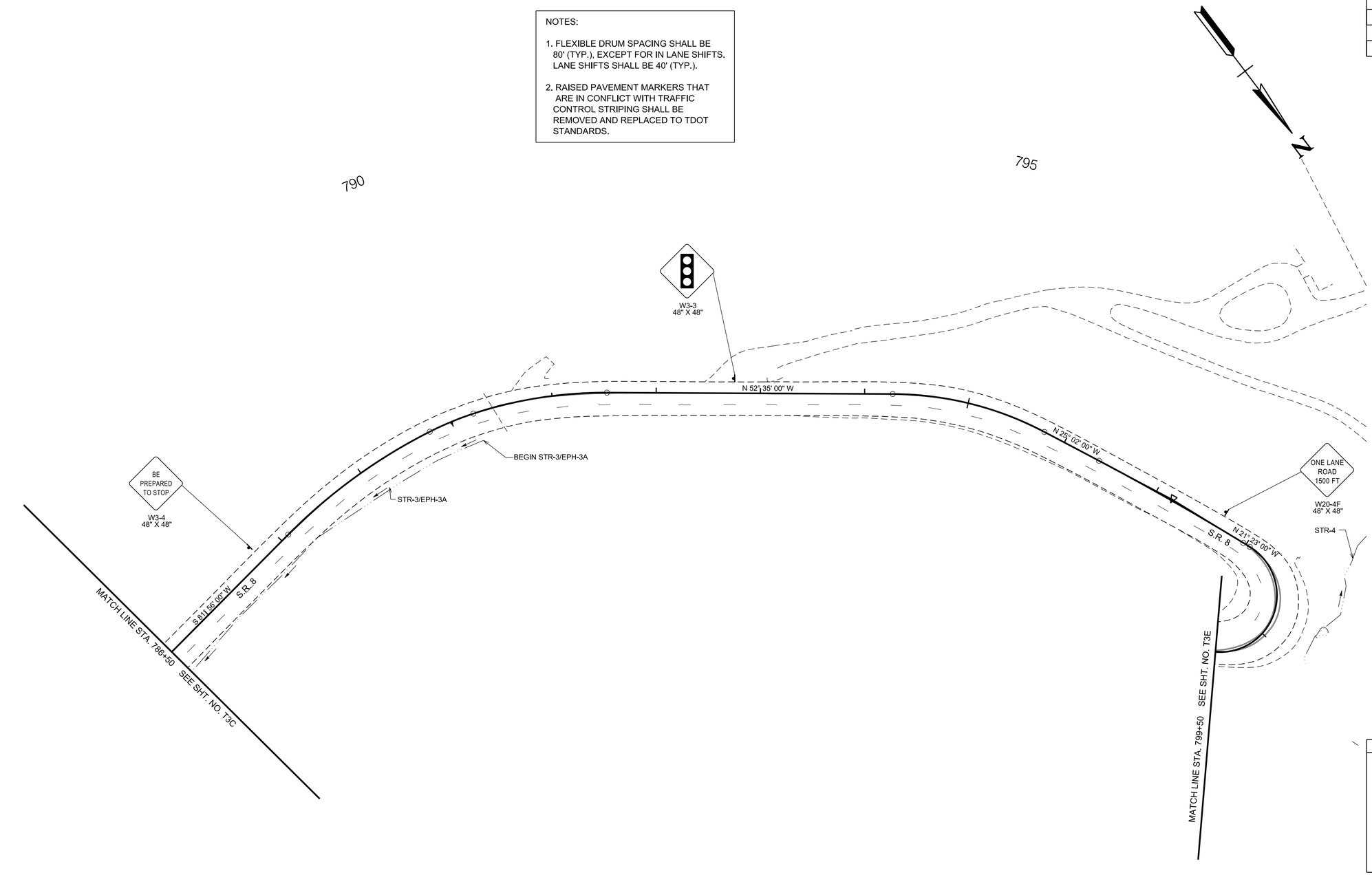

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TRAFFIC CONTROL PLANS

STA.786+50 TO STA.799+50
SCALE: 1"=50'

PHASE I
WORK AREA 2

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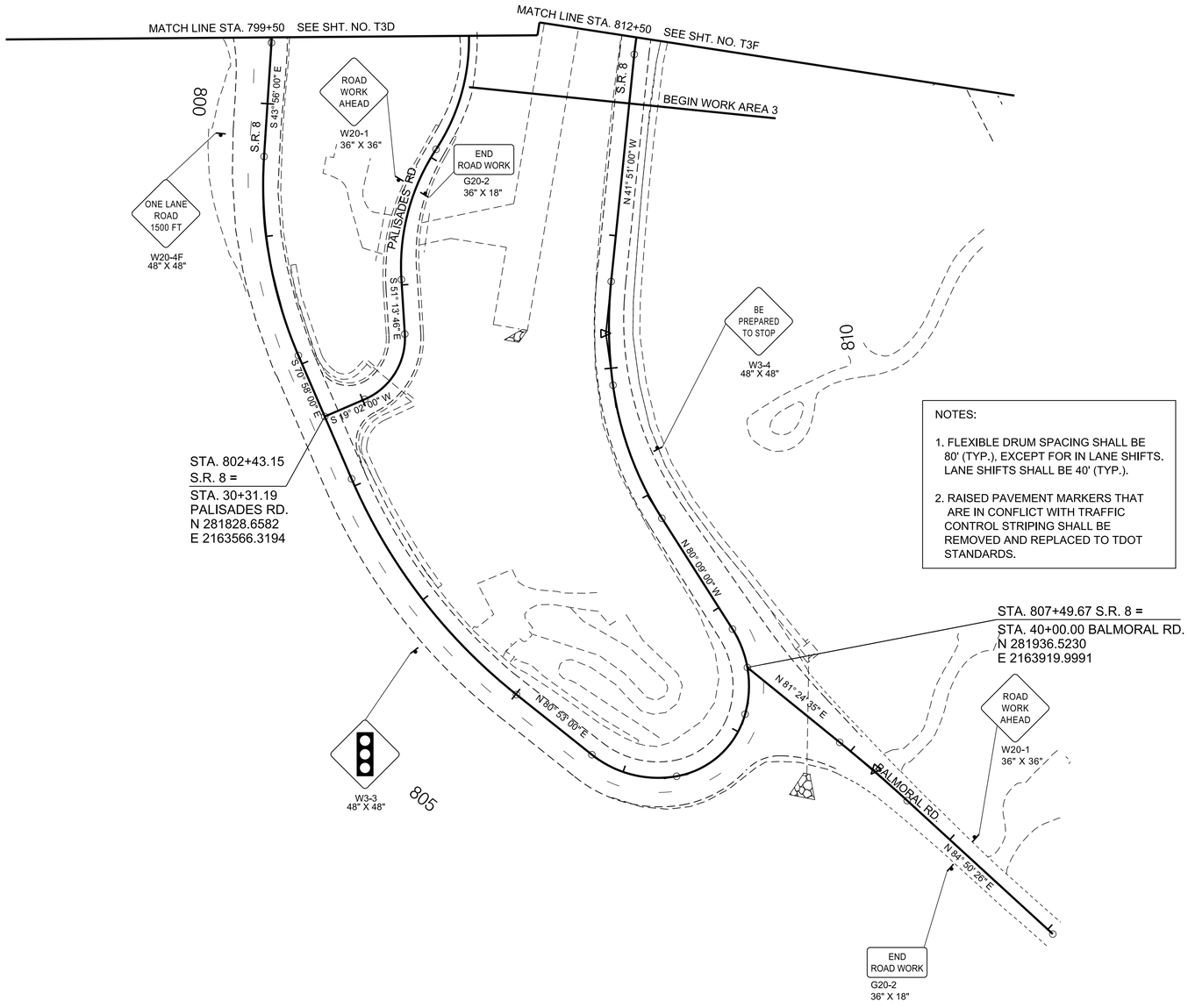
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T3E
PS&E	2026	STP-8(52)	T3E



NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).

2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.

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TRAFFIC CONTROL PLANS

STA. 799+50 TO STA. 812+50
SCALE: 1"= 50'

PHASE I
WORK AREA 3

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T3F
PS&E	2026	STP-8(52)	T3F

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).
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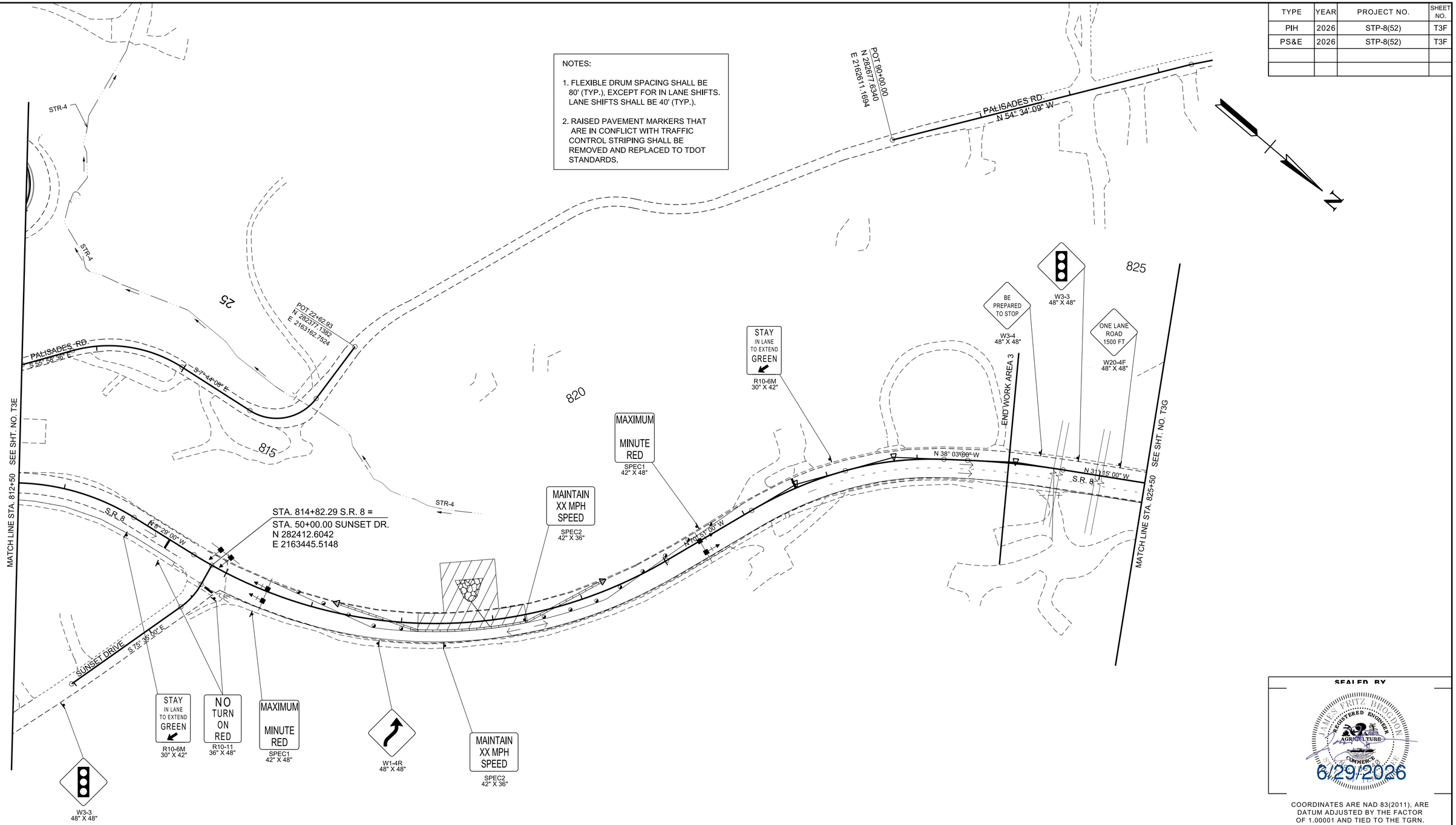

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TRAFFIC CONTROL PLANS

STA. 812+50 TO STA. 825+50
SCALE: 1"= 50'

PHASE I
WORK AREA 3

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T3G
PS&E	2026	STP-8(52)	T3G

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).

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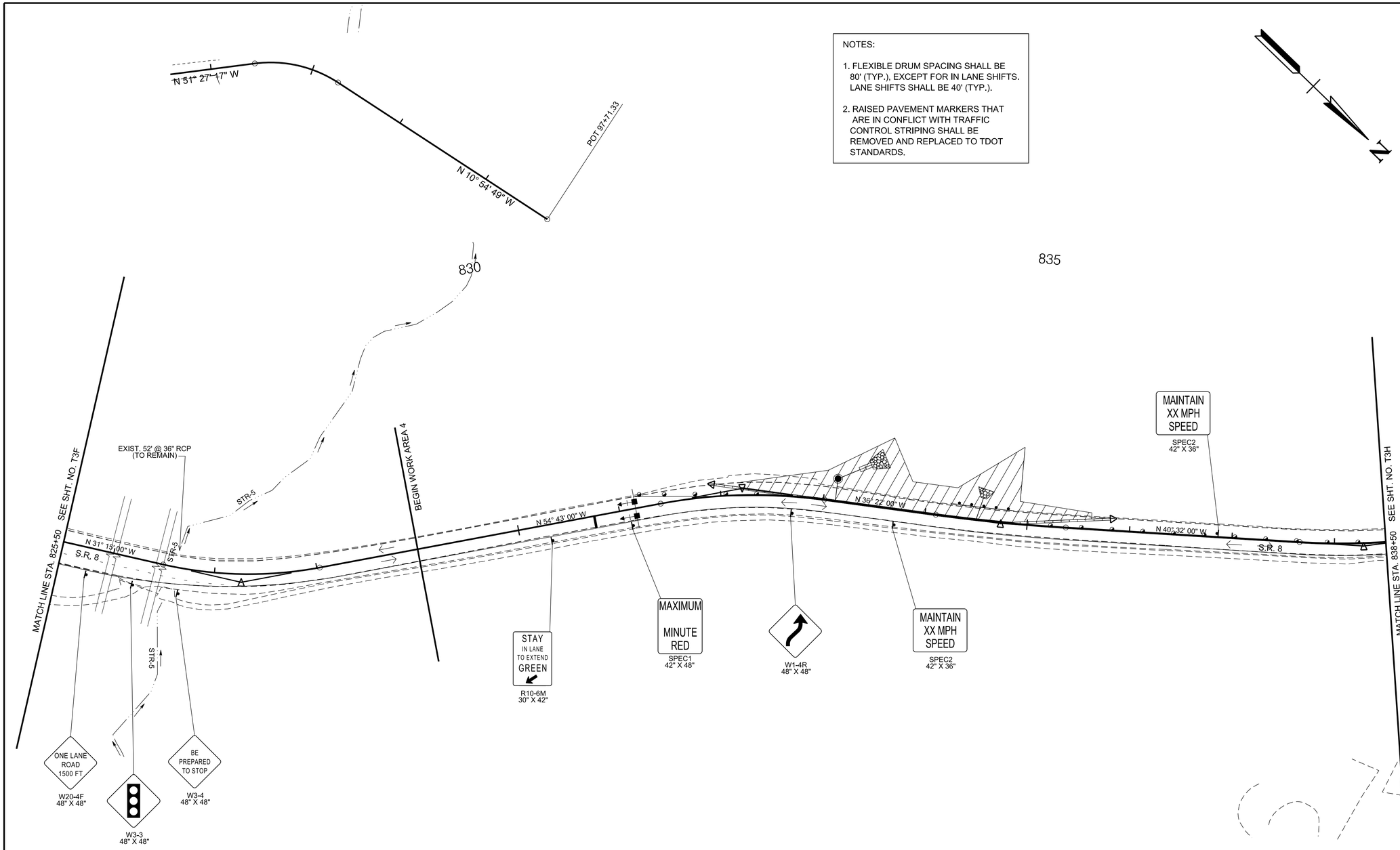

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TRAFFIC CONTROL PLANS

STA. 825+50 TO STA. 838+50
SCALE: 1"= 50'

PHASE I
WORK AREA 4

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T3H
PS&E	2026	STP-8(52)	T3H

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).
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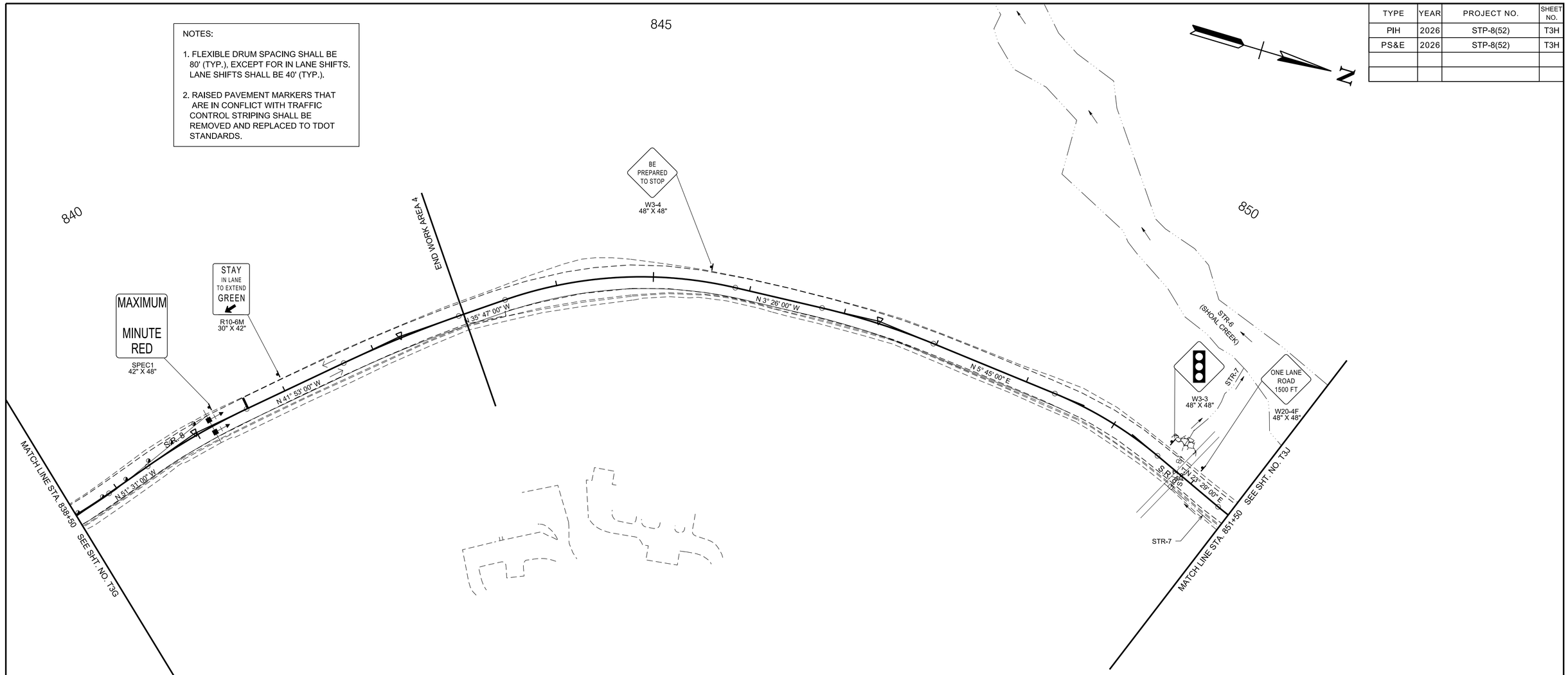

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TRAFFIC CONTROL PLANS

STA. 838+50 TO STA. 851+50
SCALE: 1"=50'

PHASE I
WORK AREA 4

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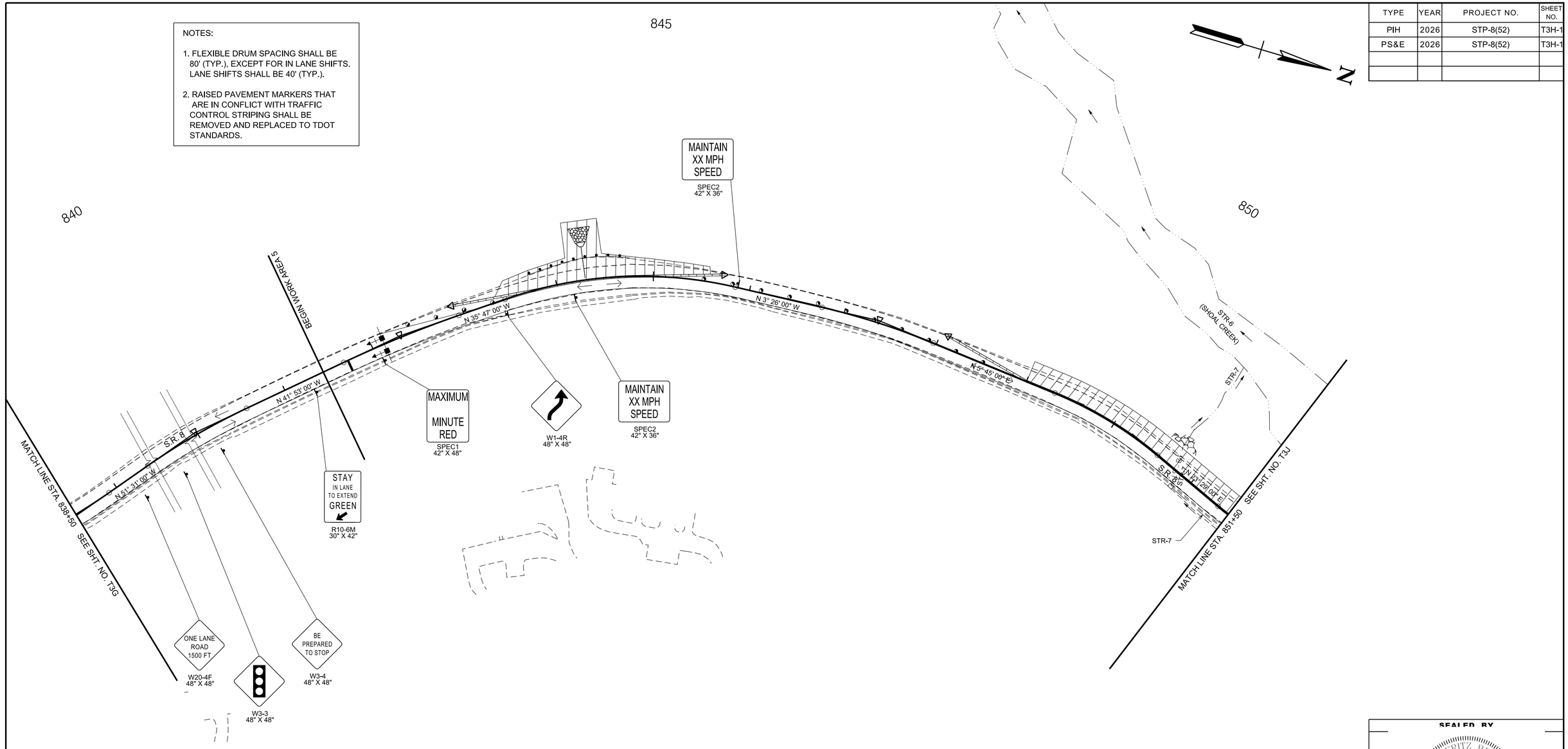
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T3H-1
PS&E	2026	STP-8(52)	T3H-1

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).
2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 838+50 TO STA. 851+50
SCALE: 1"=50'

PHASE I
WORK AREA 5

6/29/2026 9:58:59 AM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\0T3H-1.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T3J
PS&E	2026	STP-8(52)	T3J

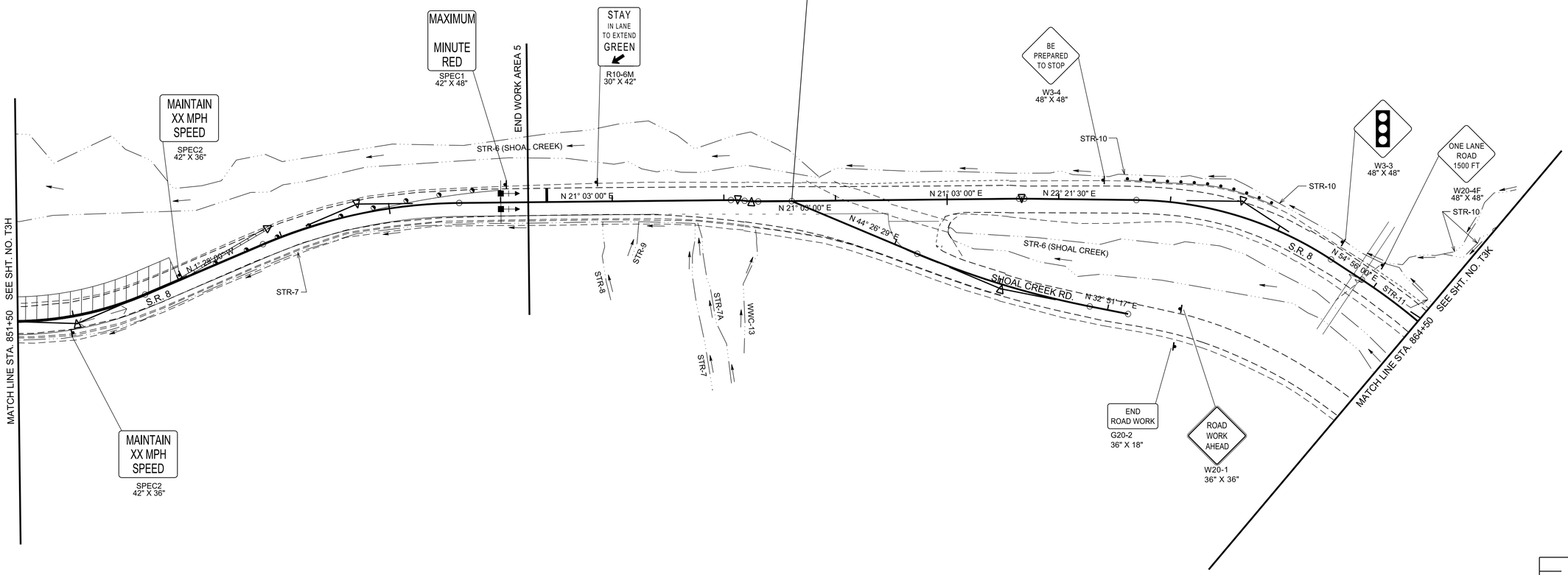
NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).
2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.

855

860

STA. 858+60.84 S.R. 8 =
STA. 60+00.00 SHOAL CREEK RD.
N 285872.9206
E 2161639.6807



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 851+50 TO STA. 864+50
SCALE: 1"= 50'

PHASE I
WORK AREA 5

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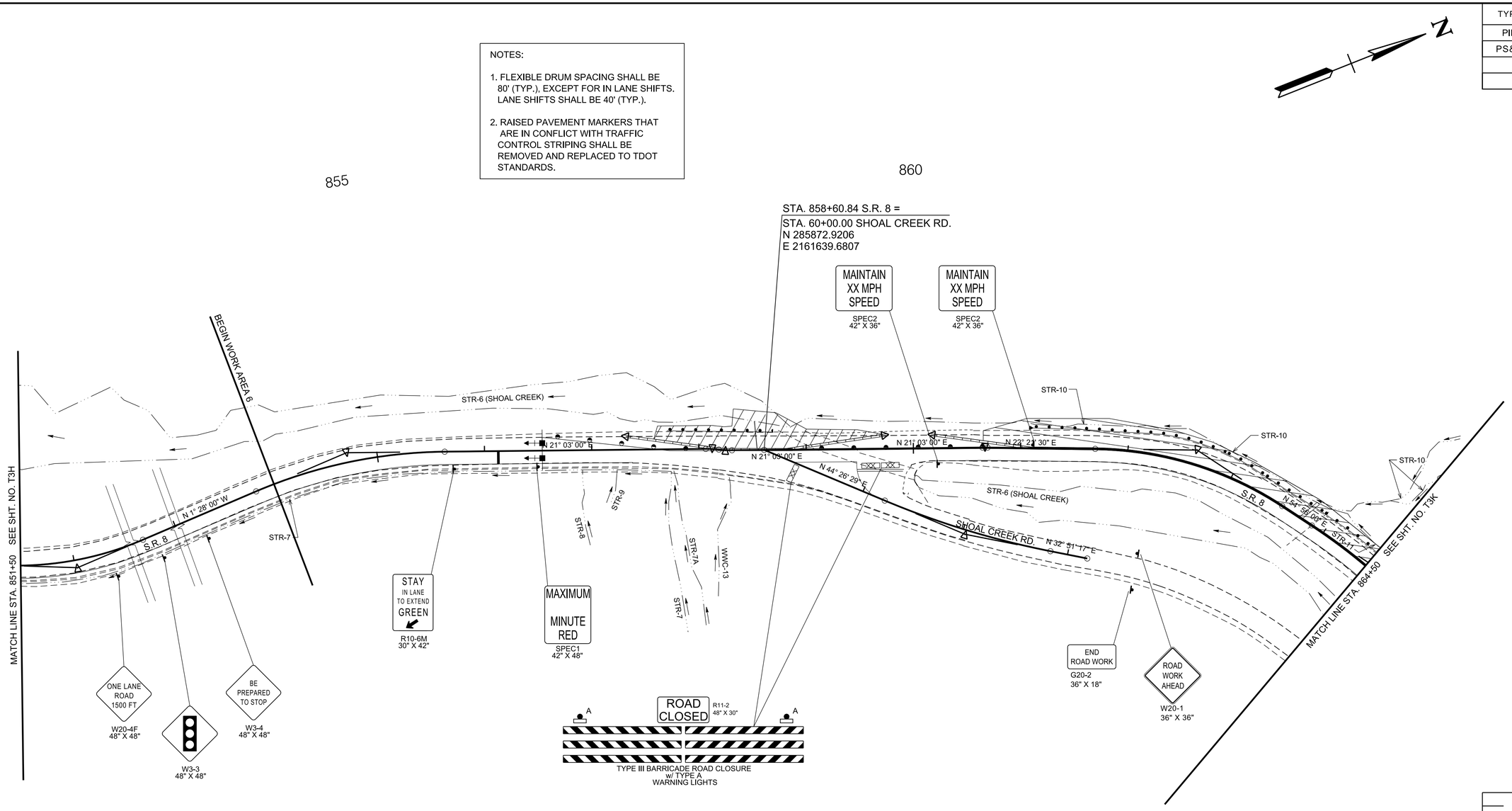
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T3J-1
PS&E	2026	STP-8(52)	T3J-1

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).
2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 851+50 TO STA. 864+50
SCALE: 1"= 50'

PHASE I
WORK AREA 6

6/29/2026 9:59:18 AM
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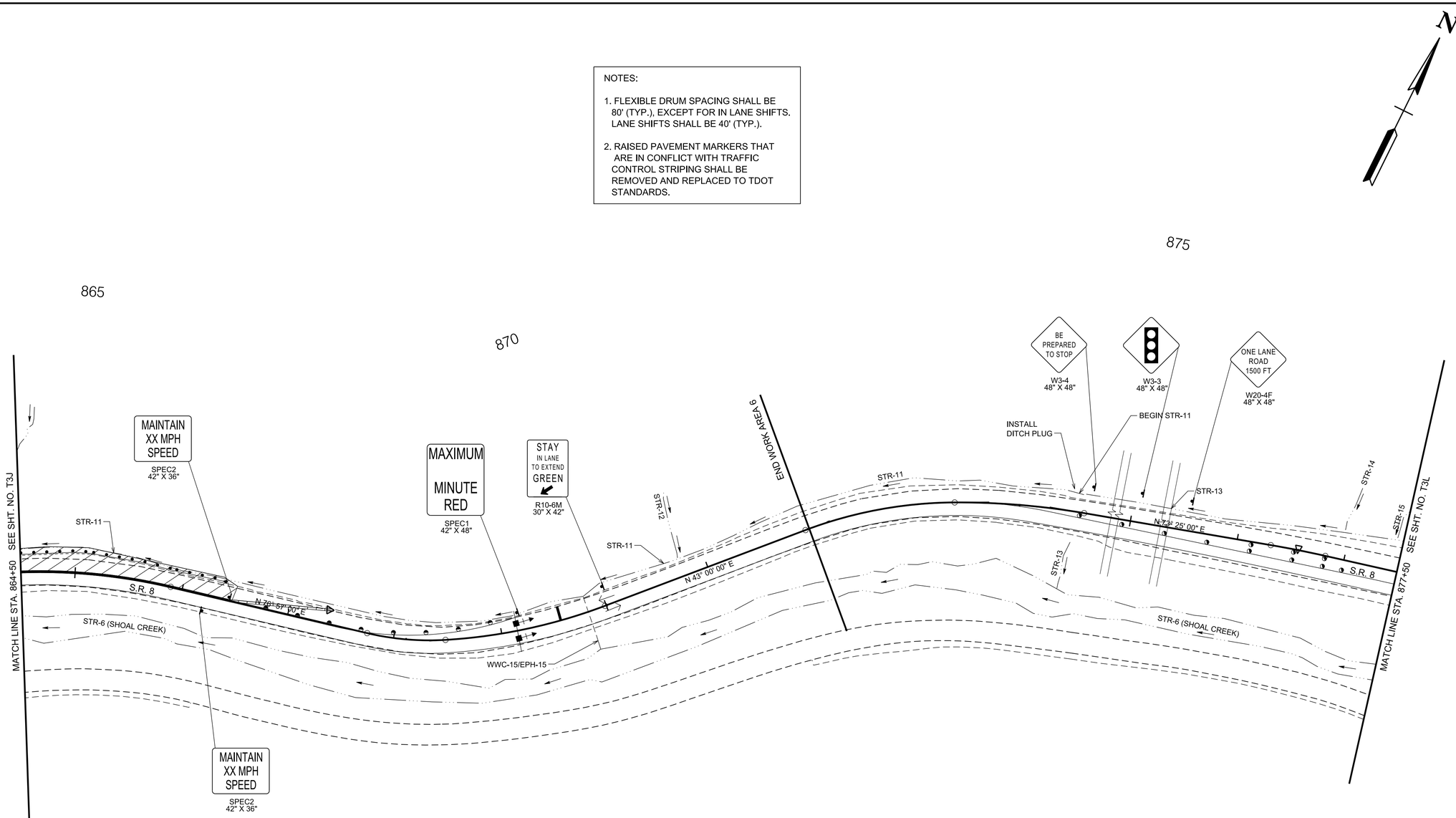
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T3K
PS&E	2026	STP-8(52)	T3K

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).

2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.



SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 864+50 TO STA. 877+50
SCALE: 1"= 50'

PHASE I
WORK AREA 6

6/29/2026 9:59:41 AM
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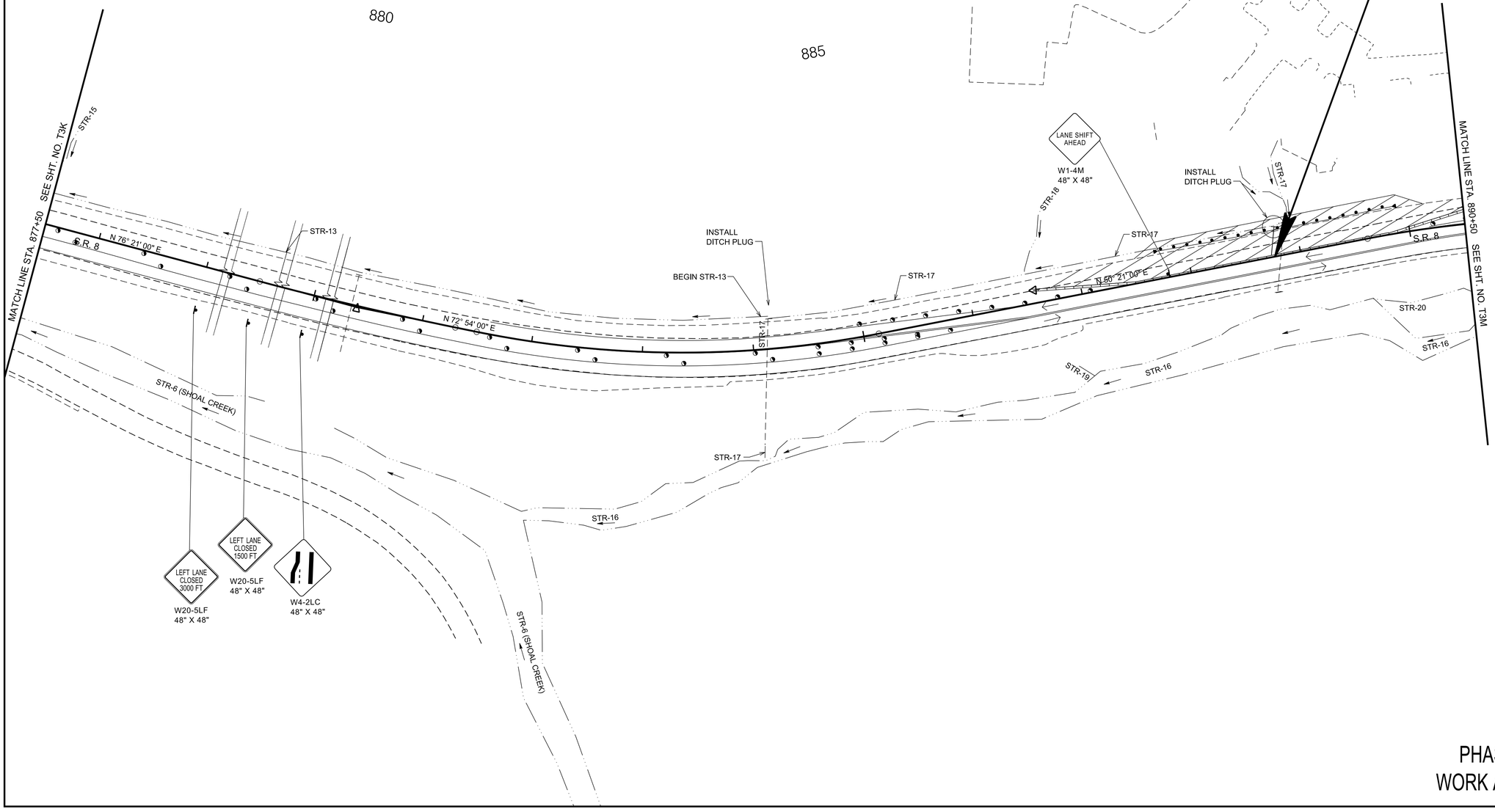
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T3L
PS&E	2026	STP-8(52)	T3L

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).
2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 877+50 TO STA. 890+50
SCALE: 1"= 50'

PHASE I
WORK AREA 7

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T3M
PS&E	2026	STP-8(52)	T3M

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).

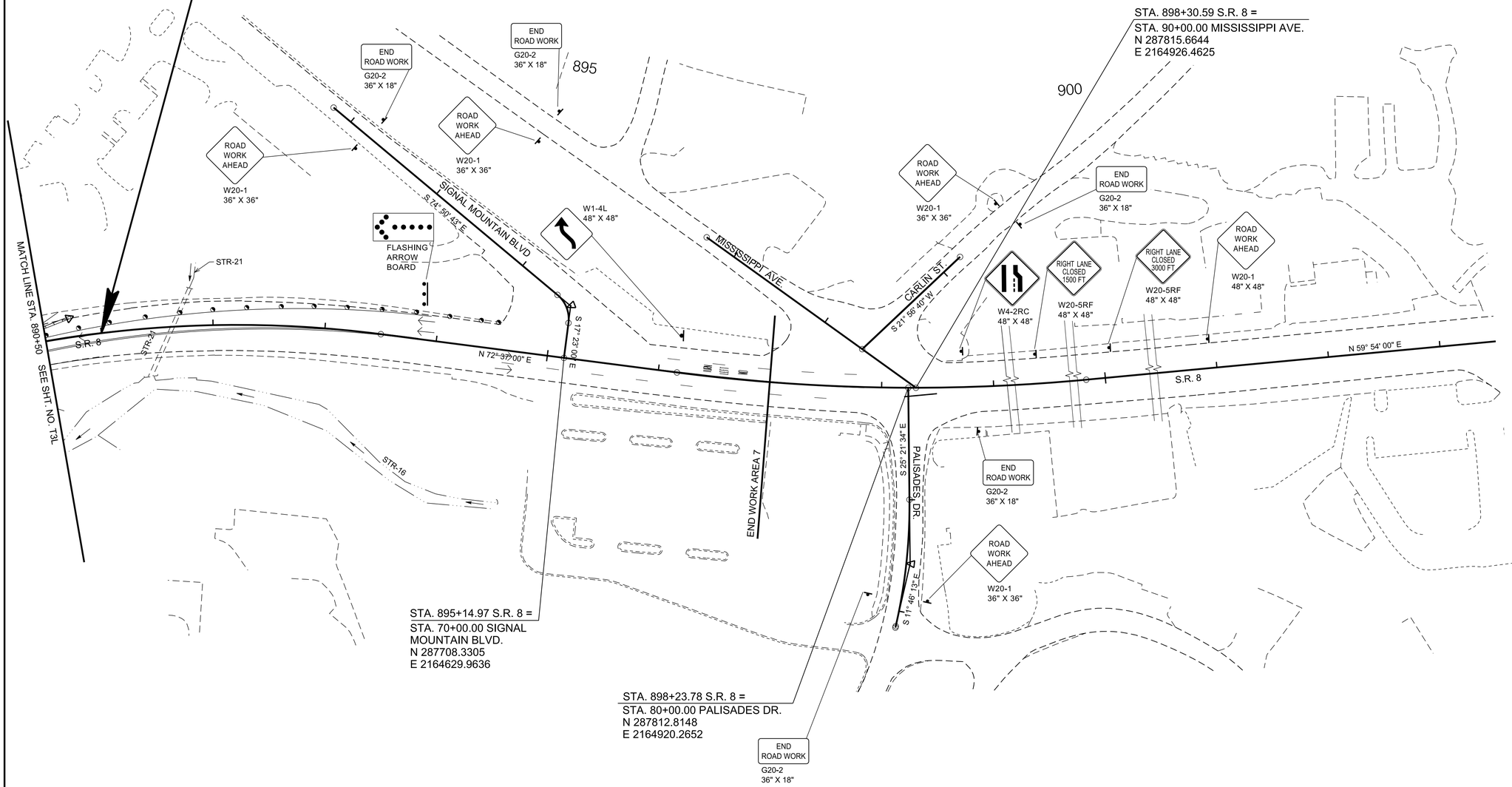
2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.

33021-3231-14
END PROJ. NO. STP-8(52) CONST.
STA. 891+00.00
N 287555.4249
E 2164245.7213

STA. 898+30.59 S.R. 8 =
STA. 90+00.00 MISSISSIPPI AVE.
N 287815.6644
E 2164926.4625

STA. 895+14.97 S.R. 8 =
STA. 70+00.00 SIGNAL MOUNTAIN BLVD.
N 287708.3305
E 2164629.9636

STA. 898+23.78 S.R. 8 =
STA. 80+00.00 PALISADES DR.
N 287812.8148
E 2164920.2652



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 890+50 TO STA. 903+50
SCALE: 1"= 50'

PHASE I
WORK AREA 7

6/29/2026 9:59:57 AM
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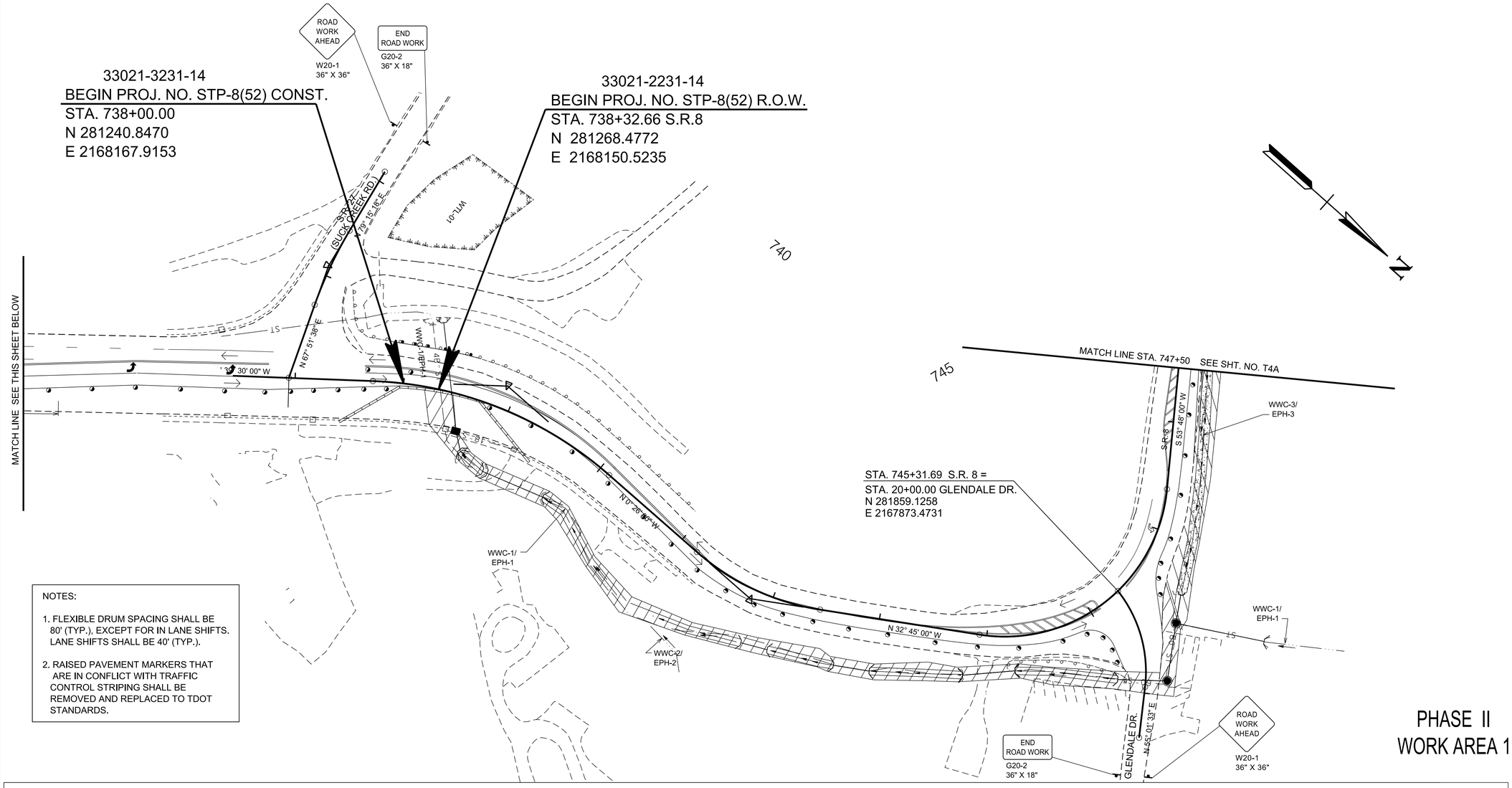
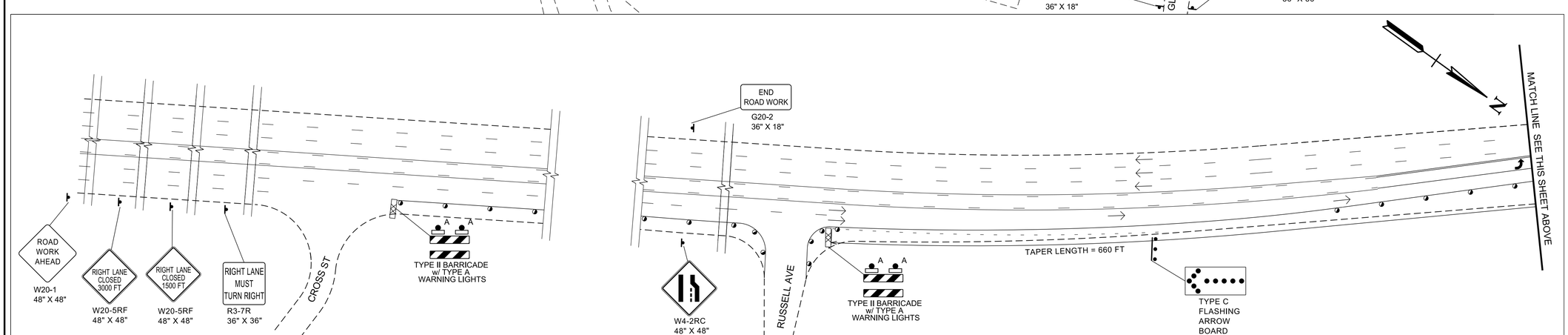
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T4
PS&E	2026	STP-8(52)	T4



NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).
2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.

PHASE II
WORK AREA 1



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 735+50 TO STA. 747+50
SCALE: 1"= 50'

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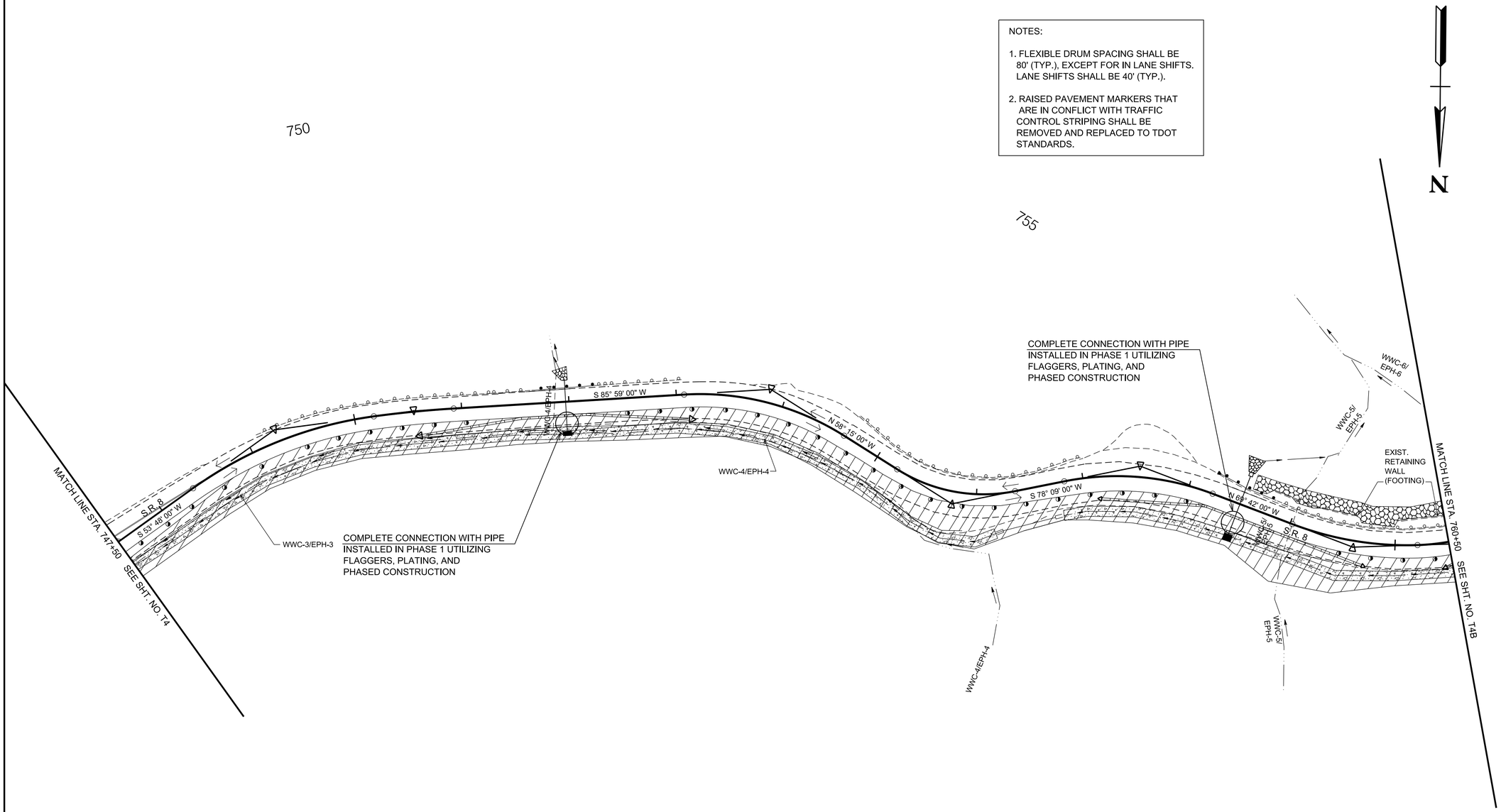
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T4A
PS&E	2026	STP-8(52)	T4A

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).

2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA.747+50 TO STA.760+50
SCALE: 1"=50'

PHASE II
WORK AREA 1

6/29/2026 10:00:16 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T4B
PS&E	2026	STP-8(52)	T4B

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).

2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.

765

770

N

MATCH LINE STA. 760+50 SEE SHT. NO. T4A

EXIST. RETAINING WALL (FOOTING)

WWC-8/EPH-6

S 8° 13' 00" W

S R 8

N 82° 50' 00" W

COMPLETE CONNECTION WITH PIPE INSTALLED IN PHASE 1 UTILIZING FLAGGERS, PLATING, AND PHASED CONSTRUCTION

WWC-8/ EPH-8

WWC-8/ EPH-8

S 77° 27' 00" W

S R 8

WWC-8/EPH-8

WWC-9

MATCH LINE STA. 773+50 SEE SHT. NO. T4C

WWC-7/ EPH-7

WWC-8/ EPH-8

COMPLETE CONNECTION WITH PIPE INSTALLED IN PHASE 1 UTILIZING FLAGGERS, PLATING, AND PHASED CONSTRUCTION

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE & INSURANCE
STATE OF TENNESSEE

6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA.760+50 TO STA.773+50
SCALE: 1"=50'

PHASE II
WORK AREA 1

6/29/2026 10:00:27 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T4C
PS&E	2026	STP-8(52)	T4C

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).

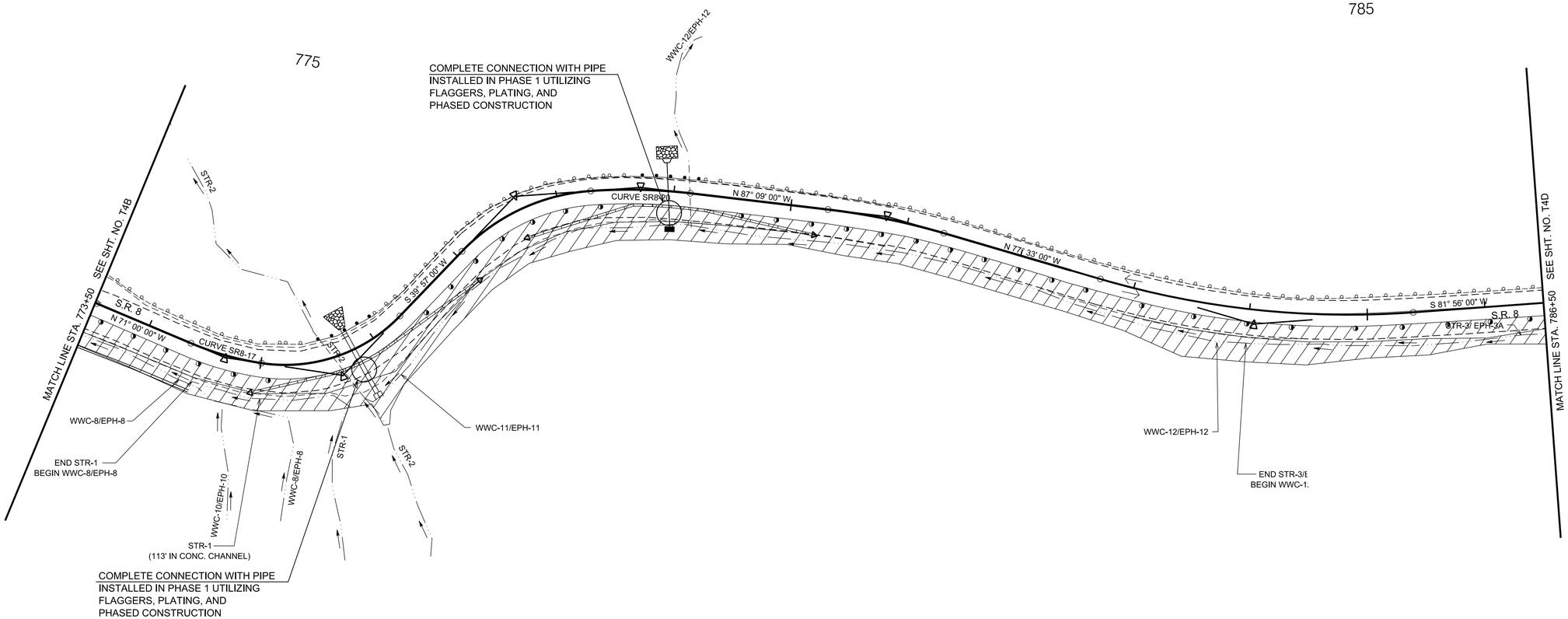
2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.

780

775

785

N



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA.773+50 TO STA.786+50
SCALE: 1"=50'

PHASE II
WORK AREA 1

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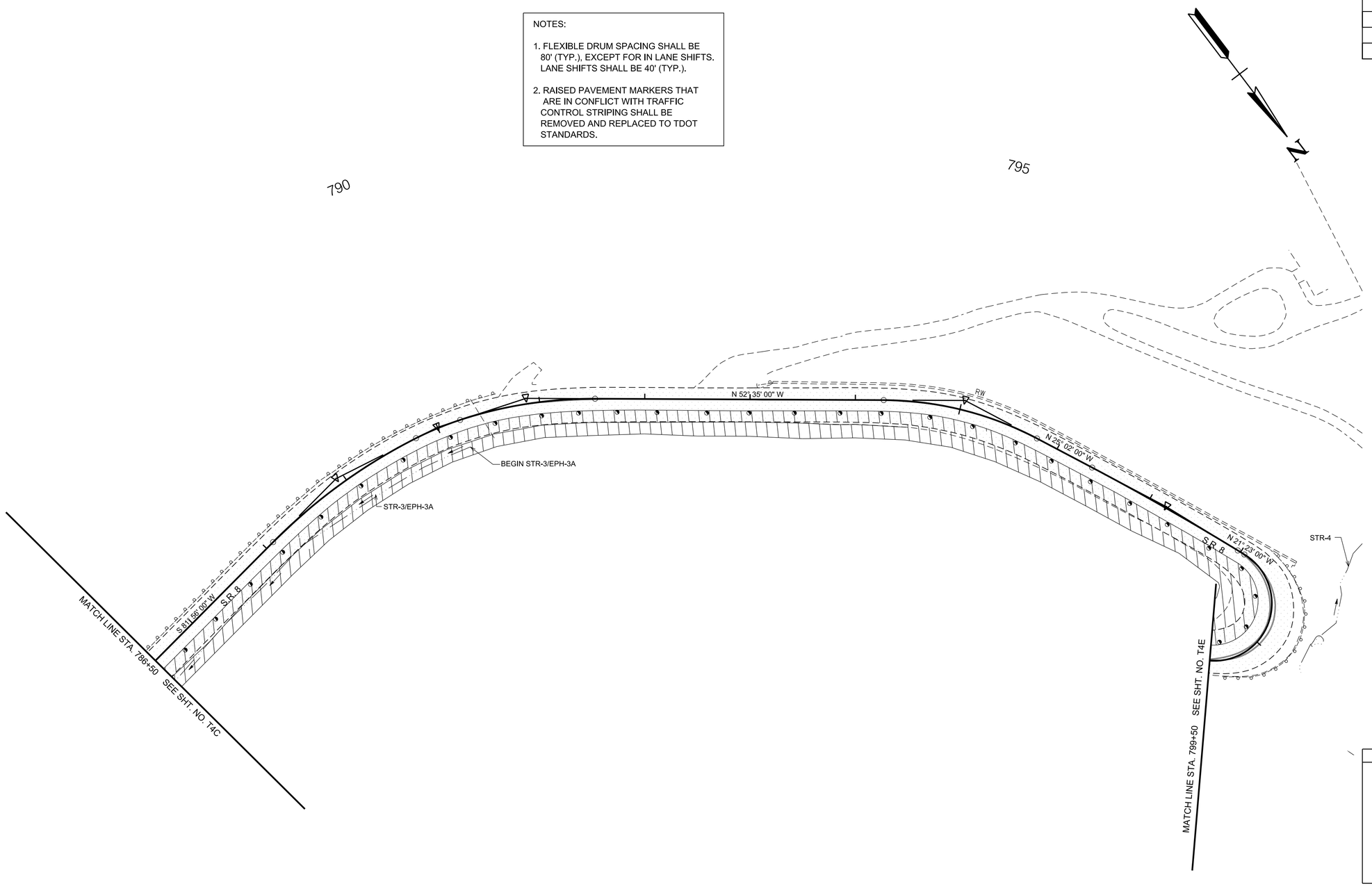
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T4D
PS&E	2026	STP-8(52)	T4D

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).

2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA.786+50 TO STA.799+50
SCALE: 1"=50'

PHASE II
WORK AREA 1

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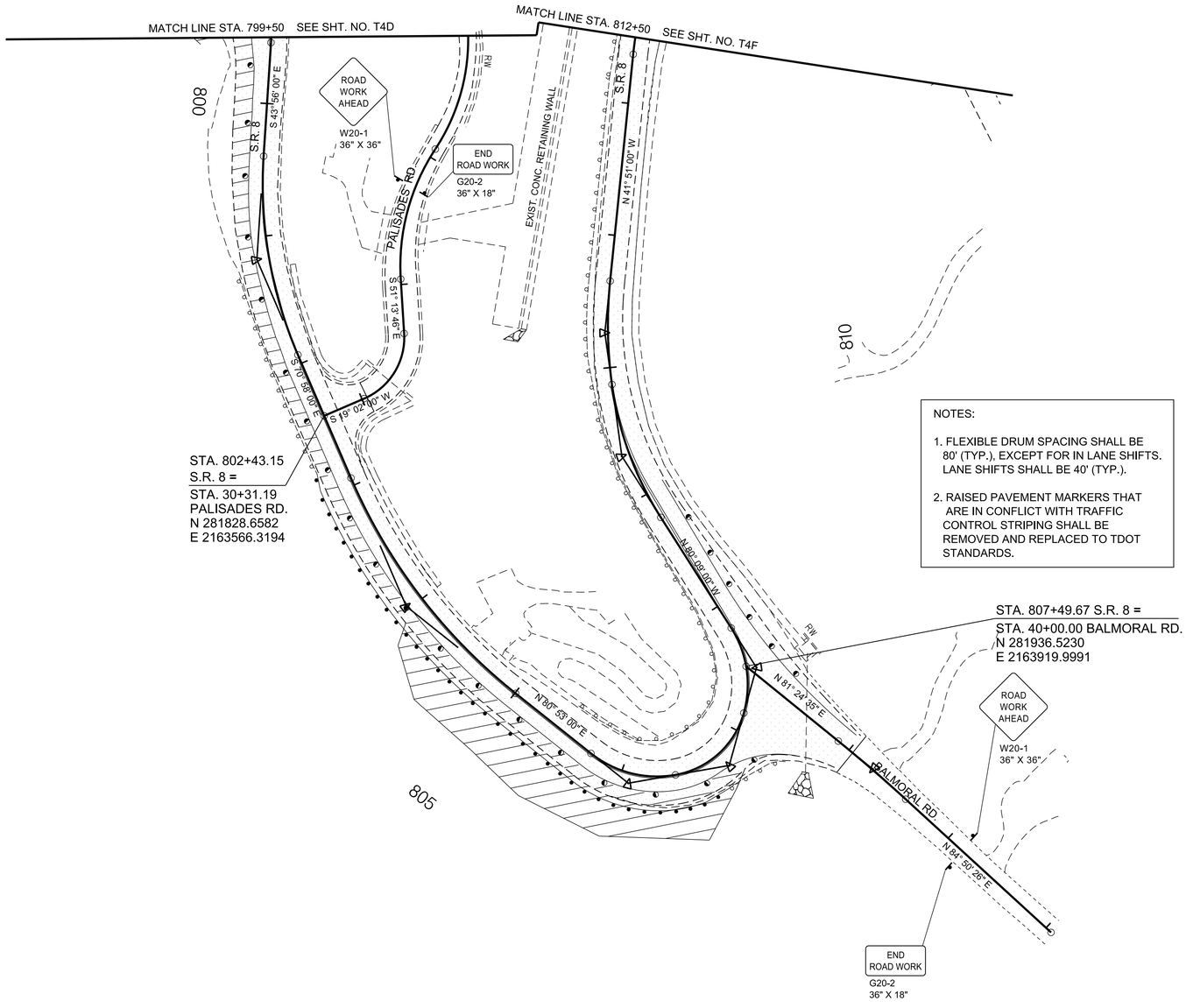
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T4E
PS&E	2026	STP-8(52)	T4E



NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).

2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.

SEALED BY

JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 799+50 TO STA. 812+50
SCALE: 1"= 50'

PHASE II
WORK AREA 1

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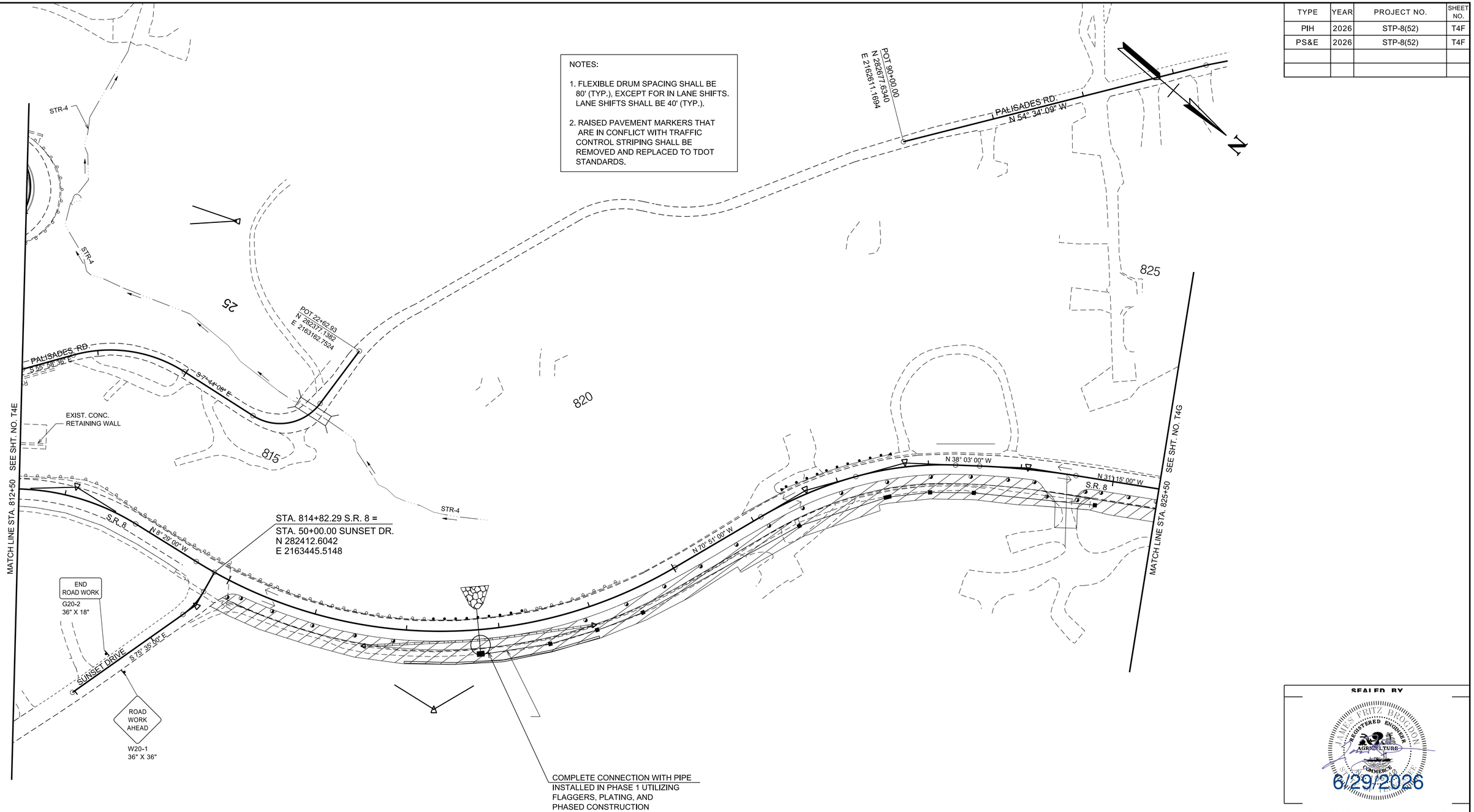
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T4F
PS&E	2026	STP-8(52)	T4F

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).
2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.



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JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

PHASE II
WORK AREA 1

STA. 812+50 TO STA. 825+50
SCALE: 1"= 50'

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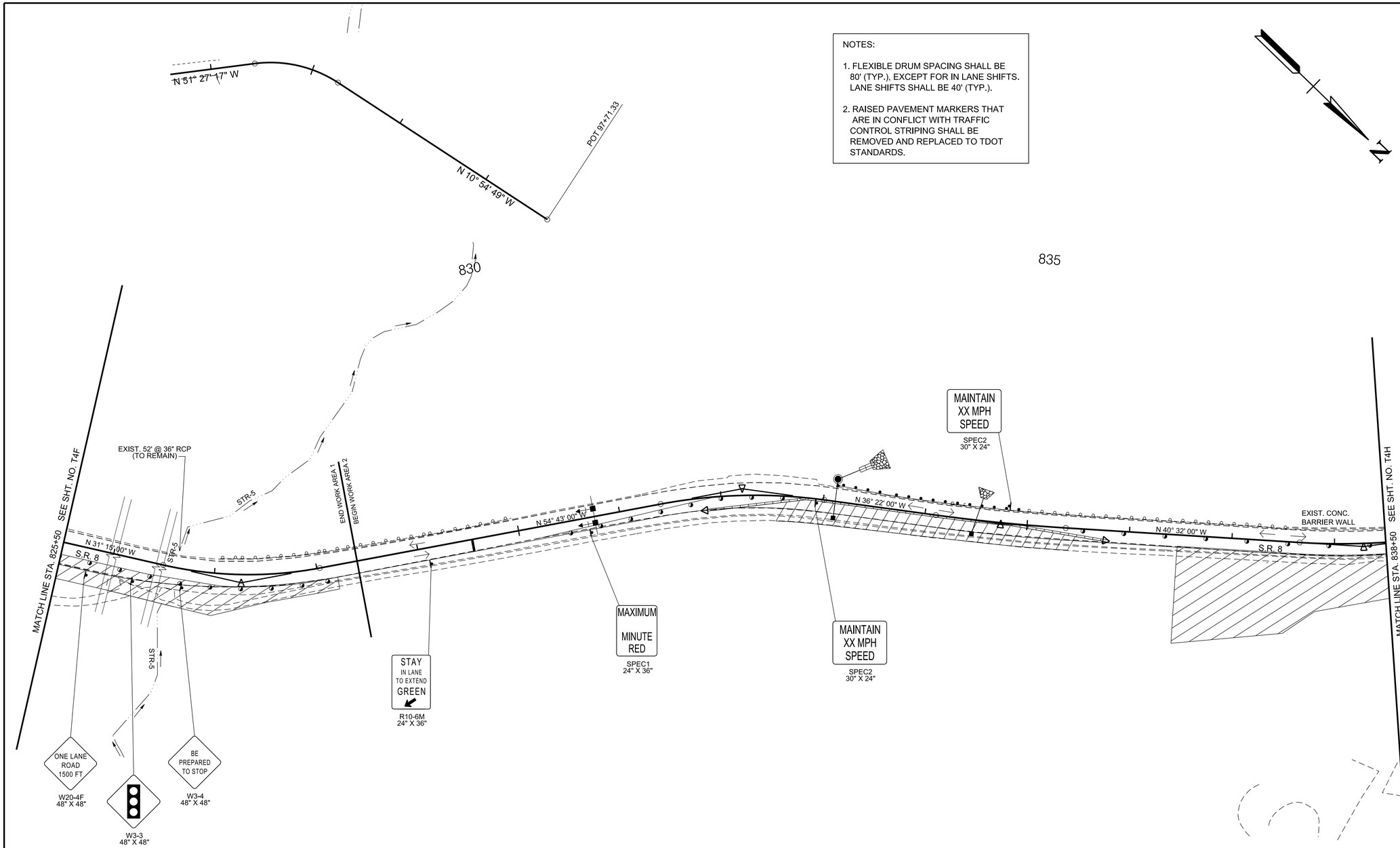
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T4G
PS&E	2026	STP-8(52)	T4G

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).
2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.



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JAMES FRITZ BROGDON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE
6/29/2026

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 825+50 TO STA. 838+50
SCALE: 1"= 50'

PHASE II
WORK AREA 2

6/29/2026 10:01:14 AM
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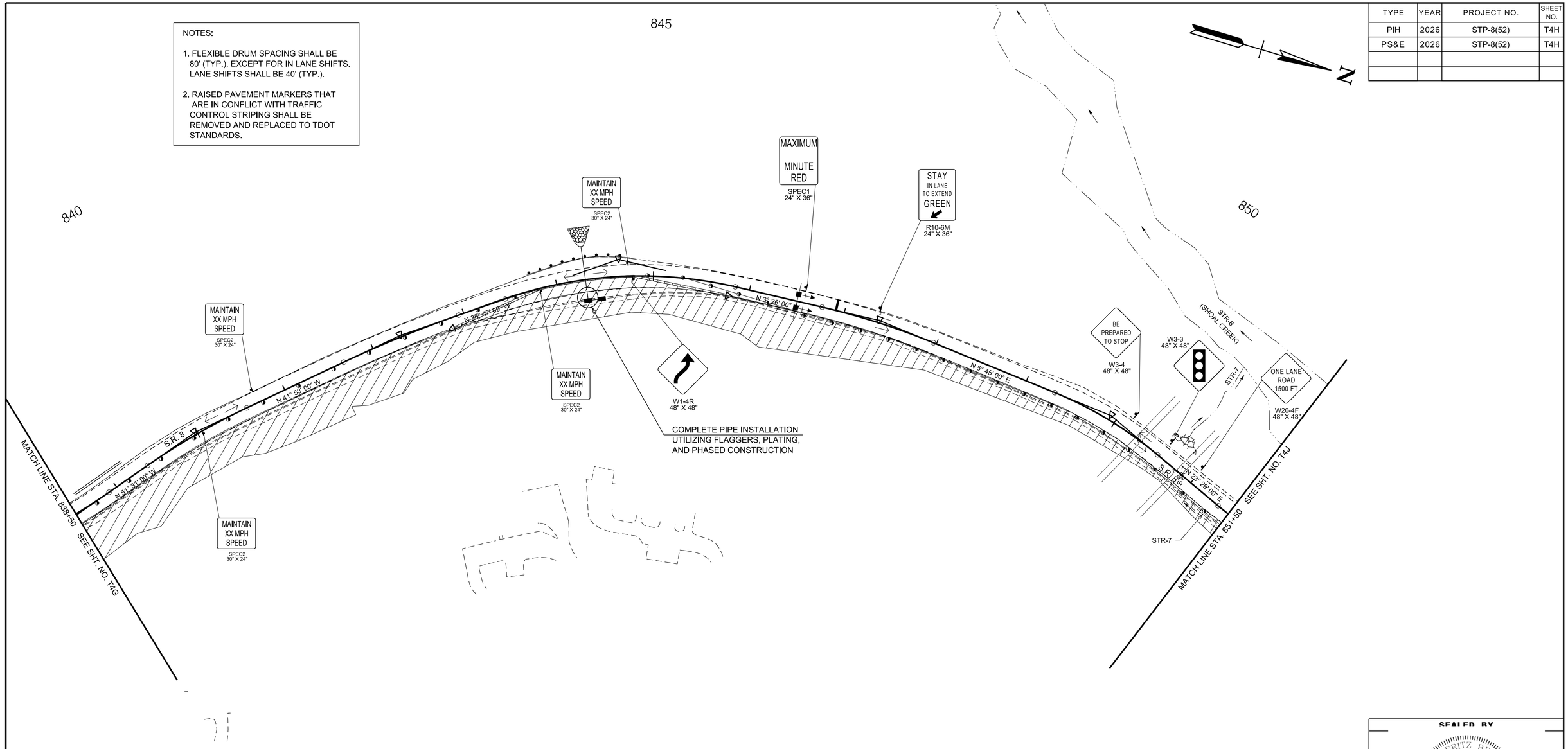
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T4H
PS&E	2026	STP-8(52)	T4H

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).

2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 838+50 TO STA. 851+50
SCALE: 1"=50'

PHASE II
WORK AREA 2

6/29/2026 10:01:23 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T4J
PS&E	2026	STP-8(52)	T4J

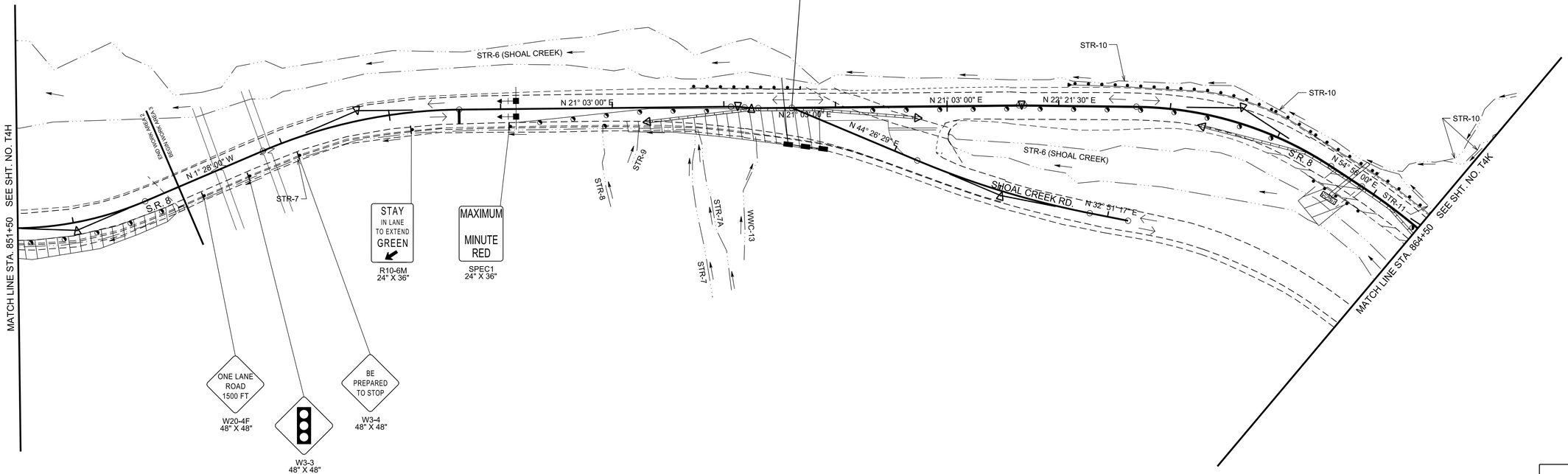
NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).
2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.

855

860

STA. 858+60.84 S.R. 8 =
STA. 60+00.00 SHOAL CREEK RD.
N 285872.9206
E 2161639.6807



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 851+50 TO STA. 864+50
SCALE: 1"= 50'

PHASE II
WORK AREA 3

6/29/2026 10:01:32 AM
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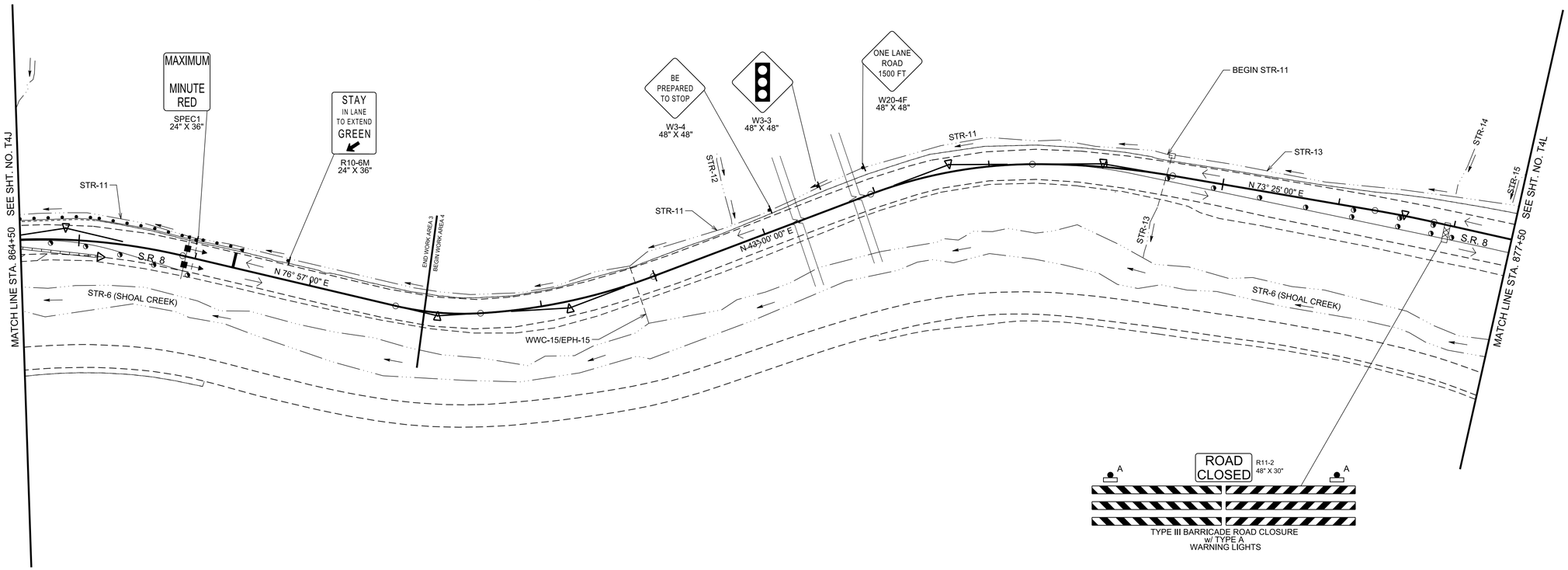
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T4K
PS&E	2026	STP-8(52)	T4K

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).
2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 864+50 TO STA. 877+50
SCALE: 1"= 50'

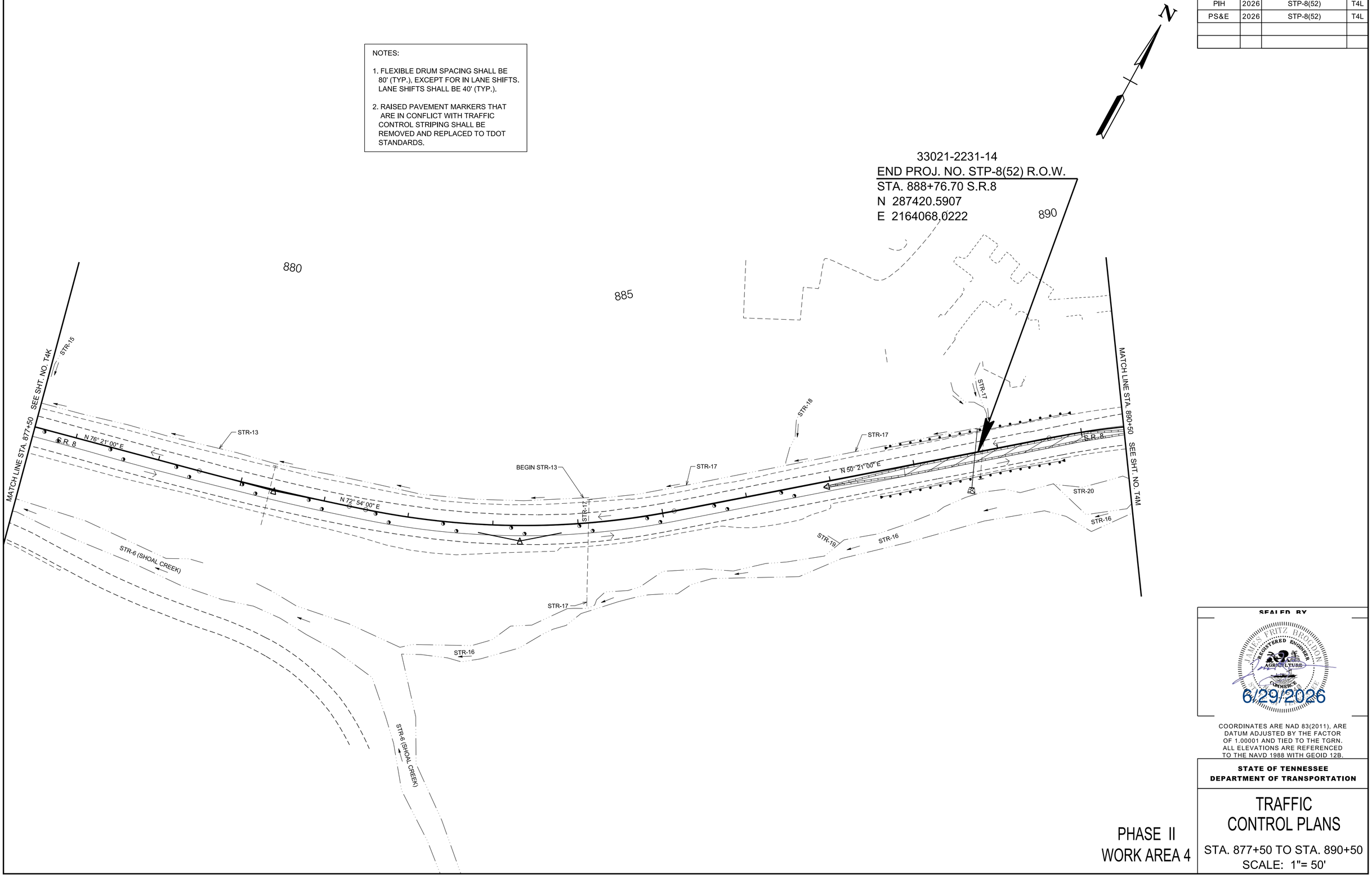
PHASE II
WORK AREA 3&4

6/29/2026 10:01:41 AM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\0T4K.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T4L
PS&E	2026	STP-8(52)	T4L

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).
2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

PHASE II
WORK AREA 4

STA. 877+50 TO STA. 890+50
SCALE: 1"= 50'

6/29/2026 10:01:50 AM
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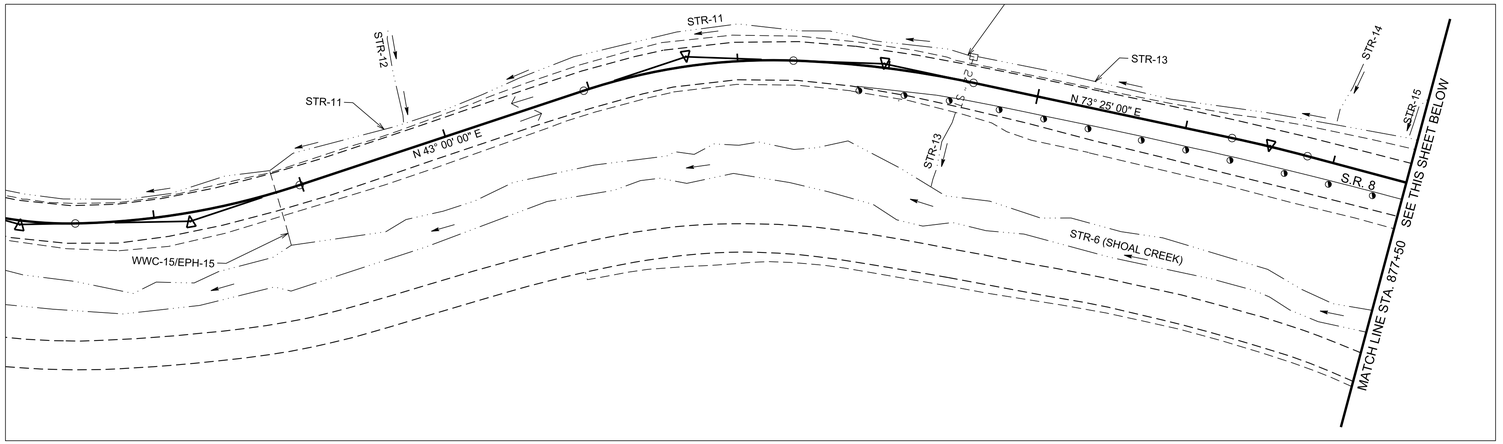
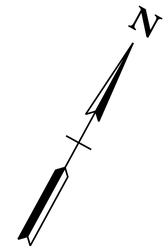
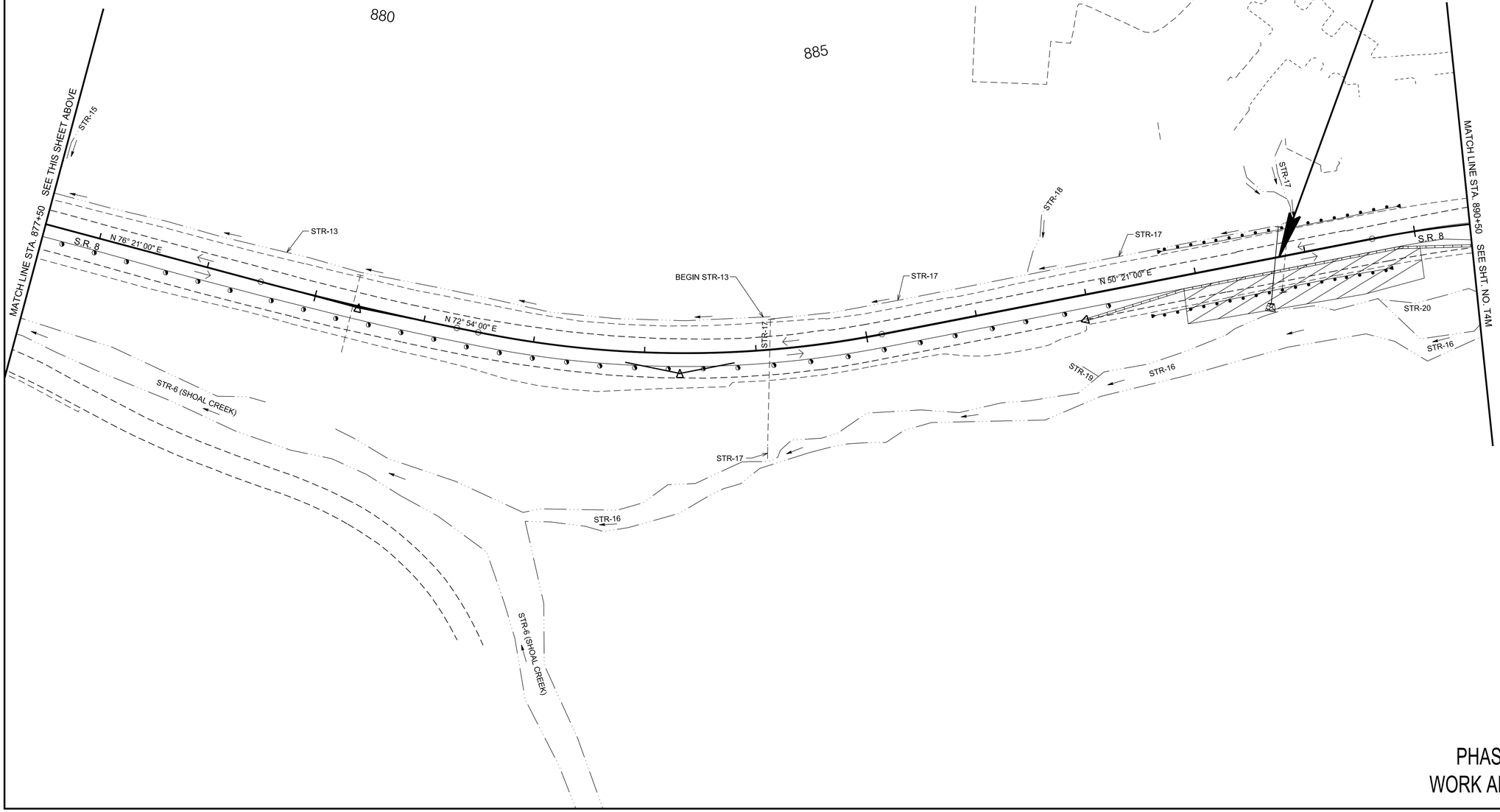
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T4L-1
PS&E	2026	STP-8(52)	T4L-1





33021-2231-14
END PROJ. NO. STP-8(52) R.O.W.
STA. 888+76.70 S.R.8
N 287420.5907
E 2164068.0222



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 877+50 TO STA. 890+50
SCALE: 1"= 50'

PHASE II
WORK AREA 4.1

6/29/2026 10:01:59 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T4M
PS&E	2026	STP-8(52)	T4M

NOTES:

1. FLEXIBLE DRUM SPACING SHALL BE 80' (TYP.), EXCEPT FOR IN LANE SHIFTS. LANE SHIFTS SHALL BE 40' (TYP.).

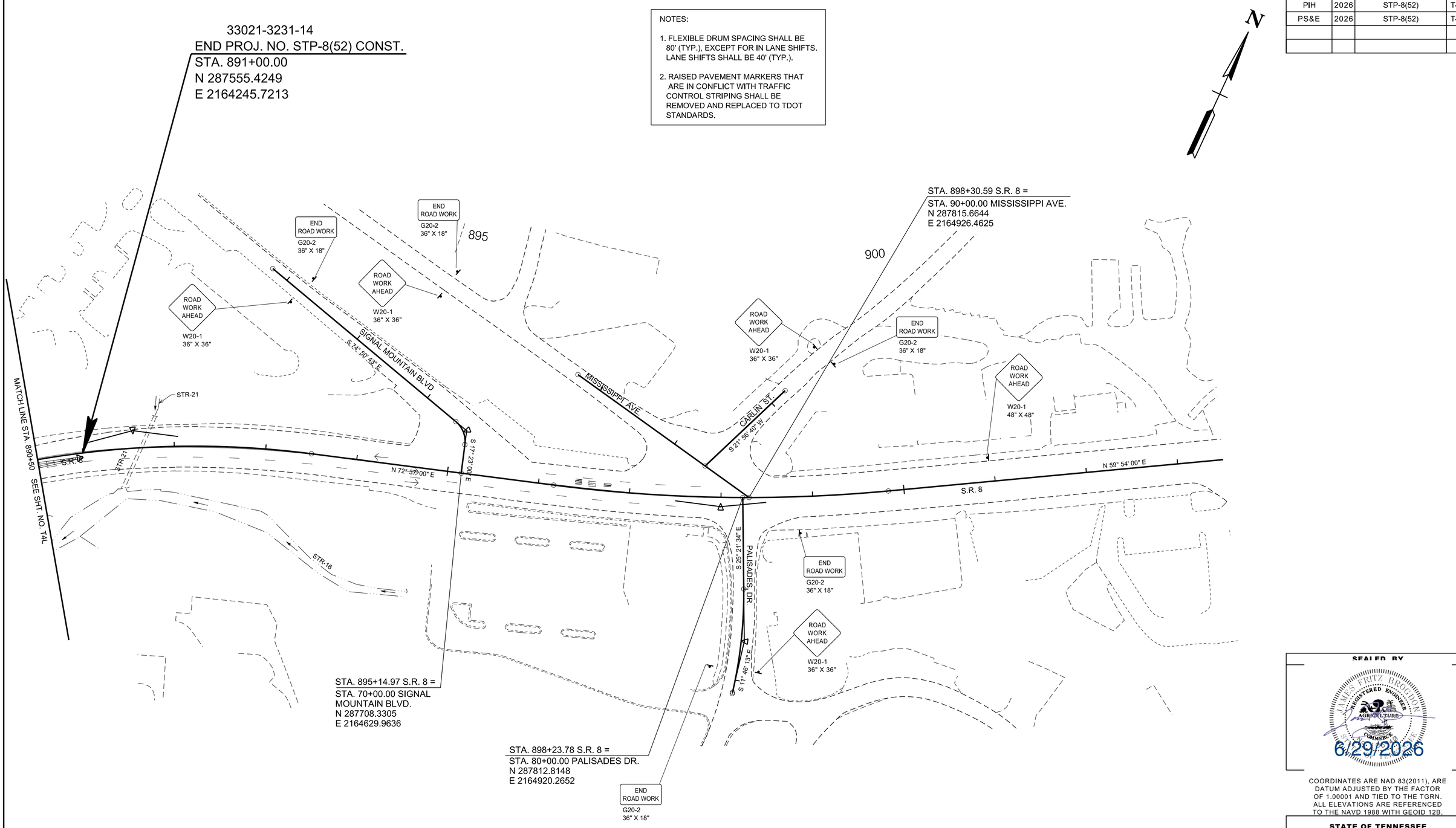
2. RAISED PAVEMENT MARKERS THAT ARE IN CONFLICT WITH TRAFFIC CONTROL STRIPING SHALL BE REMOVED AND REPLACED TO TDOT STANDARDS.

33021-3231-14
END PROJ. NO. STP-8(52) CONST.
STA. 891+00.00
N 287555.4249
E 2164245.7213

STA. 898+30.59 S.R. 8 =
STA. 90+00.00 MISSISSIPPI AVE.
N 287815.6644
E 2164926.4625

STA. 895+14.97 S.R. 8 =
STA. 70+00.00 SIGNAL MOUNTAIN BLVD.
N 287708.3305
E 2164629.9636

STA. 898+23.78 S.R. 8 =
STA. 80+00.00 PALISADES DR.
N 287812.8148
E 2164920.2652



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 890+50 TO STA. 903+50
SCALE: 1"= 50'

PHASE II
WORK AREA 4

6/29/2026 10:02:07 AM
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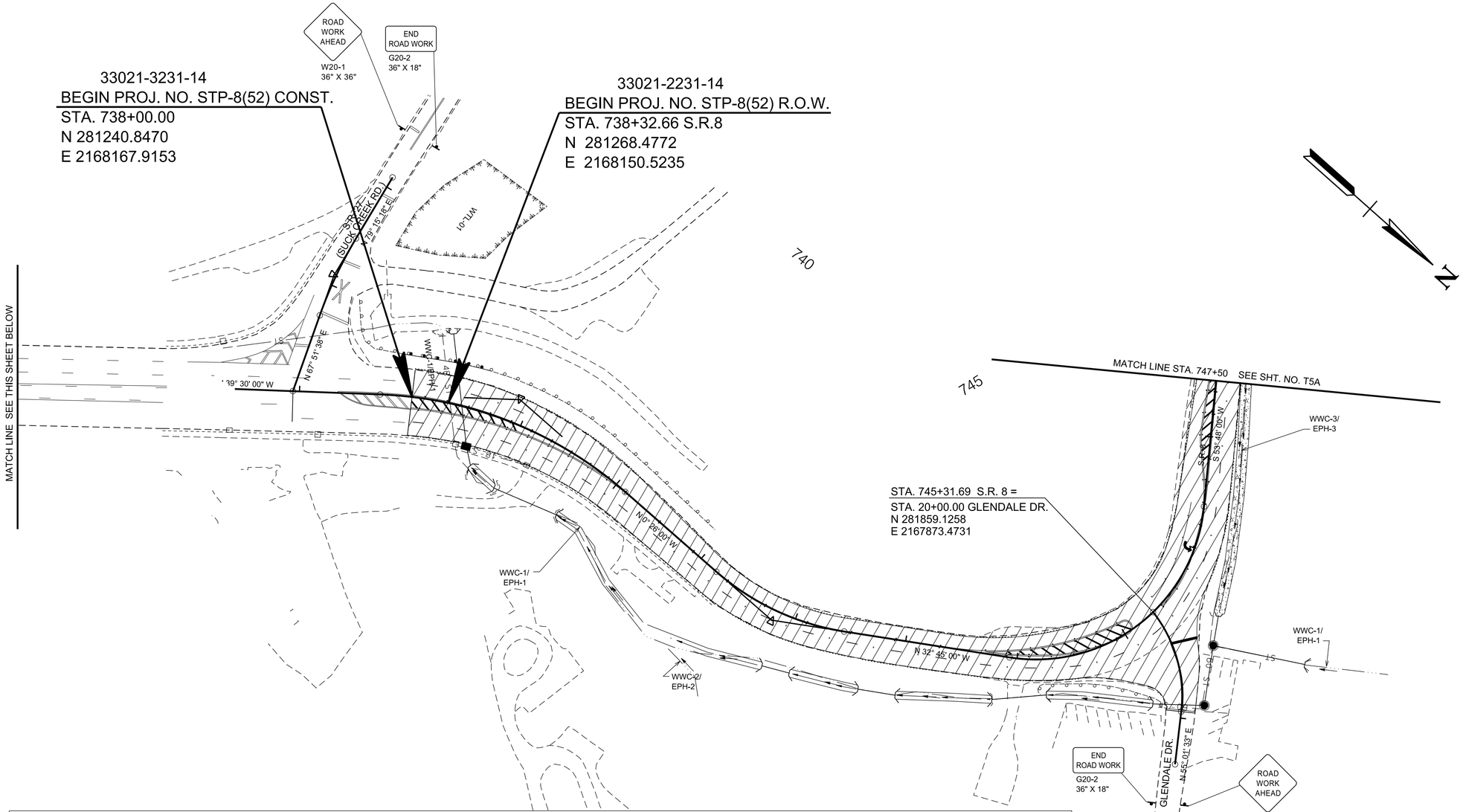
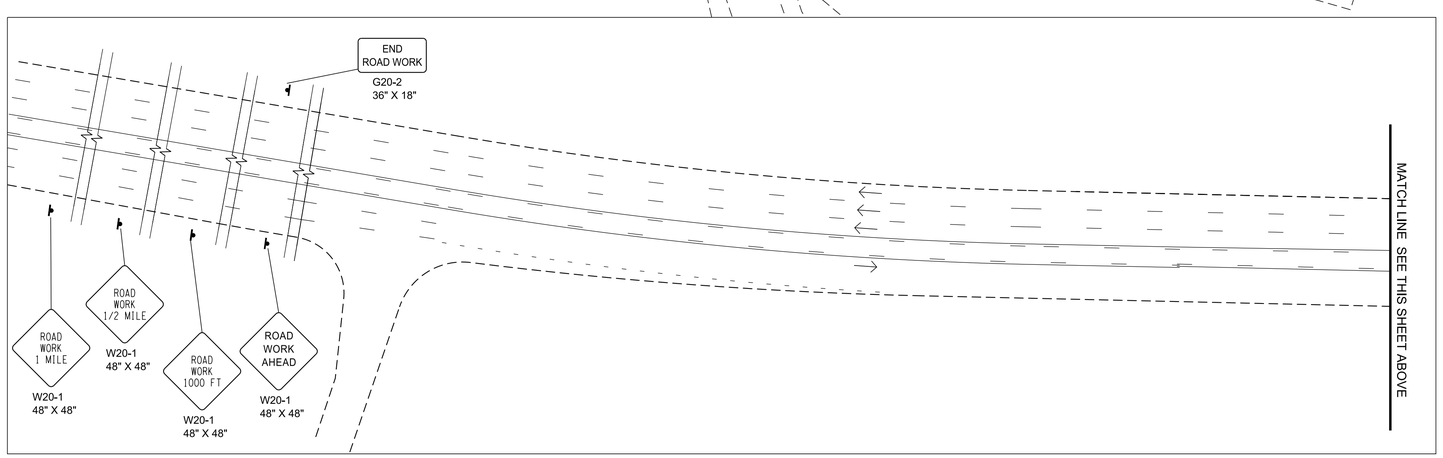
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T5
PS&E	2026	STP-8(52)	T5





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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 735+50 TO STA. 747+50
SCALE: 1"= 50'

PHASE III

6/29/2026 10:02:16 AM
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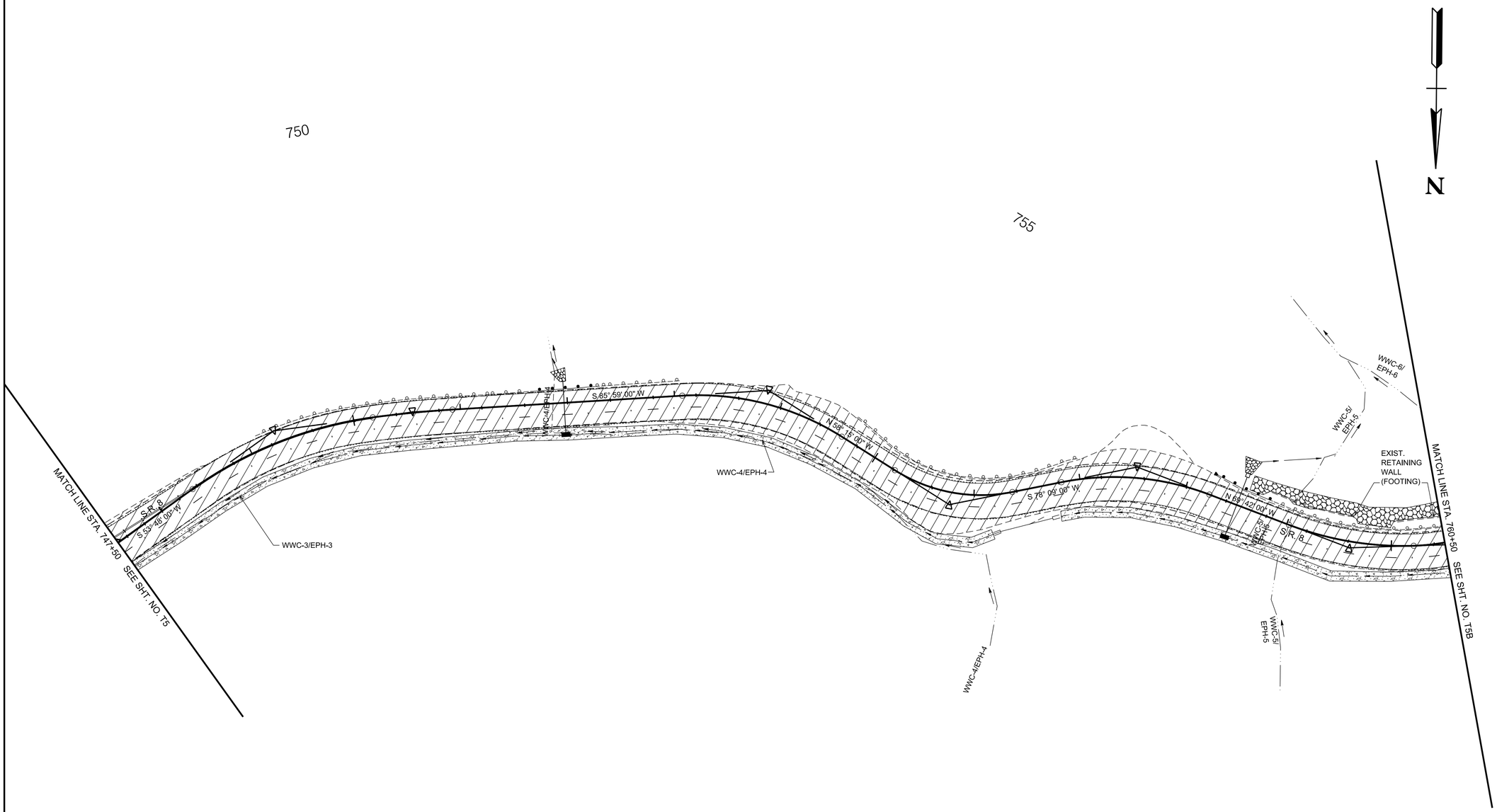
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T5A
PS&E	2026	STP-8(52)	T5A



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA.747+50 TO STA.760+50
SCALE: 1"=50'

PHASE III

6/29/2026 10:02:24 AM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\0T5A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T5B
PS&E	2026	STP-8(52)	T5B

765

770

N

MATCH LINE STA. 760+50 SEE SHT. NO. T5A

EXIST. RETAINING WALL (FOOTING)

WWC-8/EPH-6

WWC-8/EPH-5

S 8° 13' 00" W

S.R. 8

WWC-7/ EPH-7

WWC-6/ EPH-6

N 82° 50' 00" W

WWC-8/ EPH-8

WWC-8/EPH-8

S 77° 27' 00" W

S.R. 8

WWC-8/EPH-8

WWC-9

MATCH LINE STA. 773+50 SEE SHT. NO. T5C

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA.760+50 TO STA.773+50
SCALE: 1"=50'

PHASE III

6/29/2026 10:02:33 AM
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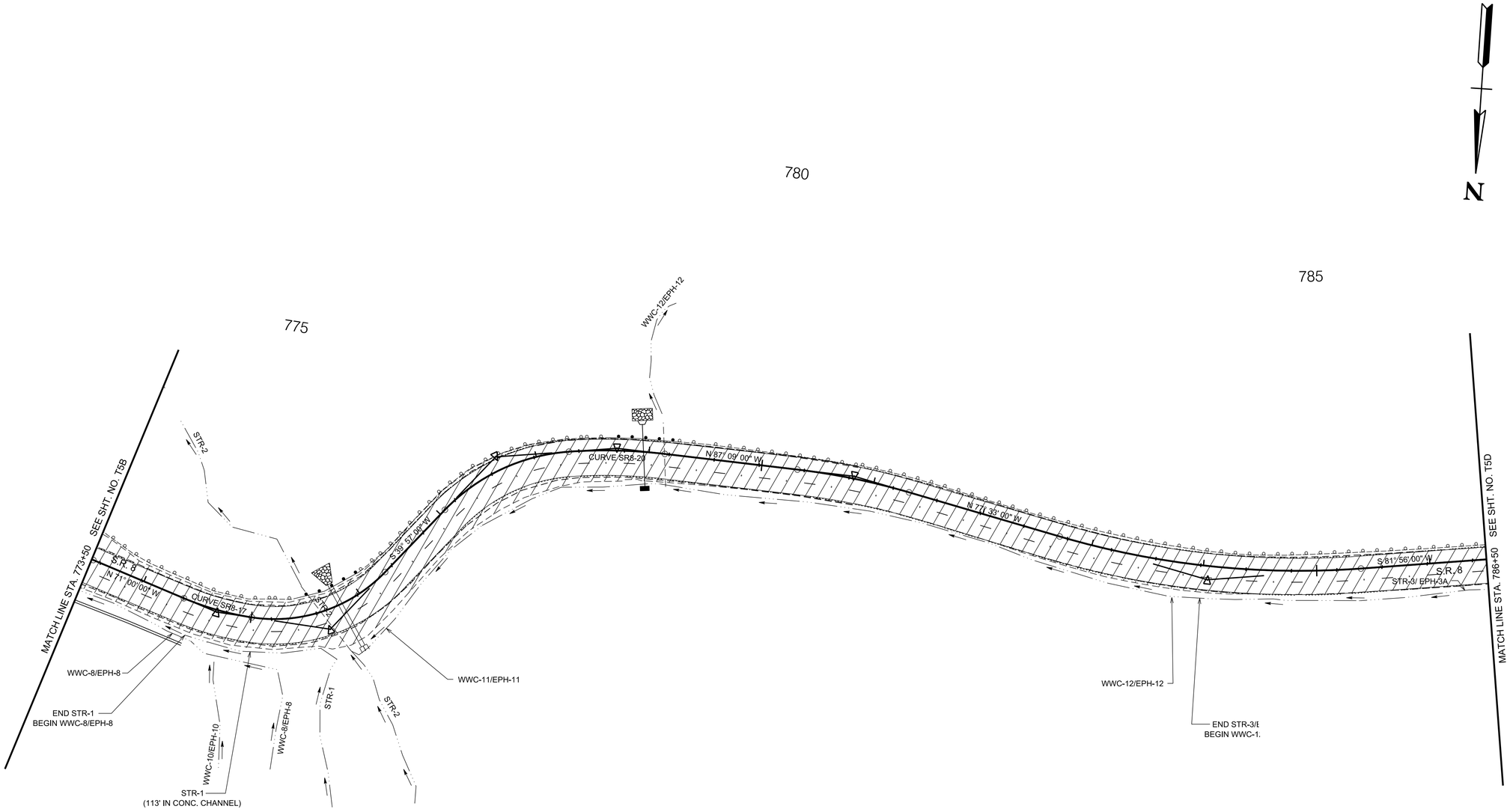
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T5C
PS&E	2026	STP-8(52)	T5C



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA.773+50 TO STA.786+50
SCALE: 1"=50'

PHASE III

6/29/2026 10:02:41 AM
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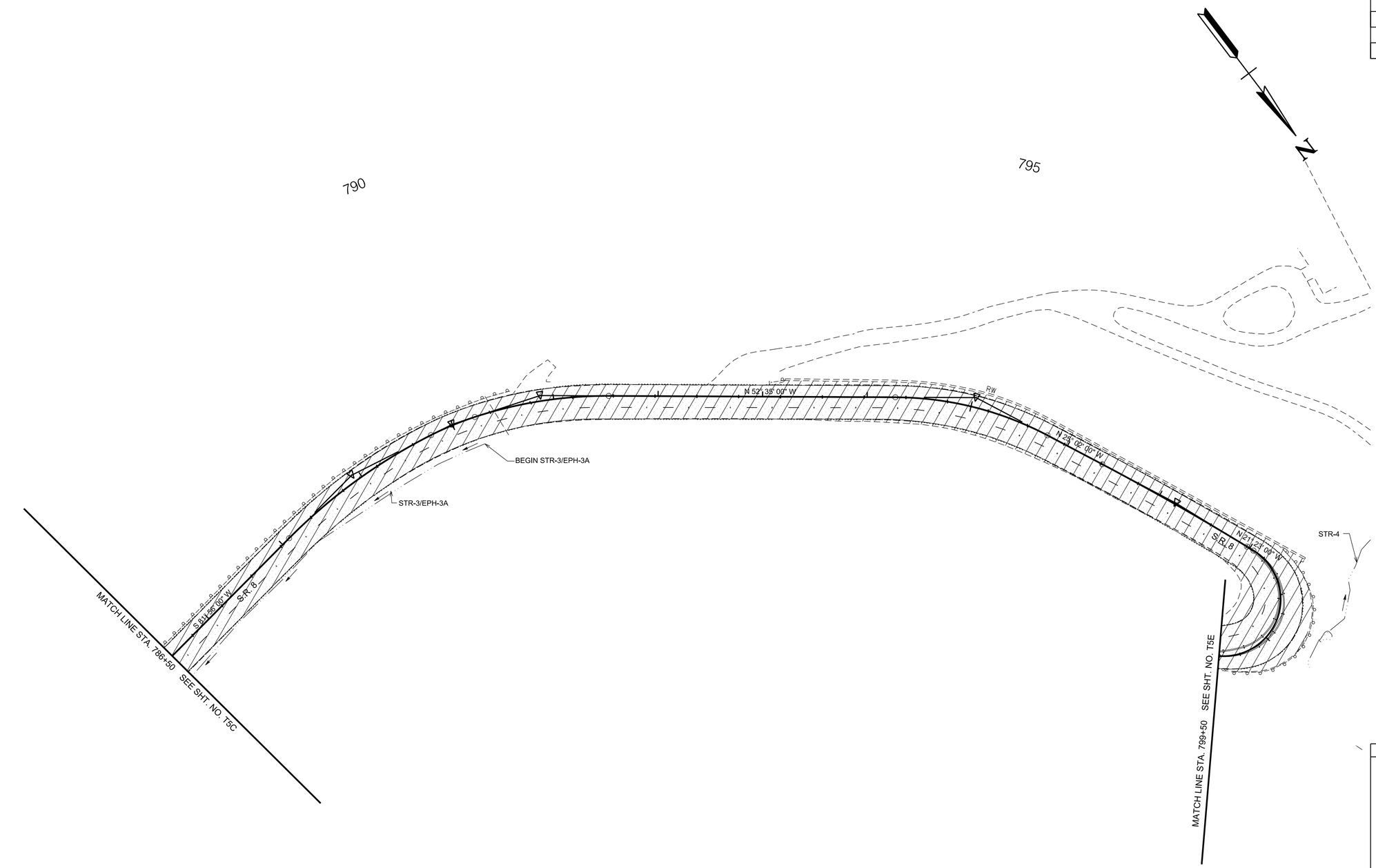
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T5D
PS&E	2026	STP-8(52)	T5D



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA.786+50 TO STA.799+50
SCALE: 1"=50'

PHASE III

6/29/2026 10:02:49 AM
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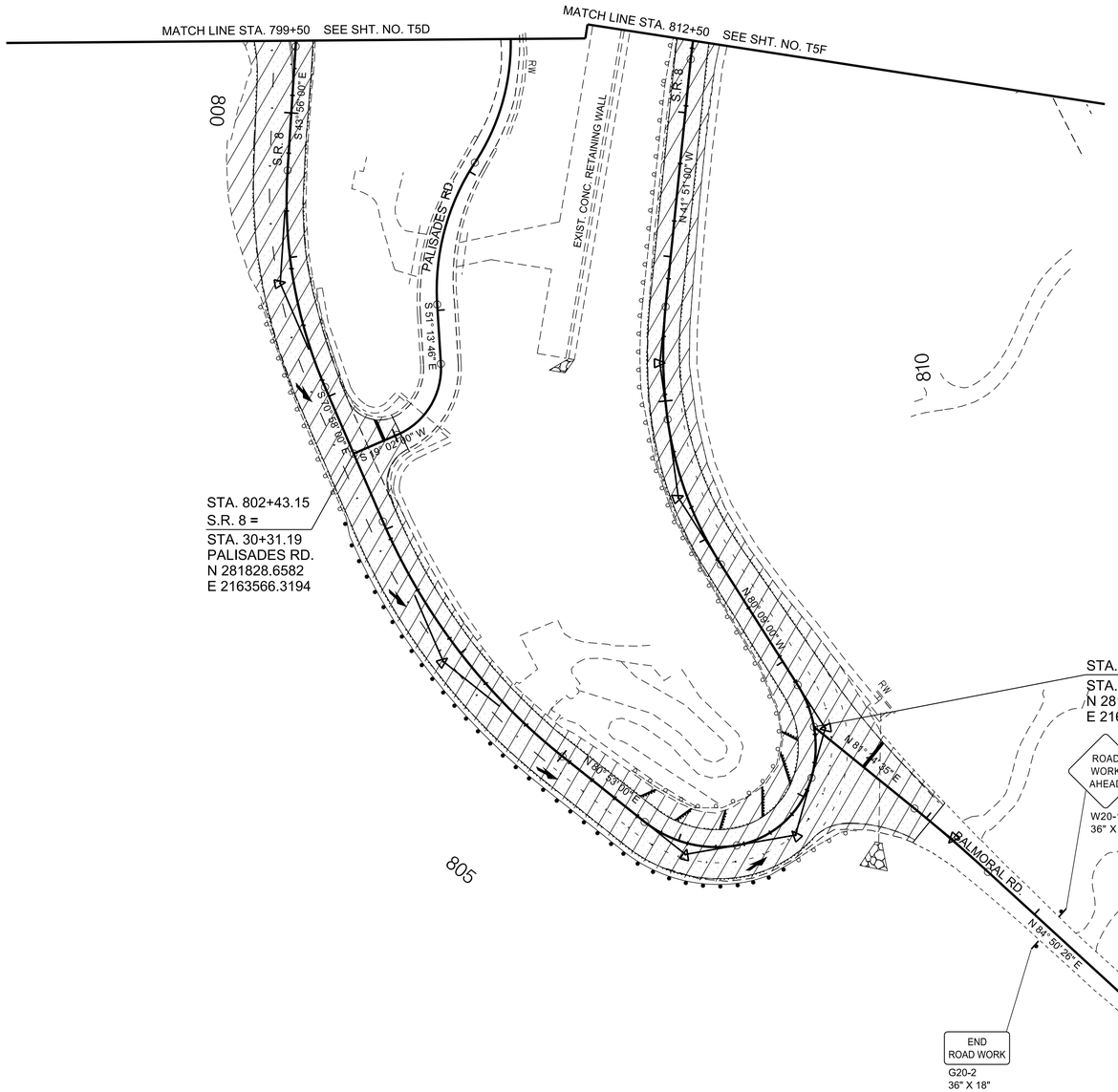
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T5E
PS&E	2026	STP-8(52)	T5E



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 799+50 TO STA. 812+50
SCALE: 1"= 50'

PHASE III

6/29/2026 10:02:58 AM
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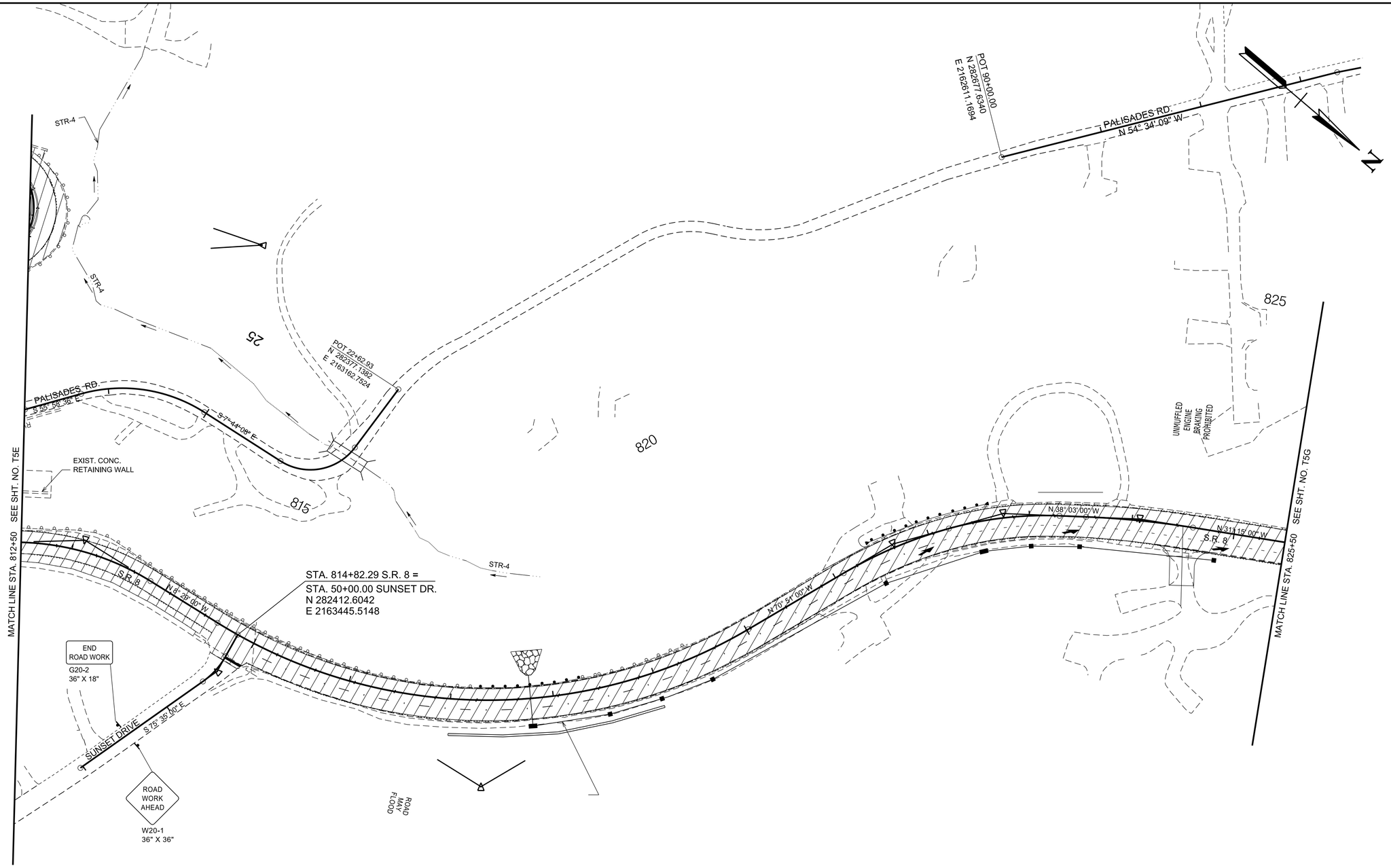
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T5F
PS&E	2026	STP-8(52)	T5F



PHASE III

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COMMERCE
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STATE OF TENNESSEE
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TRAFFIC CONTROL PLANS

STA. 812+50 TO STA. 825+50
SCALE: 1"= 50'

6/29/2026 10:03:09 AM
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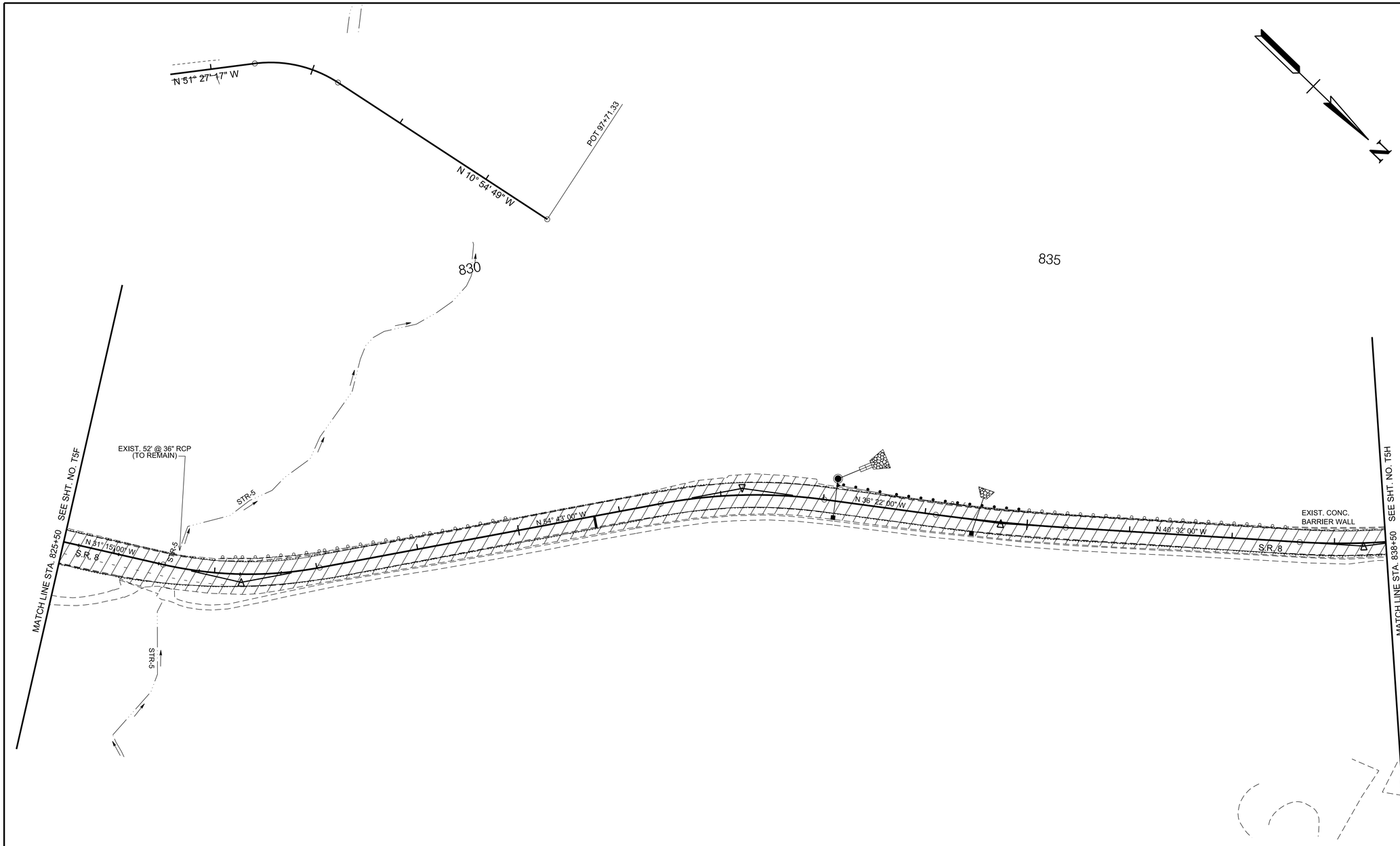
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T5G
PS&E	2026	STP-8(52)	T5G



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TRAFFIC CONTROL PLANS

STA. 825+50 TO STA. 838+50
SCALE: 1"= 50'

PHASE III

6/29/2026 10:03:18 AM
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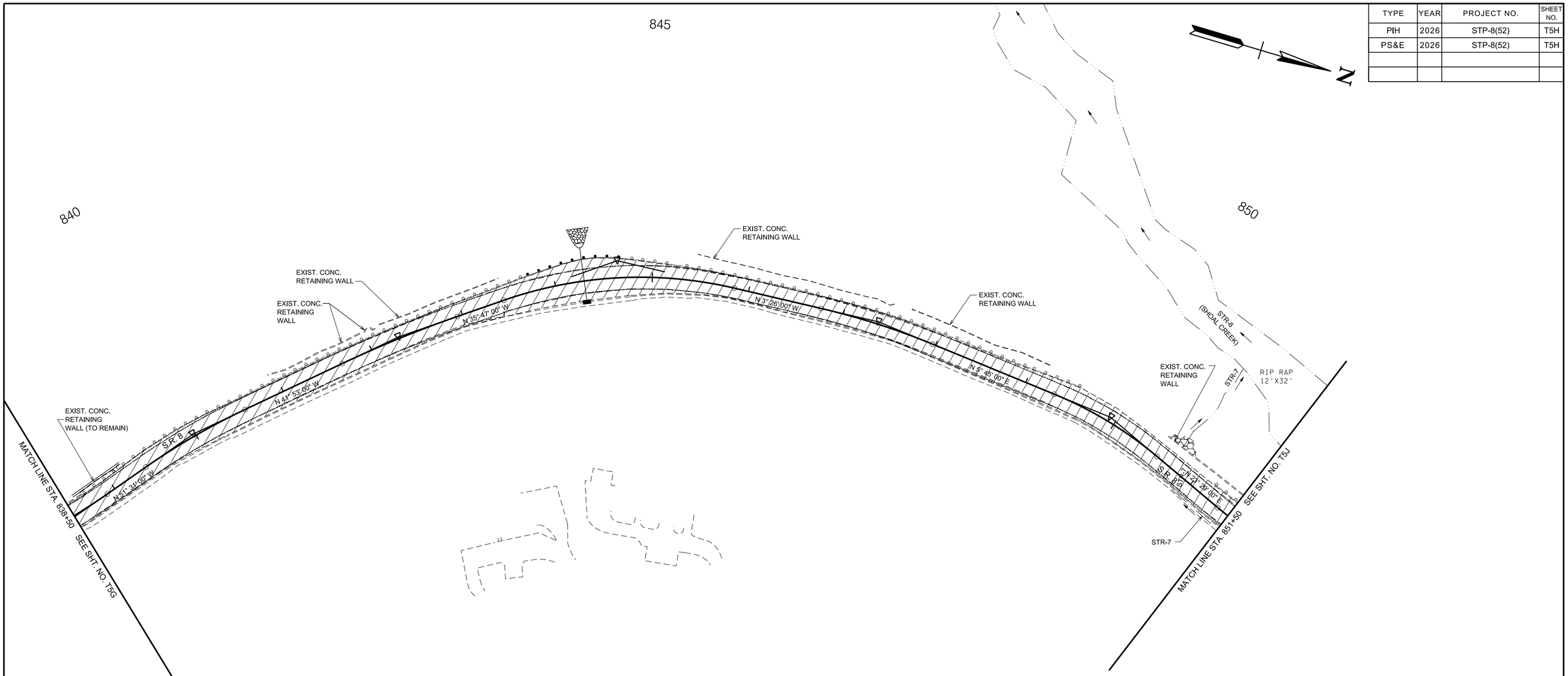
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T5H
PS&E	2026	STP-8(52)	T5H



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STATE OF TENNESSEE
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TRAFFIC CONTROL PLANS

STA. 838+50 TO STA. 851+50
SCALE: 1"=50'

6/29/2026 10:03:26 AM
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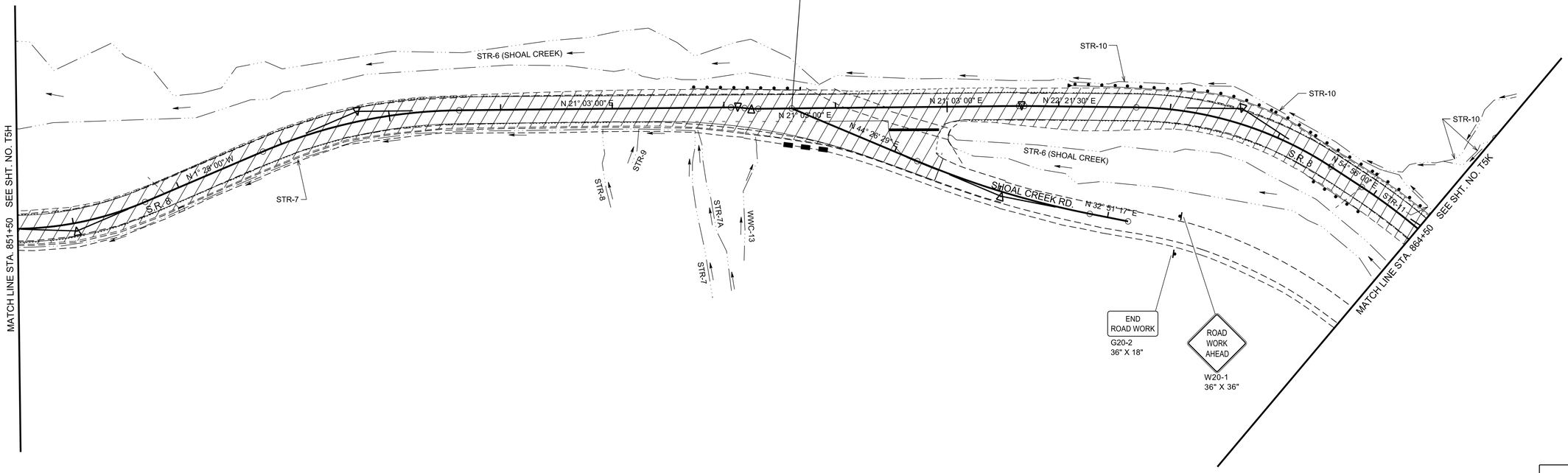
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T5J
PS&E	2026	STP-8(52)	T5J

855

860

STA. 858+60.84 S.R. 8 =
STA. 60+00.00 SHOAL CREEK RD.
N 285872.9206
E 2161639.6807



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TRAFFIC CONTROL PLANS

STA. 851+50 TO STA. 864+50
SCALE: 1"= 50'

PHASE III

6/29/2026 10:03:35 AM
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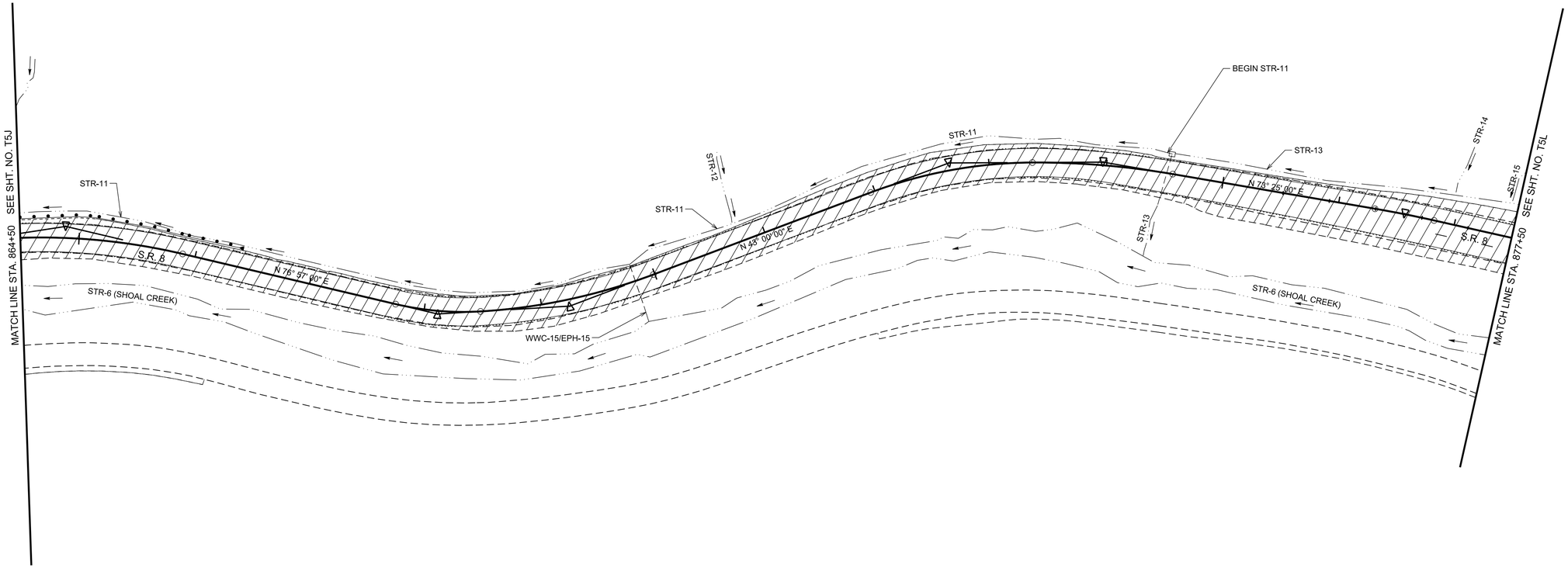
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T5K
PS&E	2026	STP-8(52)	T5K



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS

STA. 864+50 TO STA. 877+50
SCALE: 1"= 50'

6/29/2026 10:03:43 AM
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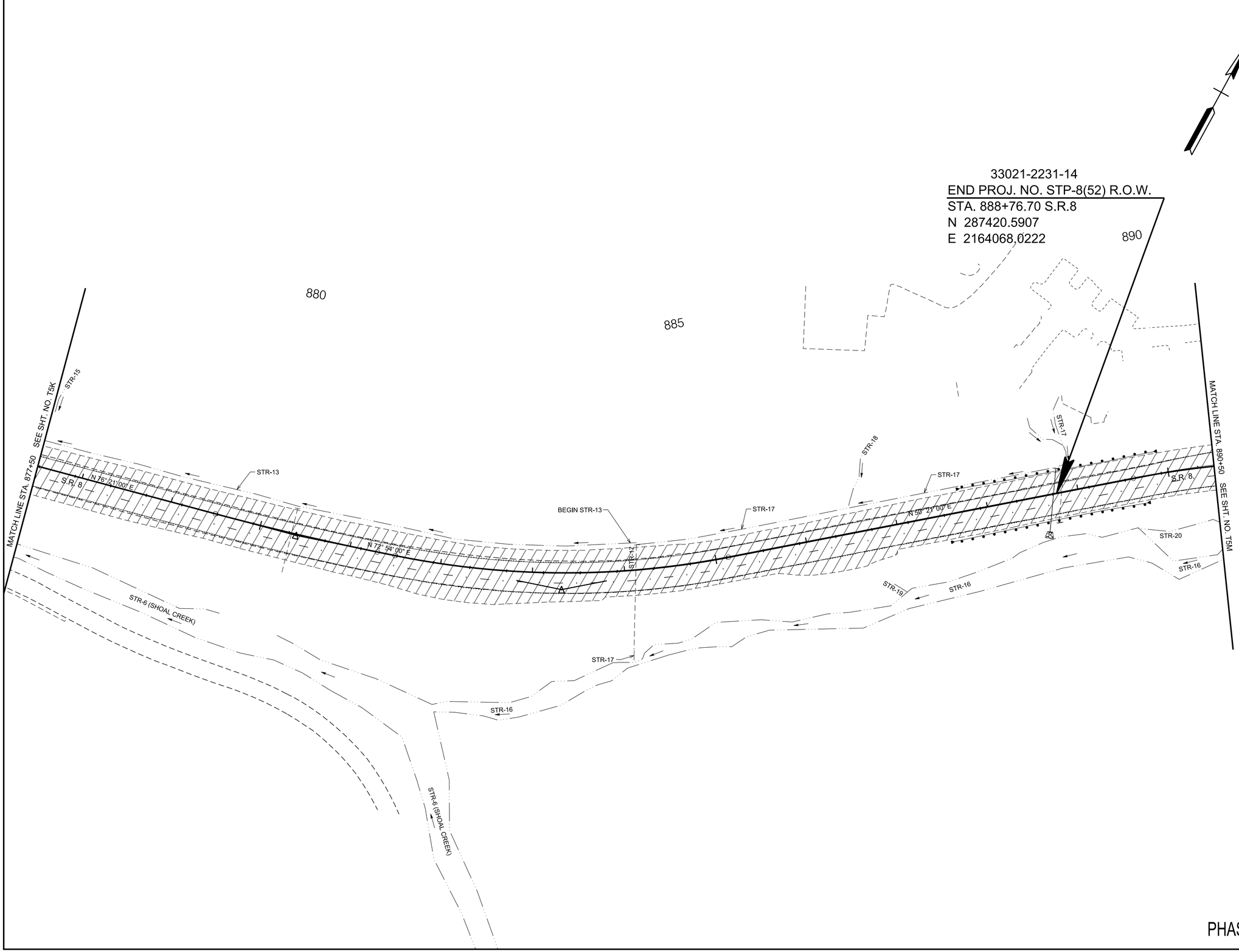
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T5L
PS&E	2026	STP-8(52)	T5L



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TRAFFIC CONTROL PLANS

STA. 877+50 TO STA. 890+50
SCALE: 1"= 50'

6/29/2026 10:03:52 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T5M
PS&E	2026	STP-8(52)	T5M

33021-3231-14
END PROJ. NO. STP-8(52) CONST.
STA. 891+00.00
N 287555.4249
E 2164245.7213

N

STA. 898+30.59 S.R. 8 =
STA. 90+00.00 MISSISSIPPI AVE.
N 287815.6644
E 2164926.4625

895

900

END ROAD WORK
G20-2
36" X 18"

ROAD WORK AHEAD
W20-1
36" X 36"

SIGNAL MOUNTAIN BLVD.

S 74° 50' 45" E

MISSISSIPPI AVE.

CARLIN ST.

S 21° 56' 40" W

ROAD WORK 1000 FT
W20-1
48" X 48"

ROAD WORK 1/2 MILE
W20-1
48" X 48"

ROAD WORK 1 MILE
W20-1
48" X 48"

STR-21

MATCH LINE STA. 890+50 SEE SHT. NO. T5L

S.R. 8

N 72° 37' 00" E

S 17° 23' 00" E

N 59° 54' 00" E

S.R. 8

STR-16

S 25° 21' 34" E

PALISADES DR.

S 11° 46' 13" E

STA. 895+14.97 S.R. 8 =
STA. 70+00.00 SIGNAL MOUNTAIN BLVD.
N 287708.3305
E 2164629.9636

STA. 898+23.78 S.R. 8 =
STA. 80+00.00 PALISADES DR.
N 287812.8148
E 2164920.2652

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TRAFFIC CONTROL PLANS

STA. 890+50 TO STA. 903+50
SCALE: 1"= 50'

PHASE III

6/29/2026 10:04:00 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP-8(52)	T5P
PS&E	2026	STP-8(52)	T5P

TRAFFIC CONTROL SIGNS (712-06)						
PHASE			TOTAL REQUIRED	TYPE	SIZE	TOTAL (S.F.)
I	II	III				
12	11	11	12	G20-2	36" x 18"	54.00
1	1		1	R3-7R	30" x 30"	6.25
4	2		4	R10-6M	30" x 42"	35.00
2			2	R10-11	36" x 48"	24.00
4	2		4	SPEC1	42" x 48"	56.00
8	6		8	SPEC2	42" x 36"	84.00
1			1	W1-4L	48" x 48"	16.00
1			1	W1-4M	48" x 48"	16.00
2	1		2	W1-4R	48" x 48"	32.00
5	2		5	W3-3	48" x 48"	80.00
4	2		4	W3-4	48" x 48"	64.00
2			2	W4-2LC	48" x 48"	32.00
1	1		1	W4-2RC	48" x 48"	16.00
4	2		4	W20-4F (1500')	48" x 48"	64.00
1			1	W20-5R	48" x 48"	16.00
2	1		2	W20-5RF(1500')	48" x 48"	32.00
2	1		2	W20-5RF(3000')	48" x 48"	32.00
6	5	9	9	W20-1(AHEAD)	36" x 36"	81.00
2	1	2	2	W20-1(AHEAD)	48" x 48"	32.00
		2	2	W20-1(1000')	48" x 48"	32.00
		2	2	W20-1(HALF MILE)	48" x 48"	32.00
		2	2	W20-1(MILE)	48" x 48"	32.00
2	1		2	R11-2	48" x 30"	20.00
1			1	W20-5LF(3000')	48" x 48"	16.00
1			1	W20-5LF(1500')	48" x 48"	16.00
TOTAL						921

TRAFFIC CONTROL QUANTITIES						
PHASE		ITEM NO.	DESC.	UNIT	TOTAL	
I	II					
110	85	705-04.50	PORTABLE BARRIER RAIL DELINEATOR	EA	110	
10	14	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EA	14	
1	1	712-01	TRAFFIC CONTROL	LS.	1	
2200	1700	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	2200	
400	400	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EA	400	
60	36	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	60	(3)
5	5	712-08.03	ARROW BOARD (TYPE C)	EA	5	(1)
10	10	713-16.01	CHANGEABLE MESSAGE SIGN	EA	10	(1)
1683	1683	716-01.06	TEMPORARY RAISED PAVEMENT MARKER,WHITE	EA	3366	
1683	1683	716-01.07	TEMPORARY RAISED PAVEMENT MARKER,YELLOW	EA	3366	
27342	30590	716-05.02	PAINTED PAVMT MARKING (8" BARRIERLINE)	L.F.	57932	(2)
160	48	716-05.05	PAINTED PAVMT MARKING (STOP LINE)	S.F.	204	
68640	68640	716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	L.F.	137280	
4	2	730-40.01	PORTABLE TRAFFIC SIGNAL SYSTEM	EA	4	

(1) TO BE USED AS DIRECTED BY THE ENGINEER.
(2) TO BE USED FOR TEMPORARY STRIPING.
(3) INCLUDES THE COST OF TYPE "A" WARNING LIGHTS.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL TABULATED QUANTITIES

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THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

William F. Kane

Digitally signed by William F. Kane
Date: 2026.06.30 12:45:26 -07'00'

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

KANE GEOTECH, INC.
7400 SHORELINE DR., SUITE 6
STOCKTON, CALIFORNIA 95219

WILLIAM F. KANE, P.E., NO. 114306

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEETS	GEO-SIGN1
GEOTECHNICAL PLANS NOTES AND QUANTITIES	G-1
GEOTECHNICAL PLANS SHOTCRETE DETAIL NOTES	G-2
GEOTECHNICAL PLANS ROCKFALL DRAPERY TYPICAL DETAILS	G-3
GEOTECHNICAL PLANS ROCKFALL DRAPERY ANCHOR TYPICAL DETAILS	G-4
GEOTECHNICAL PLANS PINNED ROCKFALL WIRE MESH ASSEMBLY TYPICAL DETAILS	G-5
GEOTECHNICAL PLANS THREADED BAR TYPICAL DETAILS	G-6
GEOTECHNICAL PLANS SHOTCRETE TYPICAL DETAILS	G-7
GEOTECHNICAL PLANS ROCKFALL MITIGATION LAYOUTS	G-8-G-11
GEOTECHNICAL PLANS TYPICAL SECTIONS	G-12-G-14

NOTE: THE ALPHABETICAL LETTERS “I”, “O” & “Q” ARE NOT USED IN THE NUMBERING OF SHEETS.



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

David Grass

Digitally signed by: David Grass
DN: CN = David Grass email = dgrass@smeinc.com C = US O = SME, Inc.
Date: 2026.06.30 16:22:06 -04'00'

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S&ME
4291 HIGHWAY 58
CHATTANOOGA, TN 37416

DAVID MICHAEL GRASS, P.E., NO. 114526

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEETS	GEO-SIGN1
GEOTECHNICAL INDEX	G-0
GEOMETRIC LAYOUT RETAINING WALL 1D PLAN VIEW	G-15
RETAINING WALL 1D PROFILE VIEW	G-16 – G18
GEOMETRIC LAYOUT RETAINING WALL 2D PLAN VIEW	G-19
RETAINING WALL 2D PROFILE VIEW	G-20 – G21
GEOMETRIC LAYOUT RETAINING WALL 3D PLAN VIEW	G-22
RETAINING WALL 3D PROFILE VIEW	G-23
GEOTECHNICAL TYPICAL SECTIONS	G-24

NOTE: THE ALPHABETICAL LETTERS “I”, “O” & “Q” ARE NOT USED IN THE NUMBERING OF SHEETS.

YEAR	PROJECT NO.	SHEET NO.
2026	STP-8(52)	GEO-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-0

GEOTECHNICAL INDEX

SHEET NAME	SHEET NO.
SIGNATURE SHEET	GEO-SIGN1
GEOTECHNICAL INDEX	G-0
GEOTECHNICAL PLANS NOTES AND QUANTITIES	G-1
GEOTECHNICAL PLANS SHOTCRETE DETAIL NOTES	G-2
GEOTECHNICAL PLANS ROCKFALL DRAPERY TYPICAL DETAILS	G-3
GEOTECHNICAL PLANS ROCKFALL DRAPERY ANCHOR TYPICAL DETAILS	G-4
GEOTECHNICAL PLANS PINNED ROCKFALL WIRE MESH ASSEMBLY TYPICAL DETAILS	G-5
GEOTECHNICAL PLANS THREADED BAR TYPICAL DETAILS	G-6
GEOTECHNICAL PLANS SHOTCRETE TYPICAL DETAILS	G-7
GEOTECHNICAL PLANS ROCKFALL MITIGATION LAYOUTS	G-8 – G-11
GEOTECHNICAL PLANS CROSS SECTIONS	G-12 – G-14
GEOMETRIC LAYOUT RETAINING WALL 1D PLAN VIEW	G-15
RETAINING WALL 1D PROFILE VIEW	G-16 – G-18
GEOMETRIC LAYOUT RETAINING WALL 2D PLAN VIEW	G-19
RETAINING WALL 2D PROFILE VIEW	G-20, G-21
GEOMETRIC LAYOUT RETAINING WALL 3D PLAN VIEW	G-22
RETAINING WALL 3D PROFILE VIEW	G-23
GEOTECHNICAL TYPICAL SECTIONS	G-24

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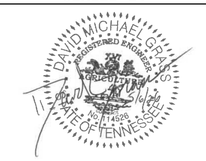

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL INDEX

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GEOTECHNICAL NOTES

THE PROJECT WILL CONSIST OF BUT IS NOT LIMITED TO THE FOLLOWING:

1. VEGETATION REMOVAL - VEGETATION REMOVAL SHALL CONSIST OF CUTTING AND REMOVING OF VEGETATION LOCATED ALONG THE ROCK FACE AND CATCHMENT AREA. THIS GENERALLY INCLUDES AN AREA APPROXIMATELY 20 FEET UPSLOPE OF THE ROCKFALL DRAPE. REMOVAL OF VEGETATION FROM THE SITE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. SCALE AND TRIM THE ROCK FACE AS SHOWN IN THE PLAN SHEETS AND AS DIRECTED BY THE ENGINEER. ADDITIONAL AREAS MAY BE IDENTIFIED BY THE ENGINEER DURING CONSTRUCTION SUCH AS SPECIFIC PROBLEM AREAS, BOULDERS, OVERHANGS, UNSTABLE ROCKS, ROCK PINNACLES AND OTHER FEATURES FOR REMOVAL. HOWEVER, THESE SHALL NOT BE TAKEN TO BE THE ONLY MATERIAL TO BE REMOVED FROM THE SITE. SCALING AND TRIMMING SHALL INCLUDE REMOVAL OF MATERIAL FROM THE ROCK FACE FOR THE ENTIRE IDENTIFIED SURFACE AREA. SCALING AND TRIMMING OPERATIONS AS WELL AS VEGETATION REMOVAL SHALL INCLUDE:
   - 2.a. TRAFFIC SHALL BE PROTECTED FROM FALLING OR BLASTED ROCK, FALLING DEBRIS OR FALLING VEGETATION USED BY THE WORK COMPLETED FOR THIS PROJECT. THE EXISTING ROADWAY SHALL BE PROTECTED FROM FALLING OR BLASTED ROCK, DEBRIS AND VEGETATION.
   - 2.b. DISPOSAL OF THE ROCK, VEGETATION AND OTHER DEBRIS FROM THE SITE IS THE RESPONSIBILITY OF THE CONTRACTOR.
   - 2.c. SOME AREAS ON SITE WILL REQUIRE LITTLE REMOVAL OF ROCK FROM THE FACE AND THE TOP OF THE CUT. OTHER AREAS ON THE FACE WILL REQUIRE MORE EXTENSIVE WORK.
   - 2.d. SCALING AND TRIMMING SHALL INCLUDE REMOVAL OF ROCK BY HAND OR BY MECHANICAL PERCUSSION AND/OR BLASTING METHODS. HIGH REACH EXCAVATION EQUIPMENT MAY BE REQUIRED IN ORDER TO ACCESS THE UPPER PORTION OF ROCK CUTS TO COMPLETE SCALING AND TRIMMING OPERATIONS.
3. ALL ROCKFALL MITIGATION WORK MUST OCCUR WITHIN TDOT RIGHT-OF-WAY AND MUST NOT IMPACT LOCAL DRAINAGES OR WATERWAYS.
4. CLEARING AND GRUBBING ALONG THE SLOPE FACE AND MID-SLOPE BENCHES THAT EXTENDS 10' ABOVE THE CREST OF THE ROCK SLOPE.
5. THE CUT SLOPE RIGHT OF CENTERLINE IS TO BE SCALED OF LOOSE ROCK AND DEBRIS FROM APPROXIMATE STATION 841+55 TO STATION 847+52. SCALED AND BLASTED MATERIAL SHALL BE REMOVED.
6. SCALING IS DEFINED AS THE REMOVAL OF LOOSE & UNSTABLE ROCK & DEBRIS FROM AN EXISTING CUT SLOPE BY USING MANUAL DEVICES SUCH AS PRY-BARS, BY HAND, EXPANSIVE GROUT, HYDRAULIC OR PNEUMATIC HAMMERS, & AIR BAGS. TRIMMING IS THE PROCESS OF REMOVING OVERHANGS OF LOOSE & UNSTABLE ROCK BY MECHANICAL PERCUSSION AND/OR ISOLATED DISCRETE BLASTING OF SPECIFIC ON-SLOPE FEATURES.

TABULATED GEOTECHNICAL QUANTITIES

	ITEM NO	DESCRIPTION	UNIT	QUANTITY
(1)(6)	203-01	ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	800
(2)(6)(7)	203-11	SCALING & TRIMMING	S.Y.	1100
(3)(6)	622-01.06	SHOTCRETE 12 IN THICKNESS	S.F.	300
(4)(6)	707-02.43	ROCK ANCHOR, TYPE I	L.F.	12250
(5)(6)(8)	707-10.06	ROCKFALL DRAPE MESH, TYPE II	S.Y.	11150

(1) QUANTITY INCLUDES MATERIAL REMOVED BY SCALING AND TRIMMING, CLEARING, AND RESHAPING AS DIRECTED BY ENGINEER.

(2) REFER TO TDOT SPECIAL PROVISION 203E. TO BE PERFORMED BY A ROCKFALL MITIGATION SPECIALTY CONTRACTOR. TEMPORARY ROCKFALL BARRIERS, OR OTHER DEVICES AS APPROVED BY THE ENGINEER, SHALL BE REQUIRED DURING CONSTRUCTION. PAYMENT FOR THESE TEMPORARY MEASURES SHALL BE INCLUDED IN THIS ITEM.

(3) QUANTITY INCLUDES SHOTCRETE, WIRE MESH, AND NO. 4 REBAR REINFORCEMENT ENCAPSULATING SANDSTONE LAYERS ALONG ROCK FACE. REFER TO SECTION 622 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SHOTCRETE TO BE LOCATED FROM STATION 845+90 TO 846+16.

(4) QUANTITY INCLUDES 300 LINEAR FEET FOR SHOTCRETE DOWEL ANCHORS.

(5) REFER TO SPECIAL PROVISIONS 707D AND 707E.

(6) FOR BIDDING PURPOSES ONLY, THESE QUANTITIES ARE INCLUDED IN SHEET 2 SERIES.

(7) SCALING AND TRIMMING TO BE DONE FROM STATION 841+55 TO 842+27, 843+46 TO 843+76, 844+32 TO 844+53, 844+82 TO 845+25, 845+27 TO 845+39, 845+36 TO 845+46, 845+40 TO 845+60, 845+45 TO 845+67, 846+18 TO 846+34, AND 847+05 TO 847+24. SEE SHEETS G-8 THRU G-11 FOR LOCATIONS.

(8) ROCKFALL DRAPE MESH TO BE LOCATED FROM STATION 841+55 TO 842+00 AND 846+00 TO 847+52. ROCKFALL PINNED MESH TO BE LOCATED FROM STATION 842+00 TO 846+00. SEE SHEETS G-8 THRU G-11.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-1

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COORDINATES ARE NAD 83(2007), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008_ AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 09_.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL PLANS

NOTES AND QUANTITIES

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SHOTCRETE DETAIL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-2

ROCK CUT

(1) ROCK SHALL BE CUT AS A PRE-SPLIT VERTICAL FACE. THE CONTRACTOR SHALL USE A PRE-SPLIT DESIGN AND REGARDING PRESPLIT HOLE DIAMETER, HOLE SPACING AND CHARGE TO ASSURE PRESPLIT FACE WITH MINIMAL DAMAGE. THE PRESPLIT FACE SHALL BE SCALED OF ALL LOOSE AND OVERHANGING MATERIAL.
(2) THE EXPOSED ROCK FACE SHALL BE PROTECTED SO AS TO LIMIT THE POTENTIAL FOR WEATHERING OF THE ROCK FACE FOLLOWING THE COMPLETION OF THE EXCAVATION.
(3) A DELAY OF NO MORE THAN 1 MONTH SHALL OCCUR BETWEEN THE COMPLETION OF THE PRE-SPLIT ROCK CUT AND THE INITIAL SHOTCRETE APPLICATION.
(4) THE GEOTECHNICAL ENGINEER, UPON COMPLETION OF THE EXCAVATION AND PRIOR TO THE INSTALLATION OF THE SHOTCRETE FACING SHALL REVIEW THE EXPOSED ROCK FACE.
(5) WATER SEEPS ALONG THE ROCK WALL SHALL BE LOCATED AND RECORDED. THIS INCLUDES STATION NUMBER, HEIGHT FROM THE BASE OF THE WALL AND ROUGH ESTIMATE OF FLOW RATE.
(6) ANY FLOWING OR DRIPPING WATER SHALL BE BROUGHT TO THE INSTALLATION OF THE GEOTECHNICAL ENGINEER BEFORE PLACEMENT OF THE SHOTCRETE.

ROCK DOWELS

(1) HOLES DRILLED FOR ROCK DOWEL INSTALLATION SHALL BE DRILLED ON 5-FOOT CENTERS.
(2) THE DOWEL HOLES SHALL BE DRILLED AT AN ANGLE BETWEEN 15 AND 20 DEGREES AS MEASURED FROM THE HORIZONTAL.
(3) AFTER DRILLING, HOLS SHALL BE CLEANED OF ALL DRILL CUTTINGS, SLUDGE AND DEBRIS BEFORE THE ROCK DOWELS ARE INSERTED INTO THE HOLE.
(4) ROCK DOWELS SHALL BE PLACED IN THE HOLES AND SHALL INCORPORATE CENTRALIZERS IN ORDER TO MAINTAIN THE DOWEL CENTRALLY LOCATED WITHIN THE DRILLED HOLE.
(5) ALL ROCK DOWELS AND CENTRALIZERS SHALL BE INSPECTED BEFORE PLACEMENT.
(6) CENTRALIZERS USED ON THE PROJECT SHALL BE STIFF ENOUGH TO ENSURE THAT THE ROCK DOWELS ARE LOCATED IN THE CENTER OF THE DRILL HOLE. IN NO INSTANCE SHALL ROCK DOWELS BE ALLOWED TO REST AT THE BOTTOM OF THE DRILL HOLE.
(7) ROCK DOWELS SHALL BE EPOXY COATED, ANY CHANGE IN THIS MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD AND BY THE STRUCTURES DIVISION.
(8) NO MORE THAN 24 HOURS SHALL ELAPSE BETWEEN THE TIME THE DOWEL HOLE IS DRILLED AND THE ROCK DOWEL IS GROUTED INTO PLACE.
(9) THE ANNULUS BETWEEN THE ROCK DOWEL AND SURROUNDING BEDROCK SHALL BE GROUTED FULL LENGTH.
(10) AFTER ALIGNING BARS WITHIN THE DOWEL HOLE, GROUT SHALL BE PLACED CONTINUOUSLY FROM THE BOTTOM OF THE HOLE TO THE TOP OF THE HOLE UNTIL IT OVERFLOWS FROM THE TOP.
(11) TEST SAMPLES SHALL BE TAKEN FO THE GROUT USED TO SURROUND THE ROCK DOWELS; THESE SAMPLES SHALL BE TESTED FOR UNCONFINED COMPRESSIVE STRENGTH.

DRAIN STRIP NOTES

(1) A GEOCOMPOSITE DRAINAGE STRIP ALONG WITH WEEP HOLES SHALL BE USED IN ORDER TO MAINTAIN A DEWATERD CONDITION BEHIND THE SHOTCRETE FACE.
(2) DRAIN STRIPS SHALL BE CONTINUOUS AND CONNECT TO THE WEEP HOLES SO AS TO ALLOW WATER TO DISCHARGE FROM BEHIND THE SHOTCRETE FACE AT THE DESIGNATED WEEP HOLES. IF SPLICES ARE MADE IN THE DRAIN STRIP, THESE SHALL BE MADE WITH A MINIMUM OF A 12-INCH OVERLAP SO THAT THE FLOW OF WATER IS NOT IMPEDED.
(3) EXTRA DRAIN STRIPS MAY BE REQUIRED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER BASED ON MOISTURE ON THE ROCK CUT AT THE TIME OF INITIAL INSPECTION OR AS WALL CONSTRUCTION PROCEEDS. 30% ABOVE THE DESIGN QUANTITY OF DRAIN STRIPS SHALL BE AVAILABLE ON SITE FOR USE AS DIRECTED BY THE ENGINEER OF GEOTECHNICAL ENGINEER OF RECORD.
(4) DRAIN STRIPS SHALL BE PLACED VERTICAL AT THE MIDPOINT BETWEEN THE ROCK DOWELS. UNDER NO CONDITION SHALL THE DRAIN STRIPS BE PLACED DIRECTLY BESIDES, UNDER, OR ON TOP OF THE ROCK DOWELS OR THE DOWEL PLATES.
(5) SOME NEAR HORIZONTAL DRAIN STRIPS MAY BE PLACED ON THE SITE AT THE DISCRETION OF THE ENGINEER AND THE GEOTECHNICAL ENGINEERING SECTION. THESE NEAR HORIZONTAL STRIPS SHALL BE PLACED SUCH THAT THERE IS A MINIMUM OF A 6-INCH OVERLAP BETWEEN THE BASE FO THE NEAR HORIZONTAL DRAIN STRIP AND THE VERTICAL DRAIN STRIP. THE NEAR HORIZONTAL DRAIN STRIP SHALL BE PLACED ON AT LEAST A 2% GRADE TOWARDS A VERTICAL STRIP SO AS TO PREVENT BUILDUP OF WATER IN THESE STRIPS.
(6) ALL DRAIN STRIPS SHALL BE PLACED TO CONFORM TO THE PRE-SPLIT ROCK CUT FACE AND SHALL BE SECURELY FASTENED TO THE PRE-SPLIT ROCK FACE. THERE ARE TO BE NO LARGE GAPS BETWEEN THE ROCK CUT FACE AND THE DRAIN STRIPS. NAILS OR OTHER FASTNERS MAY BE USED TO SECURE THE STRIPS AGAINST THE ROCK FACE, PROVIDED THAT THEY DO NOT "PINCH OFF" CAUSING COLLAPSE OF THE GEOCOMPOSITE DRAIN STRIPS, OR OTHERWISE OBSTRUCT THE DRAINAGE.
(7) GEOTEXTILE SHALL BE USED TO COVER THE GEOCOMPOSITE DRAIN STRIP AS SHOWN ON THE PLANS DRAWING "DETAIL OF DRAIN STRIP INSTALLATION." THIS FABRIC SHALL BE SECURED WITH NAILS OR PINS AGAINST THE FACE AND SHALL EXTEND TO A MINIMUM OF 2 INCHES BEYOND THE SIDES OF THE DRAIN STRIP. THIS FABRIC SHALL NOT EXTEND MORE THAN 5 INCHES BEYOND THE DRAIN STRIP.
(8) SHOTCRETE SHALL NOT BE ALLOWED BETWEEN THE DRAIN STRIP AND THE PRE-SPLIT ROCK FACE OR IN BETWEEN THE GEOTEXTILE FABRIC COVER AND THE ROCK CUT FACE. SHOTCRETE TECHNIQUES AND FASTENERS SHALL BE USED TO PREVENT THIS OCCURRENCE. IN NO CASE WILL THE EVENT BE ACCEPTABLE.
(9) ALL DRAIN STRIPS SHALL BE SEALED AT THE TOP OF THE WALL TO LIMIT THE POTENTIAL FOR SURFACE WATER INFILTRATION INTO THE DRAIN STRIPS. AT NO TIME SHALL THE STRIPS BE LEFT OPEN TO SURFACE WATER INTRUSION.
(10) ALL DRAIN STRIPS SHALL BE SEALED AT THE BOTTOM SUCH THAT THE DRAINAGE CAN ONLY GO OUT INTO THE CONNECTED DRAINPIPE.
(11) AFTER DRAINAGE INSTALLED AND BEFORE PLACEMENT OF SHOTCRETE FACING, THE DRAINAGE SYSTEM SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER AND APPROVED BEFORE SHOTCRETE MAY BE PLACED. A MINIMUM OF 48 HOURS PRIOR NOTICE IS REQUIRED FOR PERFORMANCE OF THIS INSPECTION.

SHOTCRETE

(1) AT LEAST ONE TEST PANEL FOR EACH LAYER OF SHOTCRETE SHALL BE COMPLETED AND APPROVED BY THE GEOTECHNICAL ENGINEER BEFORE PLACEMENT OF THE SHOTCRETE ON THE FACING. THESE PANELS SHALL BE AT LEAST 5 FEET SQUARE WITH SLOPED 45 DEGREE SIDES TO RELEASE REBOUND. THESE PANELS SHALL BE SHOT USING THE VERTICAL ORIENTATION OF THE FACE. THREEE CORES SHALL BE TAKEN BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER AND SENT TO THE GEOTECHNICAL ENGINEERING SECTION AFTER FIELD CURING OF THE TEST PANEL. THE NOZZLE OPERATOR AND EQUIPMENT USED DURING CONSTRUCTION OF THE TEST PANEL SHALL BE USED FOR PRODUCTION WORK. IN THE EVENT THAT THERE IS A CHANGE IN PERSONNEL, EQUIPMENT OR MIX DESIGN, ADDITIONAL TEST PANELS WILL BE REQUIRED BEFORE WORK MAY RESUME.
(2) SHOTCRETE IS TO BE APPLIED TO PROPERLYINSTALLED WIRE MESH.
(3) NO SHOTCRETING SHALL BE PERFORMED UNTIL AFTER INSPECTION BY THE GEOTECHNICAL ENGINEER FOR PURPOSES OF OBSERVING CONDITION OF THE EXPOSED ROCK CUT, SUITABILITY OF THE WIRE MESH, ROCK DOWELS AND GEOCOMPOSITE DRAIN STRIPS. ON THE DAY SHOTCRETING OPERATIONS ARE TO BEGIN, THE GEOTECHNICAL ENGINEER SHALL OBSERVE CONDITIONS PRIOR TO PROCEEDING SHOTCRETING OPERATIONS. A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN TO THE GEOTECHNICAL ENGINEER PRIOR TO THE START OF SHOTCRETE OPERATIONS.
(4) ALL SURFACES OF THE ROCK CUT SHALL BE FREE FROM DEBRIS AND ORGANIC MATERIAL. THE ROCK CUT FACE SHALL BE CLEAN AND DRY BEFORE PROCEEDING WITH SHOTCRETE OPERATIONS. THIS MAY REQUIRE SAND BLASTING OF OTHER MEASURES TO REMOVE LOOSE OR UNACCEPTABEL MATERIAL FOM THE SLOPE.
(5) SHOTCRETE SHALL BE APPLIES IN TWO (2) APPLICATIONS.
(6) THE INITIAL PRODUCTION APPLICATION SHALL BE AT LEAST 5 INCHES IN THICKNESS.
(7) TO PREVENT SHOTCRETE FROM GETTING BEHIND DRAIN STRIPS, SHOTCRETE APPLICATION SHALL BEGIN DIRECTLY AT THE DRAIN STRIPS AND SHALL THEN PROCEED TO AREAS BETWEEN THE STRIPS. IN NO INSTANCE SHALL SHOTCRETE BE ALLOWED BETWEEN THE DRAIN STRIPS AND THE ROCK CUT.
(8) TEST CYLINDERS SHALL BE MADE OF THE SHOTCRETE FOLLOWING ANY ADDITION OF WATER TO THE MIX. CONCRETE AIR ENTRAINMENT AND SLUMP SHALL BE CHECKED ON SITE BY AN ACI CERTIFIED TECHNICIAN.
(9) THE SECOND APPLICATION OF THE SHOTCRETE SHALL INCORPORATE AN ARCHITECTURAL FACING TREATMENT. THIS FACING TREATMENT SHALL BE PRE-APPROVED BY THE GEOTECHNICAL ENGINEERING SECTION. THE ENGINEER AND THE STRUCTURES DIVISION. A TEST PANEL DEMONSTRATING THIS FINISH SHALL BE REQUIRED PRIOR TO ITS APPLICATION ON THE WALL. NO SHOTCRETE WORK SHALL PROCEED UNTIL AN ACCEPTABLE FINISH IS ACHIEVED. ANY CHANGE IN NOZZLE OPERATOR, FINISHING EQUIPMENT, FINISHING MATERIALS OR OTHER MATERIALS SHALL NOT BE ALLOWED UNTIL A TEST PANEL HAS BEEN COMPLETED AND APPROVED. APPROVAL OF THE TEST PANEL SHALL BE AT THE DISCRETION OF THE ENGINEER, GEOTECHNICAL ENGINEERING SECTION AND STRUCTURES DIVISION. THE FINISH ON THE WALL BE DEEMED UNACCEPTABLE IF IT DEVIATES FROM THESE TEST PANELS.
(10) THE FINAL DEPTH OF THE SHOTCRETE FACING INCLUDING BOTH LAYERS OF SHOTCRETE SHALL BE NO MORE THAN 12 INCHES IN THICKNESS, EXCEPT IN AREAS OF OVERBREAK WHERE THE SHOTCRETE IS SUPPORTED BY UNDERLYING ROCK.
(11) COSTS ASSOCIATED WITH ADDITIONAL THICKNESS OF SHOTCRETE, CONCRETE OF OTHER REMEDIAL MEASURES REQUIRED OWING TO IRREGULARITIES IN THE EXPOSED CUT FACE, EXCAVATION OVERBREAK, ADDITIONAL WEATHERING OF INADVERTENT OVER-EXCAVATION SHALL BE BORNE BY THE CONTRACTOR.
(12) ANY SUBSTITUTION OF PRODUCT(S) MUST BE APPROVED BY THE ENGINEER PRIOR TO USE ON SITE.
(13) SHALL COMPLY WITH ACI 506.2 "SPECIFICATIONS FOR MATERIALS PROPORTIONING AND APPLICATION OF SHOTCRETE."
(14) A COMPRESSIVE STRENGTH OF 2000 PSI MUST BE OBTAINED IN 3 DAYS AND 4000 PSI IN 28 DAYS.
(15) FIBERS AND OTHER ADDITIONS TO MAKE WORKABILITY FOR THE FINAL FINISH SHALL BE ALLOWED AS LONG AS SUCH ADDITIONS ARE SUBMITTED TO THE ENGINEER PRIOR TO THEIR USE AND ARE APPROVED BY THE ENGINEER ALONG WITH THE MIX DESIGN. NO ADDITIONS, ADMIXTURES OF OTHER ADDITIVES SHALL BE USED UNTIL PRE-APPROVAL IN WRITING HAS BEEN OBTAINED.
(16) THE TEMPERATURE OF THE SHOTCRETE MIX SHALL BE BETWEEN 50 AND 86 DEGREES F.
(17) AIR TEMPERATURE DURING SHOTCRETE OPERATIONS SHALL BE NO LESS THAN 41 DEGREES F AND SHALL BE NO MORE THAN 95 DEGREES F.
(18) AGGREGATE FOR THE SHOTCRETE SHALL MEET THE STRENGTH AND DURABILITY REQUIREMENTS OF AASHTO M6/M8O AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIZE	MAXIMUM PERCENT PASSING BY WEIGHT
1/2 IN	100
3/8 IN	90-100
NO. 4	70-85
NO. 8	50-70
NO. 16	35-55
NO. 30	20-35
NO. 50	8-20
NO. 100	2-10

THE ENGINEER SHALL APPROVE THE MIX DESIGN AND METHOD OF PLACEMENT BEFORE SHOTCRETE OPERATIONS MAY BEGIN. THE MATERIALS SHALL COMPLY WITH ACI 506.2 "SPECIFICATIONS FOR MATERIALS PROPORTIONING AND APPLICATION OF SHOTCRETE." AIR ENTRAINMENT FOR WET MIX SHOTCRETE SHALL BE BETWEEN 7 AND 10 PERCENT WHEN TESTED IN ACCORDING WITH AASHTO T152. ADDITIONALLY, THE WATER/CEMENT RATIO IN THE MIX DESIGN SHALL BE LESS THAN OR EQUAL TO 0.45.

CENTRALIZER

(1) MANUFACTURED FROM SCHEDULE 40 PVC PIPE, TUBE, STEEL OR OTHER MATERIAL NOT DETRIMENTAL TO THE DOWEL STEEL. THESE SHALL BE SIZED TO ALLOW TREMIE PIPE INSERTION TO THE BOTTOM OF THE DRILL HOLE.
(2) WOOD SHALL NOT BE USED.
(3) THE CENTRALIZER SHALL BE SECURELY FASTENED TO THE ROCK DOWEL AND SIZED TO POSITION THE ROCK DOWEL WITHIN THE CENTER (+/- ½ INCH) OF THE DRILLED ROCK DOWEL HOLE. THE CENTRALIZER SHALL BE CONSTRUCTED TO ALLOW GROUT TO FLOW FULL DEPTH OF THE ROCK DOWEL HOLE.

EPOXY COATED REINFORCING STEEL (ROCK DOWEL)

(1) SIZE NO. 8, GRADE 75 EPOXY COATED STEEL BAR MINIMUM.
(2) THE REINFORCING STEEL SHALL BE THREADED ON AT LEAST ONE END. THREADS SHALL BE AT THE TOP OF THE HOLE SO THAT THEY MAY BE USED TO CONNECT ROCK DOWELS TO BEARING PLATE AND WIRE MESH. THREADING MAY BE CONTINUOUS SPIRAL DEFORMED RIBBING PROVIDED BY THE BAR DEFORMATIONS (AS WITH DYWIDAG OR WILLIAMS CONTINUOUS THREADBARS) OR MAY BE CUT INTO THE REINFORCING BAR. IF THREADS ARE CUT INTO THE REINFORCING BAR, THE CONTRACTOR SHALL PROVIDE THE BAR AS THE NEXT LARGER NUMBER DESIGNATION FROM THAT SHOWN ON THE PLANS AT NO ADDITIONAL COST.
(3) COATING SHALL COMPLY WITH ASTM A775 AHVING MINIMUM THICKNESS OF 0.3mm ELECTROSTATICALLY APPLIED.
(4) THE LENGTH OF THE BAR SHALL BE SUCH THAT IT WILL EXTEND WITHOUT SPLICING TO THE BOTTOM OF THE DRILL HOLE AND SHALL PROTRUDE BEYOND THE ROCK SURFACE. APPROXIMATELY 1 INCH OF THE THREADED END OF THE ROD SHALL EXTEND BEYOND THE ANCHOR NUT.

GROUT

(1) NEAT CEMENT OF SAND/CEMENT MIXTURE WITH A MINIMUM 3-DAY COMPRESSIVE STRENGTH OF 1800 PSI AND 28 DAY COMPRESSIVE STRENGTH OF 3500 PSI PER AASHTO T106 AND ASTM C109. GROUT MIX DESIGN SHALL BE APPROVED PRIOR TO USE.
(2) ADMIXTURES SHALL BE COMPATIBLE WITH GROUT AND MIXED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
(3) ADMIXTURES, WHICH CONTROL BLEED, REDUCE VISCOSITY, REDUCE WATER CONTENT AND REDUCE SET, MAY BE USED SUBJECT TO APPOVAL BY THE ENGINEER.
(4) ACCLERATORS ARE NOT PERMITTED.
(5) THE GROUT SHALL COMPLETELY FILL ROCK DOWEL HOLE AND ENCAPSULATE ROCK DOWEL.
(6) TEST SAMPLES OF GROUT SHALL BE TAKEN FOR THE PURPOSE OF COMPRESSIVE TESTS THAT SHALL BE PERFORMED EITHER BY TDOT OR BY A TDOT DESIGNATED THIRD PARTY.
(7) THE DRILL HOLE SHALL BE GROUTED AFTER INSTALLATION OF THE ROCK DOWEL. GROUT SHALL BE INJECTED AT THE LOWEST POINT IN EACH DRILL HOLE USING A GROUT TUBE. THE OUTLET END OF THIS CONDUIT DELIVERING THE GROUT SHALL BE KEPT BELOW THE SURFACE OF THE GROUT AS THE CONDUIT IS WITHDRAWN TO PREVENT THE CREATION OF VOIDS. COMPLETELY FILL THE DRILL HOLE IN ONE CONTINUOUS OPERATION. GROUTING BEFORE INSERTION OF THE DOWEL IS ALLOWED, PROVIDED THAT THE DOWEL BAR IS IMMEDIATELY INSERTED THROUGH THE GROUT TO THE SPECIFIED LENGTH WITHOUT DIFFICULTY. ALL DOWELS PLACED IN THIS MANNER SHALL BE INSERTED TO WITHIN 1 ½ INCHES OF THE BOTTOM OF THE DRILL HOLE.
(8) THE GROUTING AND DOWEL SHALL BE REMOVED AT THE CONTRACTORS EXPENSE IF GROUTING OPERATIONS ARE SUSPENDED FOR 30 MINUTES OF MORE OR IF THE DOWEL AND GROUTING MATERIALS OR OPERATIONS DO NOT SATISFY THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. THIS SHALL ALSO INCLUDE REPLACEMENT WITH FRESH GROUT AND UNDAMAGED DOWEL BAR AT NO ADDITIONAL COST.

DRILLING AND INSTALLATION

(1) ROCK DOWEL DRILL HOLES SHALL EXTEND TO DEPTH SHOWN ON FACE TREATMENT DIAGRAM.
(2) DRILL HOLES SHALL BE CLEANED OF ALL DRILLING CUTTINGS, SLUDGE AND DEBRIS BEFORE INSTALLATION OF ROCK DOWELS.
(3) ANY WEATHERED ROCK, CAVITIES OR SOIL ENCOUNTERED DURING DRILLING OPERATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE GEOTECHNICAL ENGINEER. NO GROUTING OF ANY DRILL HOLE WHERE THESE MATERIALS HAVE BEEN ENCOUNTERED SHALL BE PERFORMED UNTIL AFTER INSPECTION AND APPROVAL BY THE GEOTECHNICAL ENGINEER.
(4) ALL HOLES SHALL BE BLOWN CLEAN IMMEDIATELY BEFORE THE INSTALLATION OF ROCK DOWELS. IN NO CASE SHALL ROCK DOWELS BE INSTALLED IN A HOLE WITH DEBRIS, CUTTINGS OR WHEN PARTIALLY FILLED WITH WATER.

ANCHOR NUT

(1) STEEL SPHERICAL HEX NUT WITH BEVELED WASHER.

REINFORCING STEEL MESH

(1) 6" X 6" W5.5 X W5.5 STEEL MESH

WEEP HOLES

(1) PVC PIPE OR PRE-APPROVED EQUIVALENT SO THAT IT EXTENDS FROM THE GEOCOMPOSITE DRAIN STRIP TO THE OUTSIDE OF THE SHOTCRETE FACE.
(2) WEEP HOLES SHALL BE PROTECTED DURING SHOTCRETING APPLICATION TO LIMIT THE POTENTIAL FOT THE INTRUSION OF SHOTCRETE INTO THE DRAINAGE PIPE.

GRADING WORK REQUIRED ABOVE WALL

(1) DRAINAGE ABOVE THE WALL SHALL BE PROVIDED SUCH THAT NO WATER IS ALLOWED TO POOL ON TOP OF THE WALL OR IS ALLOWED TO SPILL OVER THE WALL. THIS MAY INVOLVE THE USE OF A BYPASS DITCH. UNDER NO CIRCUMSTANCES SHALL WATER FROM THE SURFACE BE ALLOWED TO FLOW OVER OR BEHIND THE WALL.

TEST PANELS

(1) TEST PANELS SHALL BE REQUIRED BEFORE WORK MAY PROCEED ON THE WALL. THESE PANELS MUST BE ACCEPTED BY ALL OF THE FOLLOWING PARTIES BEFORE WORK MAY PROCEED: THE ENGINEER, THE GEOTECHNICAL ENGINEERING SECTION AND STRUCTURES DIVISION. THE BASIS OF ACCEPTANCE OF THESE PANELS SHALL BE:
(A) VISUAL INSPECTION OF SHOTCRETE DENSITY AND VOID STRUCTURES. ALL CORES TAKEN FROM THESE PANELS SHALL MEET THE REQUIREMENTS OF ACI 506.2 GRADES 1 OR 2.
(B) SUFFICIENT DEPTH CONTROL TO KEEP THE SHOTCRETE WITHIN THE LIMITS SPECIFIED FOR THE PANEL.
(C) ACCEPTABLE APPEARANCE.

(2) A MINIMUM OF ONE TEST PANEL SHALL BE COMPLETED AND APPROVED BEFORE SHOTCRETING OF WALL MAY BEGIN. THIS TEST PANEL SHALL BE COMPLETED WITH THE SAME NOZZLE OPERATOR, EQUIPMENT, CONCRETE MIX AND FORMING EQUIPMENT WHICH IS TO BE USED ON THE WALL. ANY CHANGE IN NOZZLE OPERATOR, EQUIPMENT, CONCRETE MIX OF FROMING EQUIPMENT SHALL NOT BE APPROVED UNTIL THE SATISFACTORY COMPLETION OF A TEST PANEL WHICH HAS BEEN APPROVED BY THE ENGINEER, GEOTECHNICAL ENGINEERING SECTION AND STRUCTURES DIVISION.

FACING TREATMENT

(1) PICTURES OF PROPOSED FACING TREATMENT SHALL BE PROVIDED TO THE ENGINEER, GEOTECHNICAL ENGINEERING SECTION AND STRUCTURES DIVISION PRIOR TO CONSTRUCTION OF THE WALL. THIS FACING TREATMENT MUST BE PRE-APPROVED BY THE ENGINEER, STRUCTURES DIVISION AND THE GEOTECHNICAL ENGINEERING SECTION. THIS PROPOSED FACING TREATMENT SHALL BE SUBMITTED AND ACCEPTED BEFORE THE TEST PANEL PRODUCTION MAY PROCEED.

PERMANENT SHOTCRETE FACING

(1) CONSTRUCTION TOLERANCES FOR THE PERMANENT SHOTCRETE FACING ARE AS FOLLOWS:
(A) HORIZONTAL LOCATION OF WIRE MESH, REBAR, HEADED STUDS ON BEARING PLATES, FROM PLAN LOCATION: ± 0.4 INCH SPACING BETWEEN REINFORCING LAP, FROM SPECIFIED DIMENSION: -1.0 INCH COMPLETE THICKNESS OF SHOTCRETE, FROM PLAN DIMENSION:
IF TROWELED OR SCREED: 0.6 INCH
IF LEFT AS SHOT: 1.2 INCH
(B) PLANARITY OF FINISH FACE SURFACE-GAP UNDER 10 FOOT STRAIGHTEDGE-ANY DIRECTION:
IF TROWELED OR SCREED: 0.6 INCH
IF LEFT AS SHOT: 1.2 INCH
THIS MAY REQUIRE CLEAN UP OR FACE OF ROCK SURFACE BEFORE APPLICATION OF SHOTCRETE AND WIRE MESH AND ADDITIONAL SHOTCRETE PLACED IN "OVERBREAK" AREAS OF ROCK.

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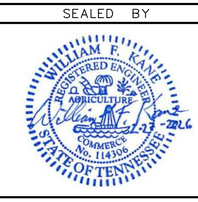

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL PLANS

SHOTCRETE DETAIL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
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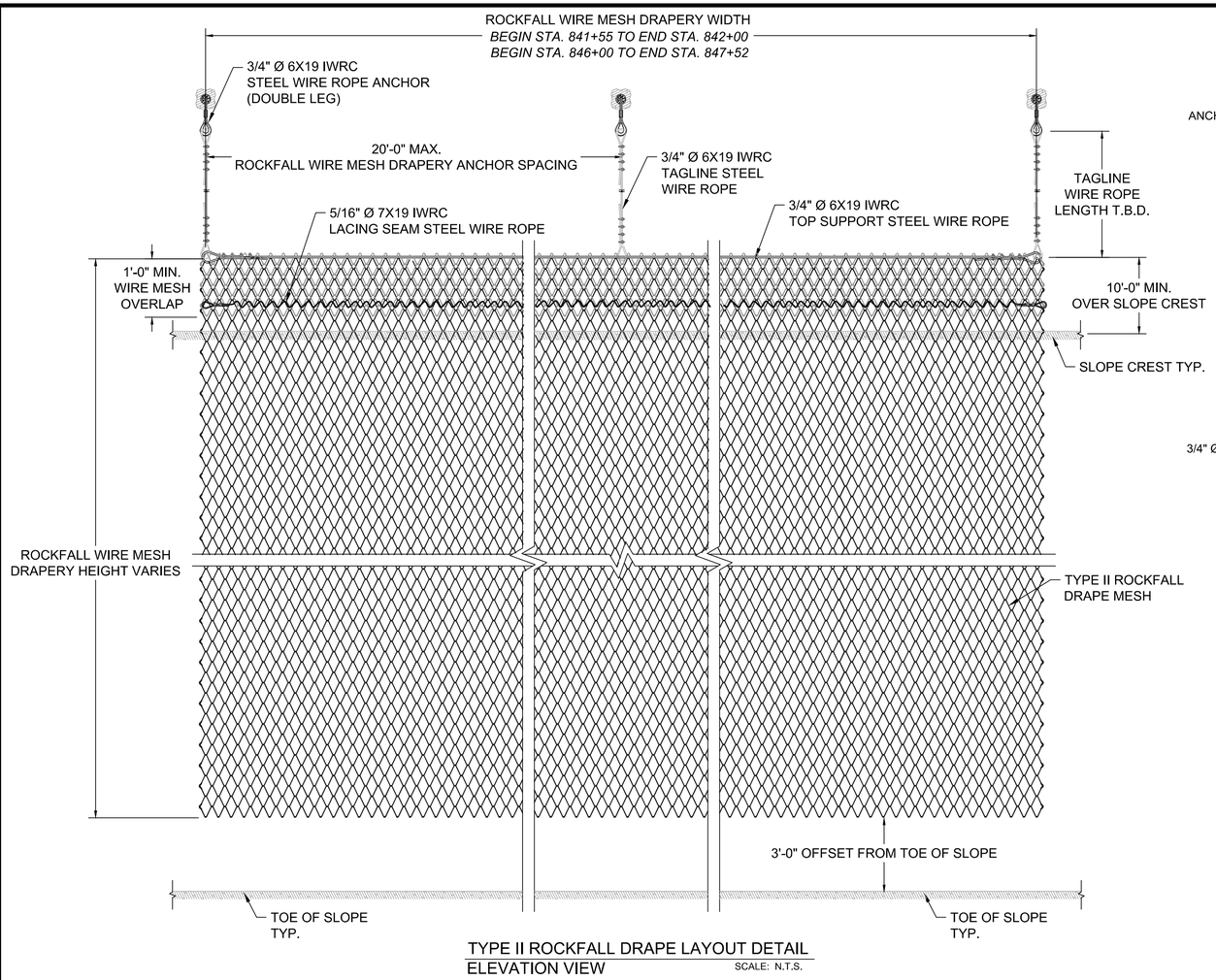
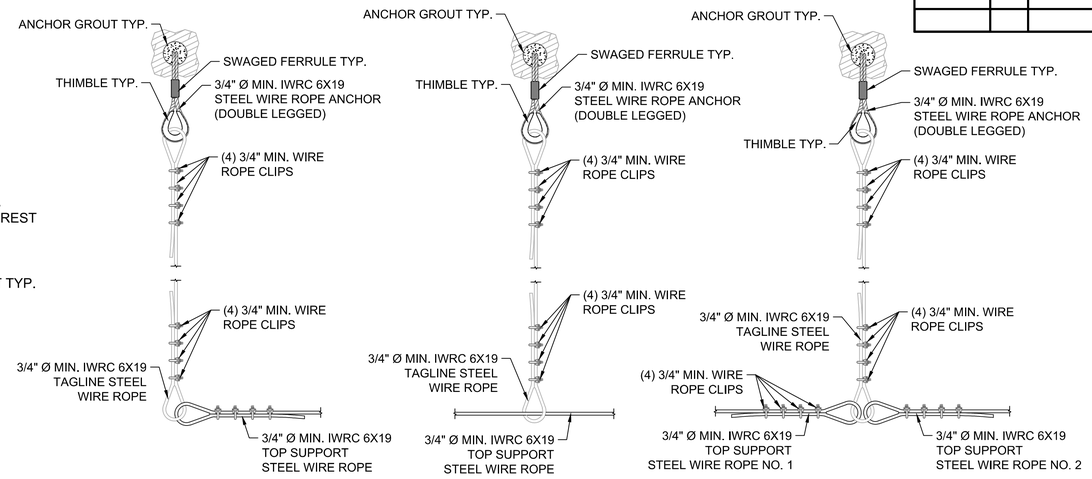


TYPE II ROCKFALL DRAPE LAYOUT DETAIL
ELEVATION VIEW SCALE: N.T.S.



TOP SUPPORT WIRE ROPE CONNECTION DETAILS
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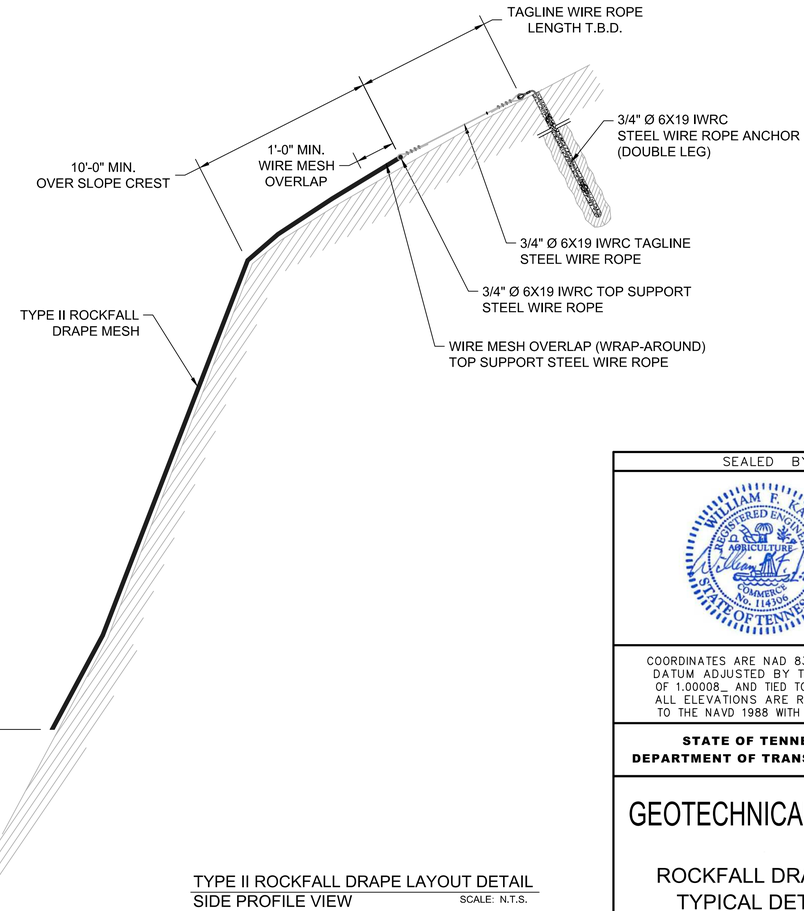

TYPE II ROCKFALL DRAPE LAYOUT DETAIL
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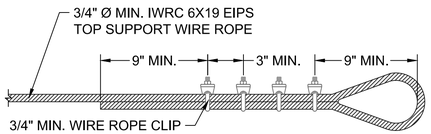
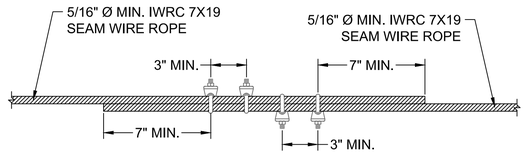
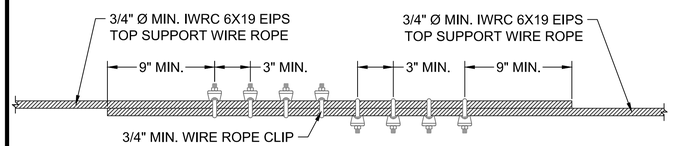


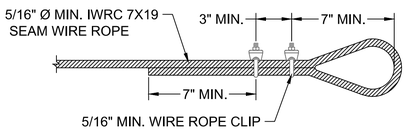
DRAPERY SYSTEM TOP SUPPORT WIRE ROPE
END LOOP TERMINATION DETAIL SCALE: N.T.S.



DRAPERY SYSTEM SEAM LACING WIRE ROPE
ROPE SPLICE CONNECTION DETAIL SCALE: N.T.S.



DRAPERY SYSTEM TOP SUPPORT WIRE ROPE
ROPE SPLICE CONNECTION DETAIL SCALE: N.T.S.



DRAPERY SYSTEM SEAM LACING WIRE ROPE
END LOOP TERMINATION DETAIL SCALE: N.T.S.

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STATE OF TENNESSEE
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GEOTECHNICAL PLANS

ROCKFALL DRAPERY TYPICAL DETAILS

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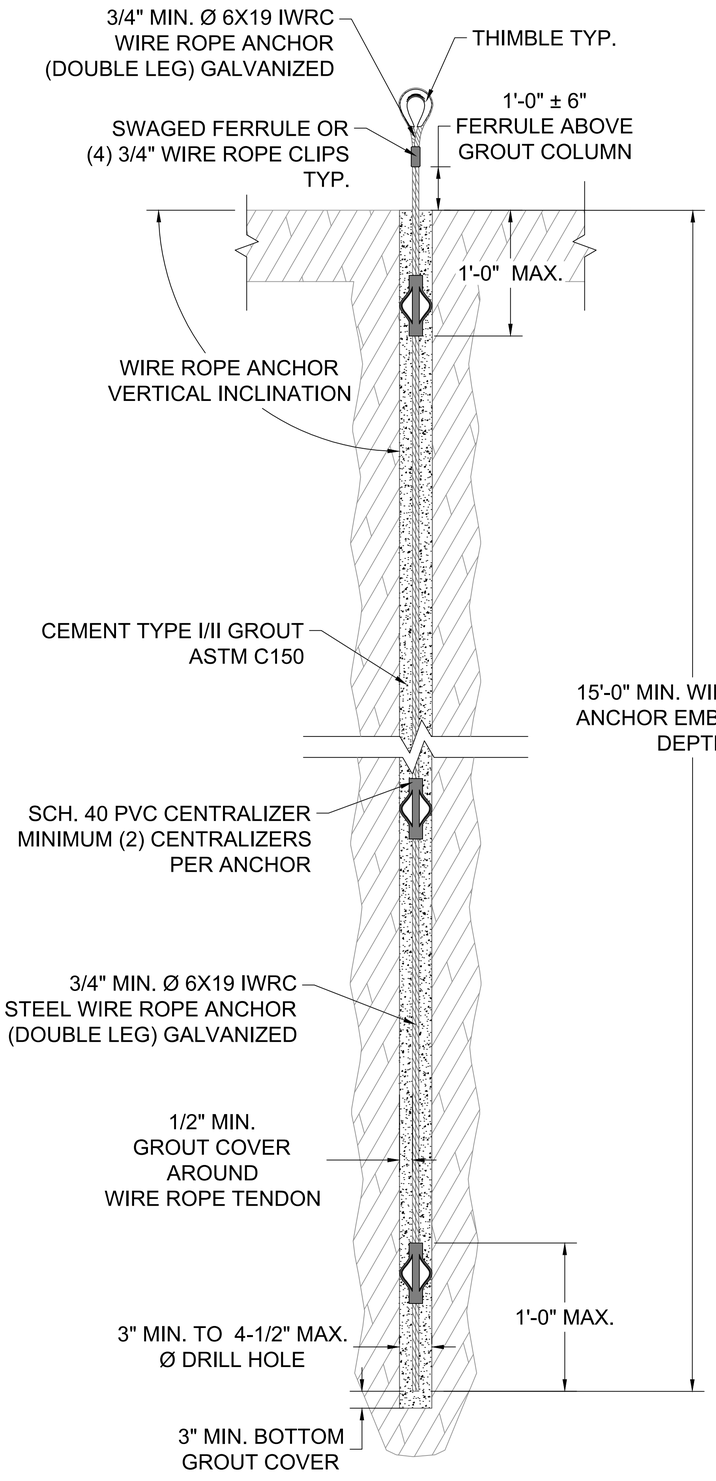
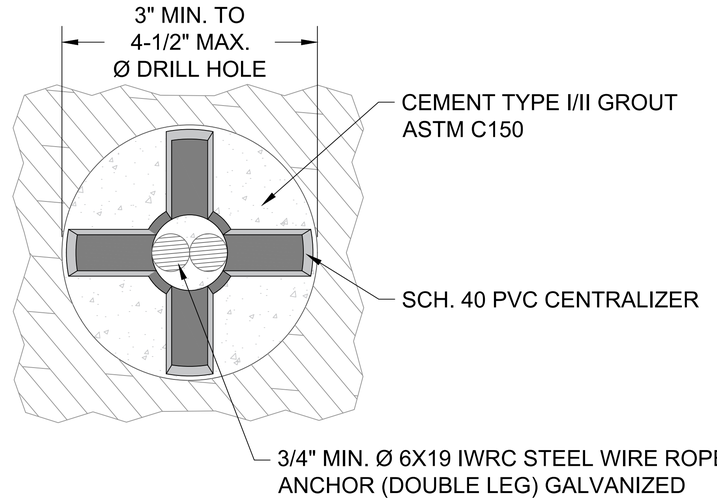
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-4



PRODUCTION WIRE ROPE ANCHOR
SIDE VIEW DETAIL SCALE: N.T.S.



PRODUCTION WIRE ROPE ANCHOR DRILL HOLE
CROSS-SECTIONAL VIEW SCALE: N.T.S.

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DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL PLANS

ROCKFALL DRAPERY
ANCHOR TYPICAL DETAILS

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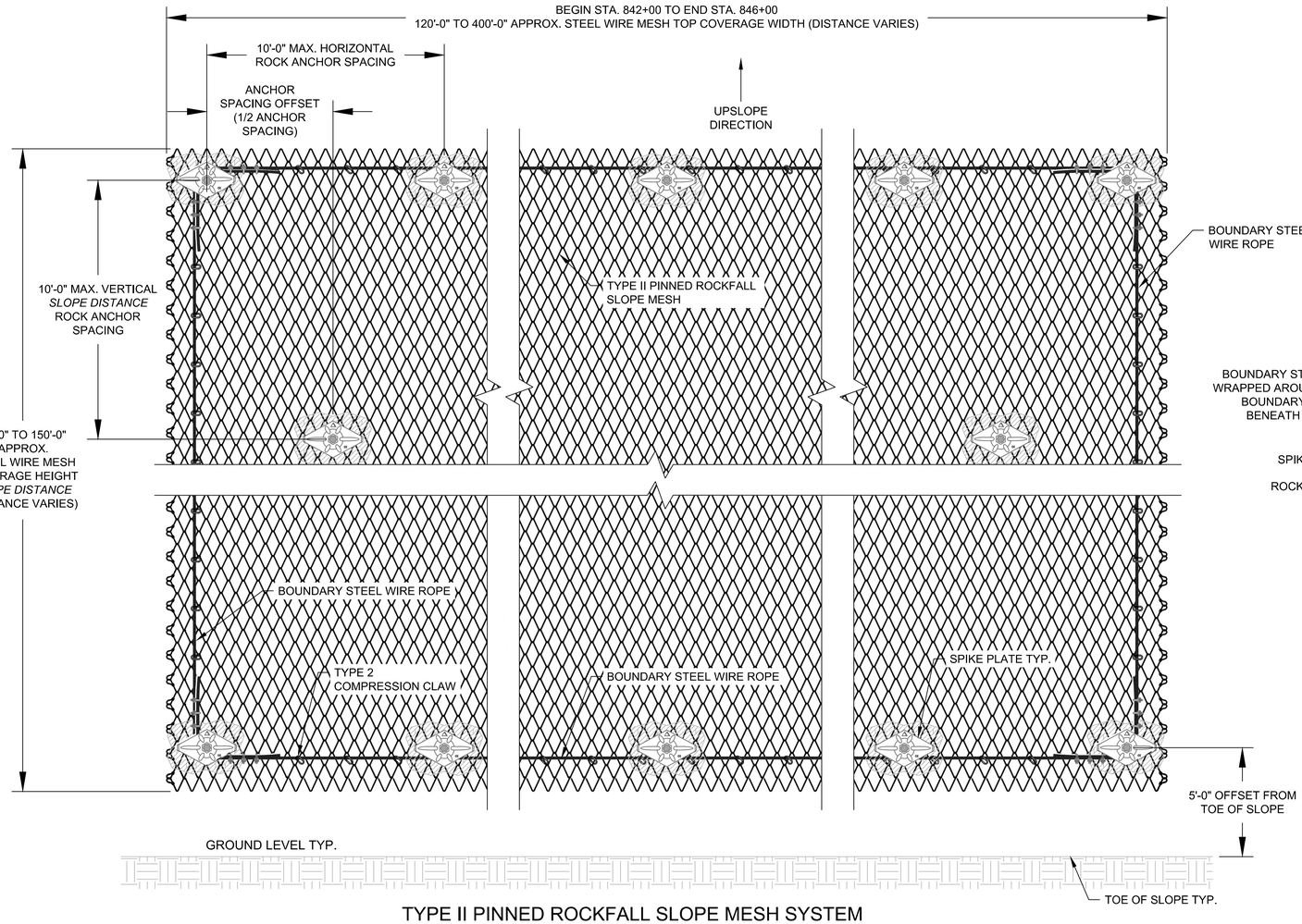
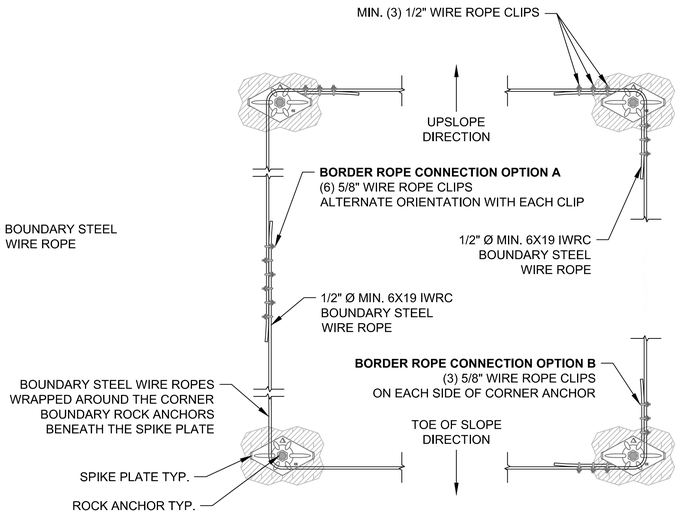


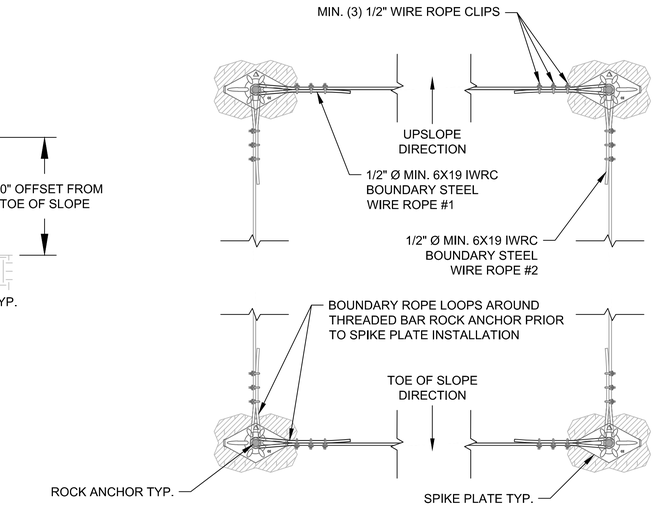
TYPE II PINNED ROCKFALL SLOPE MESH SYSTEM LAYOUT DETAIL ELEVATION VIEW

SCALE: N.T.S.



TYPE II PINNED ROCKFALL SLOPE MESH BOUNDARY WIRE ROPE ASSEMBLY TO CORNER ANCHORS - PLAN VIEW DETAIL

SCALE: N.T.S.



TYPE II PINNED ROCKFALL SLOPE MESH BOUNDARY WIRE ROPE END CONNECTION OPTION DETAILS - ELEVATION VIEW

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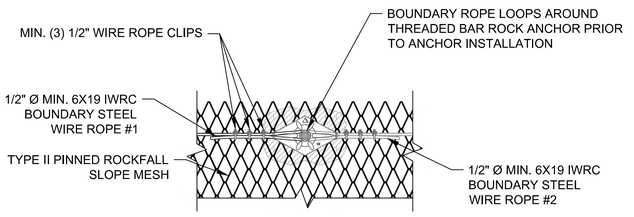

TYPE II PINNED ROCKFALL SLOPE MESH HORIZONTAL BOUNDARY ROPE SEPARATION DETAIL - ELEVATION VIEW

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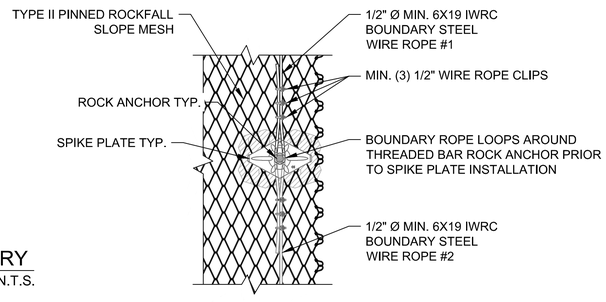

TYPE II PINNED ROCKFALL SLOPE MESH VERTICAL BOUNDARY ROPE SEPARATION DETAIL - ELEVATION VIEW

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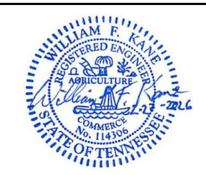

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GEOTECHNICAL PLANS

PINNED ROCKFALL WIRE MESH ASSEMBLY TYPICAL DETAILS

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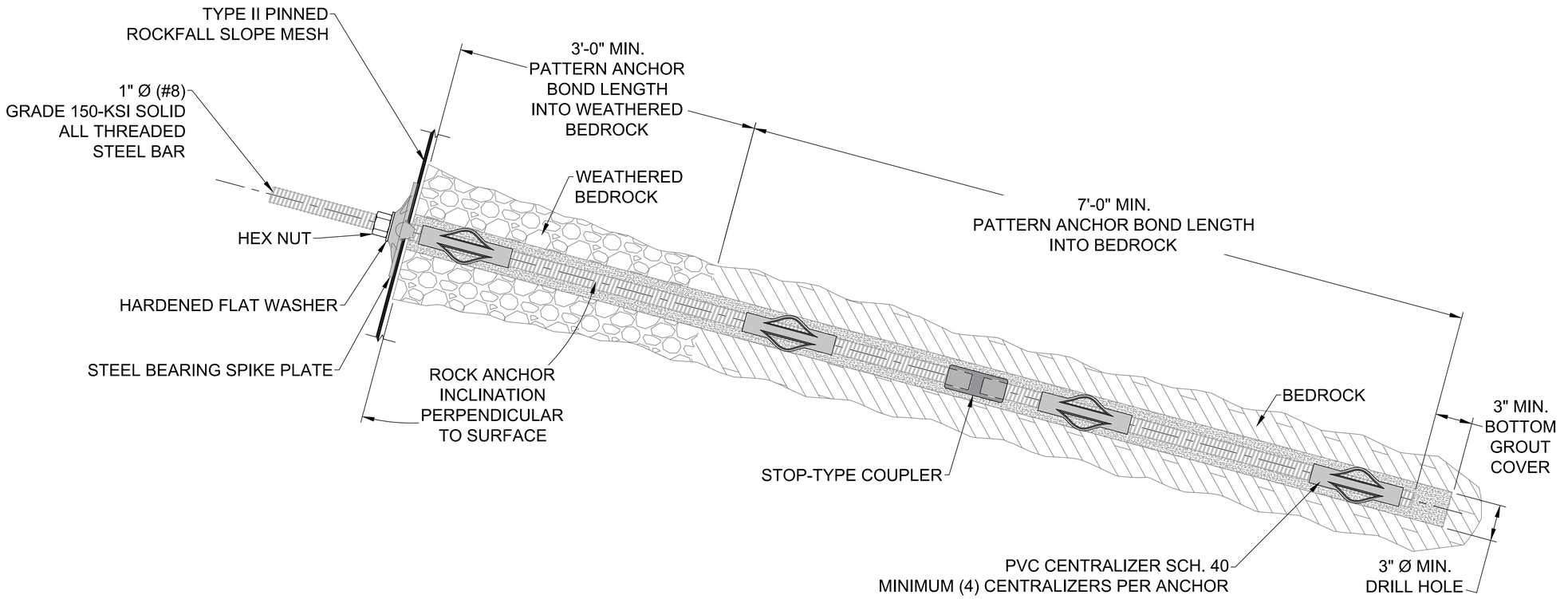
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-6



PRODUCTION ROCK ANCHOR DETAIL
SIDE PROFILE VIEW

SCALE: N.T.S.

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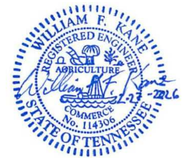

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GEOTECHNICAL PLANS

THREADED BAR
TYPICAL DETAILS

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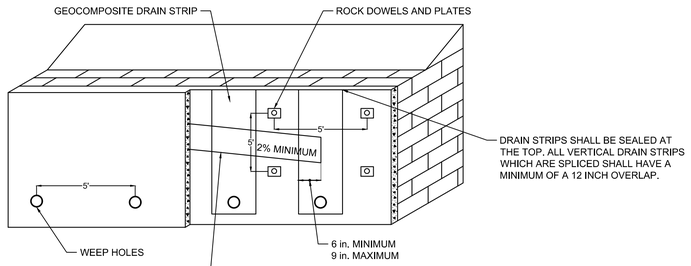
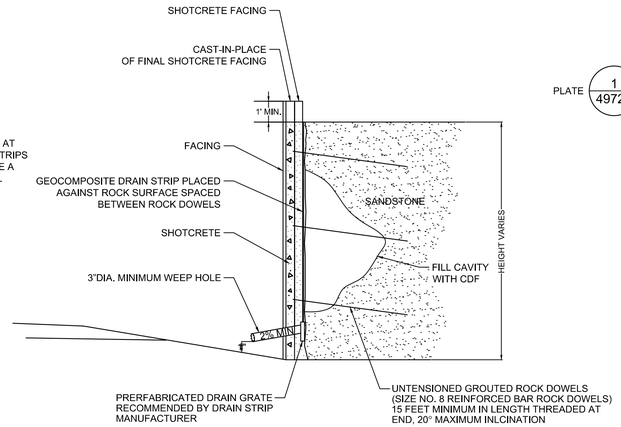
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-7

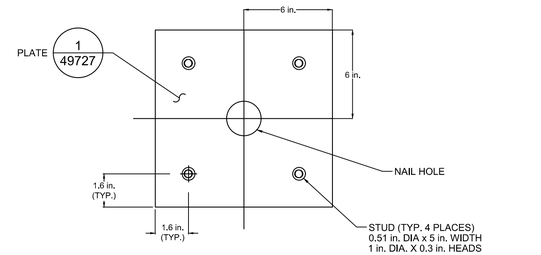
FRONT VIEW OF SHOTCRETE TREATMENT
NOT TO SCALE



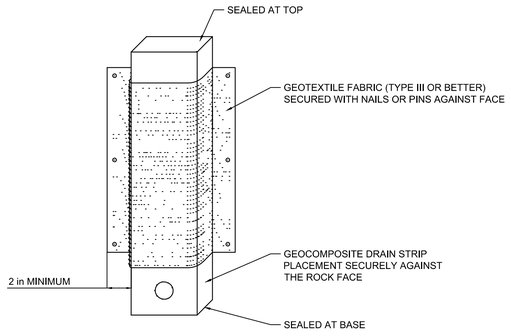
NOTE:
ROCK DOWELS ON 5 FOOT CENTERS, WEEP HOLES ARE TO BE PLACED AT THE BOTTOM OF THE WALL ON 5 FOOT CENTERS. GEOCOMPOSITE DRAINAGE STRIPS CONNECT TO WEEP HOLES TO ALLOW DRAINAGE.

SCHEMATIC SHOTCRETE TREATMENT
NOT TO SCALE





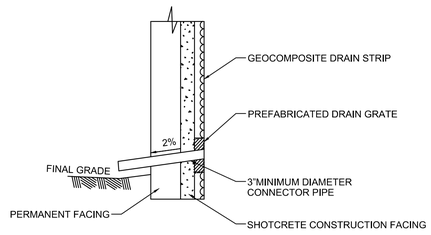
CONNECTOR PLATE WITH STUD DETAIL
NOT TO SCALE



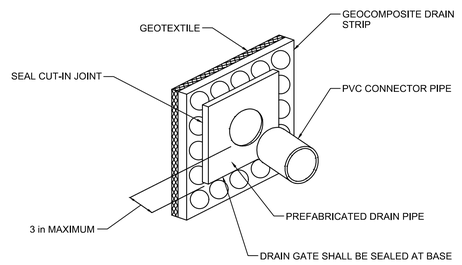
INSTALLATION OF DRAIN STRIPS

1. GEOCOMPOSITE DRAIN STRIPS SHALL BE PLACED SECURELY AGAINST THE ROCK FACE.
2. GEOTEXTILE FABRIC SHALL BE PLACED OVER THE DRAIN STRIP AND SECURED TO THE FACE. THIS FABRIC SHALL EXTEND AT LEAST 2 INCHES BEYOND THE DRAIN STRIP.
3. FUTURE WALL CONSTRUCTION MAY PROCEED AFTER THE DRAINAGE INSTALLATION HAS BEEN INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER.

DETAIL OF DRAIN STRIP INSTALLATION
NOT TO SCALE

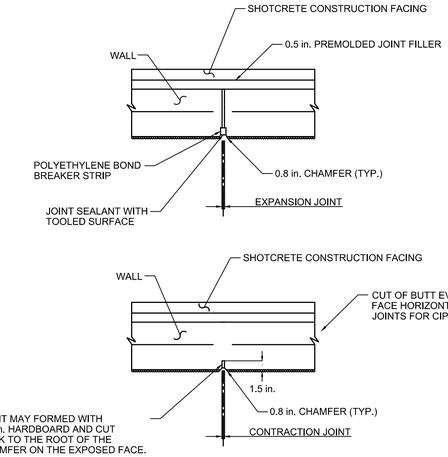


SECTIONAL VIEW



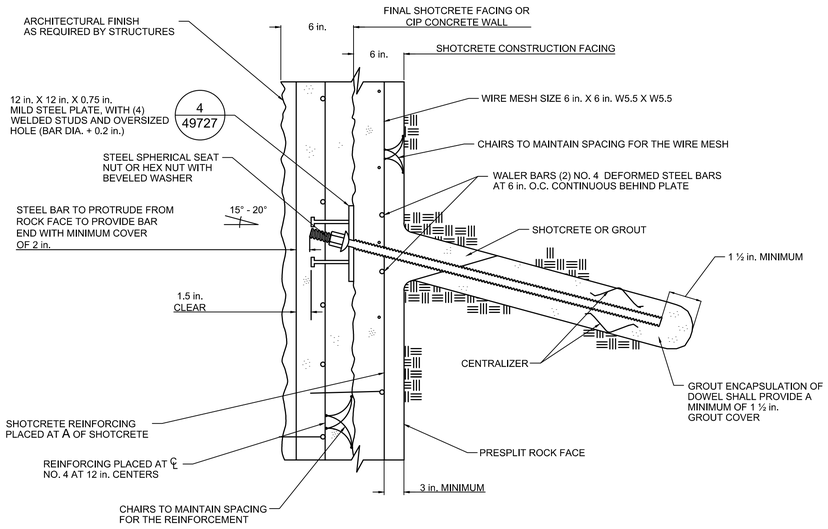
ISOMETRIC VIEW

DRAIN GATE DETAILS
NOT TO SCALE



NOTE:
EXPANSION JOINTS IN CIP WALL TO BE LOCATED AT A MAXIMUM SPACING OF 91 FEET CENTER TO CENTER, CENTERED BETWEEN NAILS. CONTRACTION JOINTS IN CIP WALL TO BE LOCATED AT MAXIMUM SPACING OF 30 FEET CENTER TO CENTER. EXPANSION AND CONTRACTION JOINTS NOT REQUIRED THROUGH SHOTCRETE CONSTRUCTION FACING.

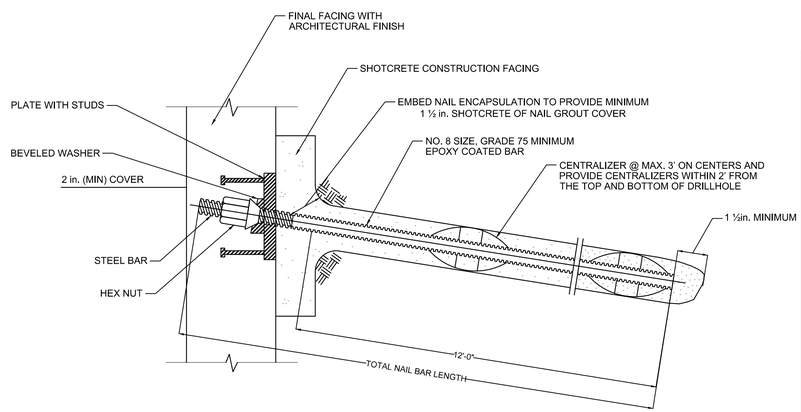
TYPICAL EXPANSION AND CONTRACTION JOINTS
NOT TO SCALE



SPLICE LENGTH

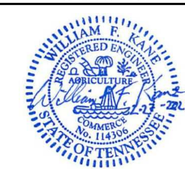
BAR SIZE	NO. 4
SPLICE LENGTH	22 in.

CROSS-SECTION OF TYPICAL UNTENSIONED GROUTED ROCK DOWEL INSTALLATION
NOT TO SCALE



EPOXY COATED DOWEL DETAIL
NOT TO SCALE

SEALED BY



COORDINATES ARE NAD 83(2007), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008_ AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 09_.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL PLANS

SHOTCRETE TYPICAL DETAILS

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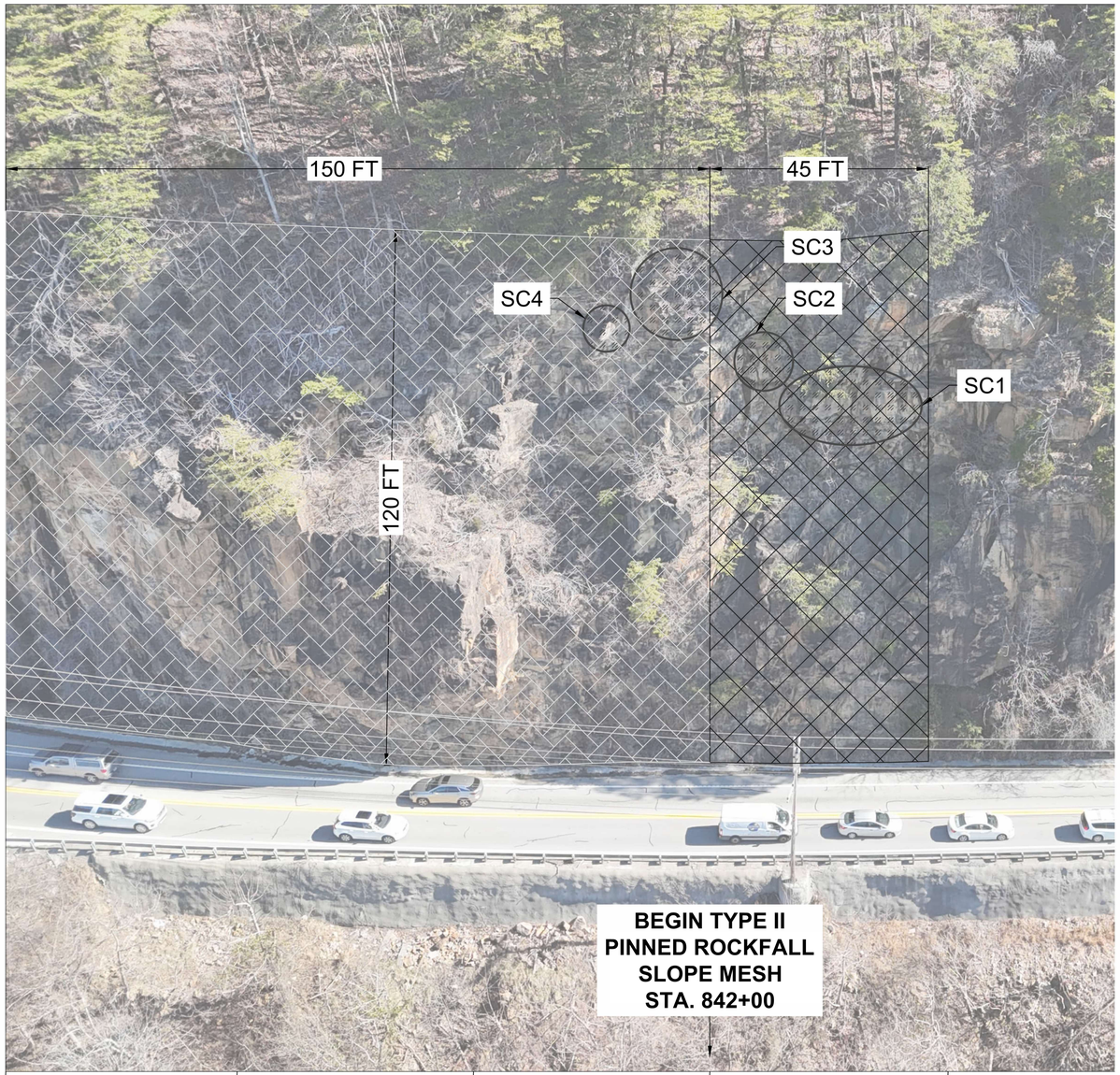
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-8



TYPE II ROCKFALL
DRAPE MESH (APPROXIMATE)

TYPE II PINNED ROCKFALL
SLOPE MESH (APPROXIMATE)

SCALING AND TRIMMING (APPROXIMATE)

SCHEDULE 1 - MITIGATION INFORMATION

MITIGATION (ID)	BEGINNING STATION (STA.)	ENDING STATION (STA.)	ELEVATION - MINIMUM (FROM GROUND LEVEL)	ELEVATION - MAXIMUM (FROM GROUND LEVEL)
SC1	841+55	841+85	66'-0"	83'-0"
SC2	841+82	841+94	78'-0"	90'-0"
SC3	841+97	842+17	88'-0"	108'-0"
SC4	842+17	842+27	87'-0"	97'-0"

SCHEDULE 1 NOTE:
1. ALL DIMENSIONS AND STATIONS ARE APPROXIMATE.

NOTE: STATION INTERVALS AND LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. PLACEMENT OF SLOPE MITIGATION ELEMENTS DEPICTED HEREIN SHOULD BE CONSIDERED AS REPRESENTATIONAL ONLY, AND MAY CHANGE BASED ON CONDITIONS ENCOUNTERED ONCE CONSTRUCTION BEGINS. MEASUREMENT OF MITIGATION ELEMENTS ARE PRESENTED IN TWO DIMENSIONAL FEET AND DO NOT ACCOUNT FOR 3-D VARIATIONS IN SLOPE GEOMETRY.

GENERAL NOTES:

1. PHOTOS OF SITE ARE APPROXIMATELY SCALED AND ARE PROVIDED FOR GUIDANCE TO SHOW CONDITIONS AT THE TIME OF INVESTIGATION.
2. REMOVE VEGETATION ALONG SLOPE FACE 20 FEET UPSLOPE OF THE ROCKFALL DRAPE.
3. FROM STA. 841+55 TO STA. 847+52, REMOVE HAZARDOUS ROCKS BY SCALING AND TRIMMING IN THE AREAS DEPICTED. ALL SCALING AND TRIMMING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH SPECIAL PROVISION 203E.
4. A TYPE II PINNED ROCKFALL SLOPE MESH SHALL BE INSTALLED APPROXIMATELY BETWEEN STA. 842+00 AND STA. 846+00.
5. A TYPE II ROCKFALL DRAPE MESH SHALL BE INSTALLED APPROXIMATELY BETWEEN STA. 841+55 TO STA. 842+00 AND STA. 846+00 TO STA. 847+52.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL PLANS

STA. 841+50 TO STA. 843+50
SCALE: 1"=15'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-9



TYPE II PINNED ROCKFALL SLOPE MESH (APPROXIMATE)

SCALING AND TRIMMING (APPROXIMATE)

SCHEDULE 1 - MITIGATION INFORMATION

MITIGATION (ID)	BEGINNING STATION (STA.)	ENDING STATION (STA.)	ELEVATION - MINIMUM (FROM GROUND LEVEL)	ELEVATION - MAXIMUM (FROM GROUND LEVEL)
SC1	843+46	843+76	22'-0"	92'-0"
SC2	844+32	844+53	43'-0"	64'-0"
SC3	844+82	845+25	60'-0"	105'-0"

SCHEDULE 1 NOTE:

1. ALL DIMENSIONS AND STATIONS ARE APPROXIMATE.

NOTE: STATION INTERVALS AND LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. PLACEMENT OF SLOPE MITIGATION ELEMENTS DEPICTED HEREIN SHOULD BE CONSIDERED AS REPRESENTATIONAL ONLY, AND MAY CHANGE BASED ON CONDITIONS ENCOUNTERED ONCE CONSTRUCTION BEGINS. MEASUREMENT OF MITIGATION ELEMENTS ARE PRESENTED IN TWO DIMENSIONAL FEET AND DO NOT ACCOUNT FOR 3-D VARIATIONS IN SLOPE GEOMETRY.

GENERAL NOTES:

1. PHOTOS OF SITE ARE APPROXIMATELY SCALED AND ARE PROVIDED FOR GUIDANCE TO SHOW CONDITIONS AT THE TIME OF INVESTIGATION.
2. REMOVE VEGETATION ALONG SLOPE FACE 20 FEET UPSLOPE OF THE ROCKFALL DRAPE.
3. FROM STA. 841+55 TO STA. 847+52, REMOVE HAZARDOUS ROCKS BY SCALING AND TRIMMING IN THE AREAS DEPICTED. ALL SCALING AND TRIMMING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH SPECIAL PROVISION 203E.
4. A TYPE II PINNED ROCKFALL SLOPE MESH SHALL BE INSTALLED APPROXIMATELY BETWEEN STA. 842+00 AND STA. 846+00.
5. A TYPE II ROCKFALL DRAPE MESH SHALL BE INSTALLED APPROXIMATELY BETWEEN STA. 841+55 TO STA. 842+00 AND STA. 846+00 TO STA. 847+52.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL PLANS

STA. 842+66 TO STA. 845+30
SCALE: 1"=10'

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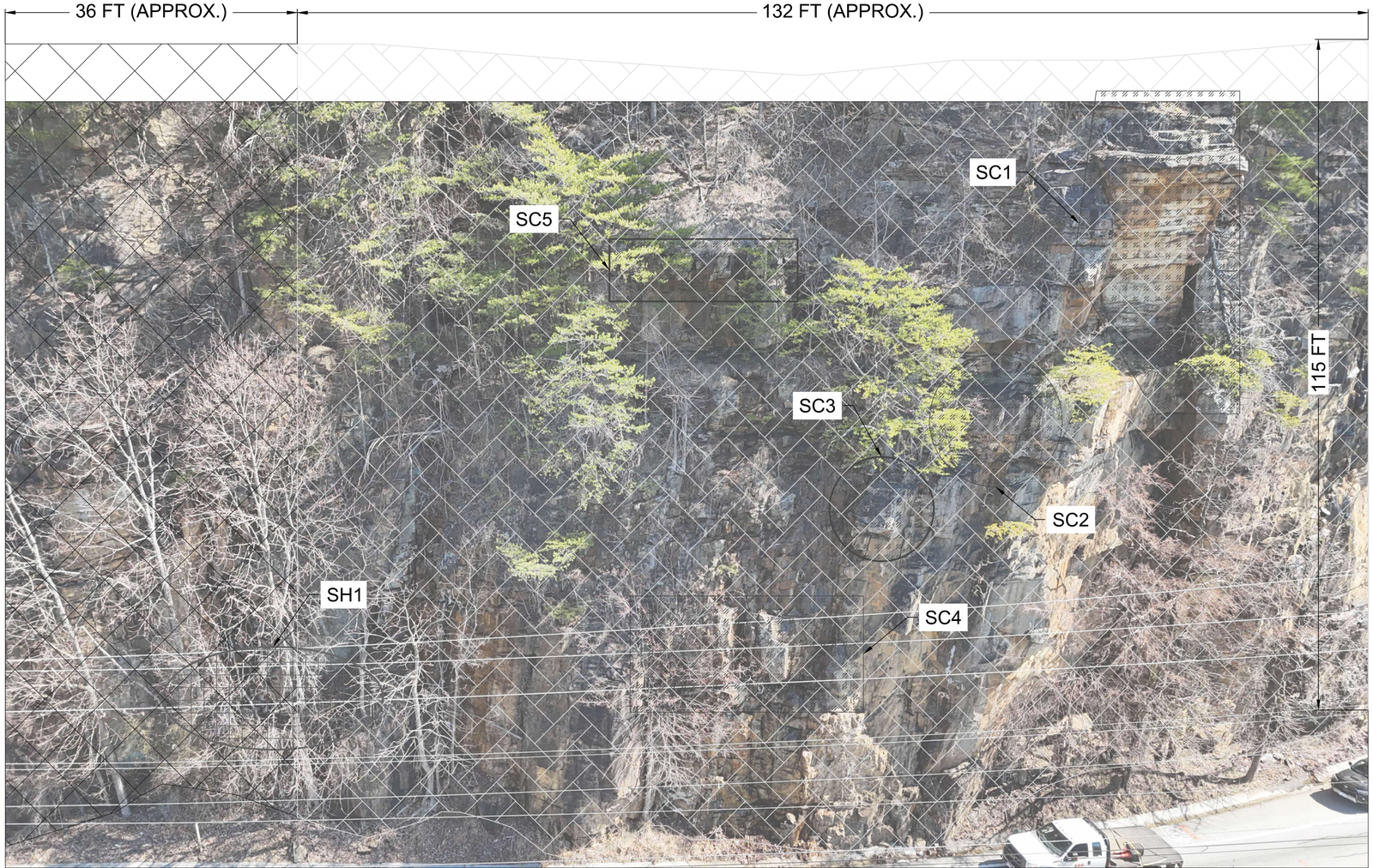
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-10



NOTE: PROJECT TO EXTEND BEYOND LIMITS OF PHOTO.

TYPE II PINNED ROCKFALL SLOPE MESH (APPROXIMATE)

SCALING AND TRIMMING (APPROXIMATE)

SHOTCRETE INSTALLATION (APPROXIMATE)

SCHEDULE 1 - MITIGATION INFORMATION

MITIGATION (ID)	BEGINNING STATION (STA.)	ENDING STATION (STA.)	ELEVATION - MINIMUM (FROM GROUND LEVEL)	ELEVATION - MAXIMUM (FROM GROUND LEVEL)
SC1	844+82	845+25	60'-0"	105'-0"
SC2	845+27	845+39	43'-0"	59'-0"
SC3	845+36	845+46	35'-0"	48'-0"
SC4	845+40	845+60	17'-0"	31'-0"
SC5	845+45	845+67	65'-0"	73'-0"
SH1	845+90	846+16	8'-0"	20'-0"

SCHEDULE 1 NOTE:
1. ALL DIMENSIONS AND STATIONS ARE APPROXIMATE.

NOTE: STATION INTERVALS AND LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. PLACEMENT OF SLOPE MITIGATION ELEMENTS DEPICTED HEREIN SHOULD BE CONSIDERED AS REPRESENTATIONAL ONLY, AND MAY CHANGE BASED ON CONDITIONS ENCOUNTERED ONCE CONSTRUCTION BEGINS. MEASUREMENT OF MITIGATION ELEMENTS ARE PRESENTED IN TWO DIMENSIONAL FEET AND DO NOT ACCOUNT FOR 3-D VARIATIONS IN SLOPE GEOMETRY.

GENERAL NOTES:

1. PHOTOS OF SITE ARE APPROXIMATELY SCALED AND ARE PROVIDED FOR GUIDANCE TO SHOW CONDITIONS AT THE TIME OF INVESTIGATION.
2. REMOVE VEGETATION ALONG SLOPE FACE 20 FEET UPSLOPE OF THE ROCKFALL DRAPE.
3. FROM STA. 841+55 TO STA. 847+52, REMOVE HAZARDOUS ROCKS BY SCALING AND TRIMMING IN THE AREAS DEPICTED. ALL SCALING AND TRIMMING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH SPECIAL PROVISION 203E.
4. A TYPE II PINNED ROCKFALL SLOPE MESH SHALL BE INSTALLED APPROXIMATELY BETWEEN STA. 842+00 AND STA. 846+00.
5. A TYPE II ROCKFALL DRAPE MESH SHALL BE INSTALLED APPROXIMATELY BETWEEN STA. 841+55 TO STA. 842+00 AND STA. 846+00 TO STA. 847+52.

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WILLIAM F. KANE REGISTERED ENGINEER AGRICULTURE COMMERCE No. 114306 STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL PLANS

STA. 844+68 TO STA. 846+36
SCALE: 1"=8'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-11



NOTE: PROJECT TO EXTEND BEYOND LIMITS OF PHOTO.

TYPE II PINNED ROCKFALL SLOPE MESH (APPROXIMATE)

TYPE II ROCKFALL DRAPE MESH (APPROXIMATE)

SCALING AND TRIMMING (APPROXIMATE)

SHOTCRETE INSTALLATION (APPROXIMATE)

SCHEDULE 1 - MITIGATION INFORMATION

MITIGATION (ID)	BEGINNING STATION (STA.)	ENDING STATION (STA.)	ELEVATION - MINIMUM (FROM GROUND LEVEL)	ELEVATION - MAXIMUM (FROM GROUND LEVEL)
SH1	845+90	846+16	8'-0"	20'-0"
SC1	846+18	846+32	63'-0"	77'-0"
SC2	846+20	846+34	30'-0"	44'-0"
SC3	847+05	847+24	2'-0"	20'-0"

SCHEDULE 1 NOTE:
1. ALL DIMENSIONS AND STATIONS ARE APPROXIMATE.

NOTE: STATION INTERVALS AND LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. PLACEMENT OF SLOPE MITIGATION ELEMENTS DEPICTED HEREIN SHOULD BE CONSIDERED AS REPRESENTATIONAL ONLY, AND MAY CHANGE BASED ON CONDITIONS ENCOUNTERED ONCE CONSTRUCTION BEGINS. MEASUREMENT OF MITIGATION ELEMENTS ARE PRESENTED IN TWO DIMENSIONAL FEET AND DO NOT ACCOUNT FOR 3-D VARIATIONS IN SLOPE GEOMETRY.

GENERAL NOTES:

1. PHOTOS OF SITE ARE APPROXIMATELY SCALED AND ARE PROVIDED FOR GUIDANCE TO SHOW CONDITIONS AT THE TIME OF INVESTIGATION.
2. REMOVE VEGETATION ALONG SLOPE FACE 20 FEET UPSLOPE OF THE ROCKFALL DRAPE.
3. FROM STA. 841+55 TO STA. 847+52, REMOVE HAZARDOUS ROCKS BY SCALING AND TRIMMING IN THE AREAS DEPICTED. ALL SCALING AND TRIMMING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH SPECIAL PROVISION 203E.
4. A TYPE II PINNED ROCKFALL SLOPE MESH SHALL BE INSTALLED APPROXIMATELY BETWEEN STA. 842+00 AND STA. 846+00.
5. A TYPE II ROCKFALL DRAPE MESH SHALL BE INSTALLED APPROXIMATELY BETWEEN STA. 841+55 TO STA. 842+00 AND STA. 846+00 TO STA. 847+52.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL PLANS

STA. 845+73 TO STA. 847+60
SCALE: 1"=8'

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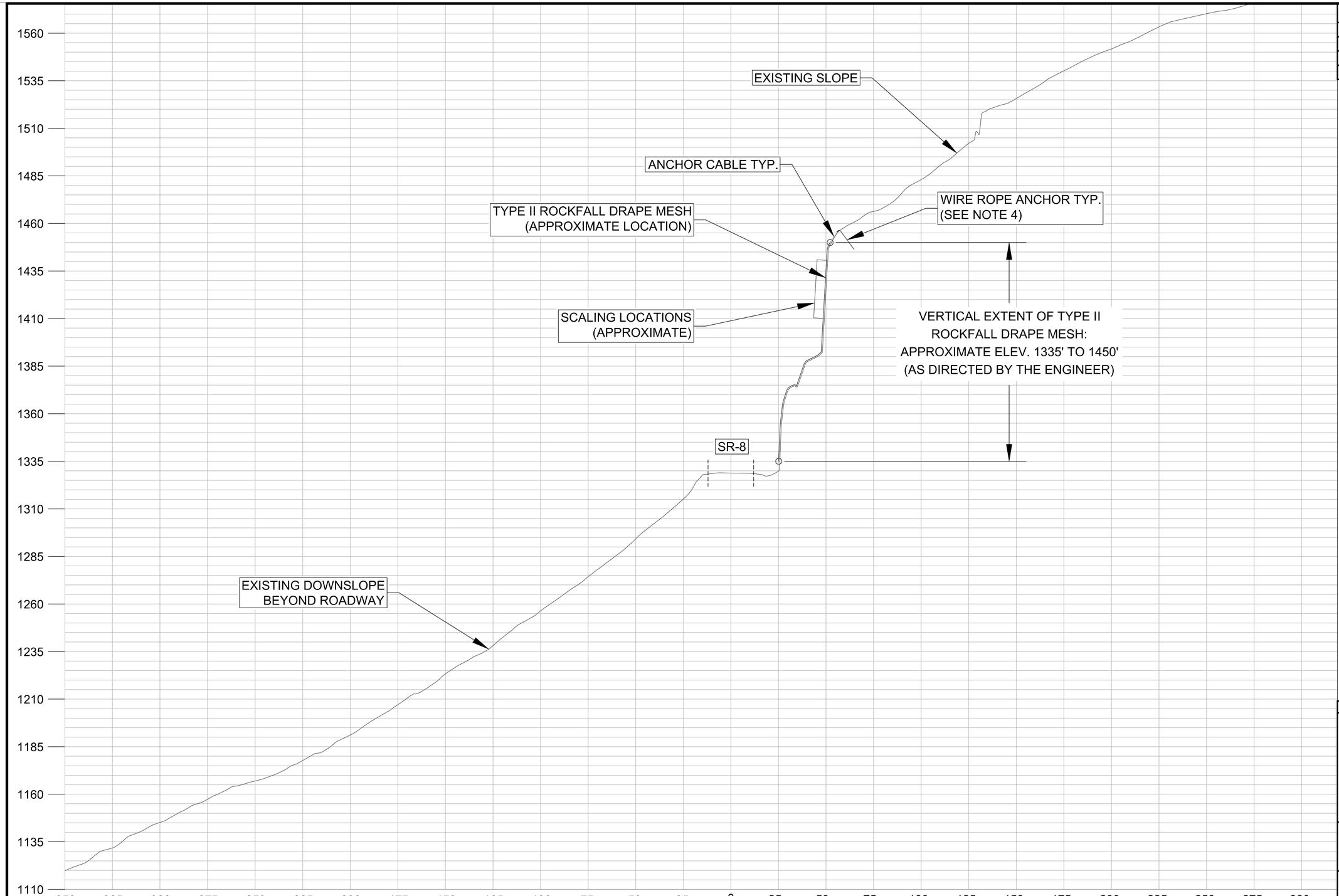

STA. 841+75

TYPICAL SECTION - EASTERN SECTION MITIGATION DESIGN ELEMENTS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-12

NOTES:

1. LOCATIONS OF MITIGATION ELEMENTS ARE APPROXIMATE ONLY.

2. THE RECOMMENDATIONS SHOWN ON THE TYPICAL SECTION ARE BASED ON 95% ROCKFALL RETAINED FROM THE HIGHEST ROCKFALL GENERATOR WITHIN THE PROJECT LIMITS.

3. TYPE II ROCKFALL DRAPE MESH TO BE INSTALLED BETWEEN STATION 841+55 AND STATION 842+00.

4. TYPE I WIRE ROPE ANCHOR FOR SUPPORT CABLES TO BE EMBEDDED A MINIMUM OF 15'-0".

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL PLANS
CROSS-SECTION
STA. 841+50 TO STA. 842+00
SCALE: 1"=25'

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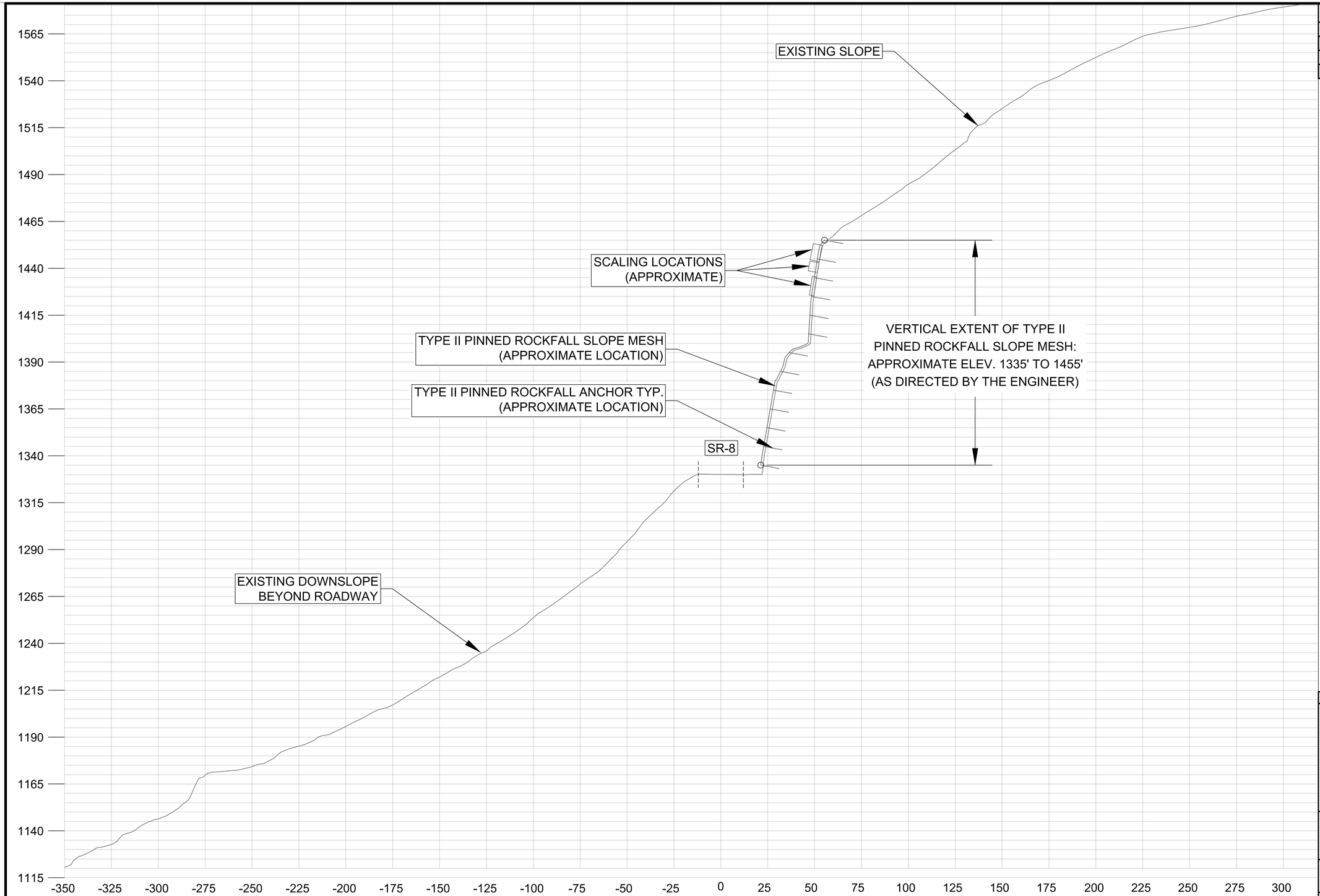

STA. 842+00

TYPICAL SECTION - EASTERN SECTION MITIGATION DESIGN ELEMENTS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-13

NOTES:

1. LOCATIONS OF MITIGATION ELEMENTS ARE APPROXIMATE ONLY.

2. THE RECOMMENDATIONS SHOWN ON THE TYPICAL SECTION ARE BASED ON 95% ROCKFALL RETAINED FROM THE HIGHEST ROCKFALL GENERATOR WITHIN THE PROJECT LIMITS.

3. TYPE II PINNED ROCKFALL SLOPE MESH TO BE INSTALLED BETWEEN STATION 842+00 AND STATION 846+00.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL PLANS

CROSS-SECTION
STA. 842+00 TO STA. 846+00
SCALE: 1"=25'

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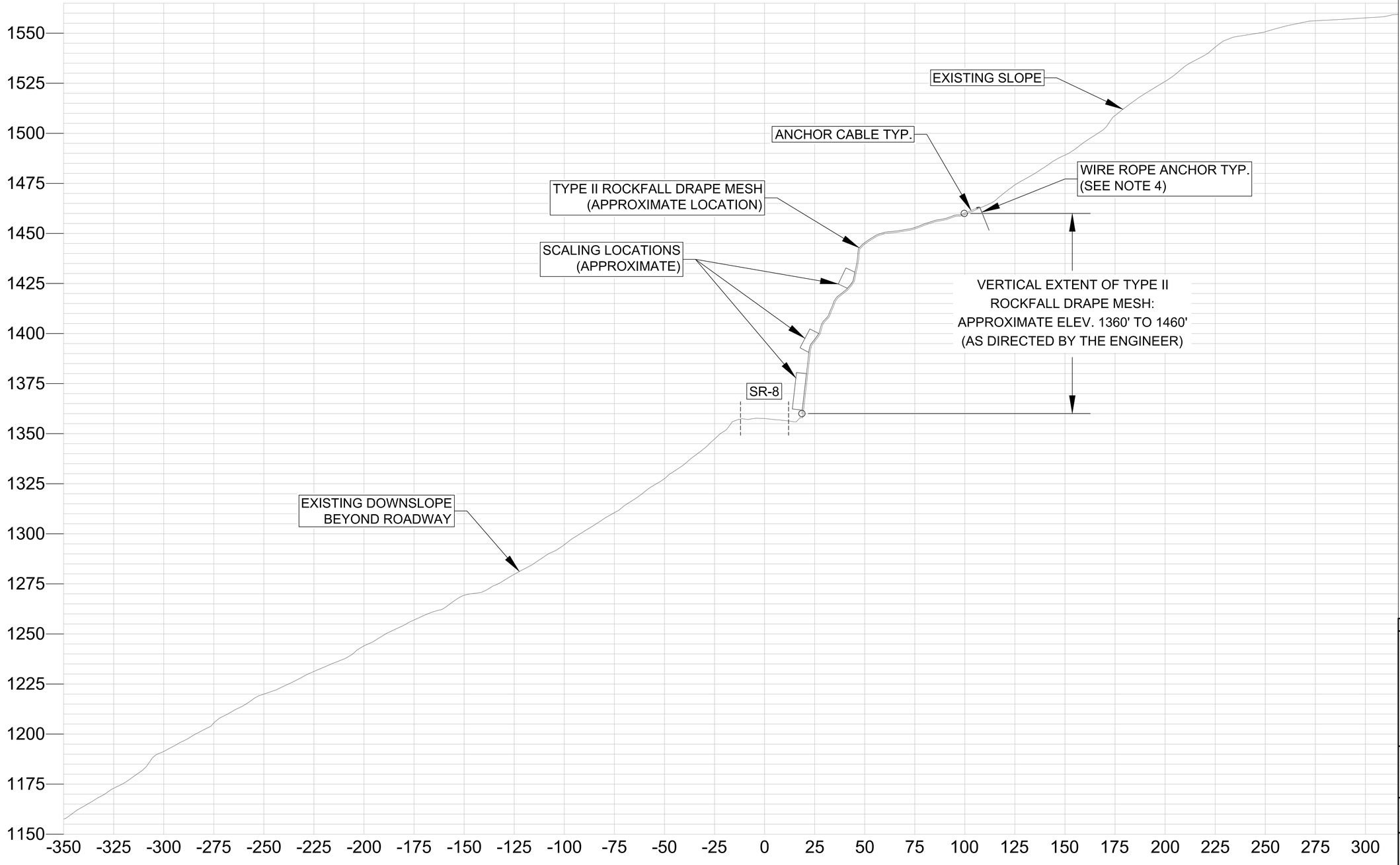

STA. 847+00

TYPICAL SECTION - EASTERN SECTION
MITIGATION DESIGN ELEMENTS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-14

NOTES:

1. LOCATIONS OF MITIGATION ELEMENTS ARE APPROXIMATE ONLY.

2. THE RECOMMENDATIONS SHOWN ON THE TYPICAL SECTION ARE BASED ON 95% ROCKFALL RETAINED FROM THE HIGHEST ROCKFALL GENERATOR WITHIN THE PROJECT LIMITS.

3. TYPE II ROCKFALL DRAPE MESH TO BE INSTALLED BETWEEN STATION 846+00 AND STATION 847+52.

4. TYPE I WIRE ROPE ANCHOR FOR SUPPORT CABLES TO BE EMBEDDED A MINIMUM OF 15'-0".

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL PLANS
CROSS-SECTION
STA. 846+00 TO STA. 847+52
SCALE: 1"=25'

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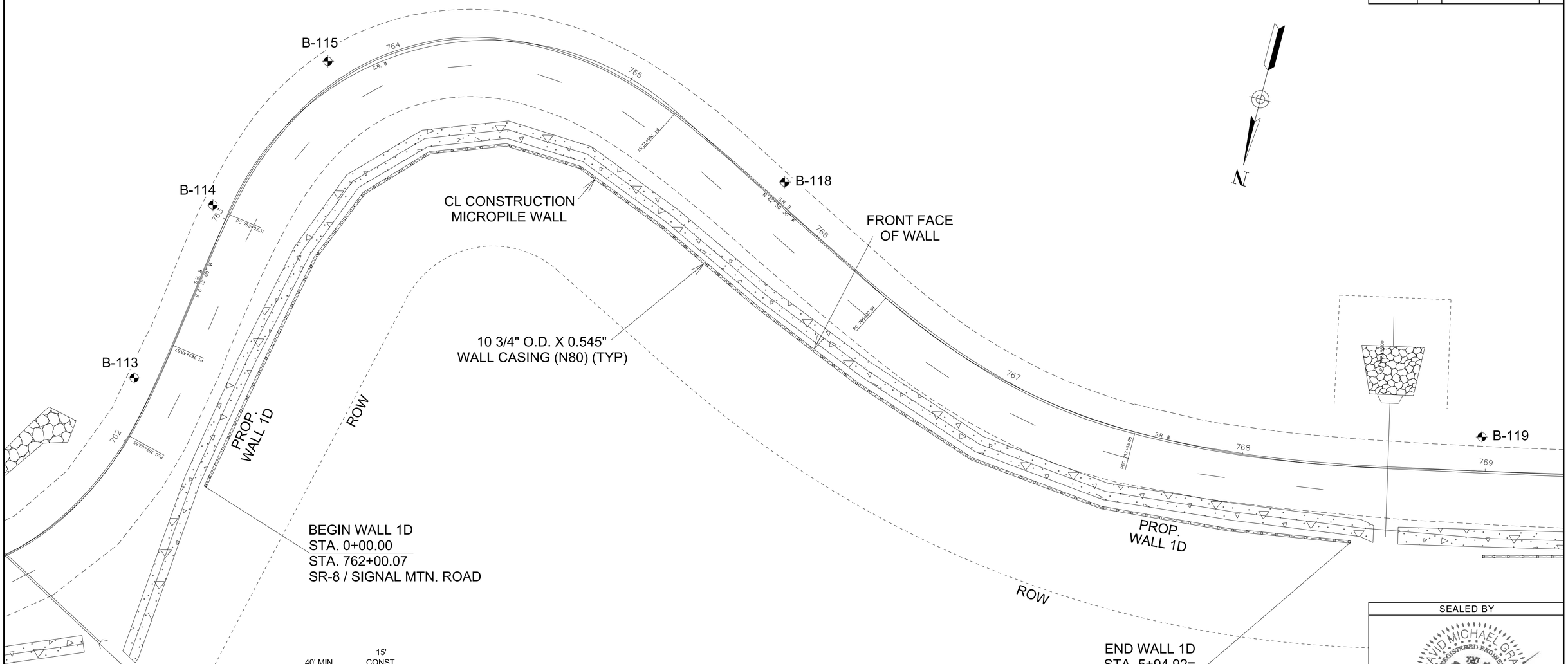
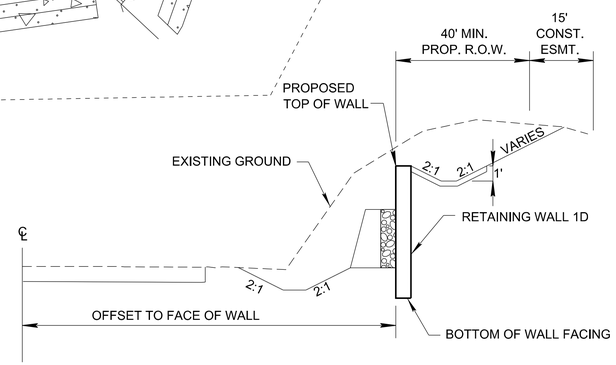
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-15





WALL 1D TYPICAL SECTION

SCALE: NTS

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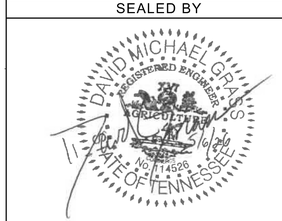

COORDINATES ARE NAD 83(2001), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOMETRIC LAYOUT RETAINING WALL 1D PLAN VIEW

SCALE: 1"=20'

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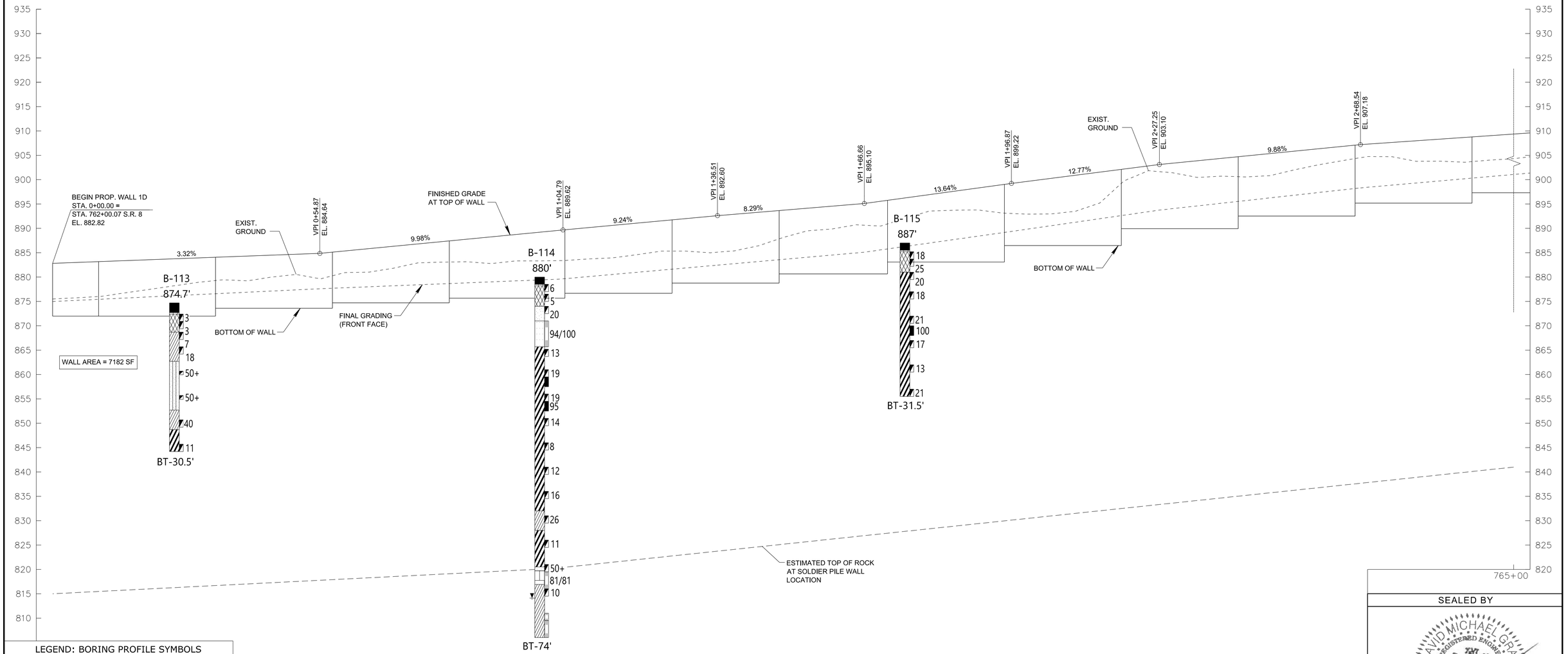
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-16



WALL 1D PROFILE VIEW
SCALE: 1"=10'

LEGEND: BORING PROFILE SYMBOLS

BORING I.D. → B-3321
703.71 ← BOREHOLE ELEVATION (FT MSL)
WATER LEVEL AT TIME OF DRILLING →
DELAYED WATER READING →
4 ← SPT N-VALUE
11 ← SPT SYMBOL
LITHOLOGY GRAPHIC →
66/100 ← RQD/REC
TERMINATION → CT-9.8'

BR=AUGER REFUSAL
BT=BORING TERMINATED
CT=CORING TERMINATED

- CONCRETE
- ASPHALT
- GRAVEL BASE
- FILL (TYPE A)
- TOPSOIL (TYPE A) CULTIVATED SOIL
- AUGER BORING WITHOUT SAMPLING/VOID IN BEDROCK
- SILTY CLAY (CL) (TYPE A)
- SILTY CLAY (CH) (TYPE A)
- CLAYEY SILT (ML) (TYPE A)
- CLAYEY SILT (MH) (TYPE A)
- CLAYEY SAND (SC) (TYPE A)
- SILTY SAND (SM) (TYPE A)
- DOLOMITE (TYPE B)
- POORLY GRADED SAND (SP) (TYPE A)
- LIMESTONE (TYPE B)
- WEATHERED LIMESTONE (TYPE B)
- SHALE (TYPE B)
- WEATHERED SHALE (TYPE B)

SEE GEOTECHNICAL NOTES AND ESTIMATED QUANTITIES SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL 1D PROFILE VIEW
STA. 762+00 - STA. 765+00
SCALE: 1"=10'

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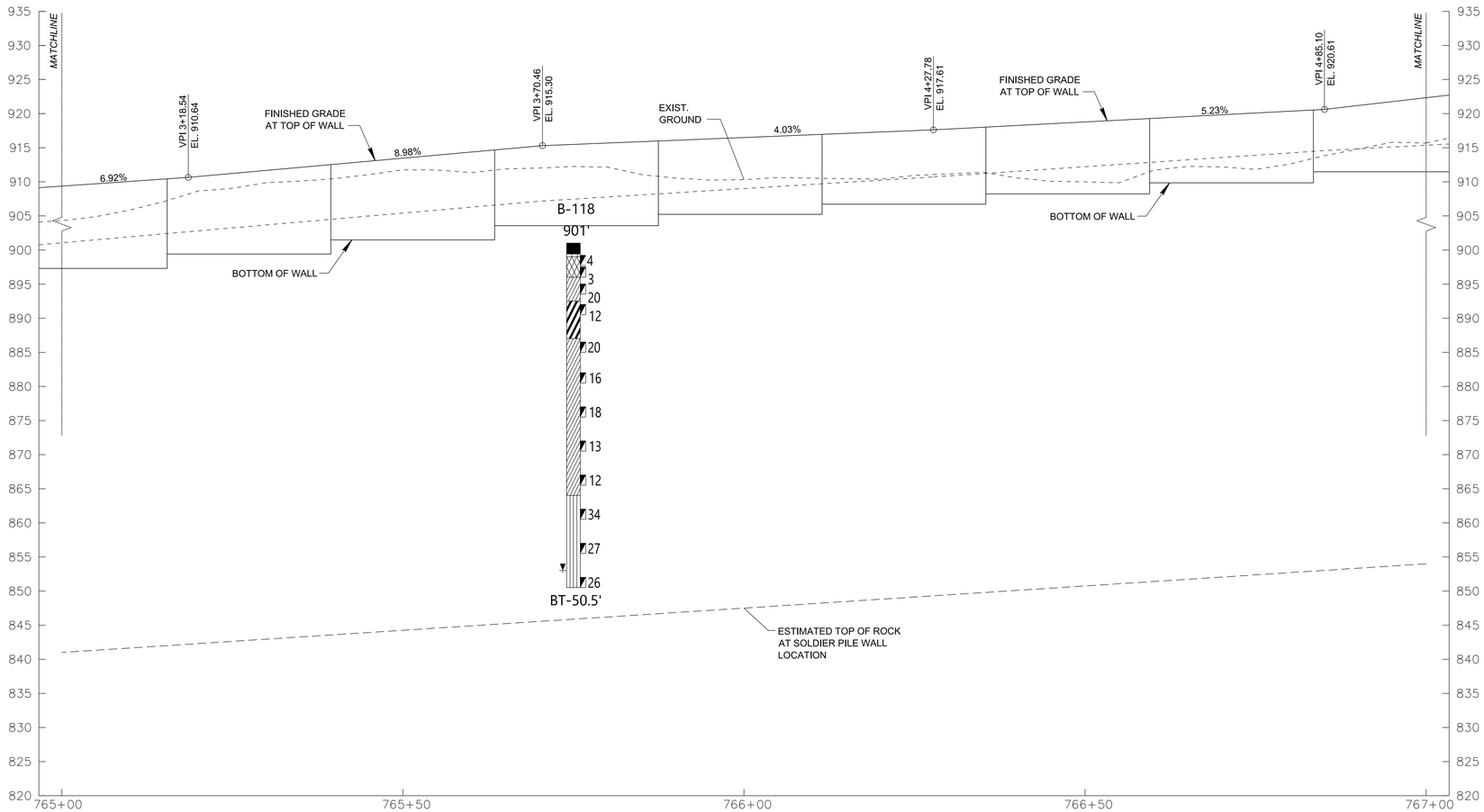
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-17



WALL 1D PROFILE VIEW

SCALE: 1"=10'

LEGEND: BORING PROFILE SYMBOLS

BORING I.D. → B-3321
703.71 ← BOREHOLE ELEVATION (FT MSL)
WATER LEVEL AT TIME OF DRILLING →
DELAYED WATER READING →
4 ← SPT N-VALUE
11 ← SPT SYMBOL
LITHOLOGY GRAPHIC →
66/100 ← RQD/REC
TERMINATION → CT-9.8'

BR=AUGER REFUSAL
BT=BORING TERMINATED
CT=CORING TERMINATED

- CONCRETE
- ASPHALT
- GRAVEL BASE
- FILL (TYPE A)
- TOPSOIL (TYPE A) CULTIVATED SOIL
- AUGER BORING WITHOUT SAMPLING/VOID IN BEDROCK
- SILTY CLAY (CL) (TYPE A)
- SILTY CLAY (CH) (TYPE A)
- CLAYEY SILT (ML) (TYPE A)
- CLAYEY SILT (MH) (TYPE A)
- CLAYEY SAND (SC) (TYPE A)
- SILTY SAND (SM) (TYPE A)
- DOLOMITE (TYPE B)
- POORLY GRADED SAND (SP) (TYPE A)
- LIMESTONE (TYPE B)
- WEATHERED LIMESTONE (TYPE B)
- SHALE (TYPE B)
- WEATHERED SHALE (TYPE B)

SEE GEOTECHNICAL NOTES AND ESTIMATED QUANTITIES SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

SEALED BY



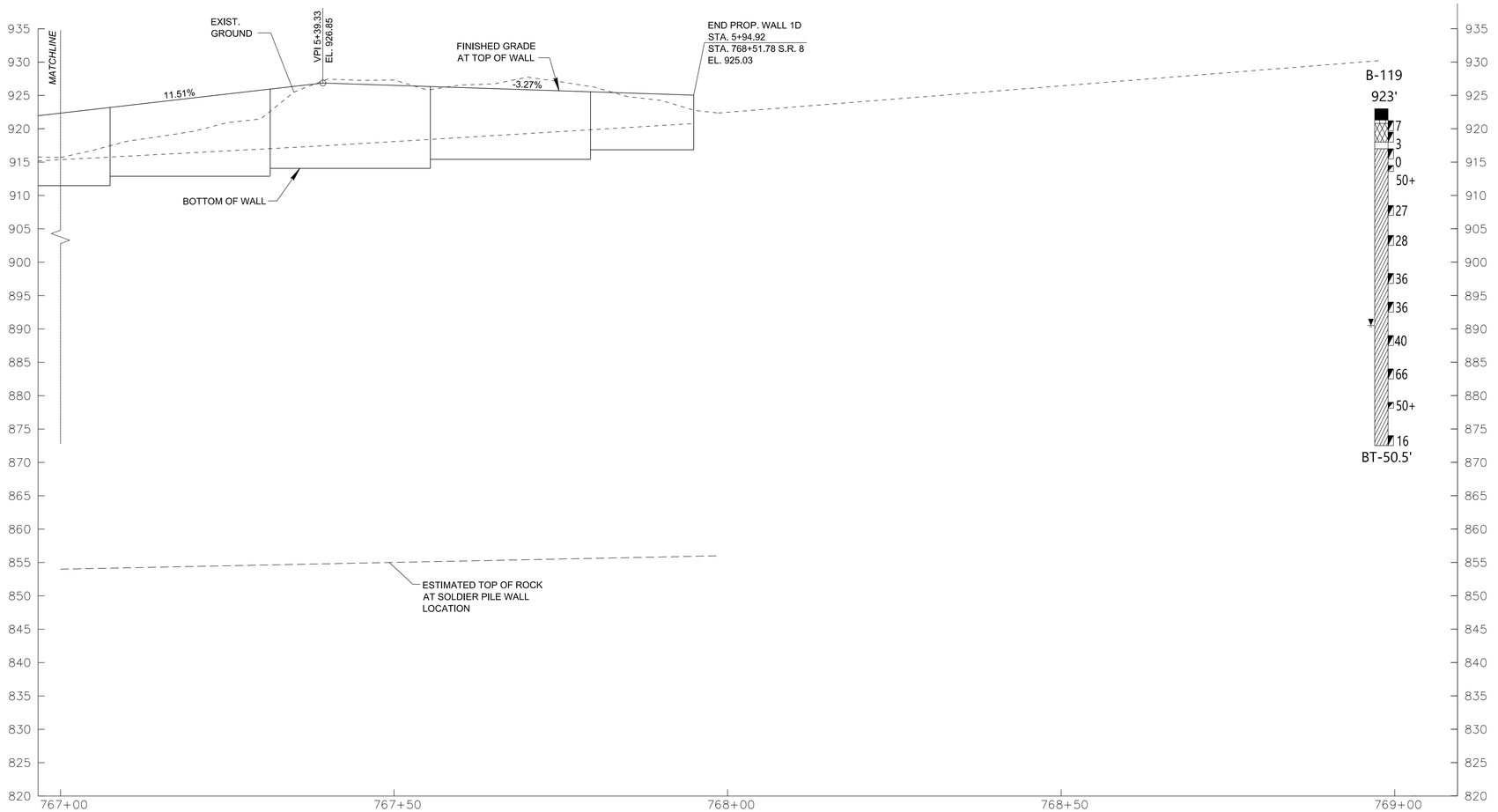
COORDINATES ARE NAD 83(2001), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL 1D PROFILE VIEW
STA. 765+00 - STA. 767+00
SCALE: 1"=10'

6/9/2025 3:49:39 PM
T:\Chattanooga-1810\Projects\2019\1281-19-054B SR 8, 10 walls\4 - Drainage Retaining Walls\CAD Files\UPDATED G-Sheets 03-24-26\R4-4-128119054B_Geotech.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-18



WALL 1D PROFILE VIEW
SCALE: 1"=10'

LEGEND: BORING PROFILE SYMBOLS

BORING I.D. → B-3321
703.71 ← BOREHOLE ELEVATION (FT MSL)
WATER LEVEL AT TIME OF DRILLING →
DELAYED WATER READING →
4 ← SPT N-VALUE
11 ← SPT SYMBOL
LITHOLOGY GRAPHIC →
66/100 ← RQD/REC
TERMINATION → CT-9.8'

BR=AUGER REFUSAL
BT=BORING TERMINATED
CT=CORING TERMINATED

- CONCRETE
- GRAVEL BASE
- TOPSOIL (TYPE A) CULTIVATED SOIL
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- LIMESTONE (TYPE B)
- SHALE (TYPE B)
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- WEATHERED SHALE (TYPE B)

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL 1D PROFILE VIEW STA. 767+00 - STA. 768+50

SCALE: 1"=10'

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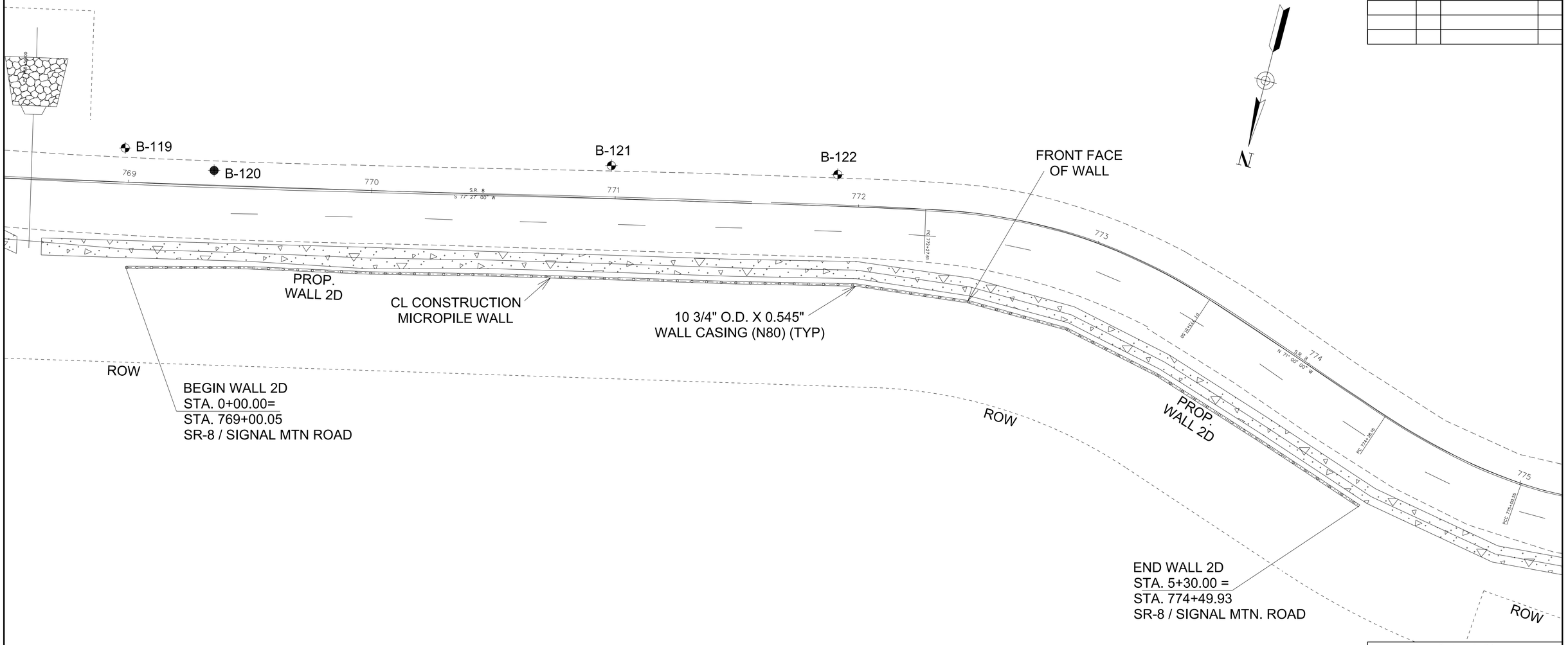
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-19



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOMETRIC LAYOUT RETAINING WALL 2D PLAN VIEW

SCALE: 1"=20'

4/14/2025 11:12:25 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-20

LEGEND: BORING PROFILE SYMBOLS

BORING I.D. → B-3321
703.71 ← BOREHOLE ELEVATION (FT MSL)
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66/100 ← RQD/REC
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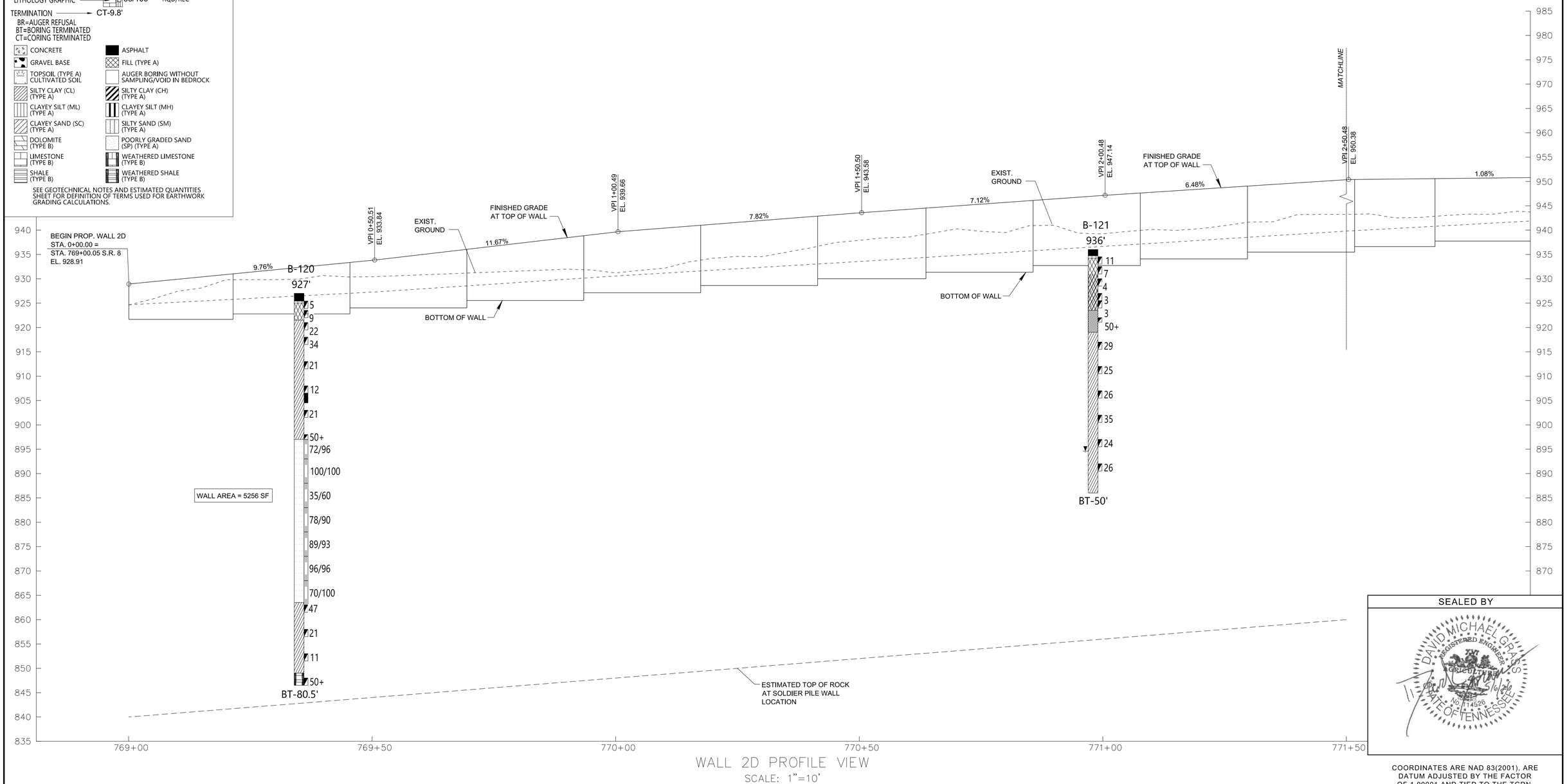
SEE GEOTECHNICAL NOTES AND ESTIMATED QUANTITIES SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.



WALL 2D PROFILE VIEW
SCALE: 1"=10'

SEALED BY

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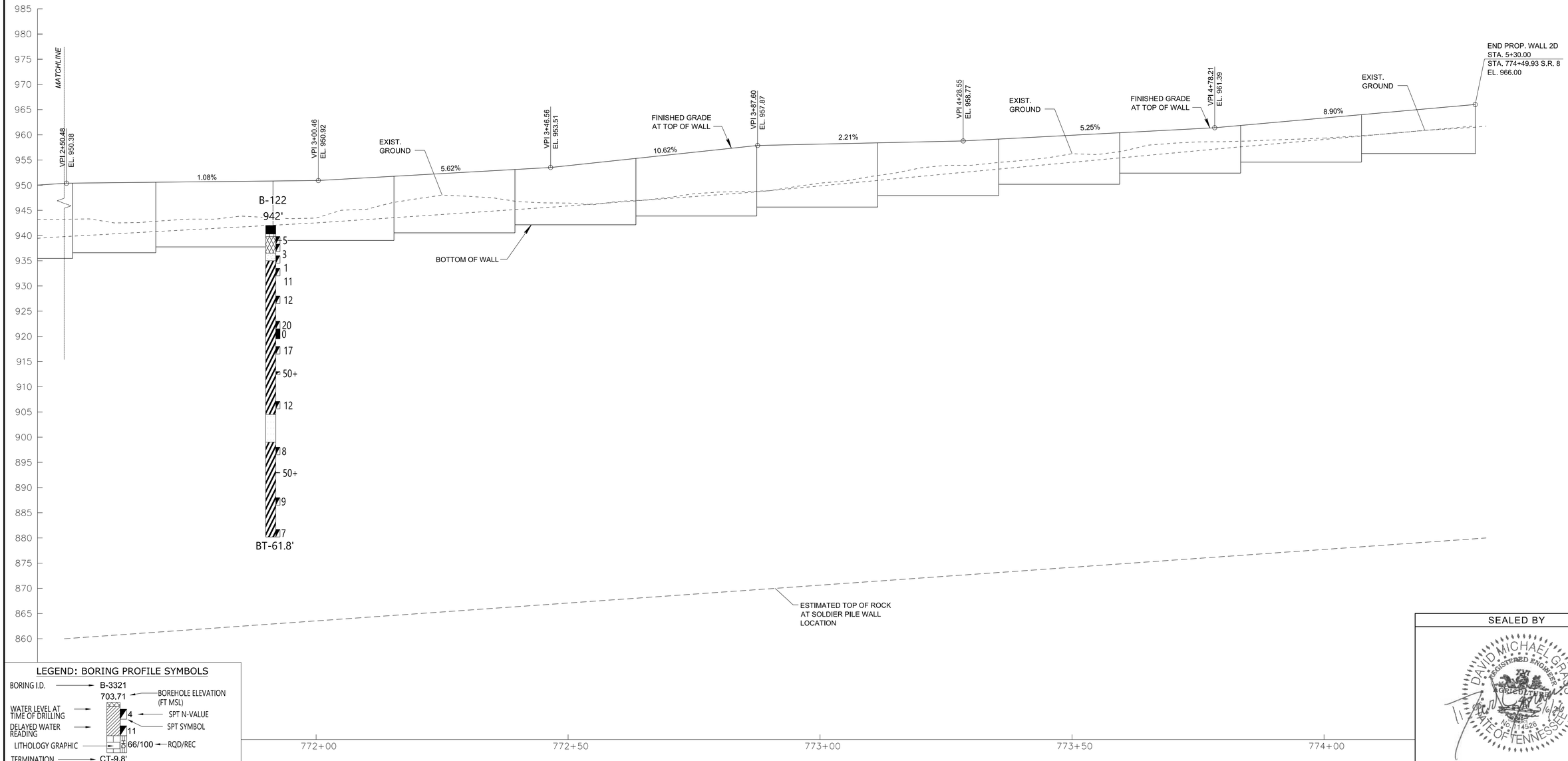
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL 2D PROFILE VIEW
STA. 769+00 - STA. 771+50
SCALE: 1"=10'

6/9/2025 4:18:09 PM
T:\Chattanooga-1810\Projects\2019\1281-19-054B SR 8. 10 walls\4 - Drainage Retaining Walls\CAD Files\UPDATED G-Sheets 03-24-26\R4-7-128119054B_Geotech.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-21



WALL 2D PROFILE VIEW
SCALE: 1"=10'

LEGEND: BORING PROFILE SYMBOLS

BORING I.D. → B-3321
703.71 ← BOREHOLE ELEVATION (FT MSL)
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL 2D PROFILE VIEW STA. 771+50 - STA. 774+50

SCALE: 1"=10'

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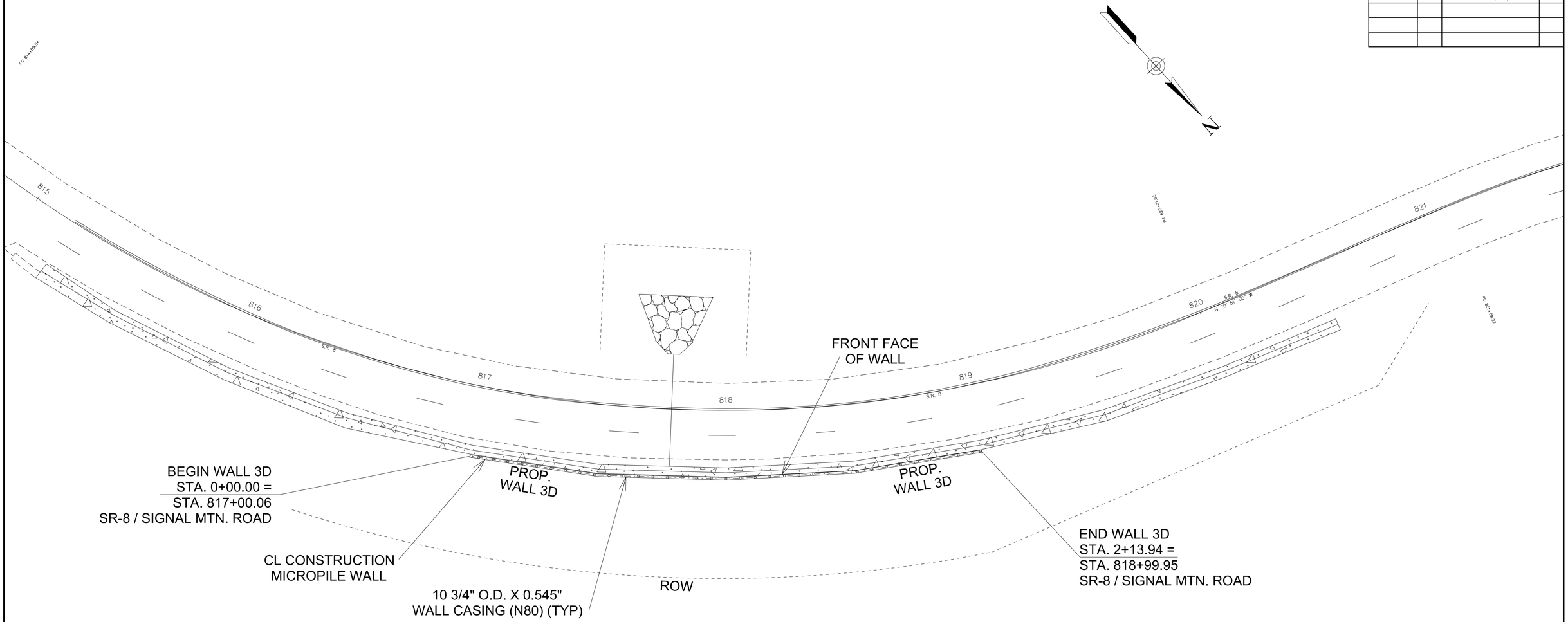
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-22



SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOMETRIC LAYOUT RETAINING WALL 3D PLAN VIEW

SCALE: 1"=20'

4/14/2025 12:29:19 PM
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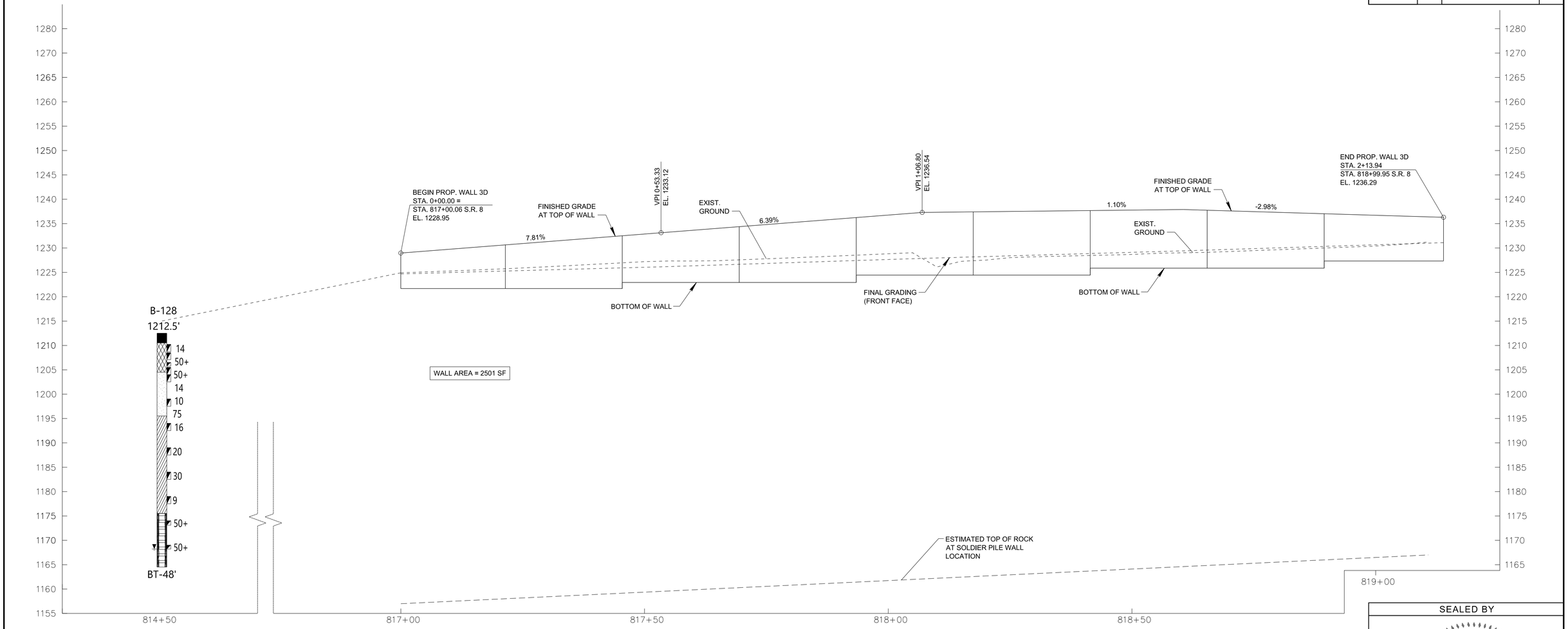
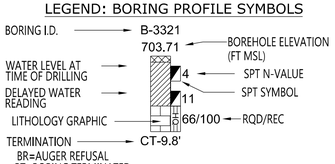
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-23



WALL 3D PROFILE VIEW
SCALE: 1"=10'

LEGEND: BORING PROFILE SYMBOLS



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SEE GEOTECHNICAL NOTES AND ESTIMATED QUANTITIES SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL 3D PROFILE VIEW
STA. 814+50 - STA. 819+00
SCALE: 1"=10'

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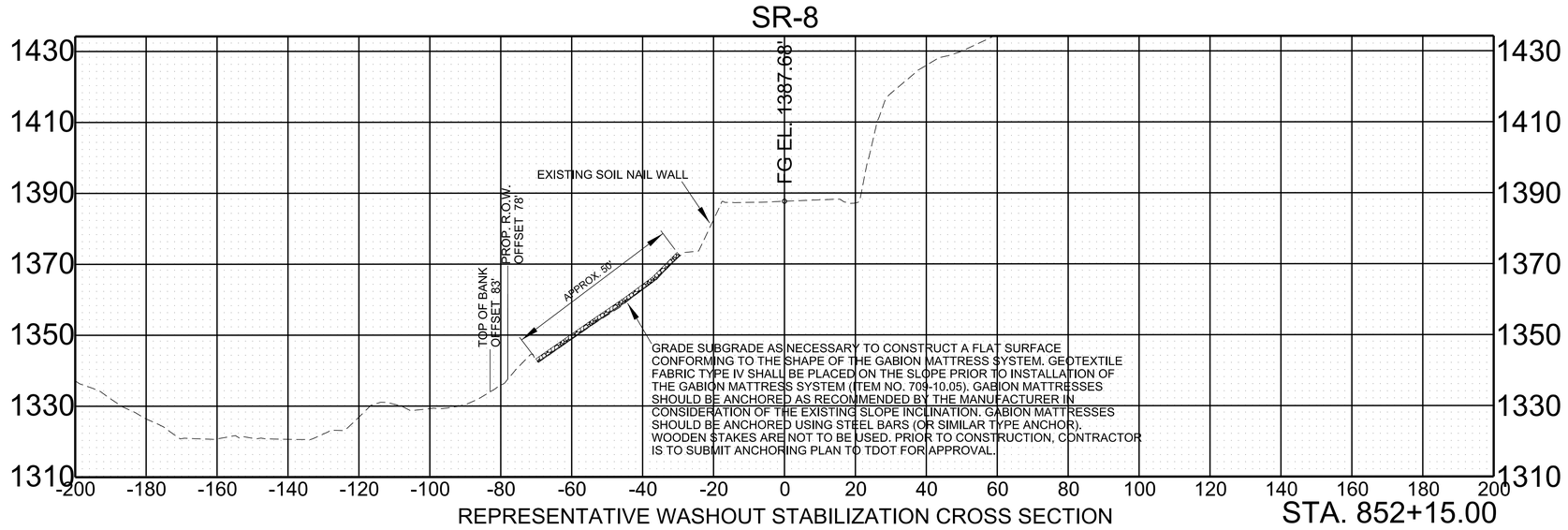
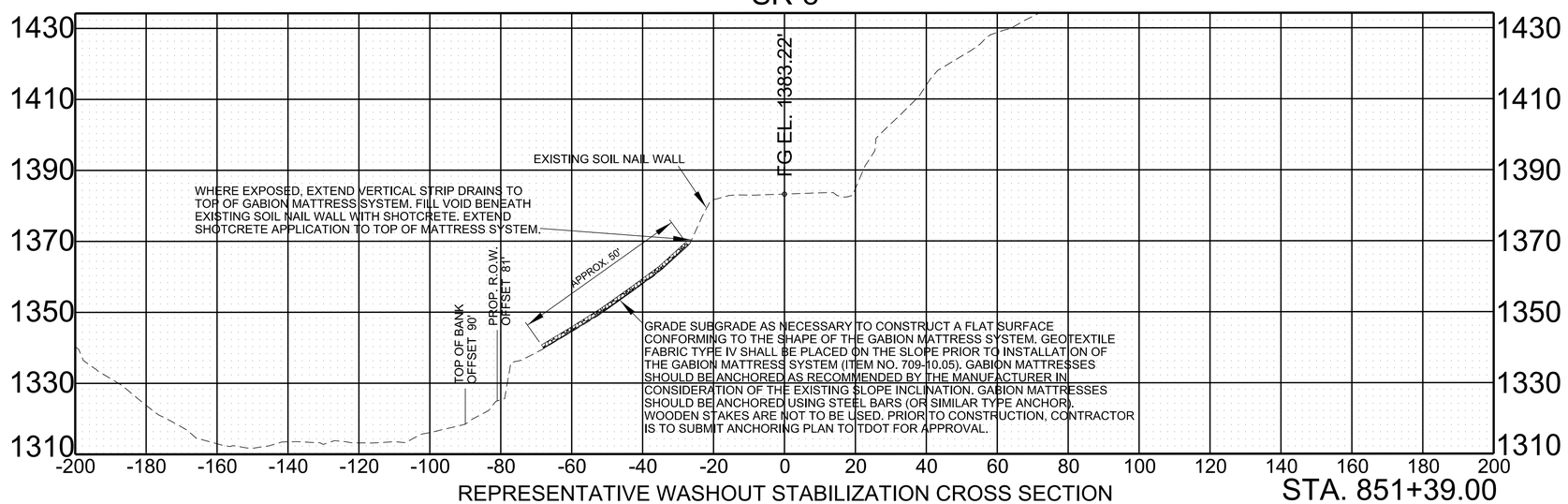
T:\Chattanooga-1810\Projects\2019\1281-19-054B SR 8, 10 walls\4 - Drainage Retaining Walls\CAD Files\UPDATED G-Sheets 03-24-26\G23-128119054B_Geotech.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	G-24



REPRESENTATIVE WASHOUT STABILIZATION CROSS SECTION
FROM STATION 852+00 TO STATION 852+19

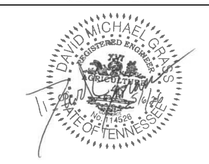
STA. 852+15.00



REPRESENTATIVE WASHOUT STABILIZATION CROSS SECTION
FROM STATION 851+30 TO STATION 851+55

STA. 851+39.00

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
TYPICAL SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

6/25/2026 7:48:11 AM
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THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Daniel T Maxey
Digitally signed by Daniel T Maxey
Date: 2026.07.15 13:40:06 -04'00'

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

ARCADIS U.S., INC.
1200 RIVERPLACE BLVD., SUITE 425
JACKSONVILLE, FL 33207

DANIEL T. MAXEY, P.E., NO. 18793

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

RETAINING WALLS INDEX, GENERAL NOTES & QUANTITIES R-1

RETAINING WALL DETAILS..... R-1A – R-1B, R-2 – R-2A, R3-R3A

RETAINING WALL 1D PLAN AND ELEVATION ..... R-1C – R-1G

RETAINING WALL 1D MICROPILE WALL TABLE ..... R-1H – R1J

RETAINING WALL 2D PLAN AND ELEVATION ..... R-2B – R-2E

RETAINING WALL 2D MICROPILE WALL TABLE ..... R-2F – R-2G

RETAINING WALL 3D PLAN AND ELEVATION ..... R-3B – R-3C

RETAINING WALL 3D MICROPILE WALL TABLE R-3D

NOTE: THE ALPHABETICAL LETTER "I" IS NOT USED IN THE NUMBERING OF THE SHEETS

YEAR	PROJECT NO.	SHEET NO.
2026	STP-8(63)	WALL-SIGN 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

6/30/2026
c:\pw_work\arcadispw01\gina.hoover\d0176594\WALL SIGN-1 1.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	R-1
PS&E	2026	STP-8(52)	R-1

RETAINING WALL INDEX

SHEET NAME	SHEET NO.
SIGNATURE SHEET	WALL-SIGN 1
RETAINING WALLS INDEX, GENERAL NOTES, & QUANTITIES	R-1
RETAINING WALL 1D DETAILS	R-1A
RETAINING WALL 1D DETAILS	R-1B
RETAINING WALL 1D PLAN AND ELEVATION	R-1C
RETAINING WALL 1D PLAN AND ELEVATION	R-1D
RETAINING WALL 1D PLAN AND ELEVATION	R-1E
RETAINING WALL 1D PLAN AND ELEVATION	R-1F
RETAINING WALL 1D PLAN AND ELEVATION	R-1G
RETAINING WALL 1D MICROPILE WALL TABLE	R-1H
RETAINING WALL 1D MICROPILE WALL TABLE	R-1J
RETAINING WALL 2D DETAILS	R-2
RETAINING WALL 2D DETAILS	R-2A
RETAINING WALL 2D PLAN AND ELEVATION	R-2B
RETAINING WALL 2D PLAN AND ELEVATION	R-2C
RETAINING WALL 2D PLAN AND ELEVATION	R-2D
RETAINING WALL 2D PLAN AND ELEVATION	R-2E
RETAINING WALL 2D MICROPILE WALL TABLE	R-2F
RETAINING WALL 2D MICROPILE WALL TABLE	R-2G
RETAINING WALL 3D DETAILS	R-3
RETAINING WALL 3D DETAILS	R-3A
RETAINING WALL 3D PLAN AND ELEVATION	R-3B
RETAINING WALL 3D PLAN AND ELEVATION	R-3C
RETAINING WALL 3D MICROPILE WALL TABLE	R-3D
RETAINING WALL 4D GEOTECHNICAL DESIGN NOTES & REQUIREMENTS	R-4
GEOMETRIC LAYOUT RETAINING WALL 4D PLAN VIEW	R-4A
RETAINING WALL 4D PROFILE VIEW	R-4B

NOTE: THE ALPHABETICAL LETTER "I" IS NOT USED
IN THE NUMBERING OF SHEETS.

GENERAL NOTES

SPECIFICATIONS

STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION (APRIL 1, 2026).

DESIGN SPECIFICATIONS

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 10TH EDITION 2024.

CAST-IN-PLACE CONCRETE FACING

CLASS "X" CONCRETE, f c = 4,000 PSI, COMPOSITION SHALL MEET CLASS "D" CONCRETE AS SHOWN IN TABLE 604.03-1 OF THE STANDARD SPECIFICATIONS.

REINFORCING STEEL

SHALL BE ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. SEE SECTION 604 AND 907 OF THE STANDARD SPECIFICATIONS.

STRUCTURAL STEEL

ALL STRUCTURAL STEEL PLATES, ANGLES AND CHANNELS SHALL CONFORM TO AASHTO M270 (ASTM A709) GRADE 50.

MICROPILES

MICROPILES SHALL BE N80 STEEL FILLED WITH 4000 PSI GROUT. MICROPILES SHALL BE TYPE B.

BACKFILL

ALL BACKFILL BEHIND THE WALLS SHALL BE NO. 57 STONE. THE COST OF THE STONE IS INCLUDED IN ITEMS 604-07.01, 604-07.02, AND 604-07.03.

WELDING

WELDING SHALL CONFORM TO ANSI/AASHTO/AWS D1.5: 2020 BRIDGE WELDING CODE AND SECTION 602 OF THE TDOT STANDARD SPECIFICATIONS WITH E70-XX ELECTRODE. WELDS NOT COVERED BY THE BRIDGE WELDING CODE SHALL CONFORM TO ANSI/AASHTO/AWS D1.1: 2020 STRUCTURAL WELDING CODE - STEEL.

WORKER SAFETY

ALL WORKERS SHALL UTILIZE FALL PROTECTION WHEN WORKING AT AN ELEVATED LEVEL IN WHICH THE POTENTIAL EXISTS FOR FREE FALL OF MORE THAN 6 FEET.

FINISHING CONCRETE SURFACES

THE CAST-IN-PLACE CONCRETE FACING SHALL BE FINISHED IN ACCORDANCE WITH SECTION 604.21 OF THE TENNESSEE STANDARD SPECIFICATIONS. ALL EXPOSED SURFACES OF THE RETAINING WALL SHALL HAVE AN ASHLAR STONE FINISH AND THE COLOR SHALL BE LIGHT GULL GRAY, COLOR NO. 36440, AMS-STD-59A. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR ITEM NO. 604-03.31.

PAINTING OF STRUCTURAL STEEL

THE MICROPILE CASING AND LAGGING SUPPORT ANGLES SHALL BE PAINTED IN ACCORDANCE WITH SECTION 603 OF THE STANDARD SPECIFICATIONS.

ADDITIONALLY, MICROPILE CASINGS THAT EXTEND ABOVE THE GROUND SHALL BE PAINTED AS SPECIFIED IN SUBSECTION 606.19 OF THE STANDARD SPECIFICATIONS. THE TOP COAT COLOR SHALL BE LIGHT GULL GRAY, COLOR NO. 36440, AMS-STD-595A. INSTEAD OF FIELD PAINTING, MICROPILES MAY BE SHOP PAINTED PROVIDED THE CONTRACTOR REPAIRS, TO THE SATISFACTION OF THE ENGINEER, ANY AREAS DAMAGED DUE TO HANDLING OR INSTALLATION.

PAINTING STRUCTURAL STEEL SHALL BE INCIDENTAL WITH ITEM 602-02.01 AND 606-28.14.

VALUE ENGINEERING

VALUE ENGINEERING CHANGE PROPOSALS WILL NOT BE ACCEPTED FOR WALLS 1D, 2D, AND 3D.

ESTIMATED QUANTITIES

FOOTNOTES	ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	WALL 1D	WALL 2D	WALL 3D	WALL 4D
(1)	604-03.74	CLASS X CONCRETE (RETAINING WALL)	C.Y.	488	222	192	74	
(2)	604-07.01	RETAINING WALL (WALL 1D)	S.F.	7162	7162			
(2)	604-07.02	RETAINING WALL (WALL 2D)	S.F.	6218		6218		
(2)	604-07.03	RETAINING WALL (WALL 3D)	S.F.	2371			2371	
(3)	604-07.04	RETAINING WALL (WALL 4D)	S.F.	712				712
	604-07.28	RETAINING WALL EXCAVATION	C.Y.	825	385	300	140	
(4)	606-28.14	MICROPILE (10 3/4" x 0.545" MICROPILE)	L.F.	7675	3376	3037	1262	
(5) (8)	621-05.02	TEMPORARY SHORING	LS	1	1	1	1	
(6)	624-03.01	RETAINING WALL REINFORCING STEEL	LB.	76423	34766	30068	11589	
(7)	703-01	PORTLAND CEMENT CONCRETE DITCH PAVING	C.Y.	92	41	36	15	

FOOTNOTES

(1) ITEM INCLUDES ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR INSTALLATION OF THE CAST-IN-PLACE CONCRETE FACING. ALL COSTS (FORM LINERS, CONCRETE STAINING, ETC.) ASSOCIATED WITH THE FORMLINED/STAINED FINISH ARE ALSO INCLUDED WITH THIS ITEM. REINFORCING STEEL IS TO BE PAID FOR SEPARATELY UNDER ITEM 624-03.01.

(2) ITEM INCLUDES ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR INSTALLATION OF MISCELLANEOUS WALL ITEMS INCLUDING GEOCOMPOSITE SHEET DRAINS, NON-PERFORATED PVC PIPE, PREFORMED EXPANSION JOINT FILLER, WATERSTOPS AND GRANULAR BACKFILL MATERIAL (TYPE 57).

(3) THE PRICE BID SHALL BE FOR A COMPLETE AND IN-PLACE INSTALLATION OF RETAINING WALL 4D. RETAINING WALL 4D SHALL BE DESIGNED IN ACCORDANCE WITH THE STANDARDS SET FORTH IN TDOT SP 624 (MOST CURRENT VERSION).

(4) ITEM INCLUDES ALL LABOR, EQUIPMENT AND MATERIALS INCLUDING MICROPILE CASING, BEARING PLATES, WELDED STUD CONNECTORS, LAGGING SUPPORT ANGLES, #10 REINFORCING BARS, SPACERS, GROUT NECESSARY FOR INSTALLATION OF MICROPILES.

(5) ITEM INCLUDES ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY FOR INSTALLATION OF ANY TEMPORARY SHORING NEEDED FOR THE SLOPE CUT TO CONSTRUCT WALL 1D, 2D, AND 3D.

(6) ITEM INCLUDES ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR INSTALLATION OF THE REINFORCING STEEL FOR THE CAST-IN-PLACE CONCRETE FACING.

(7) ITEM INCLUDES ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY FOR INSTALLATION OF CONCRETE DITCH AT TOP OF WALL.

(8) THE COST OF LAGGING AND SPACER PLATE ASSEMBLIES (AS SHOWN IN THE PLANS) FOR THE RETAINING WALLS IS CONSIDERED INCIDENTAL, WILL NOT BE PAID FOR DIRECTLY, AND SHOULD BE INCLUDED IN THE COST OF OTHER ITEMS.

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RETAINING WALLS INDEX, GENERAL NOTES & QUANTITIES

6/30/2026
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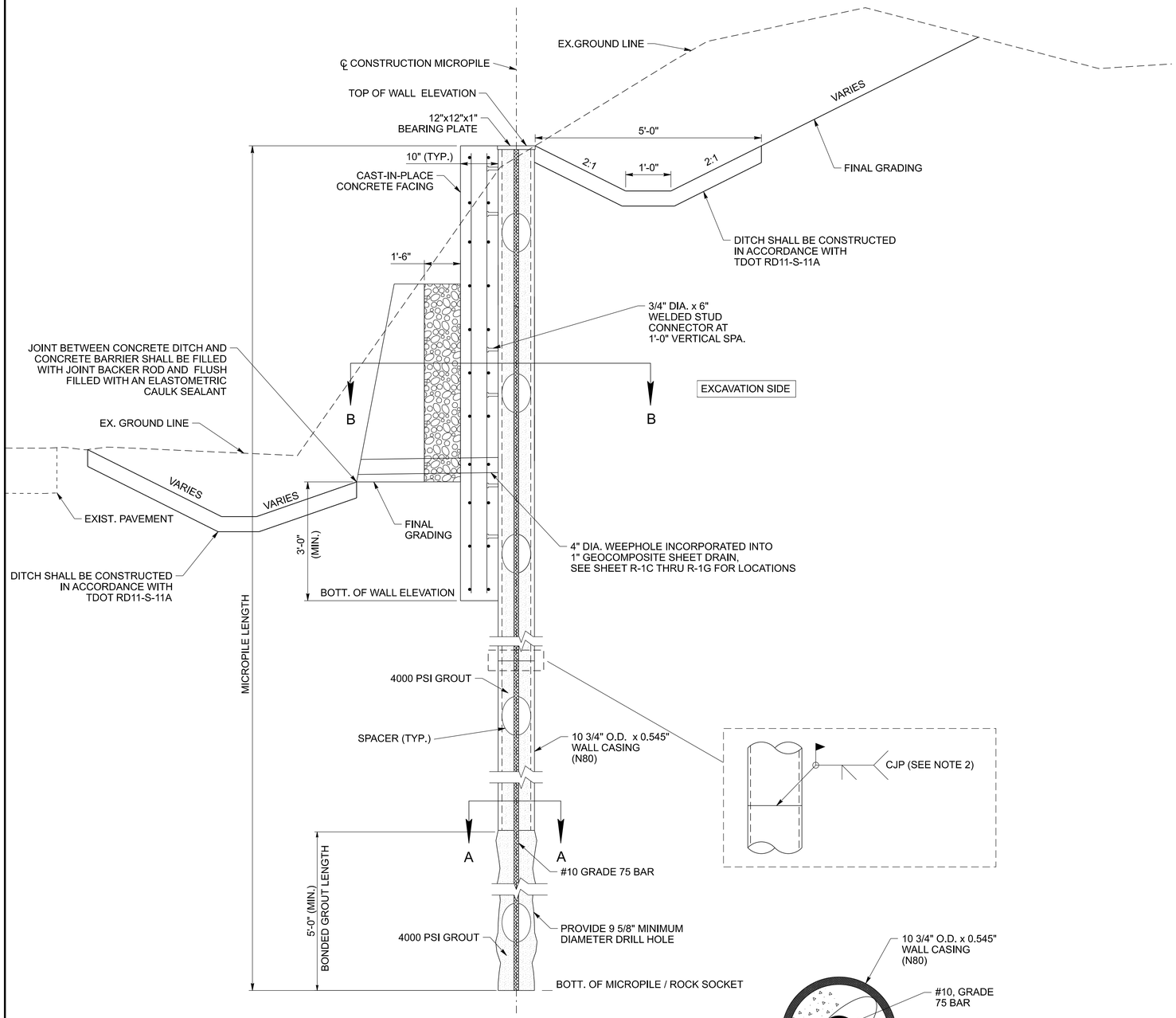
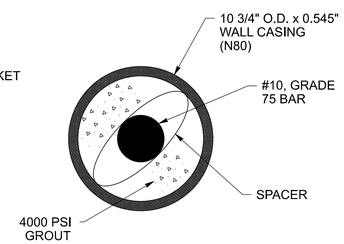
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	R-1A



TYPICAL WALL SECTION

(TIMBER LAGGING AND ANGLES NOT SHOWN FOR CLARITY)
(BARRIER DETAILS NOT SHOWN FOR CLARITY. SEE S-SSMB-3)
SCALE: 3/4" = 1'-0"



SECTION A-A

NTS

NOTES

1. FOR SECTION B-B, SEE SHEET R-1B.
2. IT IS PREFERRED THAT THE MICROPILE CASING BE SUPPLIED / INSTALLED IN ONE CONTINUOUS PIECE, HOWEVER SPLICES WILL BE PERMITTED. THE CASING SECTIONS SHALL BE JOINED TOGETHER AS SHOWN (CJP WELD) OR BY USE OF A MECHANICAL SPLICE (THREADED SPLICE).
3. FOR LOCATION OF 6" DIAMETER PERFORATED PIPE, SEE SHEET R-1C THRU R-1G, RETAINING WALL 1D PLAN AND ELEVATION.

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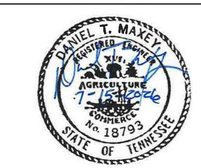

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL 1D DETAILS

6/30/2026
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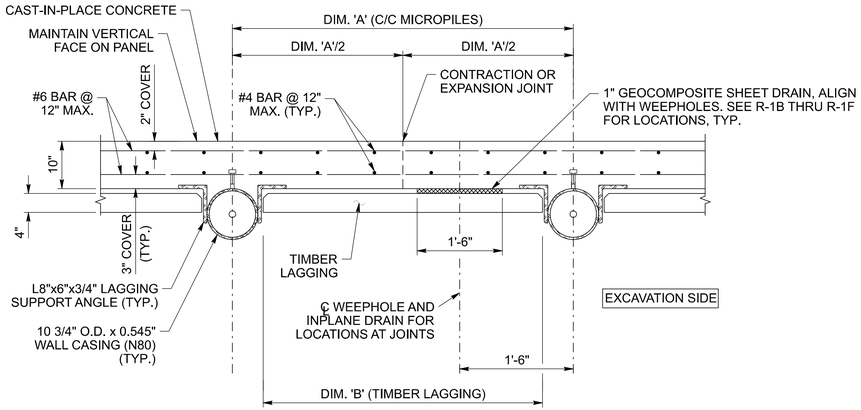
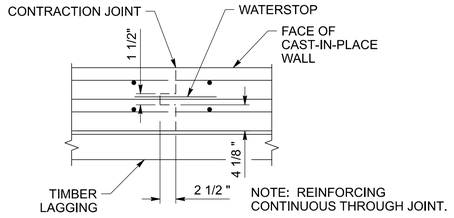
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	R-1B

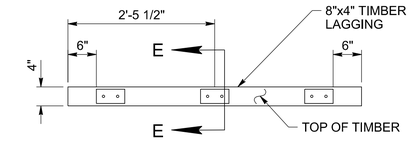


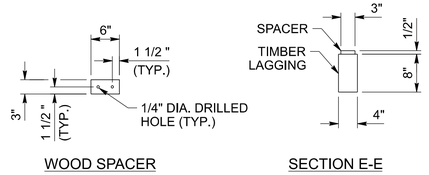
SECTION B-B
TYPICAL PLAN - MICROPILE WALL
SCALE: 3/4" = 1'-0"

RETAINING WALL 1D DIMENSION TABLE		
WALL SECTION AT PILE NO.	**DIM. 'A'**	**DIM. 'B'**
1-18	6'-0"	4'-11"
18-30	5'-6"	4'-5"
30-101	6'-0"	4'-11"



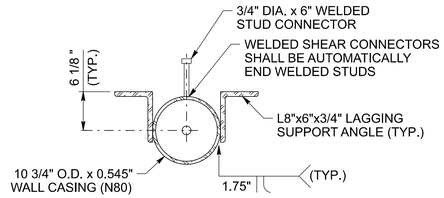
CONTRACTION JOINT DETAIL
SCALE: 3/4" = 1'-0"



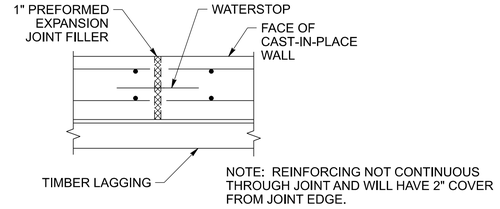


WOOD SPACER SECTION E-E

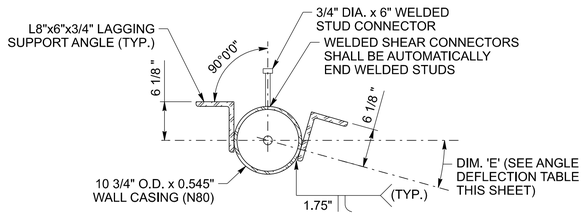
TIMBER AND SPACER PLATE ASSEMBLY
SCALE: 3/4" = 1'-0"



STUD AND TIMBER
ANGLE DETAIL
SCALE: 1" = 1'-0"



EXPANSION JOINT DETAIL
SCALE: 3/4" = 1'-0"



STUD AND TIMBER
ANGLE DETAIL
SCALE: 1" = 1'-0"

ANGLE DEFLECTION TABLE	
PILE NO.	**DIM 'E'**
10	00°42'22"
24	16°17'58"
55	01°47'57"
92	01°12'01"

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NOTES

1. ATTACH WOOD SPACER TO TIMBER LAGGING USING 1.5" LONG (MIN.) GALVANIZED ROOFING NAILS.
2. FOR WALL PLAN AND ELEVATION, SEE SHEET R-1C THRU R-1G.
3. BACKSLOPE AS SHOWN ON ROADWAY CROSS SECTIONS.
4. LAGGING TO BE STRUCTURAL STRESS GRADED LUMBER.
5. REINFORCING LAP LENGTHS ARE AS FOLLOWS:
   #4 BAR = 2'-5"
   #6 BAR = 3'-7"

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DEPARTMENT OF TRANSPORTATION

RETAINING WALL 1D DETAILS

6/30/2026
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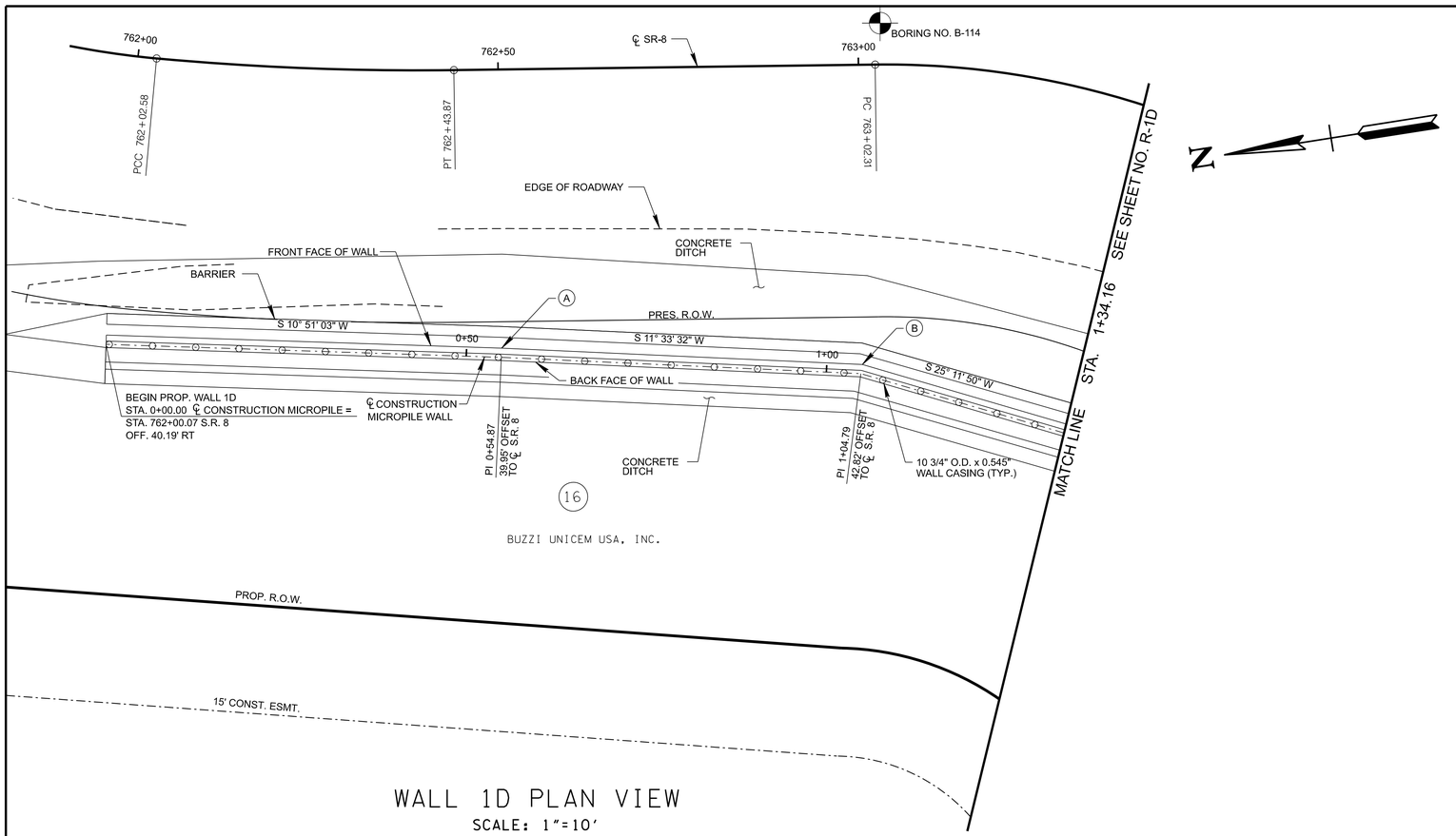
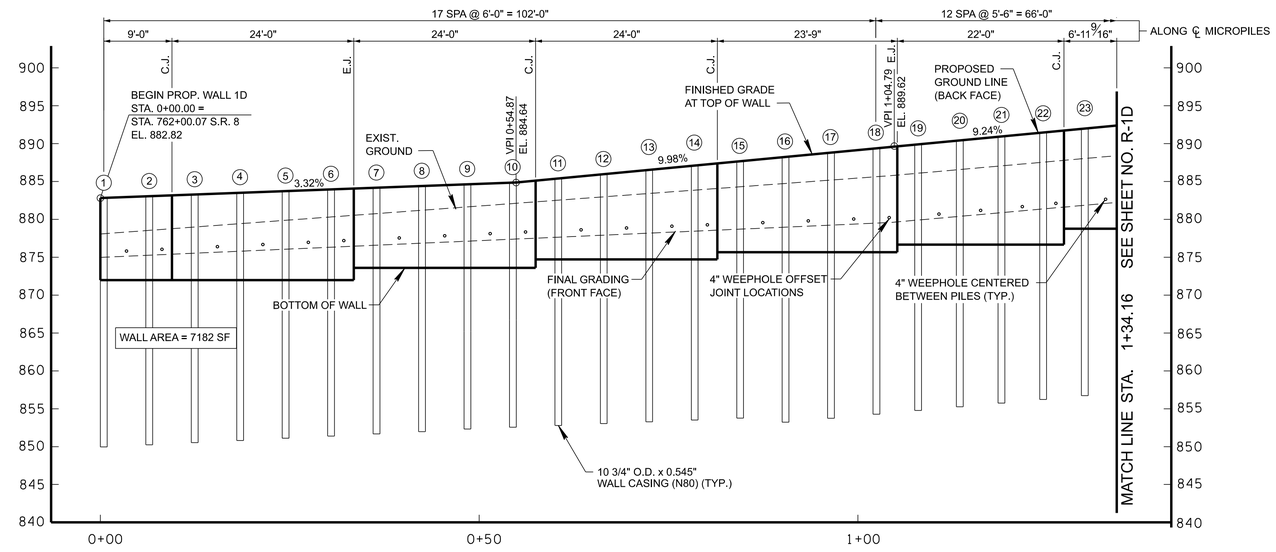


WALL 1D PLAN VIEW

SCALE: 1"=10'

	STATION AT F.F. WALL	OFFSET TO F.F. WALL	DISTANCE TO RIGHT-OF-WAY
BEGIN WALL	762+00.00	38.91' RT.	35.46'
Ⓐ	762+50.00	38.67' RT.	38.08'
Ⓑ	763+00.00	41.59' RT.	39.46'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	R-1C
PS&E	2026	STP-8(52)	R-1C



WALL 1D ELEVATION VIEW

SCALE: 1"=10'

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DANIEL T. MAXEY
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COMMERCE
No. 18793
STATE OF TENNESSEE

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RETAINING WALL 1D PLAN AND ELEVATION

6/30/2026
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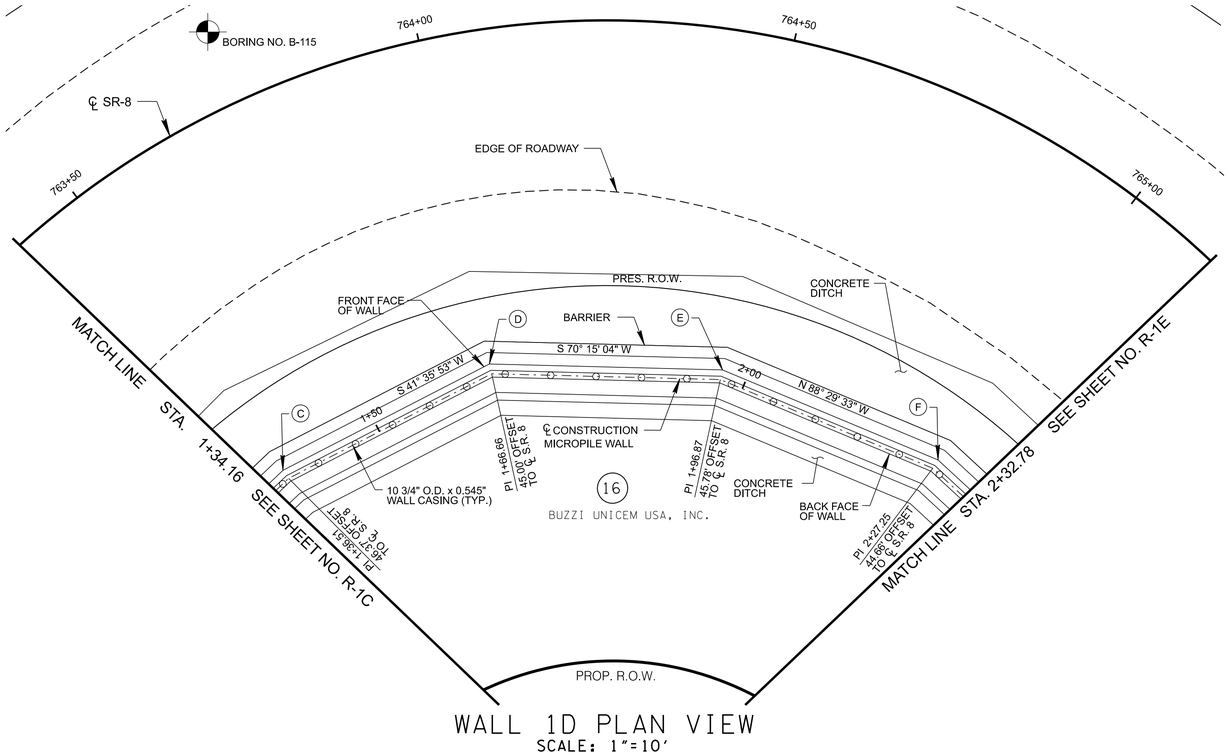
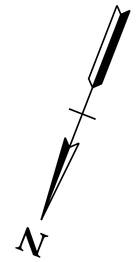
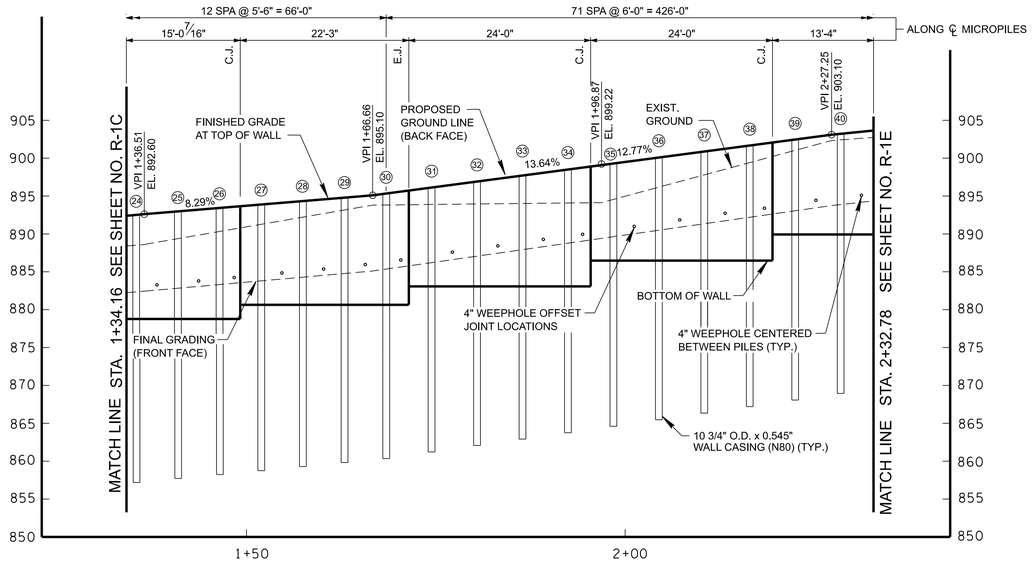


WALL 1D PLAN VIEW
SCALE: 1"=10'



	STATION AT F.F. WALL	OFFSET TO F.F. WALL	DISTANCE TO RIGHT-OF-WAY
Ⓒ	763+50.00	45.08' RT.	38.36'
Ⓓ	764+00.00	43.68' RT.	40.85'
Ⓔ	764+50.00	44.48' RT.	39.72'
Ⓕ	765+00.00	43.36' RT.	39.14'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	R-1D
PS&E	2026	STP-8(52)	R-1D



WALL 1D ELEVATION VIEW
SCALE: 1"=10'

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RETAINING WALL 1D PLAN AND ELEVATION

6/30/2026
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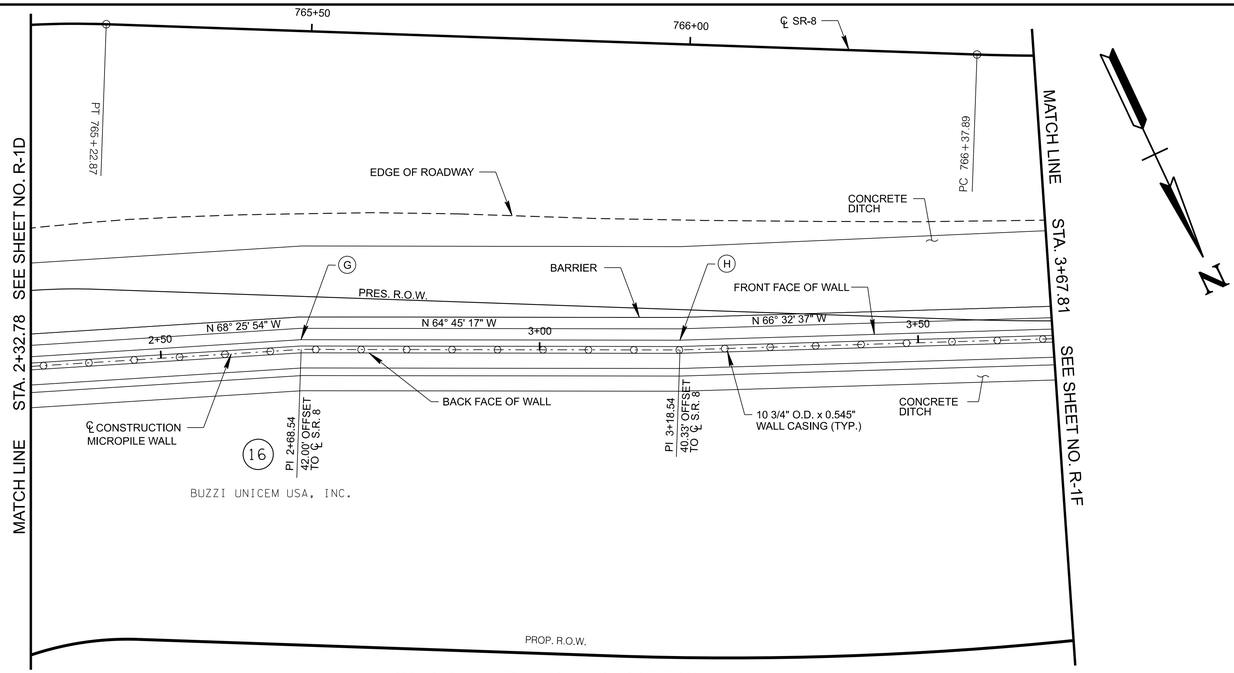
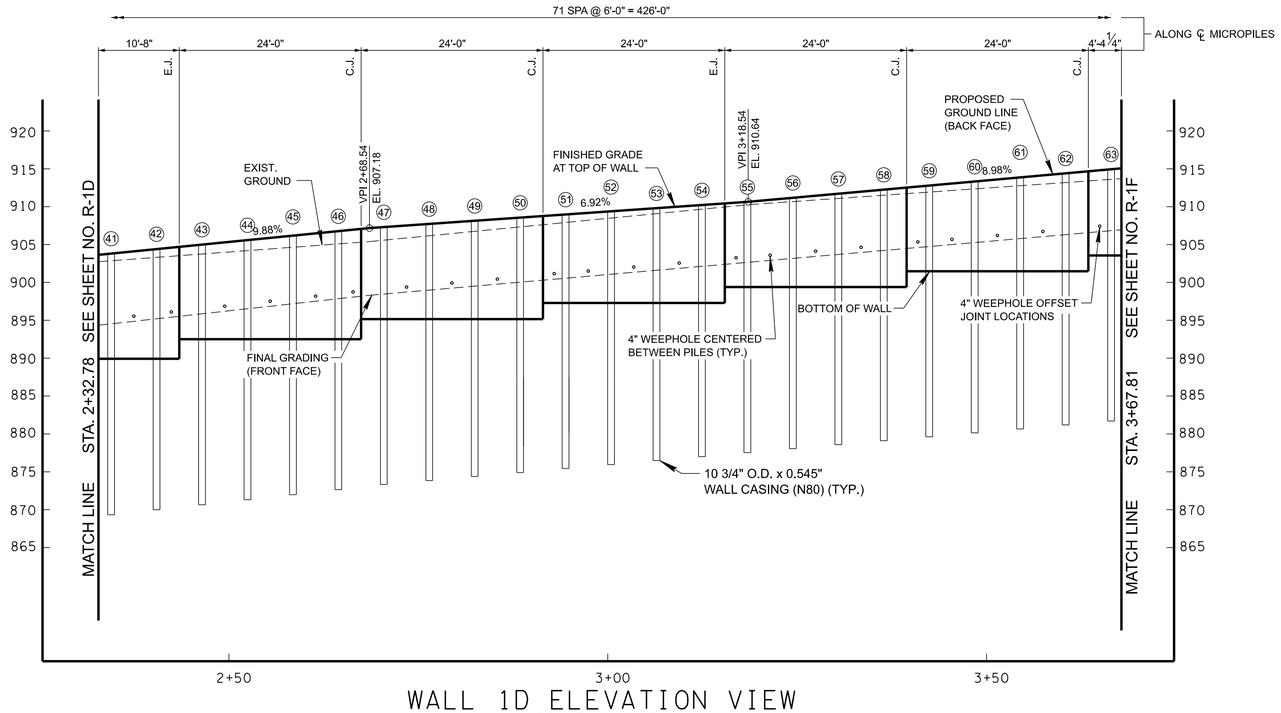


WALL 1D PLAN VIEW

SCALE: 1"=10'

	STATION AT F.F. WALL	OFFSET TO F.F. WALL	DISTANCE TO RIGHT-OF-WAY
G	765+50.00	40.72' RT.	40.28'
H	766+00.00	39.05' RT.	41.88'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	R-1E
PS&E	2026	STP-8(52)	R-1E



WALL 1D ELEVATION VIEW

SCALE: 1"=10'

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RETAINING WALL 1D PLAN AND ELEVATION

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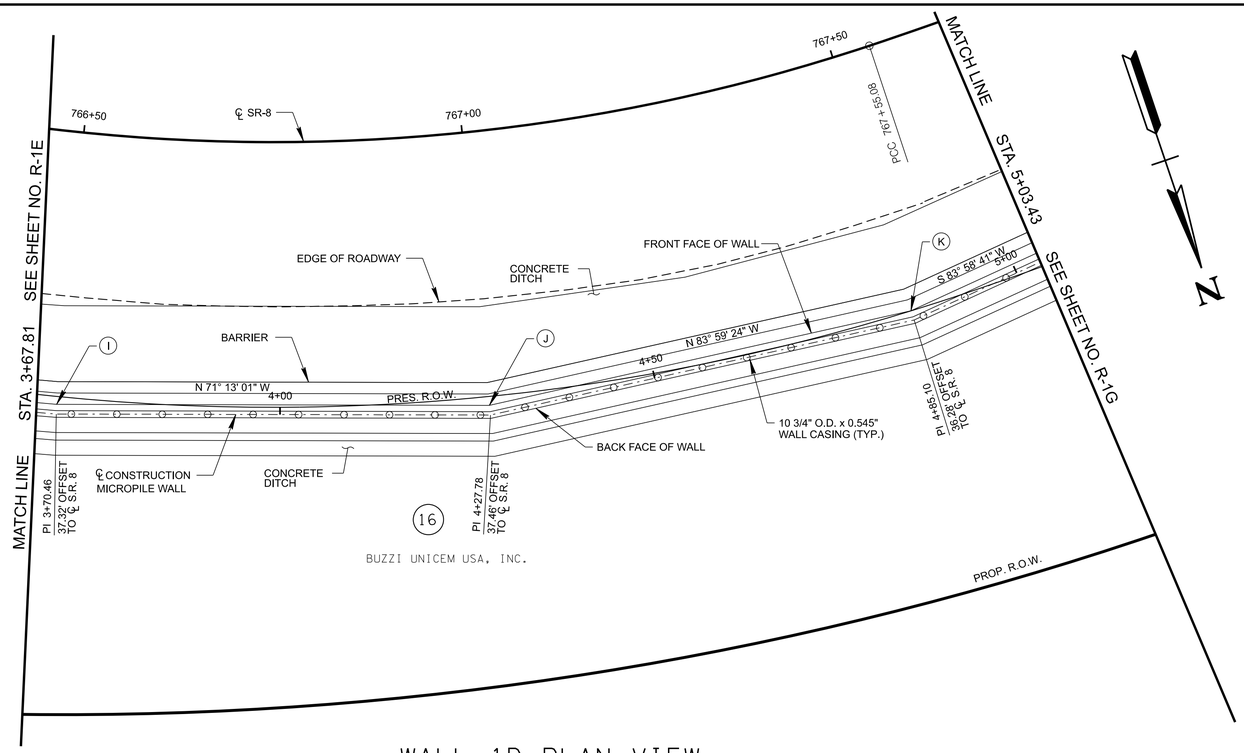
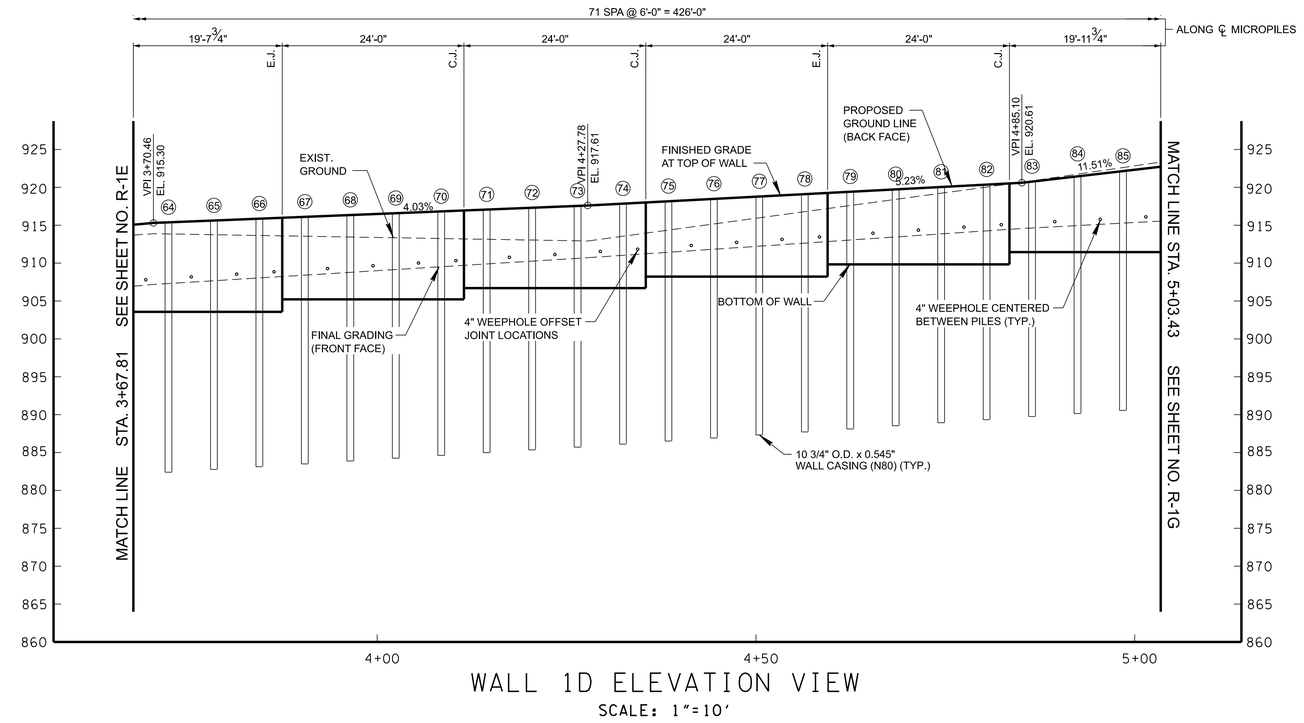


WALL 1D PLAN VIEW

SCALE: 1"=10'

	STATION AT F.F. WALL	OFFSET TO F.F. WALL	DISTANCE TO RIGHT-OF-WAY
I	766+50.00	36.04' RT.	40.96'
J	767+00.00	36.17' RT.	36.98'
K	767+50.00	34.99' RT.	37.78'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	R-1F
PS&E	2026	STP-8(52)	R-1F



WALL 1D ELEVATION VIEW

SCALE: 1"=10'

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No. 18793
STATE OF TENNESSEE

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DEPARTMENT OF TRANSPORTATION

RETAINING WALL 1D PLAN AND ELEVATION

6/30/2026
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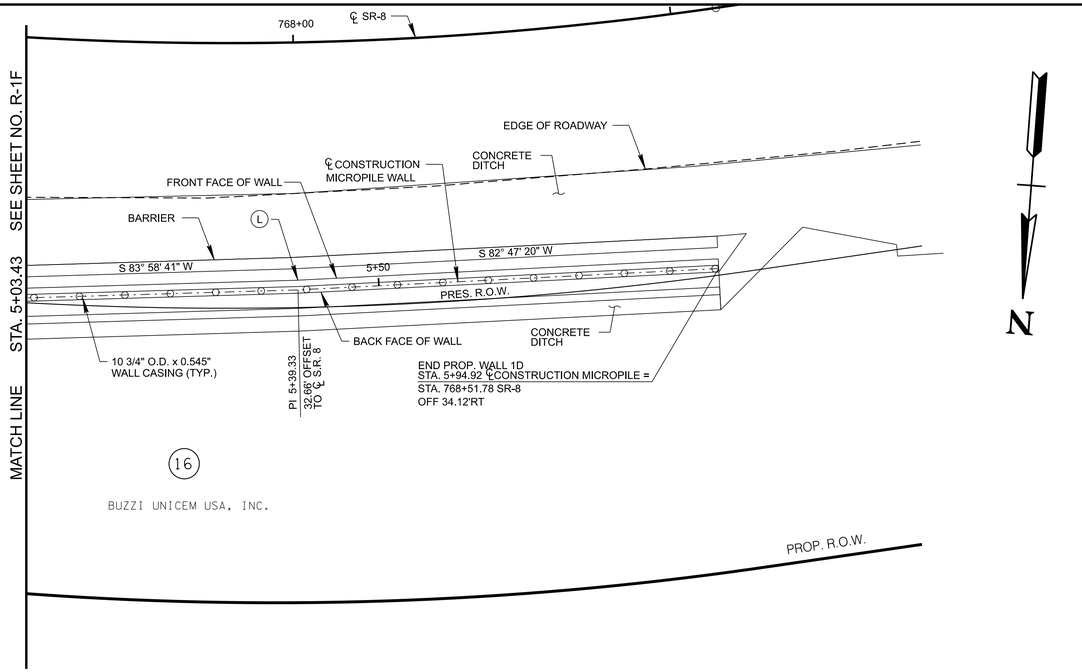
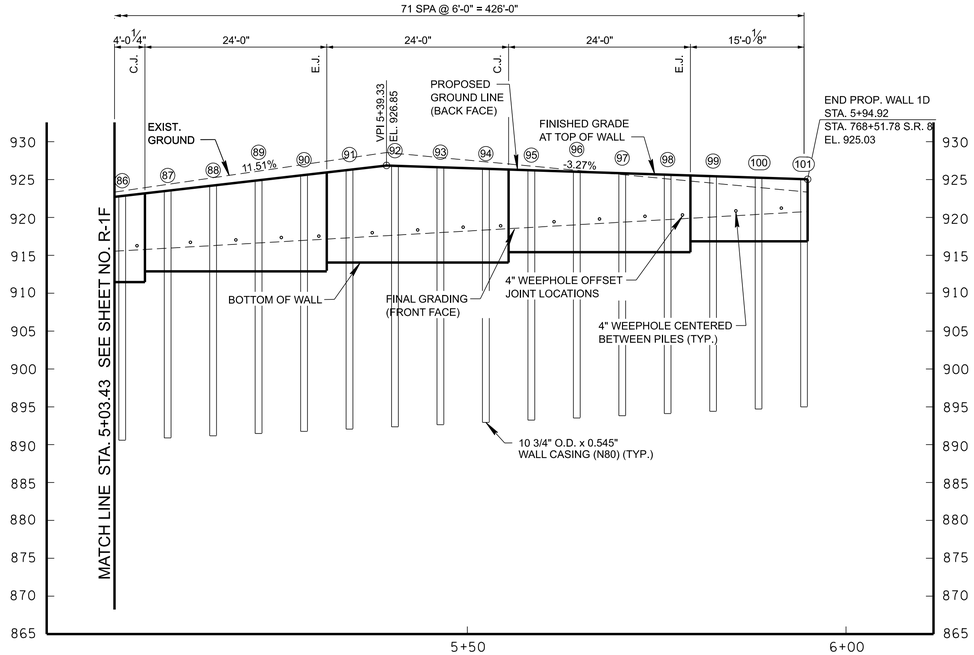


WALL 1D PLAN VIEW
SCALE: 1"=10'

	STATION AT F.F. WALL	OFFSET TO F.F. WALL	DISTANCE TO RIGHT-OF-WAY
(L)	768+00.00	31.38' RT.	42.57'
END WALL	768+51.78	32.84' RT.	41.16'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	R-1G
PS&E	2026	STP-8(52)	R-1G



WALL 1D ELEVATION VIEW
SCALE: 1"=10'

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RETAINING WALL 1D PLAN AND ELEVATION

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	R-1H

RETAINING WALL 1D MICROPILE WALL DATA TABLE

PILE NO.	STATION	TOP OF MICROPILE ELEVATION	TOP OF WALL ELEVATION	FINAL GRADING ELEVATION (FRONT FACE)	BOTTOM OF MICROPILE ELEVATION	ESTIMATED MICROPILE LENGTH (FEET)	BOTTOM OF WALL ELEVATION
1	0+00	882.83	882.92	875.00	850.00	33.00	871.98
2	0+06	883.02	883.10	875.27	850.27	33.00	871.98
3	0+12	883.22	883.30	875.55	850.55	33.00	871.98
4	0+18	883.42	883.50	875.84	850.84	33.00	871.98
5	0+24	883.62	883.70	876.13	851.13	33.00	871.98
6	0+30	883.82	883.90	876.41	851.41	33.00	871.98
7	0+36	884.01	884.10	876.70	851.70	33.00	873.59
8	0+42	884.21	884.30	876.99	851.99	33.00	873.59
9	0+48	884.41	884.50	877.27	852.27	33.00	873.59
10	0+54	884.61	884.69	877.56	852.56	33.00	873.59
11	0+60	885.15	885.24	877.80	852.80	33.00	874.72
12	0+66	885.75	885.83	878.04	853.04	33.00	874.72
13	0+72	886.35	886.43	878.28	853.28	34.00	874.72
14	0+78	886.95	887.03	878.52	853.52	34.00	874.72
15	0+84	887.55	887.63	878.76	853.76	34.00	875.67
16	0+90	888.14	888.23	878.99	853.99	35.00	875.67
17	0+96	888.74	888.83	879.23	854.23	35.00	875.67
18	1+02	889.34	889.43	879.47	854.47	35.00	875.67
19	1+08	889.87	889.96	879.82	854.82	36.00	876.67
20	1+13	890.39	890.47	880.32	855.32	36.00	876.67
21	1+19	890.91	890.99	880.82	855.82	36.00	876.67
22	1+24	891.42	891.51	881.31	856.31	36.00	876.67
23	1+30	891.94	892.02	881.81	856.81	36.00	878.77
24	1+35	892.46	892.54	882.30	857.30	36.00	878.77
25	1+41	892.93	893.01	882.79	857.79	36.00	878.77
26	1+46	893.39	893.47	883.28	858.28	36.00	878.77
27	1+52	893.84	893.93	883.76	858.76	36.00	880.64
28	1+57	894.30	894.38	884.25	859.25	36.00	880.64
29	1+63	894.76	894.84	884.73	859.73	36.00	880.64
30	1+68	895.28	895.37	885.29	860.29	35.00	880.64
31	1+74	896.10	896.18	886.14	861.14	35.00	883.08
32	1+80	896.92	897.00	886.98	861.98	35.00	883.08
33	1+86	897.74	897.82	887.83	862.83	35.00	883.08
34	1+92	898.56	898.64	888.67	863.67	35.00	883.08
35	1+98	899.36	899.45	889.52	864.52	35.00	886.47
36	2+04	900.13	900.21	890.39	865.39	35.00	886.47
37	2+10	900.90	900.98	891.25	866.25	35.00	886.47
38	2+16	901.66	901.75	892.12	867.12	35.00	886.47
39	2+22	902.43	902.51	892.98	867.98	35.00	889.93
40	2+28	903.17	903.26	893.82	868.82	35.00	889.93
41	2+34	903.77	903.85	894.49	869.49	35.00	889.93
42	2+40	904.36	904.44	895.15	870.15	35.00	889.93
43	2+46	904.95	905.04	895.81	870.81	35.00	892.51
44	2+52	905.55	905.63	896.47	871.47	35.00	892.51
45	2+58	906.14	906.22	897.14	872.14	35.00	892.51
46	2+64	906.73	906.81	897.80	872.80	34.00	892.51
47	2+70	907.28	907.36	898.43	873.43	34.00	895.16
48	2+76	907.70	907.78	898.95	873.95	34.00	895.16
49	2+82	908.11	908.19	899.48	874.48	34.00	895.16
50	2+88	908.53	908.61	900.00	875.00	34.00	895.16
51	2+94	908.94	909.03	900.53	875.53	34.00	897.30
52	3+00	909.36	909.44	901.06	876.06	34.00	897.30
53	3+06	909.77	909.86	901.58	876.58	34.00	897.30

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RETAINING WALL 1D MICROPILE WALL TABLE

6/30/2026
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	R-1J

RETAINING WALL 1D MICROPILE WALL DATA TABLE (CONTINUED)

PILE NO.	STATION	TOP OF MICROPILE ELEVATION	TOP OF WALL ELEVATION	FINAL GRADING ELEVATION (FRONT FACE)	BOTTOM OF MICROPILE ELEVATION	ESTIMATED MICROPILE LENGTH (FEET)	BOTTOM OF WALL ELEVATION
54	3+12	910.19	910.27	902.11	877.11	34.00	897.30
55	3+18	910.60	910.69	902.63	877.63	33.00	899.40
56	3+24	911.13	911.21	903.15	878.15	33.00	899.40
57	3+30	911.67	911.75	903.67	878.67	33.00	899.40
58	3+36	912.21	912.29	904.19	879.19	34.00	899.40
59	3+42	912.75	912.83	904.71	879.71	34.00	901.48
60	3+48	913.28	913.37	905.23	880.23	34.00	901.48
61	3+54	913.82	913.91	905.75	880.75	34.00	901.48
62	3+60	914.36	914.44	906.27	881.27	34.00	901.48
63	3+66	914.90	914.98	906.79	881.79	34.00	903.56
64	3+72	915.36	915.45	907.27	882.27	34.00	903.56
65	3+78	915.60	915.69	907.64	882.64	33.00	903.56
66	3+84	915.85	915.93	908.01	883.01	33.00	903.56
67	3+90	916.09	916.17	908.38	883.38	33.00	905.22
68	3+96	916.33	916.41	908.75	883.75	33.00	905.22
69	4+02	916.57	916.65	909.12	884.12	33.00	905.22
70	4+08	916.81	916.90	909.49	884.49	33.00	905.22
71	4+14	917.05	917.14	909.86	884.86	33.00	906.70
72	4+20	917.30	917.38	910.23	885.23	33.00	906.70
73	4+26	917.54	917.62	910.60	885.60	32.00	906.70
74	4+32	917.83	917.91	910.99	885.99	32.00	906.70
75	4+38	918.14	918.23	911.40	886.40	32.00	908.22
76	4+44	918.46	918.54	911.80	886.80	32.00	908.22
77	4+50	918.77	918.86	912.21	887.21	32.00	908.22
78	4+56	919.09	919.17	912.61	887.61	32.00	908.22
79	4+62	919.40	919.48	913.01	888.01	32.00	909.84
80	4+68	919.72	919.80	913.42	888.42	32.00	909.84
81	4+74	920.03	920.11	913.82	888.82	32.00	909.84
82	4+80	920.34	920.43	914.23	889.23	32.00	909.84
83	4+86	920.71	920.80	914.62	889.62	32.00	911.45
84	4+92	921.40	921.49	914.93	889.93	32.00	911.45
85	4+98	922.09	922.18	915.25	890.25	32.00	911.45
86	5+04	922.78	922.87	915.57	890.57	33.00	911.45
87	5+10	923.48	923.56	915.88	890.88	33.00	912.88
88	5+16	924.17	924.25	916.20	891.20	33.00	912.88
89	5+22	924.86	924.94	916.52	891.52	34.00	912.88
90	5+28	925.55	925.63	916.83	891.83	34.00	912.88
91	5+34	926.24	926.32	917.15	892.15	35.00	914.05
92	5+40	926.83	926.91	917.47	892.47	35.00	914.05
93	5+46	926.63	926.71	917.83	892.83	34.00	914.05
94	5+52	926.44	926.52	918.19	893.19	34.00	914.05
95	5+58	926.24	926.32	918.55	893.55	33.00	915.40
96	5+64	926.04	926.13	918.91	893.91	33.00	915.40
97	5+70	925.85	925.93	919.27	894.27	32.00	915.40
98	5+76	925.65	925.73	919.63	894.63	32.00	915.40
99	5+82	925.45	925.54	919.99	894.99	31.00	916.85
100	5+88	925.26	925.34	920.35	895.35	30.00	916.85
101	5+94	925.06	925.14	920.71	895.71	30.00	916.85

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DEPARTMENT OF TRANSPORTATION

RETAINING WALL 1D MICROPILE WALL TABLE

6/30/2026
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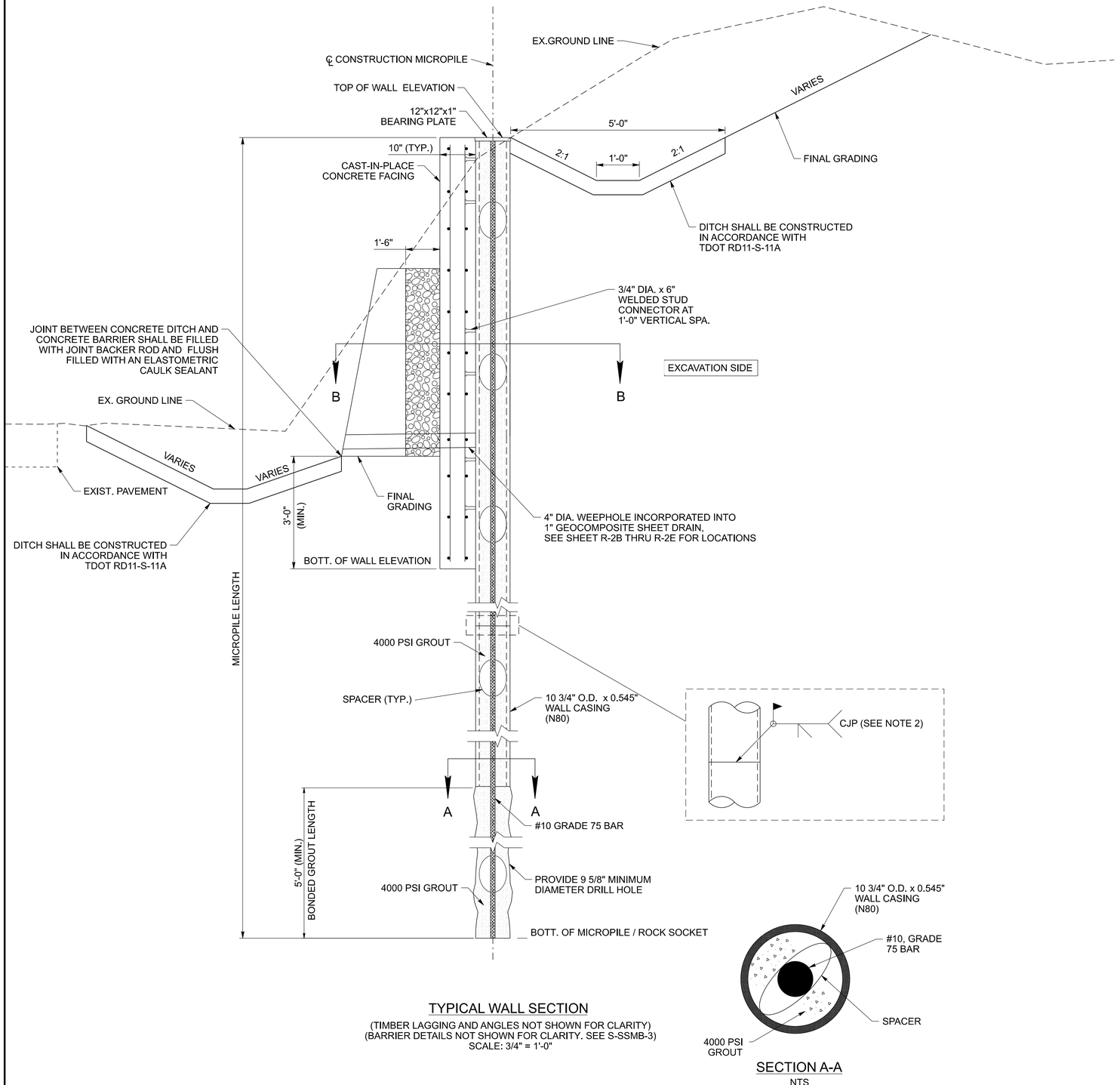
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	R-2



TYPICAL WALL SECTION

(TIMBER LAGGING AND ANGLES NOT SHOWN FOR CLARITY)
(BARRIER DETAILS NOT SHOWN FOR CLARITY. SEE S-SSMB-3)
SCALE: 3/4" = 1'-0"

SECTION A-A
NTS

NOTES

1. FOR SECTION B-B, SEE SHEET R-2A.
2. IT IS PREFERRED THAT THE MICROPILE CASING BE SUPPLIED / INSTALLED IN ONE CONTINUOUS PIECE. HOWEVER SPLICES WILL BE PERMITTED. THE CASING SECTIONS SHALL BE JOINED TOGETHER AS SHOWN (CJP WELD) OR BY USE OF A MECHANICAL SPLICE (THREADED SPLICE).
3. FOR LOCATION OF 6" DIAMETER PERFORATED PIPE, SEE SHEET R-2B THRU R-2E, RETAINING WALL 2D PLAN AND ELEVATION.

SEALED BY

DANIEL T. MAXEY
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 18793
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL 2D DETAILS

6/30/2026
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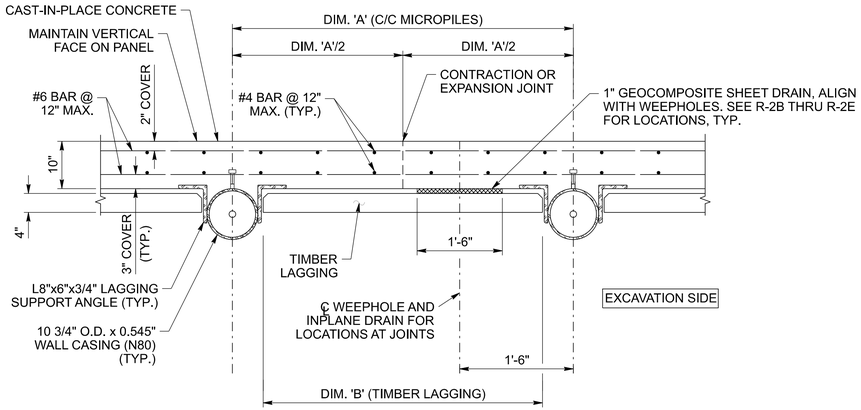
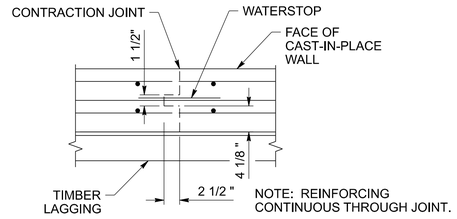
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	R-2A

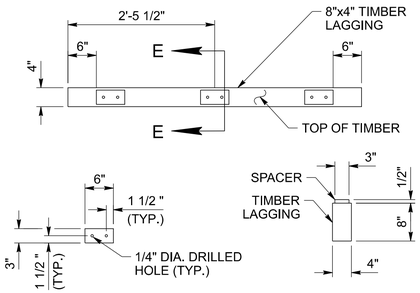


SECTION B-B
TYPICAL PLAN - MICROPILE WALL
SCALE: 3/4" = 1'-0"

RETAINING WALL 2 DIMENSION TABLE		
WALL SECTION AT PILE NO.	DIM. 'A'	DIM. 'B'
1-25	6'-0"	4'-11"
25-49	5'-6"	4'-5"
49-91	6'-0"	4'-11"

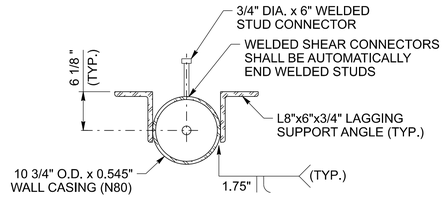


CONTRACTION JOINT DETAIL
SCALE: 3/4" = 1'-0"

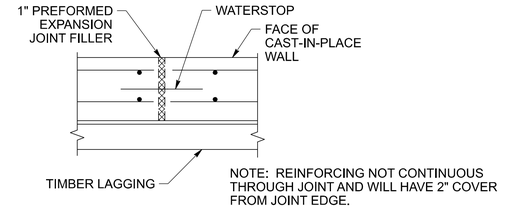


WOOD SPACER SECTION E-E

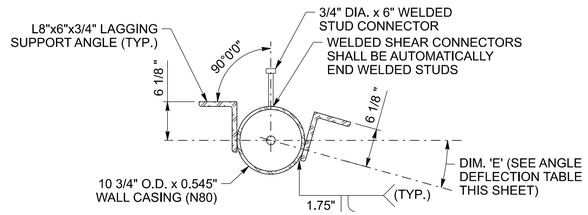
TIMBER AND SPACER PLATE ASSEMBLY
SCALE: 3/4" = 1'-0"



STUD AND TIMBER
ANGLE DETAIL
SCALE: 1" = 1'-0"



EXPANSION JOINT DETAIL
SCALE: 3/4" = 1'-0"



STUD AND TIMBER
ANGLE DETAIL
SCALE: 1" = 1'-0"

ANGLE DEFLECTION TABLE	
PILE NO.	DIM 'E'
53	02°30'17"

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NOTES

1. ATTACH WOOD SPACER TO TIMBER LAGGING USING 1.5" LONG (MIN.) GALVANIZED ROOFING NAILS.
2. FOR WALL PLAN AND ELEVATION, SEE SHEET R-2B THRU R-2E.
3. BACKSLOPE AS SHOWN ON ROADWAY CROSS SECTIONS.
4. LAGGING TO BE STRUCTURAL STRESS GRADED LUMBER.
5. REINFORCING LAP LENGTHS ARE AS FOLLOWS:
   #4 BAR = 2'-5"
   #6 BAR = 3'-7"

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RETAINING WALL 2D DETAILS

6/30/2026
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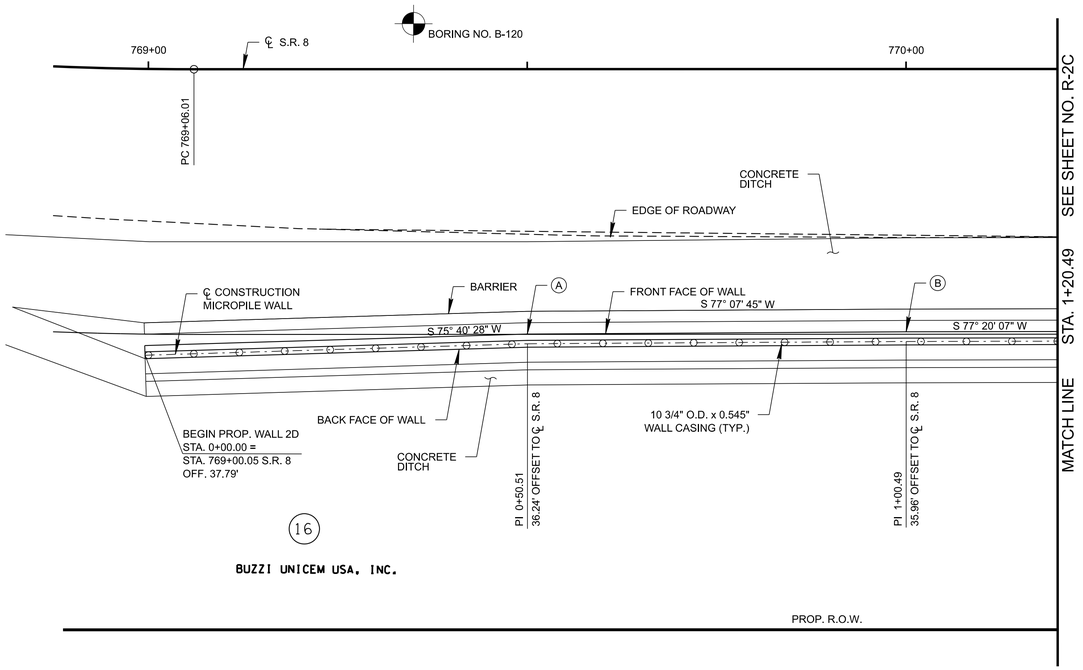
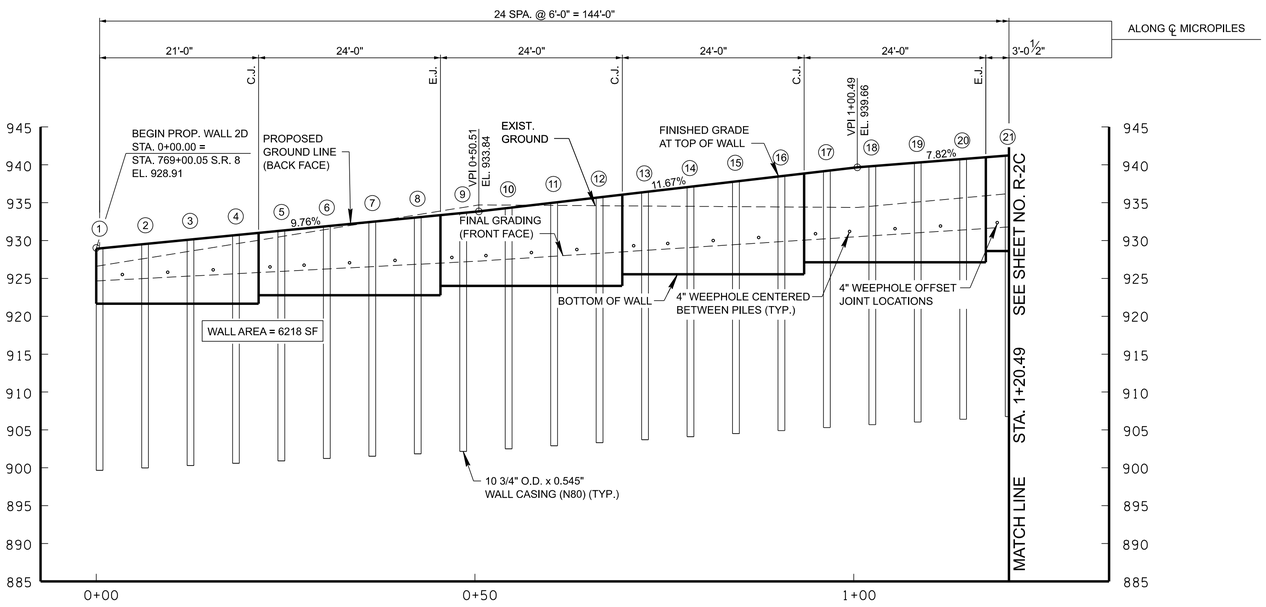


WALL 2D PLAN VIEW

SCALE: 1"=10'

	STATION AT F.F. WALL	OFFSET TO F.F. WALL	DISTANCE TO RIGHT-OF-WAY
BEGIN WALL	769+00.00	36.51' RT	37.52'
Ⓐ	769+50.00	34.96' RT	39.03'
Ⓑ	770+00.00	34.68' RT	39.31'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	R-2B
PS&E	2026	STP-8(52)	R-2B



WALL 2D ELEVATION VIEW

SCALE: 1"=10'

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RETAINING WALL 2D PLAN AND ELEVATION

6/30/2026
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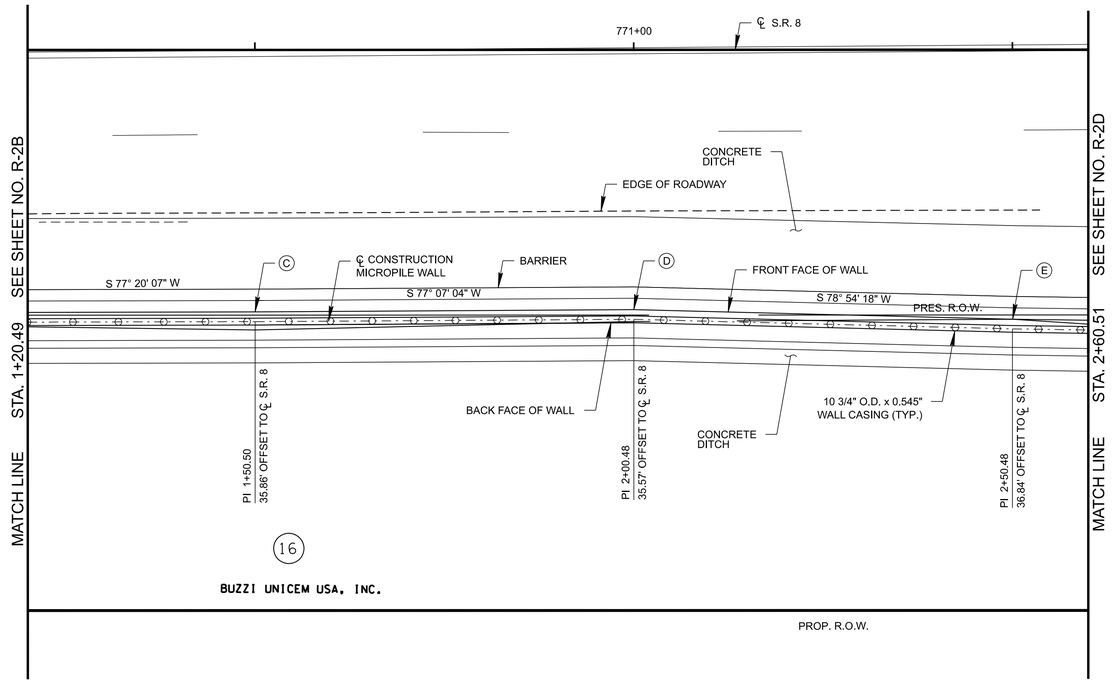
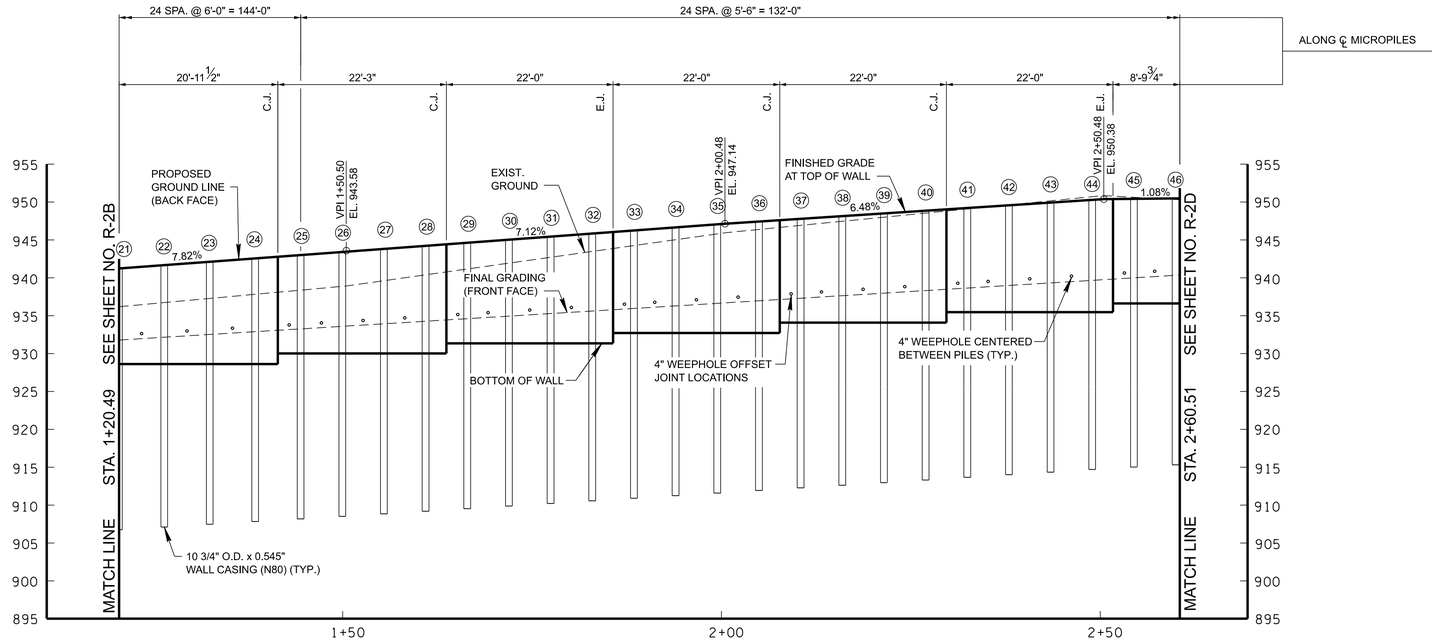


WALL 2D PLAN VIEW

SCALE: 1"=10'

	STATION AT F.F. WALL	OFFSET TO F.F. WALL	DISTANCE TO RIGHT-OF-WAY
Ⓒ	770+50.00	34.58' RT	39.42'
Ⓓ	771+00.00	34.29' RT	39.71'
Ⓔ	771+50.00	35.56' RT	38.44'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	R-2C
PS&E	2026	STP-8(52)	R-2C



WALL 2D ELEVATION VIEW

SCALE: 1"=10'

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RETAINING WALL 2D PLAN AND ELEVATION

6/30/2026
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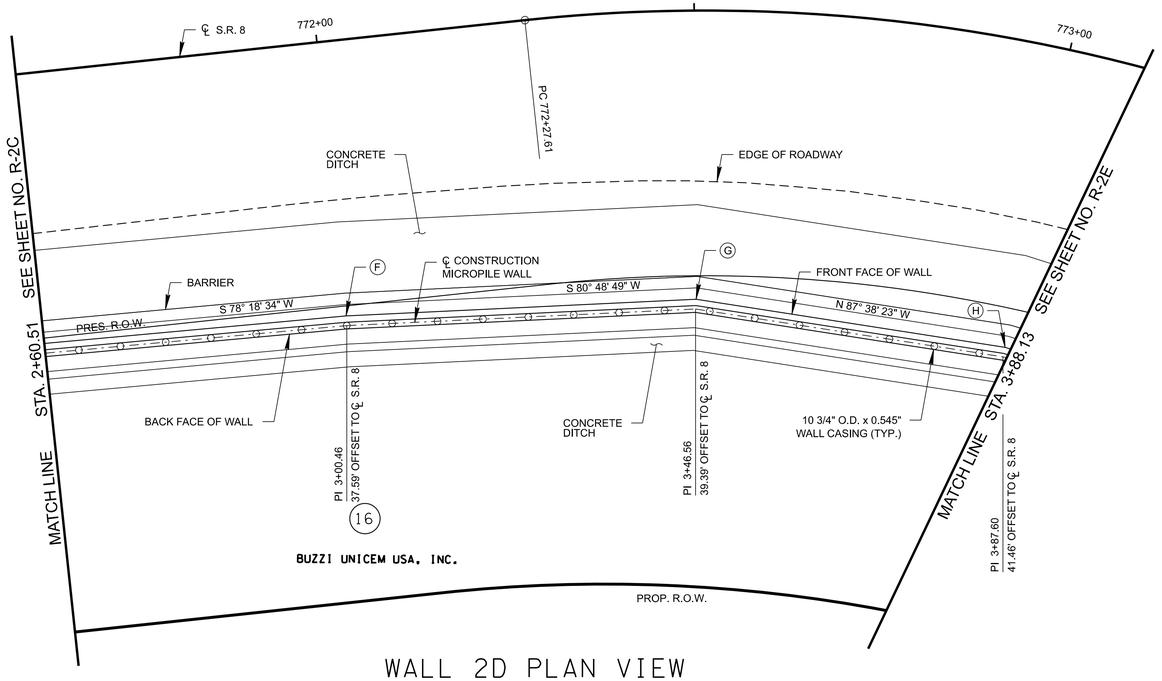
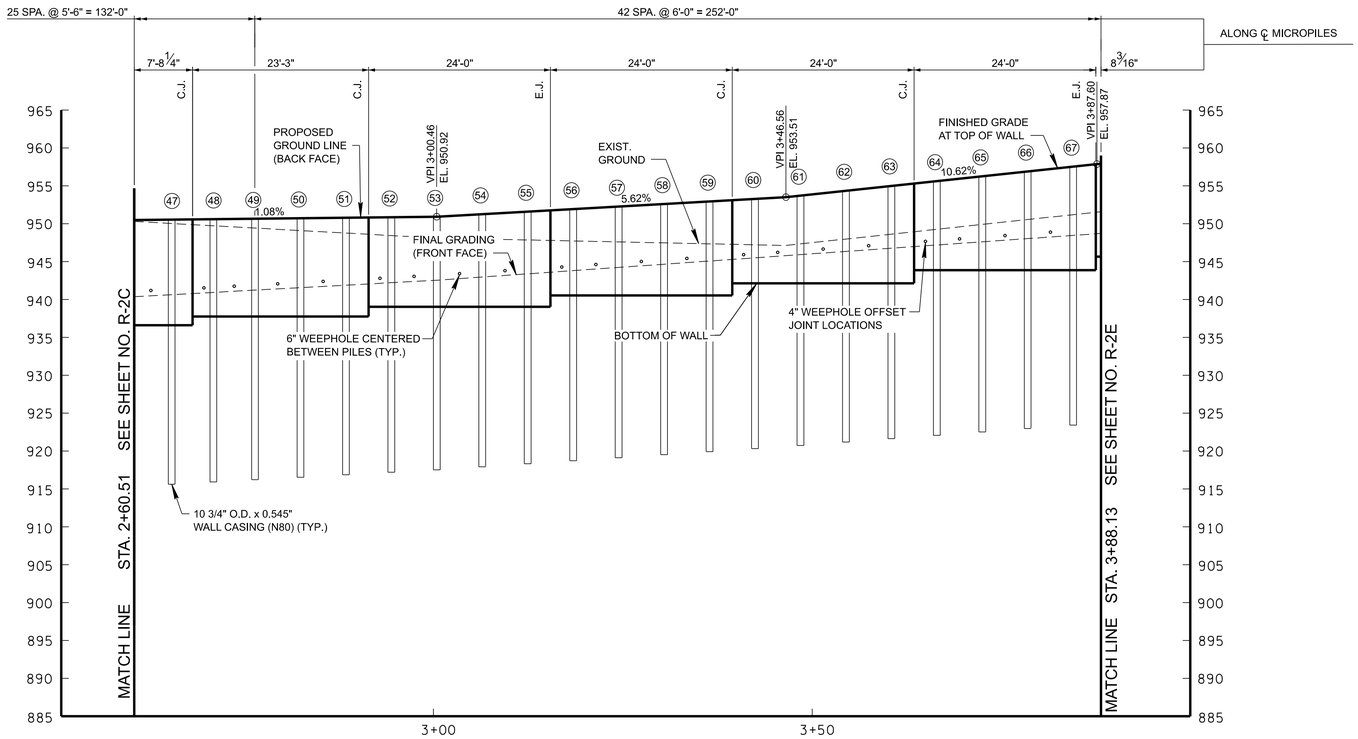


WALL 2D PLAN VIEW
SCALE: 1"=10'



	STATION AT F.F. WALL	OFFSET TO F.F. WALL	DISTANCE TO RIGHT-OF-WAY
(F)	772+00.00	36.31' RT	37.69'
(G)	772+50.00	38.10' RT	37.90'
(H)	773+00.00	40.17' RT	35.92'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	R-2D
PS&E	2026	STP-8(52)	R-2D



WALL 2D ELEVATION VIEW
SCALE: 1"=10'

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RETAINING WALL 2D PLAN AND ELEVATION

6/30/2026
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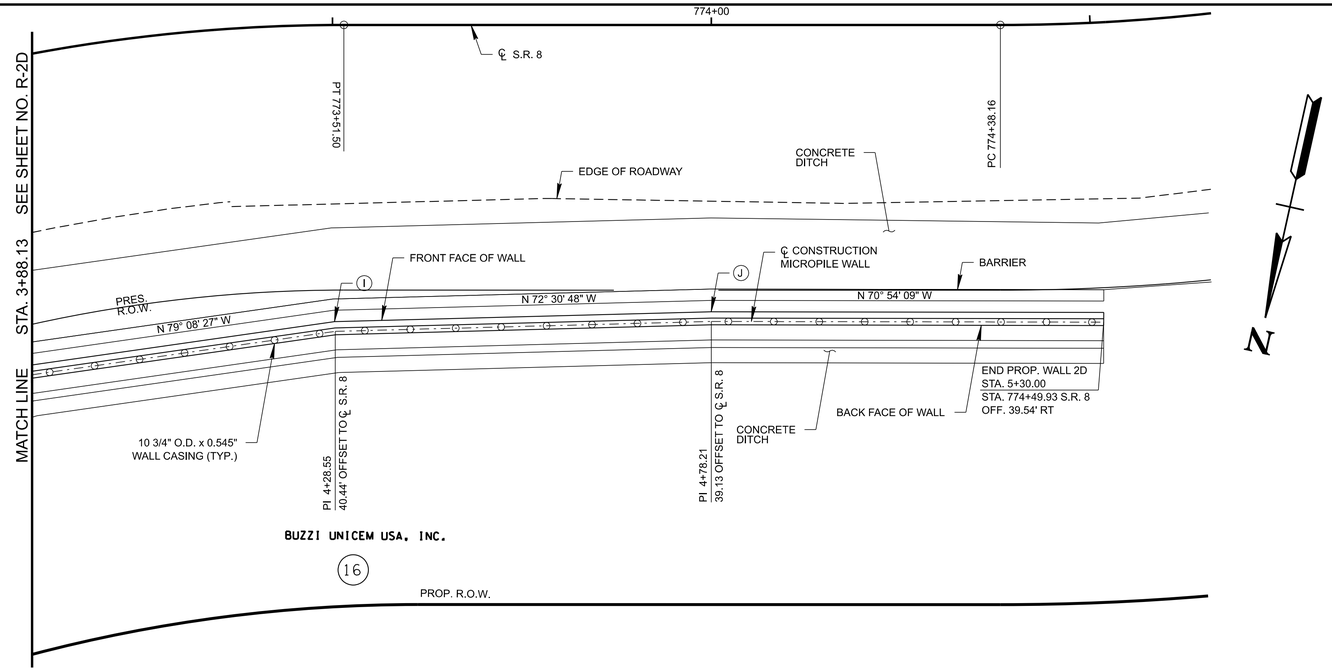

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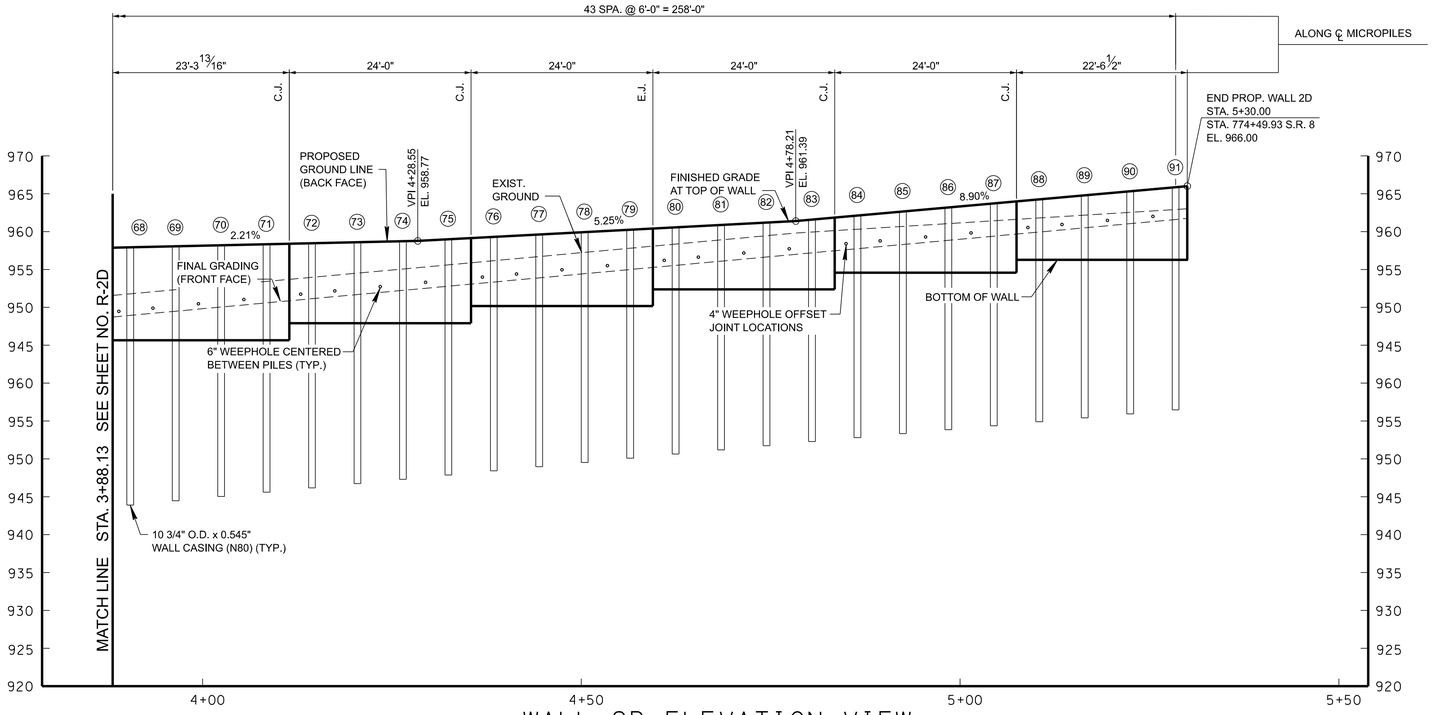
	STATION AT F.F. WALL	OFFSET TO F.F. WALL	DISTANCE TO RIGHT-OF-WAY
(I)	773+50.00	39.16' RT	38.37'
(J)	774+00.00	37.85' RT	39.36'
END WALL	774+50.00	38.26' RT	38.24'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	R-2E
PS&E	2026	STP-8(52)	R-2E

WALL 2D PLAN VIEW

SCALE: 1"=10'



WALL 2D ELEVATION VIEW

SCALE: 1"=10'

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RETAINING WALL 2D PLAN AND ELEVATION

6/30/2026
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	R-2F

RETAINING WALL 2D MICROPILE WALL DATA TABLE

PILE NO.	STATION	TOP OF MICROPILE ELEVATION	TOP OF WALL ELEVATION	FINAL GRADING ELEVATION (FRONT FACE)	BOTTOM OF MICROPILE ELEVATION	ESTIMATED MICROPILE LENGTH (FEET)	BOTTOM OF WALL ELEVATION
1	0+00	928.95	929.04	924.68	899.68	30.00	921.66
2	0+06	929.54	929.62	924.99	899.99	30.00	921.66
3	0+12	930.12	930.21	925.31	900.31	30.00	921.66
4	0+18	930.71	930.79	925.62	900.62	31.00	921.66
5	0+24	931.30	931.38	925.93	900.93	31.00	922.77
6	0+30	931.88	931.97	926.24	901.24	31.00	922.77
7	0+36	932.47	932.55	926.55	901.55	31.00	922.77
8	0+42	933.05	933.14	926.86	901.86	32.00	922.77
9	0+48	933.64	933.72	927.17	902.17	32.00	924.02
10	0+54	934.30	934.38	927.54	902.54	32.00	924.02
11	0+60	935.00	935.08	927.94	902.94	33.00	924.02
12	0+66	935.70	935.78	928.34	903.34	33.00	924.02
13	0+72	936.39	936.48	928.74	903.74	33.00	925.54
14	0+78	937.09	937.18	929.14	904.14	33.00	925.54
15	0+84	937.79	937.88	929.53	904.53	34.00	925.54
16	0+90	938.49	938.57	929.93	904.93	34.00	925.54
17	0+96	939.19	939.27	930.33	905.33	34.00	927.13
18	1+02	939.81	939.90	930.72	905.72	35.00	927.13
19	1+08	940.28	940.37	931.07	906.07	35.00	927.13
20	1+14	940.75	940.84	931.43	906.43	35.00	927.13
21	1+20	941.22	941.31	931.79	906.79	35.00	928.61
22	1+26	941.69	941.78	932.14	907.14	35.00	928.61
23	1+32	942.16	942.25	932.50	907.50	35.00	928.61
24	1+38	942.64	942.72	932.85	907.85	35.00	928.61
25	1+44	943.07	943.15	933.18	908.18	35.00	930.01
26	1+49	943.50	943.58	933.51	908.51	35.00	930.01
27	1+55	943.90	943.98	933.85	908.85	36.00	930.01
28	1+60	944.29	944.37	934.19	909.19	36.00	930.01
29	1+66	944.68	944.76	934.53	909.53	36.00	931.35
30	1+71	945.07	945.16	934.87	909.87	36.00	931.35
31	1+77	945.46	945.55	935.21	910.21	36.00	931.35
32	1+82	945.86	945.94	935.55	910.55	36.00	931.35
33	1+88	946.25	946.33	935.89	910.89	36.00	932.71
34	1+93	946.64	946.72	936.23	911.23	36.00	932.71
35	1+99	947.03	947.11	936.57	911.57	36.00	932.71
36	2+04	947.40	947.48	936.92	911.92	36.00	932.71
37	2+10	947.75	947.84	937.27	912.27	36.00	934.08
38	2+15	948.11	948.19	937.61	912.61	36.00	934.08
39	2+21	948.47	948.55	937.96	912.96	36.00	934.08
40	2+26	948.82	948.91	938.31	913.31	36.00	934.08
41	2+32	949.18	949.26	938.65	913.65	36.00	935.47
42	2+37	949.54	949.62	939.00	914.00	36.00	935.47
43	2+43	949.89	949.98	939.35	914.35	36.00	935.47
44	2+48	950.25	950.33	939.69	914.69	36.00	935.47
45	2+54	950.42	950.50	940.01	915.01	36.00	936.61
46	2+59	950.48	950.56	940.31	915.31	36.00	936.61
47	2+65	950.54	950.62	940.61	915.61	35.00	936.61
48	2+70	950.60	950.68	940.91	915.91	35.00	937.75
49	2+76	950.66	950.74	941.21	916.21	35.00	937.75
50	2+82	950.72	950.80	941.53	916.53	35.00	937.75

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DEPARTMENT OF TRANSPORTATION

RETAINING WALL 2D MICROPILE WALL TABLE

6/30/2026
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	R-2G

RETAINING WALL 2D MICROPILE WALL DATA TABLE

PILE NO.	STATION	TOP OF MICROPILE ELEVATION	TOP OF WALL ELEVATION	FINAL GRADING ELEVATION (FRONT FACE)	BOTTOM OF MICROPILE ELEVATION	ESTIMATED MICROPILE LENGTH (FEET)	BOTTOM OF WALL ELEVATION
51	2+88	950.78	950.87	941.86	916.86	34.00	937.75
52	2+94	950.85	950.93	942.19	917.19	34.00	939.04
53	3+00	950.91	951.00	942.51	917.51	34.00	939.04
54	3+06	951.23	951.31	942.91	917.91	34.00	939.04
55	3+12	951.57	951.65	943.31	918.31	34.00	939.04
56	3+18	951.90	951.99	943.71	918.71	34.00	940.53
57	3+24	952.24	952.32	944.11	919.11	34.00	940.53
58	3+30	952.58	952.66	944.51	919.51	34.00	940.53
59	3+36	952.91	953.00	944.91	919.91	34.00	940.53
60	3+42	953.25	953.33	945.31	920.31	33.00	942.13
61	3+48	953.66	953.74	945.72	920.72	33.00	942.13
62	3+54	954.29	954.38	946.17	921.17	34.00	942.13
63	3+60	954.93	955.02	946.62	921.62	34.00	942.13
64	3+66	955.57	955.65	947.07	922.07	34.00	943.86
65	3+72	956.21	956.29	947.51	922.51	34.00	943.86
66	3+78	956.84	956.93	947.96	922.96	34.00	943.86
67	3+84	957.48	957.57	948.41	923.41	35.00	943.86
68	3+90	957.92	958.00	948.90	923.90	35.00	945.65
69	3+96	958.05	958.14	949.47	924.47	34.00	945.65
70	4+02	958.19	958.27	950.03	925.03	34.00	945.65
71	4+08	958.32	958.40	950.60	925.60	33.00	945.65
72	4+14	958.45	958.53	951.16	926.16	33.00	947.92
73	4+20	958.58	958.66	951.73	926.73	32.00	947.92
74	4+26	958.71	958.80	952.30	927.30	32.00	947.92
75	4+32	958.95	959.03	952.85	927.85	32.00	947.92
76	4+38	959.27	959.35	953.41	928.41	31.00	950.17
77	4+44	959.58	959.67	953.97	928.97	31.00	950.17
78	4+50	959.90	959.98	954.52	929.52	31.00	950.17
79	4+56	960.22	960.30	955.08	930.08	31.00	950.17
80	4+62	960.53	960.62	955.63	930.63	30.00	952.38
81	4+68	960.85	960.93	956.19	931.19	30.00	952.38
82	4+74	961.17	961.25	956.75	931.75	30.00	952.38
83	4+80	961.54	961.63	957.29	932.29	30.00	952.38
84	4+86	962.08	962.16	957.83	932.83	30.00	954.57
85	4+92	962.61	962.70	958.36	933.36	30.00	954.57
86	4+98	963.15	963.23	958.90	933.90	30.00	954.57
87	5+04	963.68	963.76	959.43	934.43	30.00	954.57
88	5+10	964.22	964.30	959.97	934.97	30.00	956.28
89	5+16	964.75	964.83	960.50	935.50	30.00	956.28
90	5+22	965.28	965.37	961.03	936.03	30.00	956.28
91	5+28	965.82	965.90	961.57	936.57	30.00	956.28

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DEPARTMENT OF TRANSPORTATION

RETAINING WALL 2D MICROPILE WALL TABLE

6/30/2026
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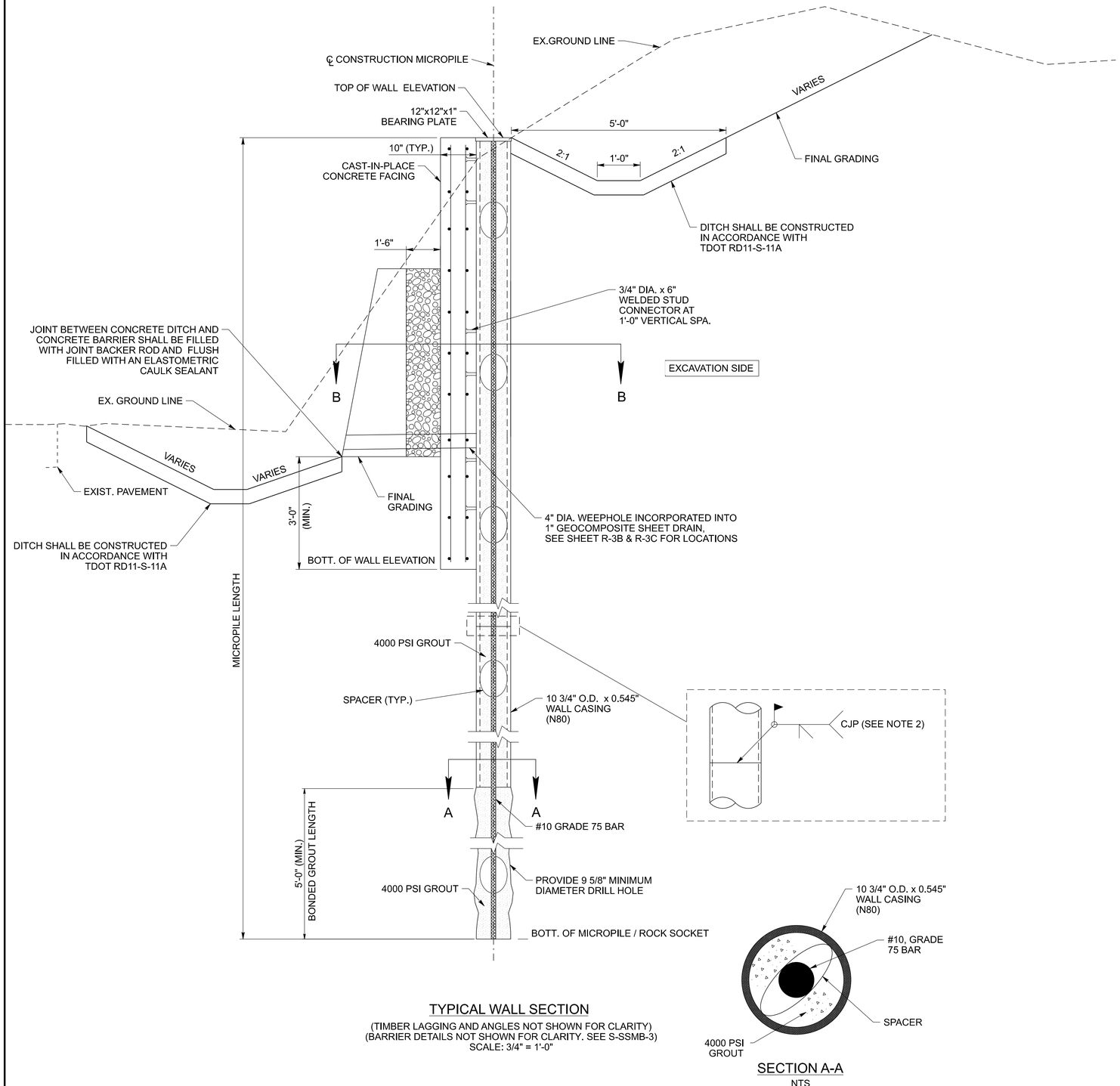
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	R-3



TYPICAL WALL SECTION

(TIMBER LAGGING AND ANGLES NOT SHOWN FOR CLARITY)
(BARRIER DETAILS NOT SHOWN FOR CLARITY. SEE S-SSMB-3)
SCALE: 3/4" = 1'-0"

SECTION A-A
NTS

NOTES

1. FOR SECTION B-B, SEE SHEET R-3A.
2. IT IS PREFERRED THAT THE MICROPILE CASING BE SUPPLIED / INSTALLED IN ONE CONTINUOUS PIECE. HOWEVER SPLICES WILL BE PERMITTED. THE CASING SECTIONS SHALL BE JOINED TOGETHER AS SHOWN (CJP WELD) OR BY USE OF A MECHANICAL SPLICE (THREADED SPLICE).
3. FOR LOCATION OF 6" DIAMETER PERFORATED PIPE, SEE SHEET R-3B & R-3C, RETAINING WALL 3D PLAN AND ELEVATION.

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RETAINING WALL 3D DETAILS

6/30/2026
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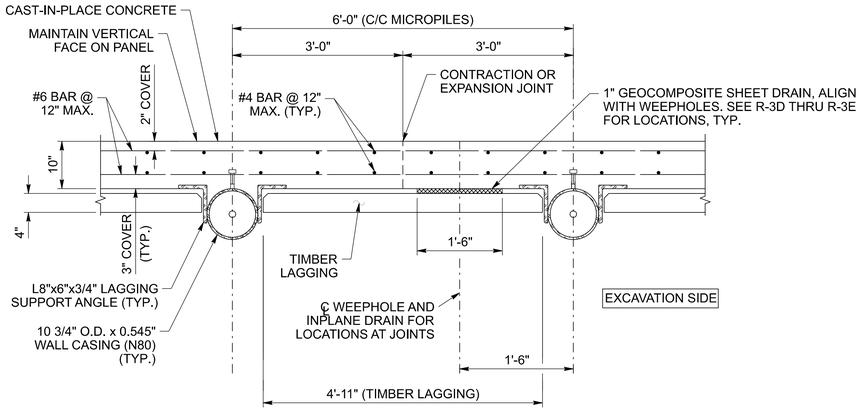
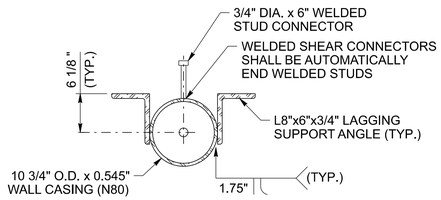
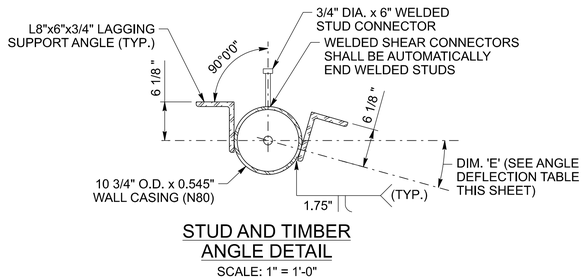
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	R-3A



SECTION B-B
TYPICAL PLAN - MICROPILE WALL
SCALE: 3/4" = 1'-0"

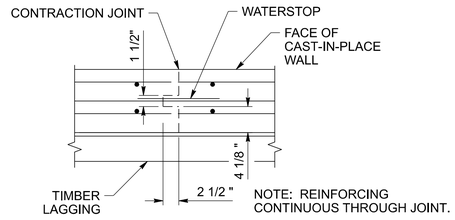


STUD AND TIMBER
ANGLE DETAIL
SCALE: 1" = 1'-0"

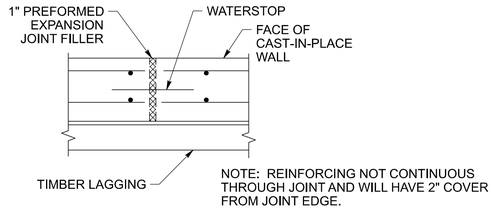


STUD AND TIMBER
ANGLE DETAIL
SCALE: 1" = 1'-0"

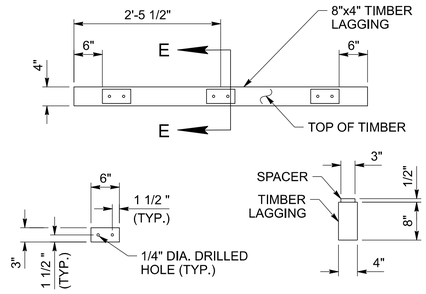
ANGLE DEFLECTION TABLE	
PILE NO.	DIM 'E'
10	04°31'15"



CONTRACTION JOINT DETAIL
SCALE: 3/4" = 1'-0"



EXPANSION JOINT DETAIL
SCALE: 3/4" = 1'-0"



TIMBER AND SPACER PLATE ASSEMBLY
SCALE: 3/4" = 1'-0"

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NOTES

1. ATTACH WOOD SPACER TO TIMBER LAGGING USING 1.5" LONG (MIN.) GALVANIZED ROOFING NAILS.
2. FOR WALL PLAN AND ELEVATION, SEE SHEET R-3B & R-3C.
3. BACKSLOPE AS SHOWN ON ROADWAY CROSS SECTIONS.
4. LAGGING TO BE STRUCTURAL STRESS GRADED LUMBER.
5. REINFORCING LAP LENGTHS ARE AS FOLLOWS:
   #4 BAR = 2'-5"
   #6 BAR = 3'-7"

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RETAINING WALL 3D DETAILS

6/30/2026
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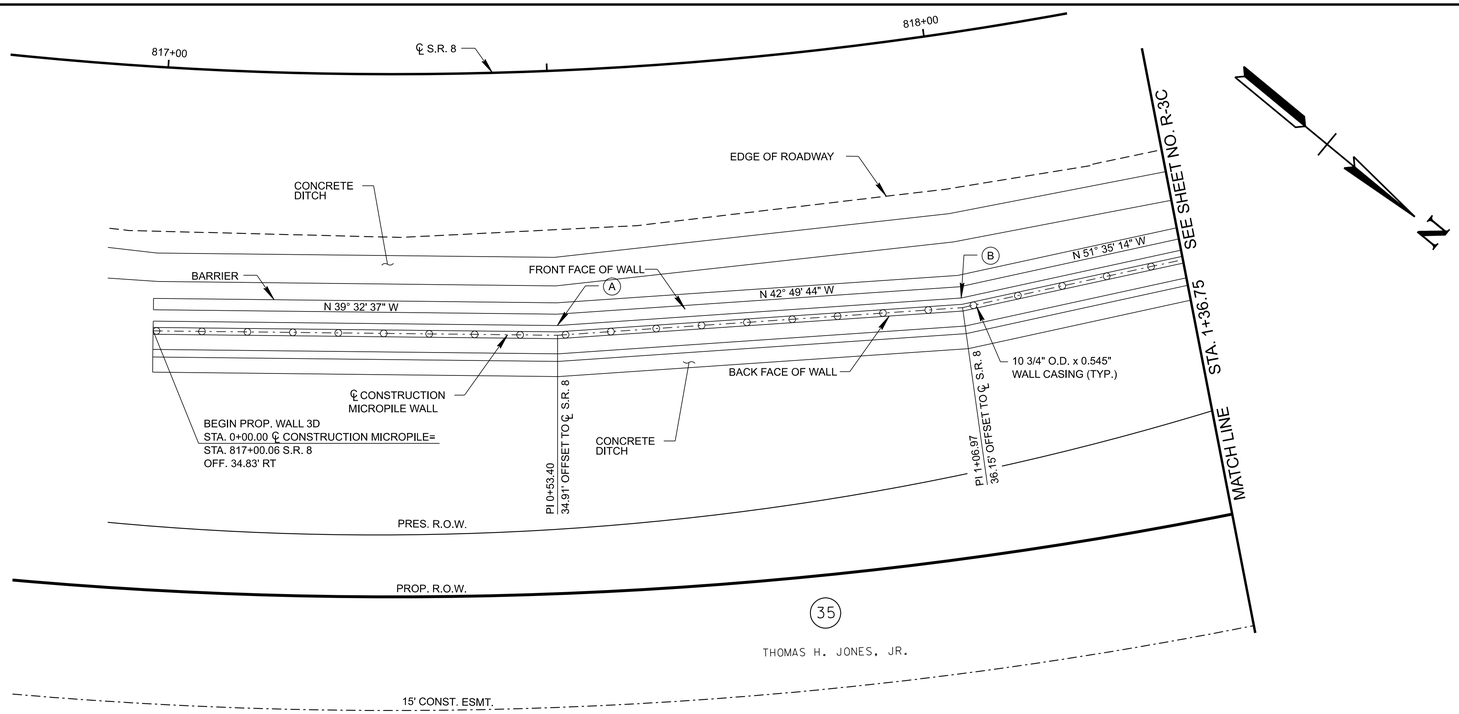
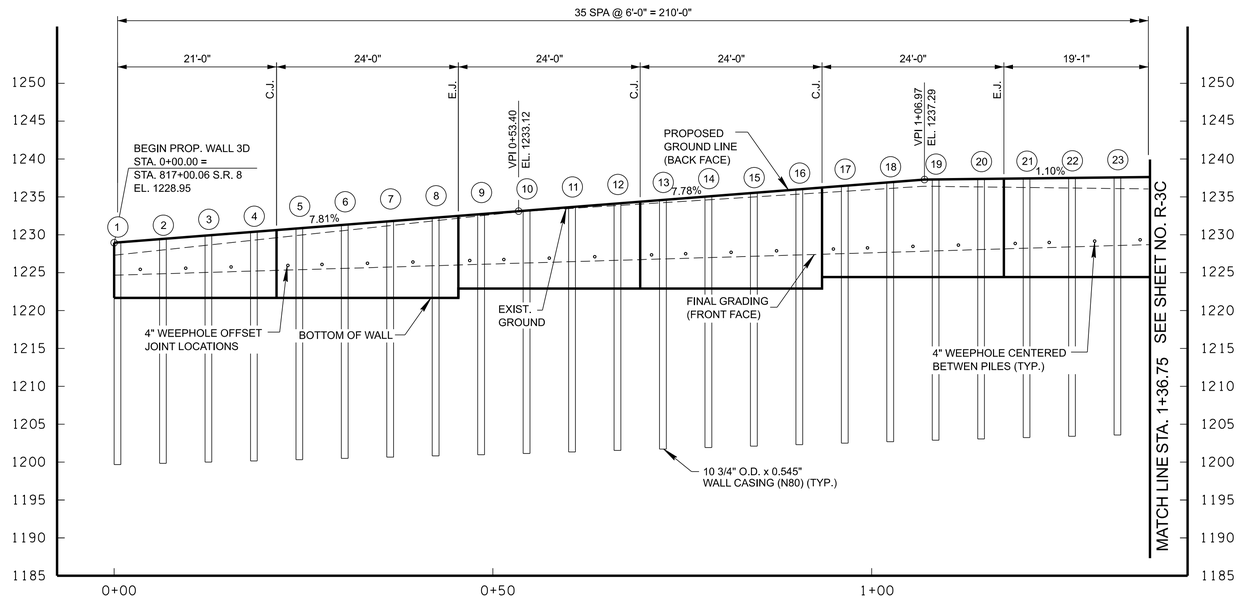


WALL 3D PLAN VIEW

SCALE: 1"=10'

	STATION AT F.F. WALL	OFFSET TO F.F. WALL	DISTANCE TO RIGHT-OF-WAY
BEGIN WALL	817+00.00	33.55' RT	35.45'
(A)	817+50.00	33.63' RT	35.37'
(B)	818+00.00	34.86' RT	34.14'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	R-3B
PS&E	2026	STP-8(52)	R-3B



WALL 3D ELEVATION VIEW

SCALE: 1"=10'

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DEPARTMENT OF TRANSPORTATION

RETAINING WALL 3D PLAN AND ELEVATION

6/30/2026
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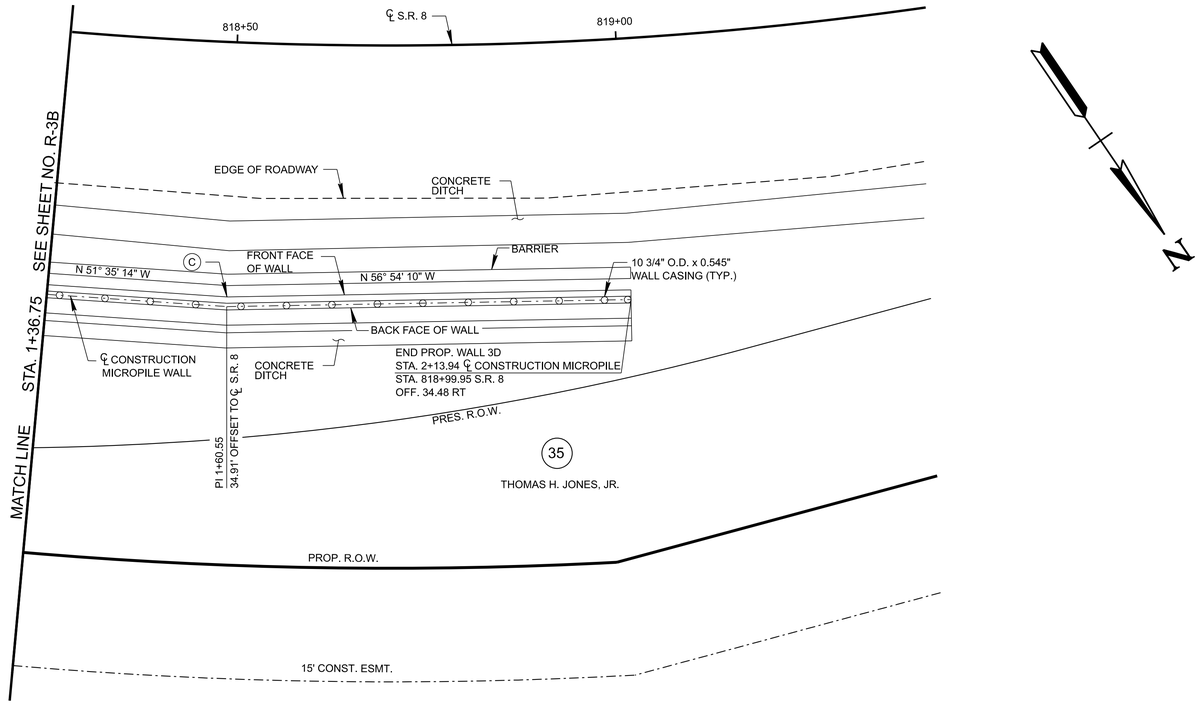
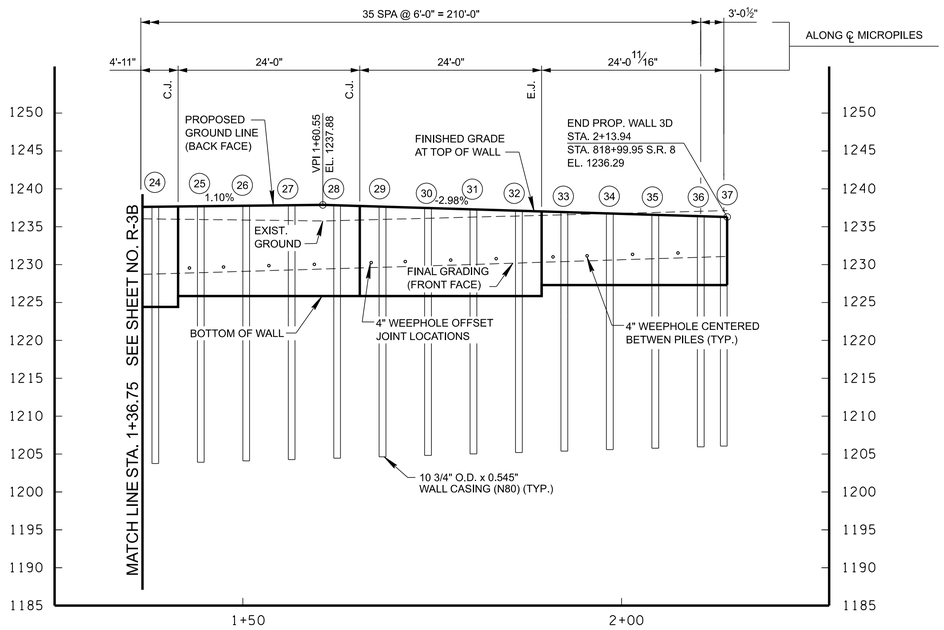


WALL 3D PLAN VIEW

SCALE: 1"=10'



WALL 3D ELEVATION VIEW

SCALE: 1"=10'

	STATION AT F.F. WALL	OFFSET TO F.F. WALL	DISTANCE TO RIGHT-OF-WAY
Ⓒ	818+50.00	33.63' RT	35.37'
END WALL	819+00.00	33.20' RT	34.24'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8(52)	R-3C
PS&E	2026	STP-8(52)	R-3C

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DEPARTMENT OF TRANSPORTATION

RETAINING WALL 3D PLAN AND ELEVATION

6/30/2026
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	R-3D

RETAINING WALL 3D MICROPILE WALL DATA TABLE

PILE NO.	STATION	TOP OF MICROPILE ELEVATION	TOP OF WALL ELEVATION	FINAL GRADING ELEVATION (FRONT FACE)	BOTTOM OF MICROPILE ELEVATION	ESTIMATED MICROPILE LENGTH (FEET)	BOTTOM OF WALL ELEVATION
1	0+00	1228.99	1229.07	1224.68	1199.68	30.00	1221.67
2	0+06	1229.45	1229.54	1224.85	1199.85	30.00	1221.67
3	0+12	1229.92	1230.01	1225.01	1200.01	30.00	1221.67
4	0+18	1230.39	1230.48	1225.18	1200.18	31.00	1221.67
5	0+24	1230.86	1230.94	1225.34	1200.34	31.00	1221.67
6	0+30	1231.33	1231.41	1225.50	1200.50	31.00	1221.67
7	0+36	1231.80	1231.88	1225.67	1200.67	32.00	1221.67
8	0+42	1232.27	1232.35	1225.83	1200.83	32.00	1221.67
9	0+48	1232.74	1232.82	1226.00	1201.00	32.00	1222.91
10	0+54	1233.19	1233.27	1226.17	1201.17	33.00	1222.91
11	0+60	1233.58	1233.66	1226.36	1201.36	33.00	1222.91
12	0+66	1233.96	1234.04	1226.55	1201.55	33.00	1222.91
13	0+72	1234.34	1234.43	1226.74	1201.74	33.00	1222.91
14	0+78	1234.73	1234.81	1226.94	1201.94	33.00	1222.91
15	0+84	1235.11	1235.19	1227.13	1202.13	33.00	1222.91
16	0+90	1235.49	1235.58	1227.32	1202.32	34.00	1222.91
17	0+96	1235.88	1235.96	1227.52	1202.52	34.00	1224.41
18	1+02	1236.26	1236.34	1227.71	1202.71	34.00	1224.41
19	1+08	1236.56	1236.64	1227.90	1202.90	34.00	1224.41
20	1+14	1236.62	1236.70	1228.07	1203.07	34.00	1224.41
21	1+20	1236.68	1236.76	1228.25	1203.25	34.00	1224.41
22	1+26	1236.73	1236.82	1228.42	1203.42	34.00	1224.41
23	1+32	1236.79	1236.88	1228.59	1203.59	34.00	1224.41
24	1+38	1236.85	1236.94	1228.77	1203.77	34.00	1224.41
25	1+44	1236.91	1237.00	1228.94	1203.94	33.00	1225.85
26	1+50	1236.97	1237.06	1229.11	1204.11	33.00	1225.85
27	1+56	1237.03	1237.11	1229.29	1204.29	33.00	1225.85
28	1+62	1237.04	1237.12	1229.47	1204.47	33.00	1225.85
29	1+68	1236.95	1237.03	1229.66	1204.66	33.00	1225.85
30	1+74	1236.86	1236.95	1229.85	1204.85	33.00	1225.85
31	1+80	1236.78	1236.86	1230.03	1205.03	32.00	1225.85
32	1+86	1236.69	1236.77	1230.22	1205.22	32.00	1225.85
33	1+92	1236.60	1236.68	1230.41	1205.41	32.00	1227.31
34	1+98	1236.51	1236.59	1230.60	1205.60	31.00	1227.31
35	2+04	1236.42	1236.51	1230.79	1205.79	31.00	1227.31
36	2+10	1236.34	1236.42	1230.98	1205.98	31.00	1227.31
37	2+14	1236.29	1236.37	1231.08	1206.08	31.00	1227.31

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RETAINING WALL 3D MICROPILE WALL TABLE

6/30/2026
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	R-4

ACCEPTABLE WALL TYPES - WALL 4D

SOIL NAIL WALL

THE RETAINING WALL SHALL BE THE WALL TYPE LISTED ABOVE OR ON FORTHCOMING SHEETS. ANY PROPRIETARY RETAINING WALL SYSTEM SHALL BE LISTED AS PRE-APPROVED IN OPL 38.

RETAINING WALL DESIGN NOTES

UNLESS SPECIFICALLY STATED OTHERWISE IN THE CONTRACT PLANS, THE BIDDING FOR, THE DESIGN OF AND THE CONSTRUCTION OF RETAINING WALL 4D SHOWN IN THE PLANS SHALL BE GOVERNED BY THE TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS. THIS SPECIAL PROVISION SHALL BE CONSIDERED AS ONE OF THOSE DOCUMENTS WHICH THE BIDDER/CONTRACTOR HAS EXAMINED AND MADE HIMSELF FAMILIAR WITH AS DESCRIBED IN SECTION 102.04 - EXAMINATION OF THE SITE, THE WORK, THE PLANS, AND THE SPECIFICATIONS IN THE TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

EXCAVATION FOR THE WALL AND/OR ITS FOOTING SHALL NOT BE ACCOMPLISHED UNTIL THE CONTRACTOR HAS SUBMITTED WALL DESIGNS AND CALCULATIONS, HAS BEEN ISSUED AN APPROVED SET OF WALL PLANS AND HAS LABOR AND MATERIAL RESOURCES AVAILABLE TO BEGIN AND CONTINUE WALL CONSTRUCTION IMMEDIATELY AFTER EXCAVATION.

THIS WALL SHALL BE DESIGNED IN ACCORDANCE WITH LRFD DESIGN PROCEDURES AND REQUIREMENTS AS DESCRIBED IN:

- AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2024
- PUBLICATION FHWA-NHI-14-007/FHWA GEC 007 SOIL NAIL WALLS REFERENCE MANUAL FEBRUARY 2015

FOR PROPRIETARY WALL SYSTEMS THAT HAVE BEEN APPROVED AS SHOWN IN OPL 38, THE WALL DESIGNER SHALL BE RESPONSIBLE FOR PROVIDING WALL DESIGNS INCORPORATING MATERIALS AND COMPONENTS (E.G. REINFORCEMENT CONNECTION DEVICES) AS WAS ORIGINALLY SUBMITTED AND APPROVED BY TDOT. IF A MATERIAL AND/OR COMPONENT OF THE WALL SYSTEM HAVE BEEN MODIFIED FROM THE ORIGINALLY APPROVED SYSTEM, A WALL DESIGN AND SET OF PLANS AND CALCULATIONS FOR THIS WALL SYSTEM CANNOT BE SUBMITTED FOR REVIEW AND APPROVAL UNTIL THE WALL SYSTEM DESIGNER WHO ORIGINALLY SUBMITTED THE WALL SYSTEM FOR APPROVAL BY TDOT SUBMITS A REQUEST FOR RE-APPROVAL UTILIZING THE MODIFIED ELEMENTS OF THE WALL. THIS SUBMITTAL DOES NOT GUARANTEE APPROVAL OF THE MODIFIED SYSTEM. IF THIS RE-APPROVAL PROCESS DOES NOT MEET THE CONTRACTOR'S SCHEDULE OR IF THE MODIFIED SYSTEM IS NOT APPROVED, THE CONTRACTOR/WALL DESIGNER SHALL PROVIDE A WALL DESIGN FOR ONE OF THE APPROVED SYSTEMS AT NO CHANGE IN CONTRACT PRICE FOR THE RETAINING WALL AND NO CHANGE IN PROJECT SCHEDULE REQUIREMENTS WILL BE ALLOWED.

THE WALL DESIGNER SHALL PROVIDE RETAINING WALL PLANS, DETAILS AND CALCULATIONS AS REQUIRED BY SPECIAL PROVISION 624 AND AS REQUIRED HEREIN.

THE WALL DESIGNER SHALL UTILIZE THE GEOTECHNICAL PARAMETERS AND RESISTANCE FACTORS AS PROVIDED FOR RETAINING WALL 4D ON THE "RETAINING WALL DETAIL" SHEET(S) TO PREPARE AND SUBMIT DESIGN CALCULATIONS. LOAD FACTORS AND OTHER PERTINENT DESIGN REQUIREMENTS PROVIDED IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2024 AND PUBLICATION FHWA-NHI-14-007/FHWA GEC 007 SOIL NAIL WALLS REFERENCE MANUAL, FEBRUARY 2015 SHALL BE USED FOR SOILD NAIL WALLS.

CALCULATIONS FOR INTERNAL AND GLOBAL STABILITY SHALL BE PROVIDED FOR EACH CRITICAL SECTION WHICH DEMONSTRATES THE REQUIRED CAPACITY TO DEMAND RATIO IS MET UTILIZING THE DESIGN PARAMETERS PROVIDED. INTERNAL STABILITY CALCULATIONS SHALL INCLUDE CHECKS FOR NAIL TENSILE STRENGTH, NAIL PULLOUT RESISTANCE, AND ALL RELEVANT STRUCTURAL FACING STABILITY CHECKS.

LOAD COMBINATIONS STRENGTH I, EXTREME EVENT I, AND SERVICE I AS GIVIN IN TABLE 5.2 OF PUBLICATION FHWA-NHI-14-007/FHWA GEC 007 SOIL NAIL WALLS REFERENCE MANUAL, FEBRUARY 2015, SHALL BE EVALUATED

NOTE REGARDING CONSTRUCTION SLOPES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE EXCAVATION IN ACCORDANCE WITH OSHA AND OTHER APPLICABLE STATE AND LOCAL REGULATIONS REGARDING CONSTRUCTION SLOPES AND TRENCHES. IN ADDITION TO FOLLOWING APPLICABLE REGULATORY REQUIREMENTS, AS A MINIMUM REQUIREMENT, ALL TEMPORARY CONSTRUCTION SLOPES SHALL BE PLACED AT A MAXIMUM INCLINATION OF A 2:1 IN SOIL AND SHALL NOT BE LEFT OPEN WITHOUT SHORING FOR ANY LONGER THAN ABSOLUTELY NECESSARY. THE CONTRACTOR BUILDING THE WALL SHALL ENSURE THAT THESE TEMPORARY BACK SLOPES ARE NOT AND DO NOT BECOME UNSTABLE. IF A TEMPORARY SLOPE IS UNSTABLE, BECOMES UNSTABLE, IS CUT STEEPER THAN A 2:1 INCLINATION OR IS UNACCEPTABLE FOR ANOTHER REASON, THEN TEMPORARY SHORING SHALL BE USED. ANY UNUSUAL SOIL CONDITIONS OTHER THAN THOSE ASSUMED SHOULD BE REPORTED TO THE PROJECT ENGINEER.

TABLE 1-DESIGN REQUIREMENTS AND PARAMETERS

DESCRIPTION	SOIL NAIL WALLS
DESIGN LIFE	75 YEARS

SEISMIC ACCELERATION COEFFICIENTS

As	0.198
S_{DS}	0.398
S_{D1}	0.165

DESIGN BASIS

SOIL NAIL WALL DESIGN PARAMETERS	SEE TABLE 2 & 3
SOIL NAIL WALL RESISTANCE PARAMETERS	SEE TABLE 2 & 3

RESISTANCE FACTORS

BASAL HEAVE: PERMANENT WALL, SHORT TERM ϕ_{BH}	0.65	
BASAL HEAVE: PERMANENT WALL, LONG TERM ϕ_{BH}	0.50	
	STATIC	SEISMIC
PULLOUT RESISTANCE ϕ_{PO}	0.65	0.65
TENSILE RESISTANCE OF TENDON: GRADES 60/75 ϕ_T	0.75	0.75
TENSILE RESISTANCE OF TENDON: GRADES 95/150 ϕ_T	0.65	0.65
FLEXURE RESISTANCE FACING INITIAL AND FINAL	0.90	0.90
PUNCHING SHEAR AT FACING INITIAL AND FINAL	0.90	0.90
LATERAL SLIDING ϕ_{LS}	1.00	0.90
HEADED STUD IN TENSION: A307 STEEL BOLT	0.70	0.65
HEADED STUD IN TENSION: A325 STEEL BOLT	0.80	0.75

OTHER DESIGN REQUIREMENTS

DESIGN PARAMETERS FOR WALL 4D ARE NOTED ON TABLE 1 (THIS SHEET) AND ON THE WALL PROFILE VIEW SHEET.

ALL WALL ELEMENTS SHALL BE WITHIN TDOT ROW.

ALL CONSTRUCTION MUST STAY WITHIN TDOT ROW.

THE WALL DESIGNER/CONTRACTOR'S WALL DESIGN PLANS SHALL INCLUDE DETAILS FOR DRAINAGE BEHIND THE WALL FACING.

THE SOIL NAIL WALL SHALL HAVE A PERMANENT STRUCTURAL CONCRETE WALL FACING CAPABLE OF RESISTING ALL DESIGN LOADS EXERTED ON THE WALL COMPONENTS BY THE RETAINED MATERIAL. THE MECHANISM CONNECTING THE SOIL NAILS TO THE STRUCTURAL CONCRETE FACING SHALL HAVE ADEQUATE CAPACITY TO TRANSMIT ALL LOADS FROM THE FACING, INCLUDING SELF WEIGHT, TO THE SOILS.

VERIFICATION TESTING SHALL BE PERFORMED ON A MINIMUM OF 2 "SACRIFICIAL" NAILS, IN ACCORDANCE WITH PUBLICATION FHWA-NH-14-007/FHWA GEC 007 SOIL NAIL WALLS REFERENCE MANUAL FEBRUARY 2015. THE LOCATION OF THE VERIFICATION TESTS SHALL BE SHOWN ON THE CONTRACTOR'S WALL DESIGN SHOP DRAWING SUBMITTAL

THE APPROVED DESIGN SHALL INCORPORATE THE DESIGN VALUES AND METHODOLOGY CONTAINED HEREIN. VERIFICATION TEST RESULTS HIGHER THAN THE VALUES PROVIDED SHALL NOT BE USED TO REVISE THE APPROVED WALL DESIGN. VERIFICATION TEST RESULTS THAT INDICATE A BOND STRENGTH LOWER THAN THE VALUES PROVIDED SHALL BE TAKEN INTO CONSIDERATION DURING CONSTRUCTION.

PROOF TESTING SHALL BE PERFORMED ON A MINIMUM OF 5 PERCENT OF THE TOTAL PRODUCTION NAILS INSTALLED, IN ACCORDANCE WITH PUBLICATION FHWA-NHI-14-007/FHWA GEC 007 SOIL NAIL WALLS REFERENCE MANUAL FEBRUARY 2015. PROOF TESTING LOCATIONS SHALL BE CHOSEN AT THE DISCRETION OF THE ENGINEER.

PROOF TEST RESULTS THAT ARE LOWER THAN THE DESIGN VALUES SHALL RESULT IN A REVIEW OF THE CONTRACTOR'S INSTALLATION METHODS AND/OR SOIL CONDITIONS. THE ENGINEER MAY REQUIRE THE INSTALLATION AND TESTING OF ADDITIONAL PROOF TEST NAILS TO VERIFY THE ADJACENT PREVIOUSLY INSTALLED PRODUCTION NAILS HAVE SUFFICIENT NOMINAL PULLOUT RESISTANCE INSTALLATION AND TESTING OF ADDITIONAL PROOF TEST NAILS AS A RESULT OF PROOF TEST NAIL FAILURE(S) SHALL BE AT NO ADDITIONAL COST. THE TEMPORARY UNBONDED TEST LENGTH IN PROOF TEST NAILS SHALL BE GROUTED IMMEDIATELY AFTER THE COMPLETION OF THE PROOF TEST.

CONSTRUCTION NOTES

ASSUME DRILLING THROUGH IN-PLACE BOULDERS REQUIRED FOR INSTALLATION OF SOIL NAILS.

EACH SOILD NAIL SHALL BE EXTENDED A MINIMUM EMBEDMENT LENGTH OF 38 FEET BEYOND THE WALL FACE OR SOCKETED A MINIMUM OF 10 FEET INTO BEDROCK, WHICHEVER IS GREATER.

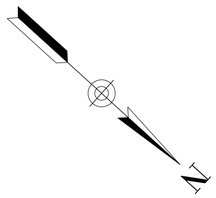
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL
4D
GEOTECHNICAL
DESIGN NOTES &
REQUIREMENTS

GES No. 3328118
VERSION 01/29/2024

4/14/2025 11:09:51 AM
T:\Chattanooga-1810\Projects\2019\1281-19-054B SR 8, 10 walls\4 - Drainage Retaining Walls\CAD Files\UPDATED G-Sheets 03-24-26\R-4-notes-128119054B_Geotech.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	R-4A



BEGIN WALL 4D
STA. 0+00=
STA. 838+59, 17.9' LT
SR-8 / SIGNAL MTN ROAD

END WALL 4D
STA. 0+60=
STA. 839+19, 18.8' LT
SR-8 / SIGNAL MTN ROAD

PROP.
WALL 4D

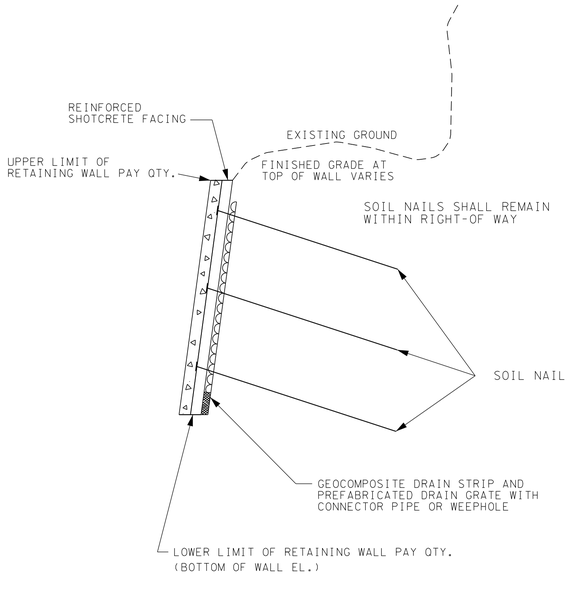
S-02

835 836 837 838 839 840 841

N 40° 32' 00" W

N 51° 31' 00" W

N 41° 53' 00" W



WALL 4D TYPICAL SECTION

SCALE: NTS

COORDINATES ARE NAD 83(2001), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOMETRIC LAYOUT RETAINING WALL 4D PLAN VIEW

SCALE: 1"=20'

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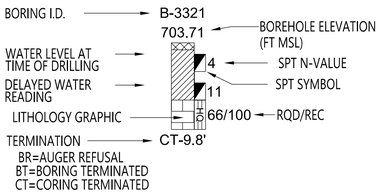
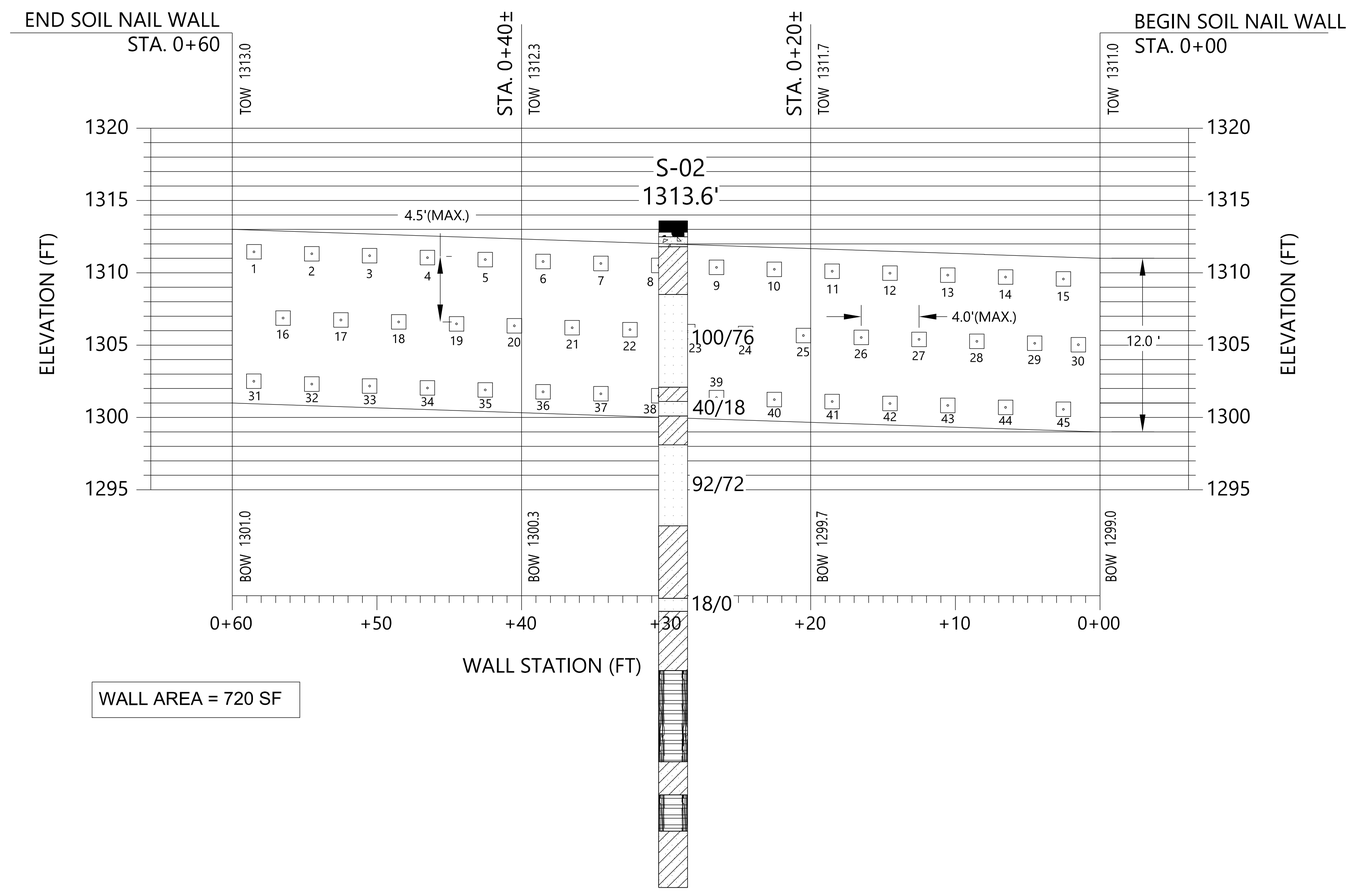
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	R-4B

LEGEND: BORING PROFILE SYMBOLS



SEE GEOTECHNICAL NOTES AND ESTIMATED QUANTITIES SHEET FOR DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS.



IN ORDER TO STAY WITHIN THE PERMANENT UNDERGROUND EASEMENT, MAXIMUM NAIL LENGTH SHALL NOT EXCEED 65 FEET AND TO SATISFY GLOBAL STABILITY REQUIREMENTS. A MINIMUM NAIL LENGTH OF 38 FEET, OR 10 FEET EMBEDMENT INTO COMPETENT ROCK, WHICHEVER IS GREATER IS REQUIRED. IN ADDITION, HORIZONTAL AND VERTICAL NAIL SPACING SHALL NOT EXCEED 4.0 FEET AND 4.5 FEET, RESPECTIVELY. THE NAILS ARE TO BE DESIGNED WITH A MINIMUM BAR DIAMETER OD 1.25 INCH.

TABLE 2-DESIGN PARAMETERS FOR SOIL NAIL WALL

STATION LIMITS	ELEVATION INTERVAL	MATERIAL	FRICTION ANGLE	COHESION	UNIT WEIGHT
838+59 TO 839+19	TOP OF WALL TO APPROX. 1306 FT	EXISTING FILL, CLAYEY SAND	29 DEGREES	100 PSF	115 PCF
838+59 TO 839+19	APPROX. 1306 FT TO BOTTOM OF WALL	EXISTING FILL, WITH BOULDERS	33 DEGREES	50 PSF	120 PCF
838+59 TO 839+19	TOP OF WALL TO BOTTOM OF WALL	WEATHERED SANDSTONE	35 DEGREES	500 PSF	158 PCF

TABLE 3-RESISTANCE PARAMETERS FOR SOIL NAIL WALL

STATION LIMITS	ELEVATION INTERVAL	MATERIAL	NOMINAL SOIL/GROUT BOND STRENGTH	UNCONFINED COMPRESSIVE STRENGTH	UNIT WEIGHT
838+59 TO 839+19	TOP OF WALL TO APPROX. 1306 FT	EXISTING FILL, CLAYEY SAND	7 PSI		115 PCF
838+59 TO 839+19	APPROX. 1306 FT TO BOTTOM OF WALL	EXISTING FILL, WITH BOULDERS	7 PSI		120 PCF
838+59 TO 839+19	TOP OF WALL TO BOTTOM OF WALL	WEATHERED SANDSTONE	29 PSI	5,000 PSI	158 PCF

GES No. 3328118
VERSION 01/29/2024

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL
4D
PROFILE VIEW
SCALE: 1"=5'

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TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8 (52)	
PS&E	2026	STP-8 (52)	S-1

SWPPP INDEX OF SHEETS

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NOTE: CITATIONS IN PARENTHESIS INDICATE SECTIONS OF THE CURRENT CGP.

1. SWPPP REQUIREMENTS (5.0.)

1.1. HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING LICENSING AND/OR CERTIFICATIONS (5.2)?

☒ YES (CHECK ALL THAT APPLY BELOW) OR ☐ NO

- ☐ CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC)
- ☒ A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
- ☒ HAS SUCCESSFULLY COMPLETED TDEC LEVEL II COURSE

1.2. DO THE EPSC PLANS INVOLVE STRUCTURAL DESIGN, HYDRAULIC, HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS FOR EPSC STRUCTURAL MEASURES (E.G. SEDIMENT BASINS) (5.2.)? YES ☐ NO ☒

IF YES, HAVE THE EPSC PLANS BEEN PREPARED, STAMPED AND CERTIFIED BY A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT? ☐ YES ☐ NO

1.3. DO THE PROJECT STORMWATER OUTFALLS DISCHARGE INTO THE FOLLOWING (6.4.1.)? ☐ YES (CHECK ALL THAT APPLY BELOW) ☒ NO

- ☐ WATERS WITH UNAVAILABLE PARAMETERS (303d FOR SILTATION)
- ☐ EXCEPTIONAL TENNESSEE WATERS (ETW)

2. SITE DESCRIPTION (5.5.1.)

2.1. PROJECT LIMITS (5.5.1.f): REFER TO TITLE SHEET

2.2. TOTAL PROJECT AREA (5.5.1.b): 30.618 ACRES

2.3. TOTAL AREA TO BE DISTURBED (5.5.1.b): 9.59 ACRES

2.4. PROJECT DESCRIPTION (5.5.1.a):

TITLE: State Route 8 (US-127) From State Route 27 (LM 13.96) to Palisades Drive (LM 17.01)
COUNTY: Hamilton
PIN: 124080.00

2.5. SITE MAP(S) (3.2.2.): REFER TO TITLE SHEET

2.6. DESCRIPTION OF EXISTING SITE TOPOGRAPHY (5.5.1.c): REFER TO EXISTING CONTOURS SHEET(S) 32-32M, DRAINAGE MAP SHEET(S) 19-19B, USGS QUAD MAP, AND THE OUTFALL TABLE IN SECTION 4.2.

2.7. MAJOR SOIL DISTURBING ACTIVITIES (5.5.1.a) (CHECK ALL THAT APPLY):

- ☒ CLEARING AND GRUBBING
- ☒ EXCAVATION
- ☒ CUTTING AND FILLING
- ☒ FINAL GRADING AND SHAPING
- ☒ UTILITIES
- ☐ OTHER (DESCRIBE): _____

2.8. NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT.

2.9. ARE THERE ANY SEASONAL LIMITATIONS ON WORK? ☐ YES ☒ NO

IF YES, LIST THE CORRESPONDING PLAN SHEET: _____

2.10. WAS ROW FINALIZED PRIOR TO FEBRUARY 1, 2010 (4.1.2.2)?

☐ YES _____ (DATE) ☒ NO

IF ROW WAS FINALIZED PRIOR TO FEBRUARY 1, 2010, THIS PROJECT IS CONSIDERED A PRE-APPROVED SITE (4.1.2.2)

2.11. SOIL PROPERTIES (5.5.1.d, 5.5.3.3.d, 5.5.3.6.b).

SOIL PROPERTIES FOR THE PRIMARY SOILS ARE LISTED IN THE TABLE BELOW.

SOIL PROPERTIES			
PRIMARY SOIL NAME	HSG	% OF SITE	ERODIBILITY (k value)
BuF – Bouldin-Gilpin complex	A	93.79	.2
RcF – Ramsey-Rock outcrop complex	D	0.65	.37
uEoC – Etowah silt loam	B	5.23	.37
uFtD – Fullerton gravelly silt loam	B	0.33	.28

2.12. IS ACID PRODUCING ROCK (APR) (i.e. PYRITE) LOCATED WITHIN THE PROJECT LIMITS? ☐ YES ☒ NO

2.12.1. IF YES TO SECTION 2.13, HAVE APR LOCATIONS BEEN IDENTIFIED WITHIN THE CONSTRUCTION PLANS AND/OR THE GEOTECHNICAL REPORT? ☐ YES ☐ NO; AND

2.12.2. IF YES TO SECTION 2.12.1, HAS A SPECIAL HANDLING PLAN AND/OR ADAPTIVE MANAGEMENT PLAN (AMP) BEEN PREPARED FOR THE PROJECT? ☐YES ☐ NO ☐ N/A (TDOT SP107L WILL BE APPLIED.)

2.13. PROJECT RUNOFF COEFFICIENTS AND AREA PERCENTAGES (5.5.3.6.a).

RUNOFF COEFFICIENTS FOR EXISTING CONDITIONS				
AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	12.43	40.6		0.9
PERVIOUS	18.18	59.4		0.33
WEIGHTED CURVE NUMBER OR C-FACTOR =				0.56

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS				
AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	13.44	43.9		0.9
PERVIOUS	17.17	56.1		0.36
WEIGHTED CURVE NUMBER OR C-FACTOR =				0.59

3. ORDER OF CONSTRUCTION ACTIVITIES (5.5.1.a)

CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO: MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION. NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF THEIR OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE ORDER OF CONSTRUCTION ACTIVITIES AND THE BASIC EPSC DEVICES DEPICTED ON THE EPSC PLAN CONTAINED WITHIN THE APPROVED SWPPP.

3.1. SPECIAL SEQUENCING REQUIREMENTS (SEE SHEETS 32, 33, & 34)

3.2. INSTALL STABILIZED CONSTRUCTION EXITS.

3.3. INSTALL PERIMETER PROTECTION WHERE RUNOFF SHEET FLOWS FROM THE SITE.

3.4. INSTALL INITIAL EPSC MEASURES BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CULVERT OR BRIDGE CONSTRUCTION, CUTTING, FILLING, OR ANY OTHER EARTHWORK OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.

3.5. PERFORM CLEARING AND GRUBBING (NOT MORE THAN TWO WEEKS PRIOR TO GRADING OR EARTH-MOVING. REFER TO THE STABILIZATION PRACTICES BELOW.).

3.6. REMOVE AND STORE TOPSOIL.

3.7. STABILIZE DISTURBED AREAS WITHIN 2 WEEKS OF COMPLETING ANY STAGE AND/OR PHASE OF ACTIVITY (STEEP SLOPES SHALL BE STABILIZED WITHIN 1 WEEK AFTER CONSTRUCTION ACTIVITY HAS TEMPORARY OR PERMANENTLY CEASED).

3.8. INSTALL UTILITIES, STORM SEWERS, CULVERTS AND CONCRETE DITCH PAVING.

3.9. INSTALL INLET AND CULVERT PROTECTION ONCE STRUCTURES ARE IN PLACE AND CAPABLE OF INTERCEPTING FLOW.

3.10. PERFORM FINAL GRADING AND INSTALL BASE STONE.

3.11. COMPLETE FINAL PAVING AND SEALING OF CONCRETE.

3.12. INSTALL TRAFFIC CONTROL AND PROTECTION DEVICES.

3.13. COMPLETE PERMANENT STABILIZATION (TOPSOIL, SEEDING, MULCH, EROSION CONTROL BLANKET, SOD, ETC.)

3.14. REMOVE TEMPORARY EROSION CONTROLS AND ACCUMULATED SEDIMENT FROM AREAS THAT HAVE ESTABLISHED AT LEAST 70 PERCENT UNIFORM PERMANENT VEGETATIVE COVER.

3.15. RE-STABILIZE AREAS DISTURBED BY REMOVAL ACTIVITIES.

4. STREAM, OUTFALL, WETLAND, TMDL AND ECOLOGY INFORMATION

4.1. STREAM INFORMATION (5.5.1.h, 5.5.1.i)

4.1.1. WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROLS IMPACT ANY STREAMS WITHIN THE PROJECT LIMITS? ☒ YES ☐ NO

IF YES, THE IMPACT(S) HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE WATER QUALITY PERMITS.

4.1.2. HAVE ANY OF THE RECEIVING STATE WATERS LESS THAN OR EQUAL TO 1 FLOW MILE DOWN GRADIENT OF THE PROJECT LIMITS BEEN CLASSIFIED BY TDEC AS FOLLOWS (CHECK ALL THAT APPLY):

- ☐ 303d WITH UNAVAILABLE PARAMETERS FOR SILTATION
- ☒ EXCEPTIONAL TENNESSEE WATERS (ETW)

4.1.3. RECEIVING WATERS OF THE STATE (5.5.1.h, 5.5.1.j, 5.5.1.k).

RECEIVING WATERS OF THE STATE INFORMATION					
TDOT STATE WATER LABEL FROM EBR	NAME OF RECEIVING STATE WATER	303d WITH UNAVAILABLE PARAMETERS FOR SILTATION (YES OR NO)	ETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
STR-1	TENNESSEE RIVER	NO	YES	NO	YES
STR-2	TENNESSEE RIVER	NO	YES	NO	YES
STR-3	TENNESSEE RIVER	NO	YES	NO	YES
STR-4	TENNESSEE RIVER	NO	YES	NO	YES
STR-6 (SHOAL CREEK)	TENNESSEE RIVER	NO	YES	NO	YES
STR-17	SHOAL CREEK	NO	NO	YES	YES

4.1.4. RECEIVING WATERS OF THE US (NON STATE WATERS) (4.1.2). LIST ANY FEATURE THAT IS IDENTIFIED AS A WET WEATHER CONVEYANCE (TDEC) AND IDENTIFIED AS WATERS OF THE US BY THE ARMY CORPS OF ENGINEERS.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8 (52)	
PS&E	2026	STP-8 (52)	S-2

WET WEATHER CONVEYANCES THAT ARE WATERS OF THE US		
TDOT STATE WATER LABEL FROM EBR	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
WWC-11	YES	YES
WWC-13	YES	YES

4.1.5. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WATERS OF THE STATE? (5.5.1.l, 6.4.2.)

☒ YES ☐ NO

BUFFER ZONE REQUIREMENTS ARE NOT REQUIRED FOR PRE-APPROVED SITES (4.1.2.2.)

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) 34C.

IF YES, CHECK THE APPROPRIATE BOX BELOW FOR SIZE OF BUFFER.

☐ 60-FEET FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS (ETW) (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 30-FEET).

A 60 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STATE STREAM WITH THIS DESIGNATION SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 60 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 30 FEET AT ANY MEASURED LOCATION. IF THE CONSTRUCTION SITE ENCOMPASSES BOTH SIDES OF A STREAM, BUFFER AVERAGING CAN BE APPLIED TO BOTH SIDES, BUT MUST BE APPLIED INDEPENDENTLY.

☒ 30-FEET FOR ALL OTHER STREAMS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 15-FEET).

A 30 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STATE STREAM SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 30 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION. IF THE CONSTRUCTION SITE ENCOMPASSES BOTH SIDES OF A STREAM, BUFFER AVERAGING CAN BE APPLIED TO BOTH SIDES, BUT MUST BE APPLIED INDEPENDENTLY.

☐ 15-FEET FOR ANY WET WEATHER CONVEYANCES IDENTIFIED AS WATERS OF THE US BY THE US ARMY CORPS OF ENGINEERS.

4.1.6. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES NOT REQUIRED FOR STATE WATERS DUE TO A TDEC ARAP? (1.5.2.)

☐ YES ☒ NO

4.1.7. ARE THERE WATER QUALITY RIPARIAN BUFFER ZONE EXEMPTIONS? (4.1.2.1.) ☐ YES ☒ NO

IF YES, EXISTING CONDITIONS DESCRIPTION:_____

4.1.8. EVERY ATTEMPT SHOULD BE MADE FOR CONSTRUCTION ACTIVITIES TO NOT TAKE PLACE WITHIN THE WATER QUALITY RIPARIAN BUFFER ZONE AND FOR EXISTING FORESTED AREAS TO BE PRESERVED. (4.1.2., 6.4.2.)

4.1.9. BECAUSE OF HEAVY SEDIMENT LOAD ASSOCIATED WITH CONSTRUCTION SITE RUNOFF, WATER QUALITY RIPARIAN BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE WATER QUALITY RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA.

4.1.10. WHERE IT IS NOT PRACTICABLE TO MAINTAIN A FULL WATER QUALITY RIPARIAN BUFFER, BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MUST BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CGP. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

4.2. OUTFALL INFORMATION

4.2.1. OUTFALL TABLE (5.5.1.c). SEE SWPPP SHEET S8-9 FOR OUTFALL INFORMATION.

4.2.2. HAVE ALL OUTFALLS BEEN LABELED ON THE EPSC PLAN SHEETS (5.5.1.f)? ☒ YES ☐ NO

4.2.3. HAVE ALL OUTFALLS BEEN LABELED ON A USGS TOPOGRAPHIC MAP INCLUDED IN THE "DOCUMENTATION AND PERMITS" BINDER (3.2.2.)? ☒YES ☐ NO

4.2.4. WHERE POSSIBLE, HAS NON-PROJECT RUN-ON BEEN DIVERTED AROUND OR THROUGH THE PROJECT TO ELIMINATE CONTACT WITH DISTURBED AREAS OF THE PROJECT AND SEPARATE IT FROM PROJECT RUN-OFF THEREBY REDUCING THE DRAINAGE AREA OF TO THE OUTFALLS IN THIS AREA?

☒ YES ☐ NO ☐ N/A

4.2.5. ARE EQUIVALENT MEASURES BEING SUBSTITUTED FOR A SEDIMENT BASIN(S) OR SEDIMENT TRAP(S)? (5.5.3.5.)

☒ YES ☐ NO ☐ N/A

4.2.6. A SEDIMENT BASIN, OR EQUIVALENT MEASURE(S) WILL BE PROVIDED FOR ANY OUTFALL IN A DRAINAGE AREA:

OF TEN ACRES OR MORE FOR AN OUTFALL(S) THAT DOES NOT DISCHARGE TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS (ETW). A TEMPORARY (OR PERMANENT) SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MINIMUM 2-YEAR/ 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL PERMANENT STABILIZATION OF THE SITE. (5.5.3.5)

OR

OF FIVE ACRES OR MORE FOR AN OUTFALL(S) THAT DISCHARGES TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS (ETW). A TEMPORARY (OR PERMANENT) SEDIMENT BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/ 24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL PERMANENT STABILIZATION OF THE SITE. (6.4.1.e).

ALL CALCULATIONS RELATED TO DRAINAGE AREAS, RUNOFF COEFFICIENTS, BASIN VOLUMES AND EQUIVALENT CONTROL MEASURES MUST BE PROVIDED IN THE SWPPP (5.5.3.5.)

4.2.7. A SEDIMENT TRAP, OR EQUIVALENT MEASURE(S) WILL BE PROVIDED FOR ANY OUTFALL IN A DRAINAGE AREA:

OF 3.5 - 4.9 ACRES FOR AN OUTFALL(S) THAT DISCHARGES TO A STATE STREAM WITH UNAVAILABLE PARAMETERS (303d SILTATION) OR EXCEPTIONAL TENNESSEE WATERS (ETW). A SEDIMENT TRAP THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL PERMANENT STABILIZATION OF THE SITE. (6.4.1.f).

IN BOTH INSTANCES, THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.

4.2.8. SEDIMENT STRUCTURES TREATING DRAINAGE AREAS IN EXCESS OF 25 ACRES REQUIRE A SITE-SPECIFIC DESIGN THAT ACCURATELY DEFINES THE SITE HYDROLOGY, SITE-SPECIFIC SEDIMENT LOADING, HYDRAULICS OF THE SITE, AND ADHERES TO ALL TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK DESIGN RECOMMENDATIONS FOR SEDIMENT BASINS. (5.5.3.5.)

4.3. WETLAND INFORMATION

WILL CONSTRUCTION AND/OR EROSION AND SEDIMENT CONTROLS IMPACT ANY WETLANDS? ☐ YES ☒ NO

IF YES, THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND IN THE WATER QUALITY PERMITS.

WETLAND INFORMATION				
TDOT WETLAND LABEL	FROM STATION LT OR RT	TO STATION LT OR RT	TEMPORARY IMPACTS (AC)	PERMANENT IMPACTS (AC)
N/A				

4.4. TOTAL MAXIMUM DAILY LOADS (TMDL) INFORMATION (1.3.j)

4.4.1. IS THIS PROJECT LOCATED IN A HUC-8 WATERSHED THAT MAINTAINS AN EPA APPROVED TMDL FOR SILTATION AND HABITAT ALTERATION?

☐YES ☒ NO

4.4.2. IF YES, IS THIS PROJECT LOCATED WITHIN A HUC-12 SUBWATERSHED WITH A WASTE LOAD ALLOCATION (WLA)?

☐ YES ☐ NO

4.4.3. IF YES, DOES THE PROJECT HAVE A DIRECT DISCHARGE TO A 303(d) LISTED STREAM FOR SILTATION?

☐ YES ☐ NO

IF YES, SWPPP INCORPORATES MEASURES OR CONTROLS CONSISTENT WITH THE ASSUMPTIONS AND REQUIREMENTS OF THE TMDL.

4.5. ECOLOGY INFORMATION (3.5.5.e)

DOES THE TDOT ENVIRONMENTAL BOUNDARIES REPORT SPECIFY SPECIAL NOTES TO BE ADDED TO THE PLAN SHEETS?

☐ YES ☒ NO

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) _____.

4.6. ENVIRONMENTAL COMMITMENTS

ARE THERE ANY NOTES ON THE ENVIRONMENTAL COMMITMENT SHEET?

☐ YES ☒ NO

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) _____.

5. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES (5.5.3.)

5.1. EPSC MEASURES MUST BE DESIGNED, INSTALLED AND MAINTAINED TO CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE EROSION (4.1.1).

5.2. EPSC MEASURES MUST CONTROL STORMWATER DISCHARGES, INCLUDING BOTH PEAK FLOWS AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS, STREAM CHANNELS, AND STREAM BANKS. (4.1.1)

5.3. HAVE THE CONTROL MEASURES BEEN DESIGNED PER THE SIZE AND SLOPE OF THE DISTURBED DRAINAGE AREA (5.5.3.5.)?

☒YES ☐ NO

5.4. THE CONTROL MEASURES HAVE, AT A MINIMUM, BEEN DESIGNED FOR THE 2-YEAR, 24 HOUR STORM EVENT (5.5.3.5., 6.4.1.b).

5.5. ARE THE LIMITS OF DISTURBANCE CLEARLY MARKED ON THE EPSC PLANS (5.5.1.f)? ☒ YES ☐ NO

5.6. AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.

5.7. UNLESS OTHERWISE NOTED IN THE PLANS, THE CONTRACTOR SHALL NOT CLEAR/DISTURB ANY AREA BEYOND 15 FEET FROM SLOPE LINES OR ROW/ EASEMENT LINE, WHICHEVER IS LESSER.

5.8. CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION, INCLUDING STREAM AND WETLAND BUFFERS (UNLESS PERMITTED), SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.

5.9. HAS A THREE-STAGED EPSC PLAN BEEN PREPARED FOR THE PROJECT (5.5.2.)?

YES ☒ NO ☐

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DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8 (52)	
PS&E	2026	STP-8 (52)	S-3

PLEASE NOTE THAT A THREE STAGED EPSC PLAN IS REQUIRED FOR ALL TDOT PROJECTS FOR WHICH AN NPDES PERMIT IS REQUIRED.

5.10. STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF HEIGHT. HAVE STEEP SLOPES BEEN MINIMALLY DISTURBED AND/OR PROTECTED BY CONVEYING RUNOFF NON-EROSIVELY AROUND OR OVER THE SLOPE (5.5.3.4.) (10. "STEEP SLOPE")? ☒ YES ☐ NO ☐ N/A

5.11. THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE AQUATIC RESOURCE ALTERATION (ARAP) PERMIT OR SECTION 401 CERTIFICATION (5.5.1.h). REFER TO THE LIST OF APPLICABLE ENVIRONMENTAL PERMITS LOCATED ON SWPPP SHEET S-7. ALL PERMITS WILL BE MAINTAINED ON SITE WITHIN THE "DOCUMENTATION AND PERMITS" BINDER.

5.12. THE EPSC CONTROL MEASURES LISTED IN THE QUANTITIES TABLE ON SHEET 31 HAVE BEEN SELECTED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES (5.1., 5.5.3.1.b, 5.5.3.5.).

5.13. EPSC MEASURES SHALL BE INSTALLED PER TDOT STANDARDS (i.e., STANDARD DRAWINGS) AND SHALL BE FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS.

5.14. EPSC MEASURES WILL NOT BE INSTALLED WITHIN A STREAM WITHOUT FIRST OBTAINING APPROVAL FROM THE PERMITS SECTION.

5.15. TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY BUT MUST BE REINSTALLED AT THE END OF THE WORKDAY OR BEFORE A PRECIPITATION EVENT.

5.16. EPSC MEASURES LOCATED IN WOTUS (EPHEMERAL STREAMS) MUST BE CONSIDERED TEMPORARY AND SHALL BE REMOVED AT THE END OF CONSTRUCTION.

5.17. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT OFF THE PROJECT LIMITS (E.G. R.O.W., EASEMENTS, ETC.), INTO WATERS OF THE STATE/U.S., OR ONTO ROADWAYS USED BY THE PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED TO A LEVEL SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT. SEDIMENT THAT MIGRATES INTO WATERS OF THE STATE/US SHALL NOT BE REMOVED WITHOUT GUIDANCE FROM TDOT ENVIRONMENTAL PERSONNEL.

5.18. OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION EXIT (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.

5.19. THE QUANTITIES REQUIRED FOR STABILIZED CONSTRUCTION EXITS PER TDOT STANDARDS HAVE BEEN SPECIFIED ON SHEET 31 (5.5.3.1.j).

5.20. DISCHARGES FROM DEWATERING ACTIVITIES ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS THAT PROVIDE THE LEVEL OF TREATMENT (FILTRATION) NECESSARY TO COMPLY WITH PERMIT REQUIREMENTS. (4.1.3.).

5.21. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT.

5.22. DISCHARGES FROM SEDIMENT BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE, WELL- VEGETATED AND/OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. (5.5.3.5.).

5.23. THE DEWATERING OF WORK AREAS, TRENCHES, FOUNDATIONS, EXCAVATIONS, ETC. THAT HAVE COLLECTED STORMWATER, WATER FROM VEHICLE WASH AREAS, OR GROUNDWATER SHALL BE EITHER HELD IN SETTLING BASINS OR TREATED BY FILTRATION AND/OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE. ALL CHEMICAL TREATMENTS MUST BE APPLIED PER SECTION 6 FLOCCULANTS.

5.24. WATER DISCHARGED FROM DEWATERING ACTIVITIES SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE. WATER MUST BE HELD WITHIN SETTLING BASINS UNTIL IT IS AT LEAST AS CLEAR AS THE RECEIVING WATERS.

5.25. DEWATERING STRUCTURES, SEDIMENT FILTER BAGS, SEDIMENT BASINS AND TRAPS SHALL NOT BE LOCATED CLOSER THAN 30 FEET (60 FEET DESIRABLE VEGETATIVE BUFFER) FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS (ETW) AND 15 FEET (30 FEET DESIRABLE VEGETATIVE BUFFER) FOR ALL OTHER FEATURES FROM THE TOP BANK OF A STREAM, WOTUS (EPHEMERAL), WETLAND OR OTHER NATURAL RESOURCE AND SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED.

5.26. STABILIZATION PRACTICES: PRE-CONSTRUCTION VEGETATIVE COVER WILL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 2 WEEKS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA WILL BE SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED (5.5.3.5.f).

5.27. STABILIZATION MEASURES WILL BE INITIATED AS SOON AS POSSIBLE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT STABILIZATION WILL BE COMPLETED WITHIN 2 WEEKS AFTER ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED IN THAT AREA. PERMANENT STABILIZATION WILL REPLACE TEMPORARY MEASURES AS SOON AS PRACTICABLE (5.5.3.4.).

5.28. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE

5.29. DELAYING THE PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.

5.30. STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 1 WEEK AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. (5.5.3.4.).

6. FLOCCULANTS (3.5.3.1.b)

IS ADDITIONAL PHYSICAL OR CHEMICAL TREATMENT OF STORMWATER RUNOFF NECESSARY (5.5.3.5.)? ☐ YES ☒ NO

IF YES, THE FOLLOWING NOTES APPLY:

6.1. ENSURE THE FLOCCULANT EMULSIONS AND POWDERS ARE OF THE ANIONIC TYPE (5.5.3.5.). AND MEET THE FOLLOWING REQUIREMENTS:

6.1.1. MEETS THE EPA AND FDA ACRYLAMIDE MONOMER LIMITS OF EQUAL TO OR GREATER THAN 0.005% ACRYLAMIDE MONOMER.

6.1.2. HAS A DENSITY OF 10% TO 55% BY WEIGHT AND A MOLECULAR WEIGHT OF 16 TO 24 MG/MOLE (MILLIGRAM PER MOLE).

6.1.3. MIXTURE IS NON-COMBUSTIBLE.

6.1.4. CONTAINS ONLY MANUFACTURER'S RECOMMENDED ADDITIVES.

6.2. FLOCCULANT SHALL BE MIXED AND APPLIED IN ACCORDANCE WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) MATERIAL SAFETY DATA SHEET REQUIREMENTS AND THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIED USES CONFORMING TO ALL FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS.

6.3. ALL VENDORS AND SUPPLIERS OF FLOCCULANT BLENDS SHALL PRESENT OR SUPPLY A WRITTEN TOXICITY REPORT WHICH VERIFIES ACCEPTABLE TOXICITY PARAMETERS WHICH MEET OR EXCEED THE EPS REQUIREMENTS FOR THE STATE AND FEDERAL WATER QUALITY STANDARDS. WHOLE EFFLUENT TESTING DOES NOT MEET THIS REQUIREMENT AS PRIMARY REACTIONS HAVE OCCURRED AND TOXIC POTENTIALS HAVE BEEN REDUCED. CATIONIC FORMS OF FLOCCULANTS ARE NOT ALLOWED UNDER THIS SECTION DUE TO HIGH LEVELS OF TOXICITY TO AQUATIC ORGANISMS. FLOCCULANT EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS DUE TO SURFACTANT TOXICITY. THE CONTRACTOR MUST SEEK THE APPROVAL OF THE EPSC DESIGN ENGINEER AND TDOT IF CHITOSAN IS PROPOSED FOR THIS PROJECT.

6.4. ALL VENDORS AND SUPPLIERS OF FLOCCULANT BLENDS SHALL SUPPLY WRITTEN "SITE SPECIFIC" TESTING RESULTS DEMONSTRATING A PERFORMANCE OF 95% OR GREATER REDUCTION OF NTU OR TSS FROM STORMWATER DISCHARGES.

6.5. EMULSION BATCHES SHALL BE MIXED FOLLOWING RECOMMENDATIONS OF THE TESTING LABORATORY THAT DETERMINES THE PROPER PRODUCT AND RATE TO MEET SITE REQUIREMENTS. APPLICATION METHODS SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA. EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN BUFFERS.

6.6. FLOCCULANT POWDER MAY BE APPLIED BY A HAND OR MECHANICAL SPREADER. MIXING OF THE FLOCCULANT POWDER WITH DRY SILICA SAND WILL AID IN SPREADING.

6.7. PREMIXING OF FLOCCULANT POWDER INTO FERTILIZER, SEED, OR OTHER SOIL AMENDMENTS IS ALLOWED WHEN SPECIFIED IN THE DESIGN PLAN. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA.

6.8. FLOCCULANT LOGS OR BLOCKS SHALL BE APPLIED FOLLOWING SITE TESTING RESULTS TO ENSURE PROPER PLACEMENT AND PERFORMANCE AND SHALL MEET OR EXCEED STATE AND FEDERAL WATER QUALITY REQUIREMENTS.

6.9. DO NOT APPLY FLOCCULANTS DIRECTLY TO, OR WITHIN 60 FEET, OF ANY STREAMS, WETLANDS, OR OTHER NATURAL WATER RESOURCE LOCATED ON OR ADJACENT TO THE CONSTRUCTION SITE. DO NOT APPLY FLOCCULANTS DIRECTLY INTO WATERS CONTAINED WITHIN SEDIMENT PONDS OR TO SLOPES THAT PRODUCE RUNOFF DIRECTLY INTO A STREAM, WETLAND, OR OTHER NATURAL WATER RESOURCE. DO NOT APPLY FLOCCULANTS IMMEDIATELY AT A STORMWATER OUTFALL WHERE RUNOFF LEAVES THE PROJECT LIMITS.

7. UTILITY RELOCATION

ARE UTILITIES INCLUDED IN THE CONTRACT? ☒ YES ☐ NO

IF YES, THE FOLLOWING APPLY:

7.1. STORMWATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND TREATED PRIOR TO DISCHARGE.

7.2. SILT FENCE SHALL BE INSTALLED ON THE DOWNGRADIENT SIDE OF STOCKPILED SOIL. ANY TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING DRY CONDITIONS, REMOVED AND STABILIZED BY THE END OF THE WORK DAY.

7.3. UTILITY CROSSINGS IN ENVIRONMENTAL FEATURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. ENVIRONMENTAL PERMITS APPLY TO UTILITIES IN THIS PROJECT. THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS.

7.4. IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR TO PROTECT EXPOSED EARTH FROM EROSION AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE EPSC MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME, SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.

7.5. FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN FOURTEEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EPSC MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL THE TRENCH IS BACKFILLED.

7.6. IN REGARDS TO EPSC, TDEC REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS ON THIS PROJECT. THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT.

7.7. TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORMWATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EPSC MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.

7.8. FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EPSC MEASURES SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH PERMANENT VEGETATIVE COVER.

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7.9. THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS AS APPROVED BY THE TDOT RESPONSIBLE PARTY.

7.10. THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EPSC MEASURES TO REPLACE ONSITE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT ENGINEER BEFORE COMMENCING WORK.

7.11. FOR UTILITY CROSSINGS THAT UTILIZE HORIZONTAL DIRECTIONAL DRILLING THE FOLLOWING SHALL APPLY:

7.11.1. THE ENTRY AND EXIT POINTS SHALL BE AT LEAST 50 FEET FROM THE STREAM BANK OR WETLAND BOUNDARY.

7.11.2. THE DEPTH OF BORE BELOW THE STREAMBED IS SUFFICIENT TO PREVENT RELEASE OF DRILLING FLUID, BASED ON THE PARENT MATERIAL.

7.11.3. A SITE-SPECIFIC CONTINGENCY AND CONTAINMENT PLAN FOR INADVERTENT RELEASE OF DRILLING FLUID SHALL BE ESTABLISHED PRIOR TO COMMENCEMENT OF WORK. THIS PLAN SHALL BE SUBMITTED TO THE TDOT PROJECT ENGINEER AND THE TDOT ENVIRONMENTAL DIVISION PERMITS AND/OR COMPLIANCE AND FIELD SERVICES OFFICE FOR REVIEW AND APPROVAL.

8. MAINTENANCE AND INSPECTION

8.1. INSPECTION PRACTICES (5.5.3.9.)

8.1.1. PROJECT EPSC INSPECTORS AND ENGINEERS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE. AND/OR REPAIR OF EPSC MEASURES SHALL MEET ONE OF THE FOLLOWING REQUIREMENTS (5.5.3.10.):

8.1.1.1. SUCCESSFULLY COMPLETED THE TDOT EPSC INSPECTIONS TRAINING AND ANY RECERTIFICATION COURSE AS REQUIRED.

8.1.1.2. SUCCESSFULLY COMPLETED THE TDEC "LEVEL I - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL" COURSE AND ANY RECERTIFICATION COURSES AS REQUIRED.

8.1.1.3. BE A CURRENT TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT.

8.1.1.4. BE A CURRENT CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC).

8.1.1.5. SUCCESSFULLY COMPLETED TDEC "LEVEL II – DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY RECERTIFICATION COURSE AS REQUIRED.

8.1.2. THE TDOT CONSTRUCTION ENGINEER (OR THEIR DULY AUTHORIZED REPRESENTATIVE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT CONSTRUCTION ENGINEER OR THEIR DULY AUTHORIZED REPRESENTATIVE SHALL COMPLETE THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.

8.1.3. THE INSPECTOR SHALL CONDUCT PRE-CONSTRUCTION INSPECTIONS TO VERIFY AREAS THAT ARE NOT TO BE DISTURBED HAVE BEEN MARKED IN THE SWPPP AND IN THE FIELD BEFORE LAND DISTURBANCE ACTIVITIES BEGIN AND INITIAL MEASURES HAVE BEEN INSTALLED (10 "INSPECTOR") (5.5.1.f).

8.1.4. EPSC CONTROLS SHALL BE INSPECTED TO VERIFY MEASURES HAVE BEEN INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS, SPECIFICATIONS, AND GOOD ENGINEERING PRACTICES. EPSC INSPECTIONS SHALL BE DOCUMENTED ON THE TDOT EPSC INSPECTION REPORT FORM AND THE TDEC CONSTRUCTION STORMWATER INSPECTION CERTIFICATION (TWICE-WEEKLY INSPECTIONS) FORM.

8.1.5. OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING STATE WATERS, WOTUS (EPHEMERAL), WETLANDS, OTHER NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.

8.1.6. INSPECTIONS WILL BE CONDUCTED AT LEAST TWICE EVERY CALENDAR WEEK AND AT LEAST 72 HOURS APART (5.5.3.11.a). A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE INSPECTIONS OF TDOT EPSC, NPDES AND WATER QUALITY PERMIT REQUIREMENTS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE.

8.1.7. THE FREQUENCY OF EPSC INSPECTIONS MAY BE REDUCED TO ONCE A MONTH WHERE SITES OR PORTIONS OF SITES HAVE BEEN TEMPORARILY STABILIZED UNTIL CONSTRUCTION ACTIVITIES RESUME WITH WRITTEN NOTIFICATION BY THE TDOT REGIONAL ENGINEER TO TDEC NASHVILLE CENTRAL OFFICE AND SUBSEQUENT TDEC APPROVAL. WRITTEN NOTIFICATION MUST INCLUDE THE INTENT TO CHANGE FREQUENCY AND JUSTIFICATION (5.5.3.11.a).

8.1.8. ALL DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN PERMANENTLY STABILIZED, AREAS USED FOR MATERIAL STORAGE THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL WILL BE INSPECTED (5.5.3.11.b).

8.1.9. THE INSPECTOR WILL OVERSEE THE REQUIREMENTS OF OTHER CONSTRUCTION-RELATED WATER QUALITY PERMITS (I.E. TDEC ARAP, USACE SECTION 404, AND TVA SECTION 26a PERMITS) FOR CONSTRUCTION ACTIVITIES AROUND WATERS OF THE STATE (10 "INSPECTOR").

8.1.10. THE SWPPP WILL BE REVISED AS NECESSARY BASED ON THE RESULTS OF THE INSPECTION. REVISION(S) WILL BE RECORDED WITHIN 1 WEEK OF THE INSPECTION. REVISION(S) WILL BE IMPLEMENTED WITHIN 2 WEEKS OF THE INSPECTION (5.5.3.11.e AND 5.5.3.11.f).

8.1.11. DOCUMENTATION OF INSPECTIONS WILL BE MAINTAINED ON SITE IN THE "DOCUMENTATION AND PERMITS" BINDER. REPORTS WILL BE SUBMITTED TO THE TDOT PROJECT ENGINEER PER THE CONTRACT.

8.1.12. THESE INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS OF THE SITE THAT HAVE MET PERMANENT STABILIZATION REQUIREMENTS AND HAVE BEEN NOTED IN THE SWPPP.

8.1.13. TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES (5.5.3.11.h).

8.2. DULY AUTHORIZED REPRESENTATIVE (8.7.3.)

THE PROJECT ENGINEER MAY DELEGATE AN INDIVIDUAL AND/OR CONSULTANT TO SIGN EPSC INSPECTIONS REPORTS. FOR SATISFYING SIGNATORY REQUIREMENTS FOR EPSC INSPECTION REPORTS, THE PROJECT ENGINEER AND NEWLY AUTHORIZED INDIVIDUAL ACCEPTING RESPONSIBILITY MUST COMPLETE AND SIGN THE TDOT CONSTRUCTION DIVISION EPSC DELEGATION OF AUTHORITY.

8.3. MAINTENANCE PRACTICES (5.1 AND 8.13.)

8.3.1. ALL CONTROLS WILL BE MAINTAINED IN GOOD AND EFFECTIVE OPERATING ORDER AND IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES. (5.1. AND 5.5.3.1.b)

8.3.2. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

8.3.3. UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE, MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE 24-HOUR TIMEFRAME, WRITTEN DOCUMENTATION PROVIDED BY THE CONTRACTOR SHALL BE PLACED IN THE FIELD DIARY AND EPSC INSPECTION REPORT. AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION. (5.5.3.11.e).

8.3.4. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES (SEDIMENT TRAPS, SILT FENCE, SEDIMENT BASINS, OTHER CONTROLS, ETC.) WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). (5.5.3.1.d).

8.3.5. DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE EPSC MEASURES AT THE CONTRACTOR'S OWN EXPENSE.

8.3.6. CHECK DAMS WILL BE INSPECTED FOR STABILITY. SEDIMENT WILL BE REMOVED WHEN DEPTH REACHES ONE-HALF (½) THE HEIGHT OF THE DAM.

8.3.7. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS, DOES NOT MIGRATE INTO FEATURES REMOVED FROM, AND DOES NOT MIGRATE ONTO ADJACENT PROPERTIES AND/OR INTO WATERS OF THE STATE/U.S.

8.3.8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFF THE SITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EROSION CONTROL WILL BE REMOVED (5.5.3.7.a).

8.3.9. ALL SEEDED AREAS WILL BE CHECKED FOR BARE SPOTS, EROSION WASHOUTS, AND VIGOROUS GROWTH FREE OF SIGNIFICANT WEED INFESTATIONS.

9. SITE ASSESSMENTS (5.5.3.8.)

QUALITY ASSURANCE SITE ASSESSMENTS OF EROSION PREVENTION AND SEDIMENT CONTROLS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE GUIDELINES.

10. STORMWATER MANAGEMENT (5.5.3.11.h)

10.1. STORMWATER MANAGEMENT WILL BE HANDLED BY TEMPORARY CONTROLS OUTLINED IN THIS SWPPP AND ANY PERMANENT CONTROLS NEEDED TO MEET PERMANENT STORMWATER MANAGEMENT NEEDS IN THE POST CONSTRUCTION PERIOD. PERMANENT CONTROLS WILL BE DEPICTED ON THE PLANS AND NOTED AS PERMANENT.

10.2. DESCRIBE ANY SPECIFIC POST-CONSTRUCTION MEASURES THAT WILL CONTROL VELOCITY, POLLUTANTS, AND/OR EROSION (5.5.3.6.c): 34-34L.

10.3. OTHER ITEMS NEEDING CONTROL (5.5.3.7.)

CONSTRUCTION MATERIALS: THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON THE SITE DURING THE CONSTRUCTION PERIOD. (CHECK ALL THAT APPLY).

☒ LUMBER, GUARDRAIL, TRAFFIC CONTROL DEVICES
☒ CONCRETE WASHOUT
☒ PIPE CULVERTS (I.E. CONCRETE, CORRUGATED METAL, HDPE, ETC.)
☒ MINERAL AGGREGATES, ASPHALT
☒ EARTH
☒ LIQUID TRAFFIC STRIPING MATERIALS, PAINT
☒ ROCK
☒ CURING COMPOUND
☐ EXPLOSIVES
☐ OTHER _____

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

10.4. WASTE MATERIALS (5.5.3.7.c)

WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH THE TDOT CONSTRUCTION CONTRACT AND FEDERAL AND STATE REGULATIONS. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S) CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.

10.5. HAZARDOUS WASTE (5.5.3.7.c) (8.8)

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S ON-SITE

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REPRESENTATIVE WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.

10.6. SANITARY WASTE (5.5.3.7.b)

PORTABLE SANITARY FACILITIES WILL BE PROVIDED ON ALL CONSTRUCTION SITES. SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY LOCAL REGULATIONS. THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.

10.7. OTHER MATERIALS

THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON THE SITE DURING THE CONSTRUCTION PERIOD. (CHECK ALL THAT APPLY).

☒ FERTILIZERS AND LIME

☒ PESTICIDES AND/OR HERBICIDES

☒ DIESEL AND GASOLINE

☒ MACHINERY LUBRICANTS (OIL AND GREASE)

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

11. NON-STORMWATER DISCHARGES (5.5.3.12.)

11.1. THE FOLLOWING NON-STORMWATER DISCHARGES ARE ANTICIPATED DURING THE CONSTRUCTION OF THIS PROJECT (CHECK ALL THAT APPLY):

☒ DEWATERING OF WORK AREAS OF COLLECTED STORMWATER AND GROUND WATER.

☐ WATERS USED TO WASH VEHICLES (OF DUST AND SOIL) WHERE DETERGENTS ARE NOT USED AND DETENTION AND/OR FILTERING IS PROVIDED BEFORE THE WATER LEAVES THE SITE.

☐ WATER USED TO CONTROL DUST. (3.5.3.1.n)

☐ POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHING FROM WHICH CHLORINE HAS BEEN REMOVED TO THE MAXIMUM EXTENT PRACTICABLE.

☐ UNCONTAMINATED GROUNDWATER OR SPRING WATER.

☒ FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH POLLUTANTS.

☐ OTHER: _____

11.2. ALL ALLOWABLE NON-STORMWATER DISCHARGES WILL BE DIRECTED TO STABLE DISCHARGE STRUCTURES PRIOR TO LEAVING THE SITE. FILTERING OR CHEMICAL TREATMENT MAY BE NECESSARY PRIOR TO DISCHARGE. ALL CHEMICAL TREATMENTS MUST BE APPLIED PER SECTION 6 FLOCCULANTS.

11.3. THE DESIGN OF ALL IMPACTED EPSC MEASURES RECEIVING FLOW FROM ALLOWABLE NON-STORMWATER DISCHARGES MUST BE DESIGNED TO HANDLE THE VOLUME OF THE NON-STORMWATER COMPONENT.

11.4. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS WILL NOT BE PERMITTED ON-SITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.

11.5. ARE ANY DISCHARGES ASSOCIATED WITH INDUSTRIAL (NON-CONSTRUCTION STORMWATER) ACTIVITY EXPECTED (5.5.1.g)?

☐ YES ☒ NO

IF YES, SPECIFY THE LOCATION OF THE ACTIVITY AND ITS PERMIT NUMBER: _____

12. SPILL PREVENTION, MANAGEMENT AND NOTIFICATION (5.5.3.7.c, 6.1)

12.1. SPILL PREVENTION (5.5.3.7.c)

12.1.1. CONTRACTOR'S BULK FUEL AND PETROLEUM PRODUCTS STORED ON-SITE OR ADJACENT TO THE R.O.W. IN ABOVE GROUND STORAGE TANKS WITH AGGREGATE STORAGE CAPACITY IN EXCESS OF 1,320 GALLONS SHALL HAVE SECONDARY CONTAINMENT.

12.1.2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN AS REQUIRED BY TDOT SPECIAL PROVISION 107FP (REGARDING WATER QUALITY AND STORM WATER PERMITS) AND THE LAW PRIOR TO STORING 1320 GALLONS ON SITE.

12.1.3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ANY NECESSARY LOCAL, STATE, AND FEDERAL PERMITS. THE SPCC PLAN AND/OR PERMITS SHALL BE KEPT ON-SITE AND A COPY PROVIDED TO THE TDOT CONSTRUCTION ENGINEER.

12.2. MATERIAL MANAGEMENT

12.2.1. HOUSEKEEPING

ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ON-SITE BY THE CONTRACTOR. EXCEPT FOR BULK MATERIALS THE CONTRACTOR WILL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING WILL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHEN POSSIBLE, ALL PRODUCTS WILL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFF SITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS WILL BE FOLLOWED. THE CONTRACTOR'S SITE SUPERINTENDENT WILL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL. DUST GENERATED WILL BE CONTROLLED IN AN ENVIRONMENTALLY SAFE MANNER. VEGETATION AREAS NOT ESSENTIAL TO THE CONSTRUCTION PROJECT WILL BE PRESERVED AND MAINTAINED AS NOTED ON THE PLANS.

12.2.2. HAZARDOUS MATERIALS

PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS UNLESS THE CONTAINER IS NOT RE-SEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS WILL BE RETAINED IN A SAFE PLACE TO RELAY IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S LABEL DIRECTIONS FOR DISPOSAL WILL BE FOLLOWED. MAINTENANCE AND REPAIR OF ALL EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, DE-GREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN THE ACCIDENTAL RELEASE OF CONTAMINANTS WILL BE CONDUCTED ON AN IMPERVIOUS SURFACE AND UNDER COVER DURING WET WEATHER TO PREVENT THE RELEASE OF CONTAMINANTS ONTO THE GROUND. WHEEL WASH WATER WILL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER WILL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM. POTENTIAL pH-MODIFYING MATERIALS SUCH AS: BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHINGS AND CURING WATERS, CONCRETE PUMPING, AND MIXER WASHOUT WATERS WILL BE COLLECTED ON SITE AND MANAGED TO PREVENT CONTAMINATION OF STORMWATER RUNOFF.

12.3. PRODUCT SPECIFIC PRACTICES

12.3.1. PETROLEUM PRODUCTS: ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.

12.3.2. FERTILIZERS: FERTILIZERS WILL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED BY TDOT. ONCE APPLIED, FERTILIZERS WILL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER. FERTILIZERS WILL BE STORED IN AN ENCLOSED AREA UNDER COVER. THE CONTENTS OF PARTIALLY USED FERTILIZER BAGS WILL BE TRANSFERRED TO SEALABLE CONTAINERS TO AVOID SPILLS.

12.3.3. PAINTS: ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. THE EXCESS WILL BE DISPOSED OF PER THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.

12.3.4. CONCRETE TRUCKS: CONTRACTORS WILL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED AND NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. UPON COMPLETION OF CONSTRUCTION WASHOUT AREAS WILL BE PROPERLY STABILIZED.

12.4. SPILL MANAGEMENT

IN ADDITION TO THE PREVIOUS HOUSEKEEPING AND MANAGEMENT PRACTICES, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP IF NECESSARY:

12.4.1. ALL ONSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANGE OF LEAKAGE AND SPILLS.

12.4.2. FOR ALL HAZARDOUS MATERIALS STORED ON SITE, THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP WILL BE CLEARLY POSTED. SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.

12.4.3. APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT WILL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE AND UNDER COVER. SPILL RESPONSE EQUIPMENT SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR AS NECESSARY TO REPLACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.

12.4.4. ALL SPILLS SHALL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

12.4.5. THE CONTRACTOR'S RESPONSIBLE PARTY WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND CLEANUP.

12.4.6. IF SPILLS REPRESENT AN IMMINENT THREAT OF ESCAPING THE SITE AND ENTERING RECEIVING WATERS, PERSONNEL WILL RESPOND IMMEDIATELY TO CONTAIN THE RELEASE AND NOTIFY THE SUPERINTENDENT AFTER THE SITUATION HAS BEEN STABILIZED.

12.4.7. IF AN OIL SHEEN IS OBSERVED ON SURFACE WATER (E.G. SETTLING PONDS, DETENTION PONDS, SWALES), ACTION WILL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR WILL USE APPROPRIATE MATERIALS TO CONTAIN AND ABSORB THE SPILL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE IDENTIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT FURTHER RELEASES.

12.4.8. IF A SPILL OCCURS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE TDOT PROJECT RESPONSIBLE PARTY. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

12.5. SPILL NOTIFICATION (6.1)

WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO, OR MORE THAN A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD:

12.5.1. THE TDOT PROJECT ENGINEER IS RESPONSIBLE FOR NOTIFYING THE REGIONAL PROJECT DEVELOPMENT OFFICE (E.G. TRANSPORTATION ENVIRONMENTAL STUDIES SPECIALIST) AS SOON AS HE OR SHE HAS KNOWLEDGE OF THE DISCHARGE.

12.5.2. THE TDOT REGIONAL PROJECT DEVELOPMENT OFFICE WILL NOTIFY THE LOCAL TDEC ENVIRONMENTAL FIELD OFFICE AND ANY OTHER APPLICABLE REGULATORY AGENCIES WITHIN 24 HOURS OF THE SPILL.

12.5.3. IN ADDITION TO ANY FOLLOW UP NOTIFICATIONS REQUIRED BY FEDERAL LAW, A WRITTEN DESCRIPTION OF THE RELEASE, DATE OF RELEASE AND CIRCUMSTANCES LEADING TO THE RELEASE, WHAT ACTIONS WERE TAKEN TO MITIGATE EFFECTS OF THE RELEASE, AND STEPS TAKEN TO MINIMIZE THE CHANCE OF FUTURE OCCURRENCES WILL BE SUBMITTED TO THE APPROPRIATE TDEC ENVIRONMENTAL FIELD OFFICE WITHIN 2 WEEKS OF KNOWLEDGE OF THE RELEASE.

12.5.4. THE SWPPP MUST BE MODIFIED WITHIN 2 WEEKS OF KNOWLEDGE OF THE RELEASE PROVIDING A DESCRIPTION OF THE RELEASE, CIRCUMSTANCES LEADING TO THE RELEASE, AND THE DATE OF RELEASE. THE SWPPP WILL BE REVIEWED AND MODIFIED AS NECESSARY TO IDENTIFY MEASURES TO PREVENT THE REOCCURRENCE OF SUCH RELEASES AND TO RESPOND TO SUCH RELEASES.

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DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8 (52)	
PS&E	2026	STP-8 (52)	S-6

13. RECORD-KEEPING

13.1. REQUIRED RECORDS

TDOT OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MAINTAIN AT THE SITE THE FOLLOWING RECORDS OF CONSTRUCTION ACTIVITIES (7.2.1.) (7.2.1.):

13.1.1. THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.

13.1.2. THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE.

13.1.3. THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.

13.1.4. RECORDS EPSC INSPECTION REPORTS AND CORRECTIVE MEASURES.

13.1.5. RECORDS OF QUALITY ASSURANCE SITE ASSESSMENTS.

13.1.6. COPY OF SITE EPSC INSPECTOR'S CERTIFICATION AND/OR LICENSING

13.1.7. A COPY OF ANY REGULATORY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS.

13.2. RAINFALL MONITORING PLAN (7.2.1.):

13.2.1. EQUIPMENT
AT A MINIMUM, THE CONTRACTOR WILL INSTALL A FENCE POST TYPE RAIN GAUGE TO MEASURE RAINFALL. THE STANDARD FENCE POST RAIN GAUGE WILL BE A WEDGE-SHAPED GAUGE THAT MEASURES UP TO 6 INCHES OF RAINFALL. AN ENGLISH SCALE WILL BE PROVIDED ON ONE FACE, WITH A METRIC SCALE ON THE OTHER FACE. GRADUATION WILL BE PERMANENTLY MOLDED IN DURABLE WEATHER-RESISTANT PLASTIC. THE MINIMUM GRADUATION WILL BE 0.01 INCH (OR 0.1MM). AN ALUMINUM BRACKET WITH SCREWS MAY BE USED TO MOUNT THE GAUGE ON A WOODEN SUPPORT.

13.2.2. LOCATION
THE RAIN GAUGE WILL BE LOCATED AT OR ALONG THE PROJECT SITE, AS DEFINED IN THE NOI OF THE NPDES PERMIT, IN AN OPEN AREA SUCH THAT THE MEASUREMENT WILL NOT BE INFLUENCED BY OUTSIDE FACTORS (I.E. OVERHANGS, GUTTER, TREES, ETC.). AT LEAST ONE RAIN GAUGE PER LINEAR MILE IS REQUIRED ALONG (AS MEASURED ALONG THE CENTERLINE OF THE PRIMARY ALIGNMENT) THE PROJECT WHERE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING IS ACTIVELY PERFORMED, OR EXPOSED SOIL HAS NOT YET BEEN PERMANENTLY STABILIZED.

13.2.3. METHODS
RAINFALL MONITORING WILL BE INITIATED PRIOR TO CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING, OR FILLING, EXCEPT AS SUCH MINIMAL CLEARING MAY BE NECESSARY TO INSTALL A RAIN GAUGE IN AN OPEN AREA. THE RAIN GAUGE WILL BE CHECKED FOR OPERATIONAL SOUNDNESS DAILY (DURING NORMAL BUSINESS HOURS) IN WET TIMES AND WEEKLY IN DRY TIMES. GAUGES WILL BE REPAIRED OR REPLACED ON THE SAME DAY IF FOUND TO BE NON-OPERATIONAL OR MISSING.

13.2.4. EACH RAIN GAUGE WILL BE READ (FOR DETAILED RECORDS OF RAINFALL) AND EMPTIED AFTER EVERY RAINFALL EVENT OCCURRING ON THE PROJECT SITE AT APPROXIMATELY THE SAME TIME OF THE DAY (DURING NORMAL BUSINESS HOURS). DURING PERIODS OF DRY CONDITIONS, IT WILL NOT BE NECESSARY TO READ THE RAIN GAUGE EVERY DAY. IN LIEU OF THIS REQUIREMENT ON WEEKENDS AND ON STATE HOLIDAYS, THE RAIN GAUGES CAN BE EMPTIED THE NEXT BUSINESS DAY AND A REFERENCE SITE USED FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION FOR THOSE DAYS. A REFERENCE SITE IS THE DOCUMENTATION FROM THE CLOSEST GAUGE WITHIN PROXIMITY OF THE PROJECT FROM A RECOGNIZED SOURCE SUCH AS THE NOAA NATIONAL WEATHER SERVICE.

13.2.5. DETAILED RECORDS WILL BE RECORDED OF RAINFALL EVENTS INCLUDE DATES, AMOUNTS OF RAINFALL, AND THE APPROXIMATE DURATION (OR THE STARTING AND ENDING TIMES). THE RAINFALL RECORDS SHALL BE RECORDED ON THE TDOT RAINFALL RECORD SHEET AND SHALL BE MAINTAINED IN THE "DOCUMENTATION AND PERMITS" BINDER.

13.2.6. IF THE RAINFALL EVENT IS STILL IN PROGRESS AT THE DAILY RECORDING TIME, THE GAUGE WILL BE EMPTIED AND THE RECORD WILL INDICATE THAT THE STORM EVENT WAS STILL IN PROGRESS.

13.2.7. RAIN GAUGE INFORMATION (DETAILED RECORDS), INCLUDING THE LOCATION OF THE NEAREST OUTFALL, WILL BE RECORDED ON THE EPSC INSPECTION REPORT FORMS AT THE TIME OF MEASUREMENT.

13.3. KEEPING PLANS CURRENT (5.4.)

13.3.1. THE EPSC PLAN IS TO SERVE AS AN INITIAL GUIDE FOR SITE PERSONNEL AS THE CONSTRUCTION PROCESS DEVELOPS. IT MUST BE AMENDED, MODIFIED, AND UPDATED WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL REGULATORY OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY.

13.3.2. THE STAGES DEPICTED WITHIN THE EPSC PLANS MAY NOT COINCIDE WITH THE ACTUAL STAGES OF CONSTRUCTION ESTABLISHED BY THE CONTRACTOR DURING CONSTRUCTION, THUS MODIFICATIONS WILL BE REQUIRED TO ENSURE THE EPSC PLAN IS MAINTAINED TO DEPICT CURRENT SITE CONDITIONS. IT SHOULD BE MAINTAINED SUCH THAT IT WILL ALWAYS REFLECT THE MEASURES THAT ARE INSTALLED DURING THE VARIOUS STAGES OF CONSTRUCTION. IT IS IMPRACTICAL TO DETERMINE ALL THE INTERMEDIATE STAGES OF CONSTRUCTION THAT WILL OCCUR, THUS THESE DOCUMENTS MUST BE UPDATED THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT.

13.3.3. THE TDOT EPSC INSPECTOR OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MODIFY AND UPDATE THE SWPPP WHEN ANY OF THE FOLLOWING CONDITIONS APPLY:

13.3.3.1. WHENEVER THERE IS A CHANGE IN THE SCOPE OF THE PROJECT THAT WOULD BE EXPECTED TO HAVE A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE STATE AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE SWPPP;

13.3.3.2. WHENEVER INSPECTIONS OR INVESTIGATIONS BY SITE OPERATORS, LOCAL, STATE, OR FEDERAL OFFICIALS INDICATE THE SWPPP IS PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM CONSTRUCTION ACTIVITY SOURCES, OR IS OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY; WHERE LOCAL, STATE, OR FEDERAL OFFICIALS DETERMINE THAT THE SWPPP IS INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES, A COPY OF ANY CORRESPONDENCE TO THAT EFFECT MUST BE RETAINED IN THE SWPPP;

13.3.3.3. WHEN ANY NEW OPERATOR AND/OR SUB-OPERATOR IS ASSIGNED OR RELIEVED OF THEIR RESPONSIBILITY TO IMPLEMENT A PORTION OF THE SWPPP;

13.3.3.4. TO PREVENT A NEGATIVE IMPACT TO LEGALLY PROTECTED STATE OR FEDERALLY LISTED OR PROPOSED THREATENED OR ENDANGERED AQUATIC FAUNA;

13.3.3.5. WHEN THERE IS A CHANGE IN CHEMICAL TREATMENT METHODS INCLUDING: USE OF DIFFERENT TREATMENT CHEMICALS, DIFFERENT DOSAGE OR APPLICATION RATES OR A DIFFERENT AREA OF APPLICATION NOT SPECIFIED ON THE EPSC PLANS.

13.3.3.6. ALL SWPPP REVISION(S) SHALL BE RECORDED WITHIN 1 WEEK BY THE PROJECT EPSC INSPECTOR.

13.3.3.7. WHEN A TMDL IS DEVELOPED FOR THE RECEIVING WATERS FOR A POLLUTANT OF CONCERN (SILTATION AND/OR HABITAT ALTERATION), CONSTRUCTION SHALL NOTIFY THE PERMITS SECTION FOR PROPER COORDINATION.

13.4. MAKING PLANS ACCESSIBLE

13.4.1. TDOT WILL RETAIN A COPY OF THIS SWPPP (INCLUDING A COPY OF THE "DOCUMENTATION AND PERMITS" BINDER AT THE CONSTRUCTION SITE (OR OTHER LOCATION ACCESSIBLE TO TDEC AND THE PUBLIC) FROM THE DATE CONSTRUCTION COMMENCES TO THE DATE OF PERMANENT STABILIZATION. TDOT WILL HAVE A COPY OF THE SWPPP AVAILABLE AT THE LOCATION WHERE WORK IS OCCURRING ON-SITE FOR THE USE OF OPERATORS AND THOSE IDENTIFIED AS HAVING RESPONSIBILITIES UNDER THE SWPPP WHENEVER THEY ARE ON THE CONSTRUCTION SITE (7.2.).

13.4.2. PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND UNTIL THE SITE HAS MET THE PERMANENT STABILIZATION CRITERIA, TDOT OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL POST A NOTICE NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE WITH THE FOLLOWING INFORMATION (5.3.4.) (7.2.1.):

13.4.2.1. A COPY OF THE NOTICE OF COVERAGE (NOC) WITH THE NPDES PERMIT NUMBER FOR THE PROJECT;

13.4.2.2. THE INDIVIDUAL NAME, COMPANY NAME, E-MAIL ADDRESS (IF APPLICABLE) AND TELEPHONE NUMBER OF THE LOCAL PROJECT SITE OWNER AND OPERATOR CONTACT;

13.4.2.3. A BRIEF DESCRIPTION OF THE PROJECT; AND

13.4.2.4. THE LOCATION OF THE SWPPP.

13.4.3. ALL INFORMATION DESCRIBED IN SECTION 13.4.2 MUST BE MAINTAINED IN LEGIBLE CONDITION. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE DUE TO SAFETY CONCERNS, THE NOTICE SHALL BE POSTED IN A LOCAL BUILDING. THE NOTICE MUST BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION WHERE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY.

13.5. NOTICE OF TERMINATION (9.0.)

13.5.1. WHEN ALL STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES THAT ARE AUTHORIZED BY THE PERMIT ARE ELIMINATED BY PERMANENT STABILIZATION, THE TDOT REGIONAL ENGINEER WILL SUBMIT A NOTICE OF TERMINATION (NOT) THAT IS SIGNED IN ACCORDANCE WITH THE PERMIT TO THE TDEC CENTRAL OFFICE IN NASHVILLE, TN.

13.5.2. FOR THE PURPOSES OF THE CERTIFICATION REQUIRED BY THE NOT, THE ELIMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY MEANS THE

13.5.2.1. ALL EARTH-DISTURBING ACTIVITIES ON THE SITE ARE COMPLETED AND ALL DISTURBED SOILS AT THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL HAVE BEEN PERMANENTLY STABILIZED; AND

13.5.2.2. ALL CONSTRUCTION MATERIALS, WASTE AND WASTE HANDLING DEVICES, AND ALL EQUIPMENT, AND VEHICLES THAT WERE USED DURING CONSTRUCTION HAVE BEEN REMOVED AND PROPERLY DISPOSED; AND

13.5.2.3. ALL STORMWATER CONTROLS THAT WERE INSTALLED AND MAINTAINED DURING CONSTRUCTION, EXCEPT THOSE THAT ARE INTENDED FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE, HAVE BEEN REMOVED; AND

13.5.2.4. ALL POTENTIAL POLLUTANTS AND POLLUTANT GENERATING ACTIVITIES ASSOCIATED WITH CONSTRUCTION HAVE BEEN REMOVED; AND

13.5.2.5. THE PERMITTEE HAS IDENTIFIED WHO IS RESPONSIBLE FOR ONGOING MAINTENANCE OF ANY STORMWATER CONTROLS LEFT ON THE SITE FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE; AND

13.5.2.6. TEMPORARY EPSC MEASURES HAVE BEEN OR WILL BE REMOVED AT AN APPROPRIATE TIME TO ENSURE PERMANENT STABILIZATION IS MAINTAINED; AND

13.5.2.7. ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE IDENTIFIED SITE THAT ARE AUTHORIZED BY A NPDES GENERAL PERMIT HAVE OTHERWISE BEEN ELIMINATED FROM THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL.

13.6. RETENTION OF RECORDS (7.1.)

TDOT WILL RETAIN COPIES OF THE SWPPP, ALL REPORTS REQUIRED BY THE PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT FOR THE PROJECT FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THE NOT WAS FILED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8 (52)	
PS&E	2026	STP-8 (52)	S-7

14. SITE WIDE/PRIMARY PERMITTEE CERTIFICATION (8.7.5.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED BY ME, OR UNDER MY DIRECTION OR SUPERVISION. THE SUBMITTED INFORMATION IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4), THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

AUTHORIZED TDOT PERSONNEL SIGNATURE (5.3.3.)

Robbie Stephens

PRINTED NAME

Statewide Transportation Engineer

TITLE

May 7, 2026

DATE

15. SECONDARY PERMITTEE (OPERATOR) CERTIFICATION (8.7.6.)

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE REVIEWED THIS DOCUMENT, ANY ATTACHMENTS, AND THE SWPPP REFERENCED ABOVE. BASED ON MY INQUIRY OF THE CONSTRUCTION SITE OWNER/DEVELOPER IDENTIFIED ABOVE AND/OR MY INQUIRY OF THE PERSON DIRECTLY RESPONSIBLE FOR ASSEMBLING THIS NOI AND SWPPP, I BELIEVE THE INFORMATION SUBMITTED IS ACCURATE. I AM AWARE THAT THIS NOI, IF APPROVED, MAKES THE ABOVE-DESCRIBED CONSTRUCTION ACTIVITY SUBJECT TO NPDES PERMIT NUMBER TNR100000, AND THAT CERTAIN OF MY ACTIVITIES ONSITE ARE THEREBY REGULATED. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS, AND FOR FAILURE TO COMPLY WITH THESE PERMIT REQUIREMENTS. AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4), THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

AUTHORIZED CONTRACTOR PERSONNEL SIGNATURE (5.3.3.)

PRINTED NAME

TITLE

DATE

16. ENVIRONMENTAL PERMITS (1.5.2.)

LIST ALL ENVIRONMENTAL PERMITS AND EXPIRATION DATES FOR PROJECT **(TO BE COMPLETED AT THE ENVIRONMENTAL PRECONSTRUCTION MEETING BY TDOT CONSTRUCTION OR THEIR DULY AUTHORIZED REPRESENTATIVE)**:

ENVIRONMENTAL PERMITS			
PERMIT	**YES OR NO**	**PERMIT OR TRACKING NO.**	**EXPIRATION DATE***
TDEC ARAP	YES	NRS25.149	FEB-22-2031
CORPS OF ENGINEERS (USACE)	YES	LRN-2021-00270	MAR-15-2031
TVA 26A			
TDEC CGP			
OTHER:			

*THE TDOT ENVIRONMENTAL DIVISION MUST BE NOTIFIED SIX MONTHS PRIOR TO PERMIT EXPIRATION DATE.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8 (52)	
PS&E	2026	STP-8 (52)	S-8

17. OUTFALL TABLE (5.5.1.c, 6.4.1.e, 6.4.1.f)

OUTFALL LABEL	SUB OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	SEDIMENT TRAP OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
6		738+15 LT	13.7	92.29 (92.29 DIVERTED)			N/A	N/A	WWC-1	Existing pipe used as clean water diversion
6		738+15 LT	6.6		92.29 DIVERTED	92.29 DIVERTED	N/A	N/A	WWC-1	Stage 1&2: existing pipe used as clean water diversion. Stage 3: Area within row stabilized prior to conveying water
	6A	738+25 LT	12.5	0.04	0.04		N/A	N/A	WWC-1	Work in the dry or pump around in rain events
	6B	738+20 RT	5.1		0.15		N/A	N/A	WWC-1	Work in the dry or pump around in rain events
	6C	738+75 RT	32.6		0.23		N/A	N/A	WWC-1	Work in the dry or pump around in rain events
	6D	743+15 RT	7.5		4.12		N/A	N/A	WWC-1	Work in the dry or pump around in rain events
	6E	744+65 RT	19.5		3.1		N/A	N/A	WWC-1	Work in the dry or pump around in rain events
	6F	738+50 RT	6.6		0.07	0.07	N/A	N/A	WWC-1	Work in the dry or pump around in rain events
7		751+95 LT	27.2	10.27 (10.25 DIVERTED)			N/A	N/A	WWC-4	Existing pipe used as clean water diversion
7		751+95 LT	7.1		7.38 (6.74 DIVERTED)		N/A	N/A	WWC-4	Existing pipe used as clean water diversion
7		751+95 LT	6.2			7.38 DIVERTED	N/A	N/A	WWC-4	Area within row stabilized prior to conveying water
8		759+25 LT	3.6	5.38 DIVERTED	5.38 DIVERTED	5.38 DIVERTED	N/A	N/A	WWC-6	Stage 1&2: existing pipe used as clean water diversion. Stage 3: Area within row stabilized prior to conveying water
	8A	759+07 LT	24.3	0.08			N/A	N/A	WWC-5	
	8A	759+07 LT	2.2		0.19		N/A	N/A	WWC-5	
9		761+05 LT	32.8	45.8 DIVERTED	45.80 DIVERTED	45.8 DIVERTED	N/A	N/A	WWC-6	Stage 1&2: existing pipe used as clean water diversion. Stage 3: Area within row stabilized prior to conveying water
	9A	761+10 LT	39.6	0.1			N/A	N/A	WWC-6	
	9A	761+10 LT	7.4		0.34		N/A	N/A	WWC-6	
10		768+50 LT	33.6	34.80 (34.76 DIVERTED)			N/A	N/A	WWC-8	Existing pipe used as clean water diversion
10		768+50 LT	29.4		34.80 (34.38 DIVERTED)		N/A	N/A	WWC-8	Existing pipe used as clean water diversion
10		768+50 LT	10			34.80 DIVERTED	N/A	N/A	WWC-8	Area within row stabilized prior to conveying water
11		775+00 LT	25.7	0.03 DIVERTED	0.03 DIVERTED		N/A	N/A	STR-2	Existing pipe used as clean water diversion
11		775+00 LT	39.5			13.2 DIVERTED	N/A	N/A	STR-2	Area within row stabilized prior to conveying water
	11A	775+36 LT	39.5	0.05	0.05		N/A	N/A	STR-2	
	11B	775+75 RT	1.89	13.2 DIVERTED	0.42	0.42	N/A	N/A	STR-2	Existing pipe used as clean water diversion
12		778+90 LT	31.3	45.6 DIVERTED	45.6 DIVERTED		N/A	N/A	WWC-12	Existing pipe used as clean water diversion
12		778+90 LT	12			45.6 DIVERTED	N/A	N/A	WWC-12	Area within row stabilized prior to conveying water
	12A	778+95 LT	27.7	0.04			N/A	N/A	WWC-12	
	12A	778+95 LT	7.3		0.8		N/A	N/A	WWC-12	
	12B	806+95 RT	2.6	10.00 (9.95 DIVERTED)	10.0 DIVERTED	10.00 DIVERTED	N/A	N/A	WWC-12	Stage 1&2: existing pipe used as clean water diversion. Stage 3: Area within row stabilized prior to conveying water
	12C	815+00 RT	4.5		0.19		N/A	N/A	WWC-12	
13		814+95 LT	8	1.97 DIVERTED	1.97 DIVERTED		N/A	N/A	STR-4	Existing pipe used as clean water diversion
14		24+15 LT PALISADES	19.5	12.78 (12.72 DIVERTED)	12.78 (12.72 DIVERTED)	12.78 DIVERTED	N/A	N/A	STR-4	Stage 1&2: existing pipe used as clean water diversion. Stage 3: Area within row stabilized prior to conveying water
	14A	817+75 LT	5.3	10.14 (10.09 DIVERTED)	10.14 (9.68 DIVERTED)	10.14 DIVERTED	N/A	N/A	STR-4	Stage 1&2: existing pipe used as clean water diversion. Stage 3: Area within row stabilized prior to conveying water
16		844+15 LT	41.9	0.05			N/A	N/A		
16		844+15 LT	3.1		14.9 (14.85 DIVERTED)		N/A	N/A		Work in the dry or pump around in rain events
16		844+15 LT	1.7			14.80 UNDISTURBED	N/A	N/A		Area within row stabilized prior to conveying water

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-8 (52)	
PS&E	2026	STP-8 (52)	S-9

17. OUTFALL TABLE (5.5.1.c, 6.4.1.e, 6.4.1.f)

OUTFALL LABEL	SUB OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	SEDIMENT TRAP OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
18		852+85 LT	5			9.27 UNDISTURBED	N/A	N/A	STR-6	Existing pipe used as clean water diversion
19		858+50 RT	14.2		0.02 (32.98 DIVERTED)		N/A	N/A	STR-6	Work in the dry or pump around in rain events
19		858+50 RT	5.3			33.0 UNDISTURBED	N/A	N/A	STR-6	Work in the dry or pump around in rain events
	19A	858+65 RT	14.2		0.006 (32.99 DIVERTED)		N/A	N/A	STR-6	Work in the dry or pump around in rain events
	19B	858+80 RT	14.2		0.006 (32.99 DIVERTED)		N/A	N/A	STR-6	Work in the dry or pump around in rain events
22		834+60 LT	17.1	0.07			N/A	N/A		
22		834+60 LT	17.6		0.07 (2.36 DIVERTED)		N/A	N/A		Work in the dry or pump around in rain events
22		834+60 LT	2.8			11.94 UNDISTURBED	N/A	N/A		Area within row stabilized prior to conveying water
23		833+54 LT	33.3	0.08	0.08 (33.34 DIVERTED)		N/A	N/A		Work in the dry or pump around in rain events
23		833+54 LT	3.6			33.42 UNDISTURBED	N/A	N/A		Area within row stabilized prior to conveying water
25		863+70 RT	8.3		9.27 DIVERTED		N/A	N/A	STR-6	Existing pipe used as clean water diversion

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2026	STP-8(52)	U1-1
		33021-2231-14	
		124080.00	

Index Of Sheets	
SHEET NAME	SHEET NUMBER
UTILITIES INDEX, UTILITIES OWNERS, GENERAL NOTES AND UTILITY SHEETS	U1-1 TO U1-16
AT&T RELOCATION PLANS	U2-1 TO U2-17
TOWN OF SIGNAL MOUNTAIN RELOCATION PLANS	U3-1 TO U3-19
WWTA RELOCATION PLANS	U4-1 TO U4-16
EPB ELECTRIC RELOCATION PLANS	U5-1 TO U5-21
EPB FIBER RELOCATION PLANS	U6-1 TO U6-18

NOTE: SHEETS U1-2 AND U1-3 ARE NOT USED

NOTE: COMCAST IS NOT IN-CONTRACT AND WILL NEED TO BE NOTIFIED ONCE NEW ELECTRIC POLES ARE IN PLACE AND READY FOR THEM TO RELOCATE TO; SEE SPECIAL NOTES

NOTE: TENNESSEE AMERICAN WATER IS MOVING NO COST TO THE STATE DURING CONSTRUCTION. THE DETAILED RELOCATION SHEETS ARE WITHIN THE EPLANS BUT ARE NOT DESIGNATED BY A 'U SERIES' NUMBER

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

HAMILTON COUNTY

STATE ROUTE 8
FROM NEAR SR-27 (SUCK CREEK ROAD) TO NORTH OF SOUTH PALISADES DRIVE

UTILITY OWNERS AND CONTACTS:

ELECTRIC: ELECTRIC POWER BOARD OF CHATTANOOGA PO BOX 182255 CHATTANOOGA, TN 37422 MR. ADAM NORWOOD NORWOODAW@EPB.NET (423) 648-3305	FIBER: ELECTRIC POWER BOARD OF CHATTANOOGA PO BOX 182255 CHATTANOOGA, TN 37422 MR. ADAM NORWOOD NORWOODAW@EPB.NET (423) 648-3305	(NO KNOWN CONFLICTS) GAS: CHATTANOOGA GAS CO PO BOX 4569 ATLANTA, GA 30302 MR. TAHA HAVELIWALA X2THAVEL@SOUTHERNCO.COM (404)584-3238
SEWER: HAMILTON COUNTY WWTA 1250 MARKET STREET SUITE 3050 CHATTANOOGA, TN 37402 MR. MICHAEL PATRICK WWTAENG@HAMILTONTN.GOV (423)209-7842	WATER: TOWN OF SIGNAL MOUNTAIN 1111 RIDGEWAY AVENUE SIGNAL MOUNTAIN, TN 37377 MRS. ELIZABETH BAKER EBAKER@SIGNALMOUNTAIN.GOV (423)-866-2177	(NO KNOWN CONFLICTS) SEWER: CITY OF CHATTANOOGA 1250 MARKET STREET SUITE 2100 CHATTANOOGA, TN 37402 MR. BRIAN HIGHNOTE BWHIGHNOTE@CHATTANOOGA.GOV (423) 643-7452
COMMUNICATIONS: AT&T 360 GEES MILL BUSINESS PARKWAY CONYERS, GA 30013 MR. JOE PERREL JP1389@ATT.COM (423)266-1566	WATER: TENNESSEE AMERICAN WATER 1500 RIVERSIDE DRIVE CHATTANOOGA, TN 37406 MR. JON SPARKMAN JON.SPARKMAN@AMWATER.COM (423) 771-4713	CATV: COMCAST CABLE COMMUNICATIONS LLC 1701 JOHN F. KENNEDY BLVD PHILADELPHIA, PA 19103 MR. TIM GREGORY TIM_GREGORY@COMCAST.COM (706) 252-4185

SPECIAL NOTES

SOME UTILITIES CAN BE LOCATED BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC.
AT 1-800-351-1111

CONTRACTOR SHALL GIVE THIRTY (30) DAYS NOTICE TO COMCAST WHEN ELECTRIC POLES ARE IN PLACE AND READY FOR COMCAST TO PERFORM ITS RELOCATION. IF THE RELOCATION IS NOT COMPLETED WITHIN SIXTY (60) DAYS AFTER NOTIFICATION, TDOT WILL BEGIN THE FINING PROCESS WITH CHARTER FOR EACH DAY AFTER THE EXPIRATION OF THE SCHEDULE.

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY
REFERENCE

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$

NOTE:

AMERICAN TN. WATER (ATW) SHALL MOVE AT NO COST TO STATE DURING THE TEMP. LANE CLOSURE SET UP BY CONTRACTOR. ATW SHALL BE NOTIFIED THIRTY (30) CALENDAR DAYS PRIOR TO IMPLEMENTATION OF STATE ROUTE 8 TEMPORARY WORK ZONE BETWEEN STATIONS 736+50 AND 740+50 ON WESTBOUND (THE UPHILL) LANES. ATW ALSO WILL MOVE 8 IN. WATER ON SIDE STREET (GLENDALE DRIVE) ATW WILL RELOCATE THE 12 IN. WATER MAIN AND COORDINATE WITH CONTRACTOR AND CUSTOMERS FOR OUTAGE TO TIE NEW LINE IN.
IF THE RELOCATION IS NOT COMPLETED WITHIN SIXTY (60) DAYS AFTER INITIAL NOTIFICATION, TDOT WILL BEGIN THE FINING PROCESS WITH ATW FOR EACH DAY AFTER THE EXPIRATION OF THE SCHEDULE.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U1-4
		33021-3231-14	
		PIN 124080.00	

LEGEND

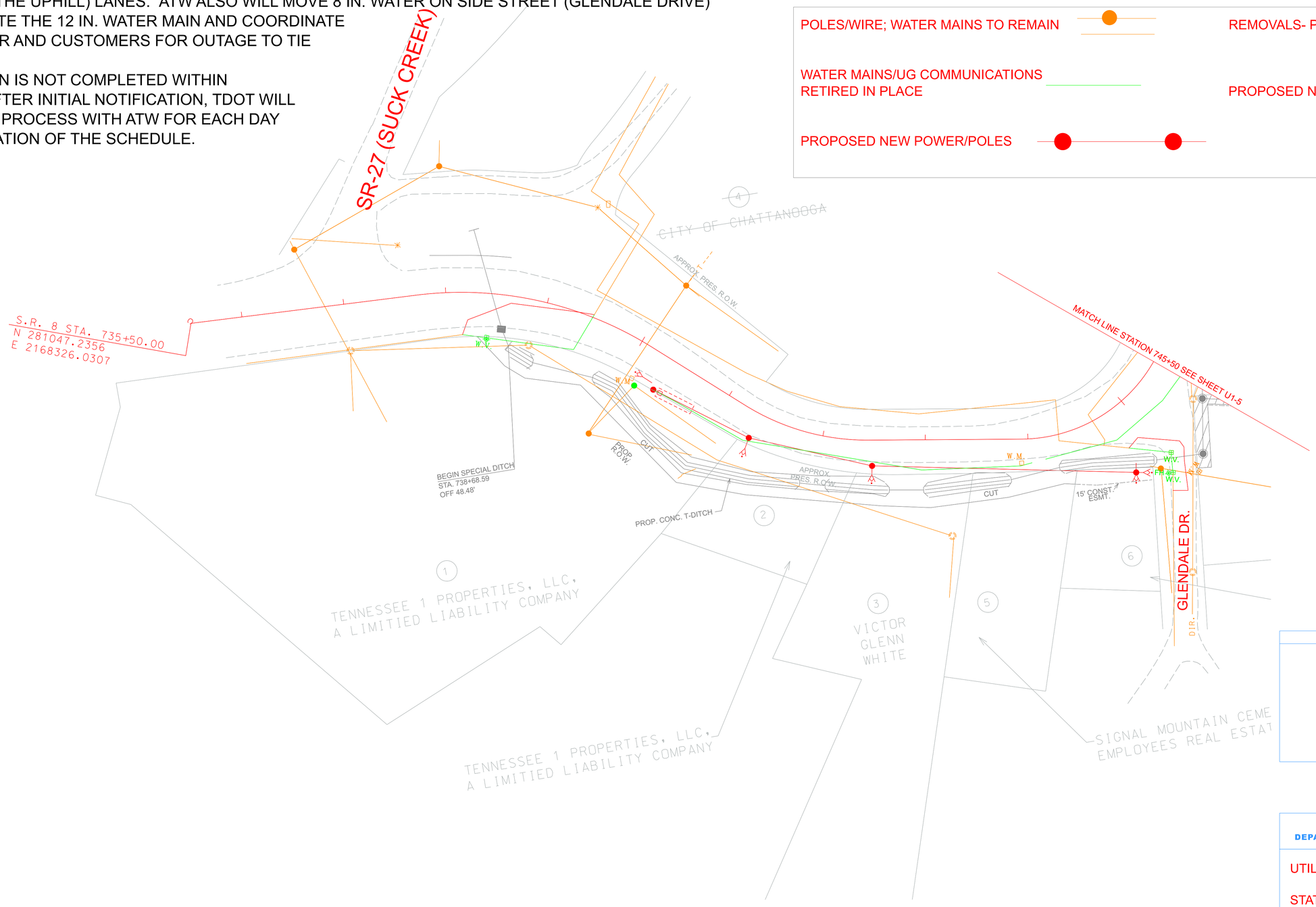
POLES/WIRE; WATER MAINS TO REMAIN

REMOVALS- POLES

WATER MAINS/UG COMMUNICATIONS RETIRED IN PLACE

PROPOSED NEW WATER

PROPOSED NEW POWER/POLES



SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY REFERENCE

STATION 735 + 50.00 TO

STATION 745 + 50.00

$$$$SYTIME$$$$$$
$$$DGNSPEC$$$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U1-5
		33021-3231-14	
		PIN 124080.00	



LEGEND

POLES AND WIRING TO BE REMOVED

EXISTING TO REMAIN

UNDERGROUND FACILITY TO BE RETIRED IN PLACE — ATT (UG)

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY REFERENCE

STATION 745 + 50 TO

STATION 758 + 50

$$$$$SYTIME$$$$$$$
$$$$DGNSPEC$$$$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U1-6
		33021-3231-14	
		PIN 124080.00	

765

770

760

BUZZI UNICEM USA,

15

THERE ARE NO UTILITY RELOCATIONS THIS SHEET

MATCH LINE 758+50 SEE SHEET U1-5

PROP. R.O.W.

PROP. R.O.W.

APPROX. PRES. R.O.W.

APPROX. PRES. R.O.W.

PROP. CONC. T-DITCH

PROP. WALL D1

BEGIN WALL D1
762+00.00
35.91'

CUT

CUT

15' CONST. ESMT.

PROP. CONC. T-DITCH

PROP. R.O.W.

PROP. WALL D1

CUT

END WALL D1
768+50.00
29.68'

PROP. CONC. T-DITCH

BEGIN WALL D2
769+50.00
33.51'

PROP. WALL D2

15' CONST. ESMT.

PROP. R

MATCH LINE 771+50 SEE SHEET U1-7

14

ITTLE COMPANY OF
TENNESSEE, LLC

INC

16

BUZZI UNICEM USA, INC.

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY REFERENCE
STATION 758 + 50 TO
STATION 771 + 50

$$$$SYTIME$$$$$$
$$ $$DGNSPEC$$ $$$$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8 (52)	U1-7
		33021-3231-14	
		PIN 124080.00	

LEGEND

POLES AND GUY LINES TO REMOVE

POLES AND GUY LINES TO INSTALL

EXISTING POWER AND COMMUNICATIONS CABLES TO REMAIN

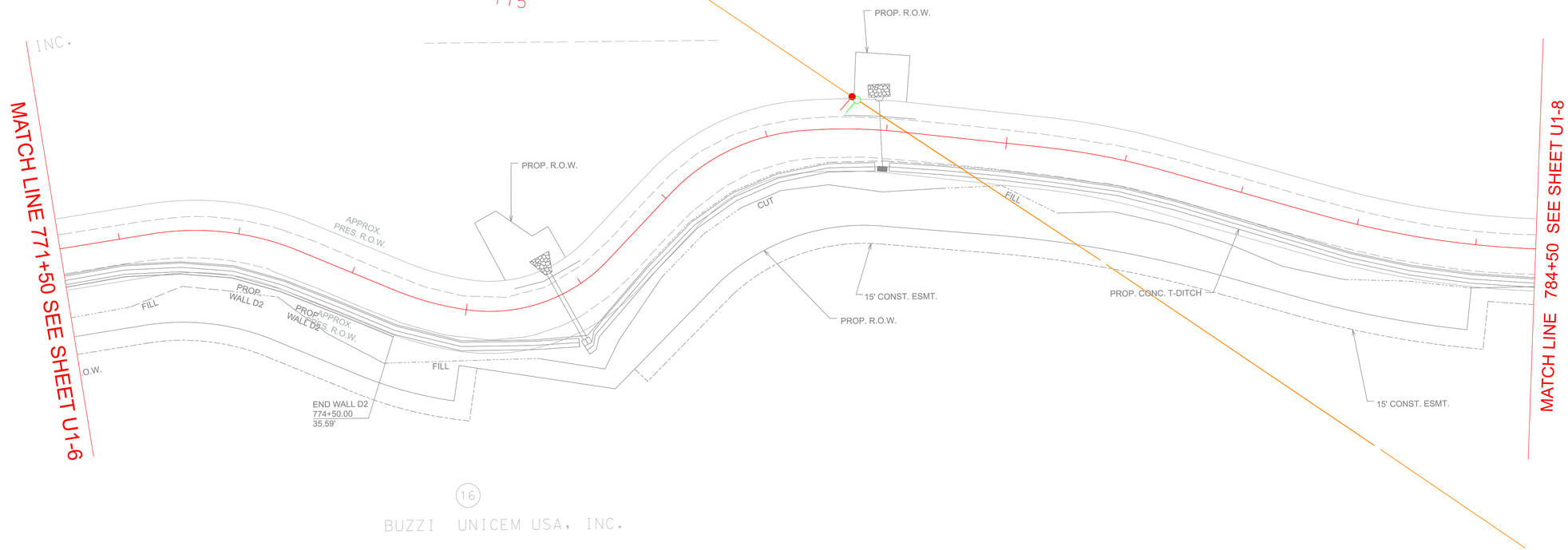
780

BUZZI UNICEM USA, INC.

15

775

INC.



16

BUZZI UNICEM USA, INC.

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY REFERENCE
STATION 771 + 50
STATION 784 + 50

$$$$SYTIME$$$$$$
$$$DGNSPEC$$$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U1-8
		33021-3231-14	
		PIN 124080.00	

790

795

BUZZI UNICEM USA, INC.

15

STEVEN L. COULTER & BEVERLY H. COULTER

17

16

BUZZI UNICEM USA, INC.

MATCH LINE 784+50 SEE SHEET U1-7

APPROX. PRES. R.O.W.

APPROX. PRES. R.O.W.

APPROX. PRES. R.O.W.

CUT

CUT

PROP. CONC. T-CHANNEL

PROP. R.O.W.

15' CONST. ESMT.

15' CONST. ESMT.

PROP. R.O.W.

PROP. R.O.W.

15' CONST. ESMT.

CUT

10' CONST. ESMT.

SLOPE ESMT.

FILL

FILL

W/M

W/V

W/M

W/V

W/C

PRES. R.O.W.

APPROX. PRES. R.O.W.

MATCH LINE 797+50 SEE SHEET U1-9

MATCH LINE 810+50 SEE SHEET U1-9

805

810

21

22

24

25

26

LEGEND

POLES AND GROUND GUYS TO BE REMOVED

NEW POLES AND GROUND GUYS

WATER AND POWER/COMMUNICATION CABLES TO REMAIN

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY REFERENCE
STATION 784 + 50 TO 797+50
AND
STATION 797 + 50 TO 810 + 50

$$$$SYTIMES$$$$$$
$$$DGNSPECS$$$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U1-9
		33021-3231-14	
		PIN 124080.00	

MATCH LINE 797+50 SEE SHEET U1-8

MATCH LINE 810+50 SEE SHEET U1-8

MATCH LINE 823+50 SEE SHEET U1-10

CUT

APPROX. PRES. R.O.W.

END SPECIAL 3' CONC. T-DITCH STA. 799+50.00 OFF 48.30'

20' CONST. ESMT.

STEVEN H. ROBERTS

10' CONST. ESMT.
PROP. PERM. DRAIN ESMT.

PROP. R.O.W.

PRES. R.O.W.

CISCILY BLYTHE STEWART & SPOUSE TROY SANFORD STEWART

ANGELO MS MARQUES & DIANNE E. TASKER

RICHARD M. COWART & JULIE F. COWART

PROP. PERM. DRAIN ESMT.
10' CONST. ESMT.

10' CONST. ESMT.

PROP. R.O.W.

S.R. 8 STA. 814+82.29 = SUNSET DR. STA. 10+00.00
N 282412.6042
E 2163445.5148

APPROX. PRES. R.O.W.

APPROX. PRES. R.O.W.

CUT

BEGIN SPECIAL DITCH
STA. 815+17.04
OFF 24.04'

PROP. WALL D3

PROP. WALL D3

PROP. CONC. T-DITCH

END WALL D3
819+00.00
15' CONST. ESMT.
27.08'

BEGIN WALL D3
817+00.00
28.55'

PROP. R.O.W.

THOMAS H. JONES, JR.

MATTHEW WARREN & DANIELLE WARREN

PROP. CONC. T-DITCH

CUT

SUNSET DR. STA. 13+25.00
N 282346.0339
E 2163760.3788

THOMAS H. JONES, JR.

THOMAS H. JONES, JR.

LEGEND

ATT POLES AND LINES TO REMOVE

NEW FIBER LINE ON EXISTING POLES

NEW POLES AND AERIAL CABLES

EXISTING WATER, POLES AND CABLES TO REMAIN

NEW WATER LINE

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY REFERENCE
STATION 797 + 50 TO
STATION 823 + 50

$$$$SYTIME$$$$$$
$$$DGNSPEC$$$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-52 (8)	U1-10
		33021-3231-14	
		PIN 124080.00	

LEGEND

ATT OVERHEAD POLES AND CABLES TO REMOVE

NEW COMM. CABLES ONTO EXISTING POLES

EXISTING OVERHEAD POWER POLES AND GROUND GUYS, AND COMMUNICATION CABLES TO REMAIN

SANITARY SEWER TO BE RELINED WITH CIPP

NEW SANITARY MANHOLE WITH LINE

EXISTING WATER TO REMAIN — W.M.

NEW WATER LINE — W W

MARY NELL MOORE 86

PRISCILLA LYNNE FINNELL 84

JASON R. PAINTER 85

JAMES C. CAWTHORNE 44

SALLY L. REEVE 50

SALLY L. REEVE 51

PETER HENCHEY 52

PETER HENCHEY 53

THOMAS H. JONES, JR. 56

THOMAS H. JONES, JR. 49

THOMAS H. JONES, JR. 46

THOMAS H. JONES, JR. 45

JOYCE J. SM 57

825

830

835 TENNESSEE RIV

PRES. R.O.W.

APPROX. PRES. R.O.W.

PROP. R.O.W.

10' CONST. ESMT.

CUT

END SPECIAL 3' CONCRETE R.O.W. STA. 826+50.00 OFF 29.00'

MATCH LINE 823+50 SEE SHEET U1-9

MATCH LINE 836+50 SEE SHEET U1-11

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY REFERENCE
STATION 823 + 50 TO
STATION 836 + 50

$$$$SYTIME$$$$$$
$$$DGNSPEC$$$$$$

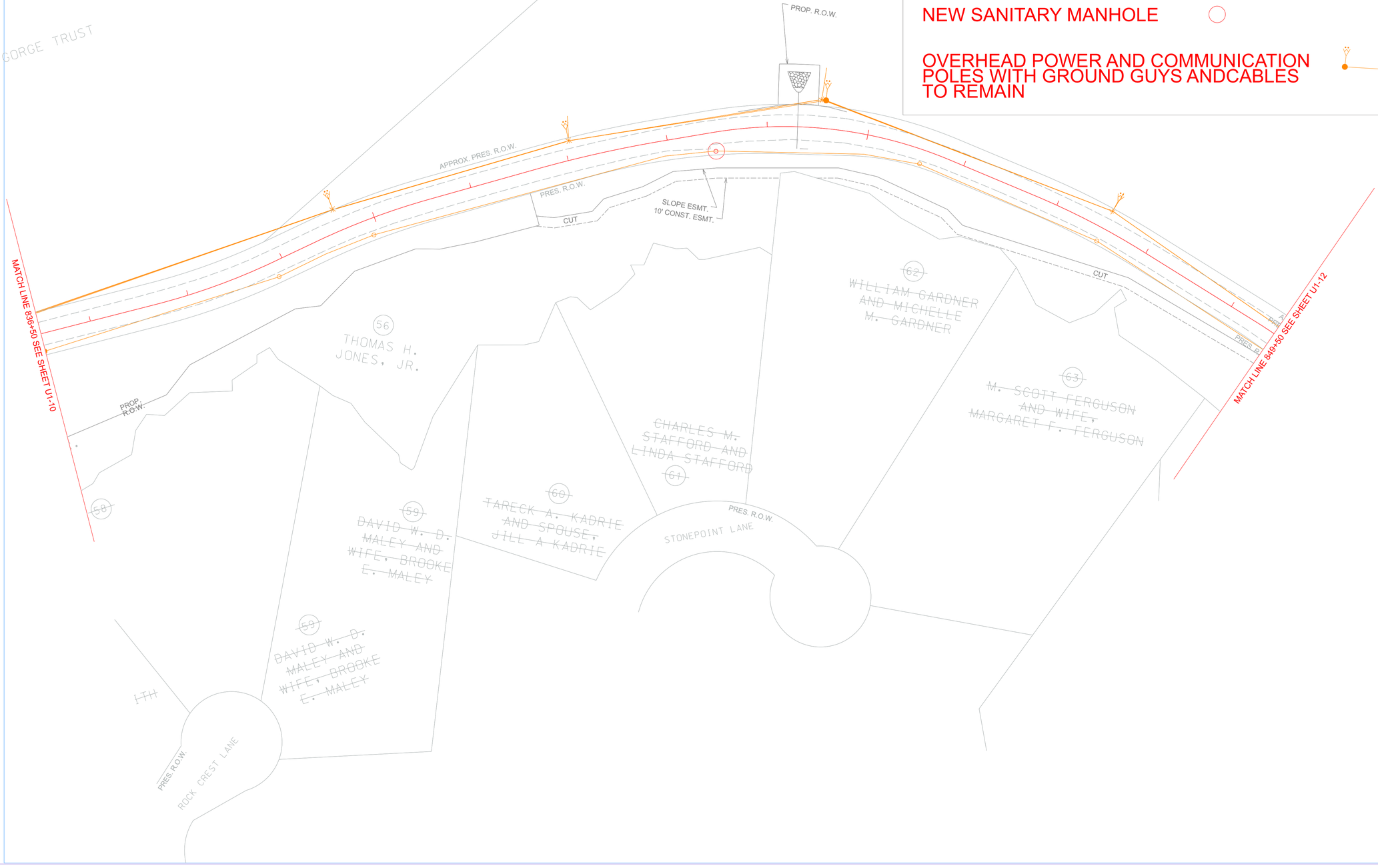
TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U1-11
		33021-3231-14	
		PIN 124080.00	

LEGEND

EXISTING SANITARY LINE WITH PLUGGED TEES TO BE RELINED WITH CURED IN PLACE PIPE PROCESS

NEW SANITARY MANHOLE

OVERHEAD POWER AND COMMUNICATION POLES WITH GROUND GUYS ANDCABLES TO REMAIN



SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY REFERENCE
STATION 836 + 50 TO STATION 849 + 50

$$$$SYTIME$$$$$$
$$$DGNSPEC$$$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U1-12
		33021-3231-14	
		PIN 124080.00	

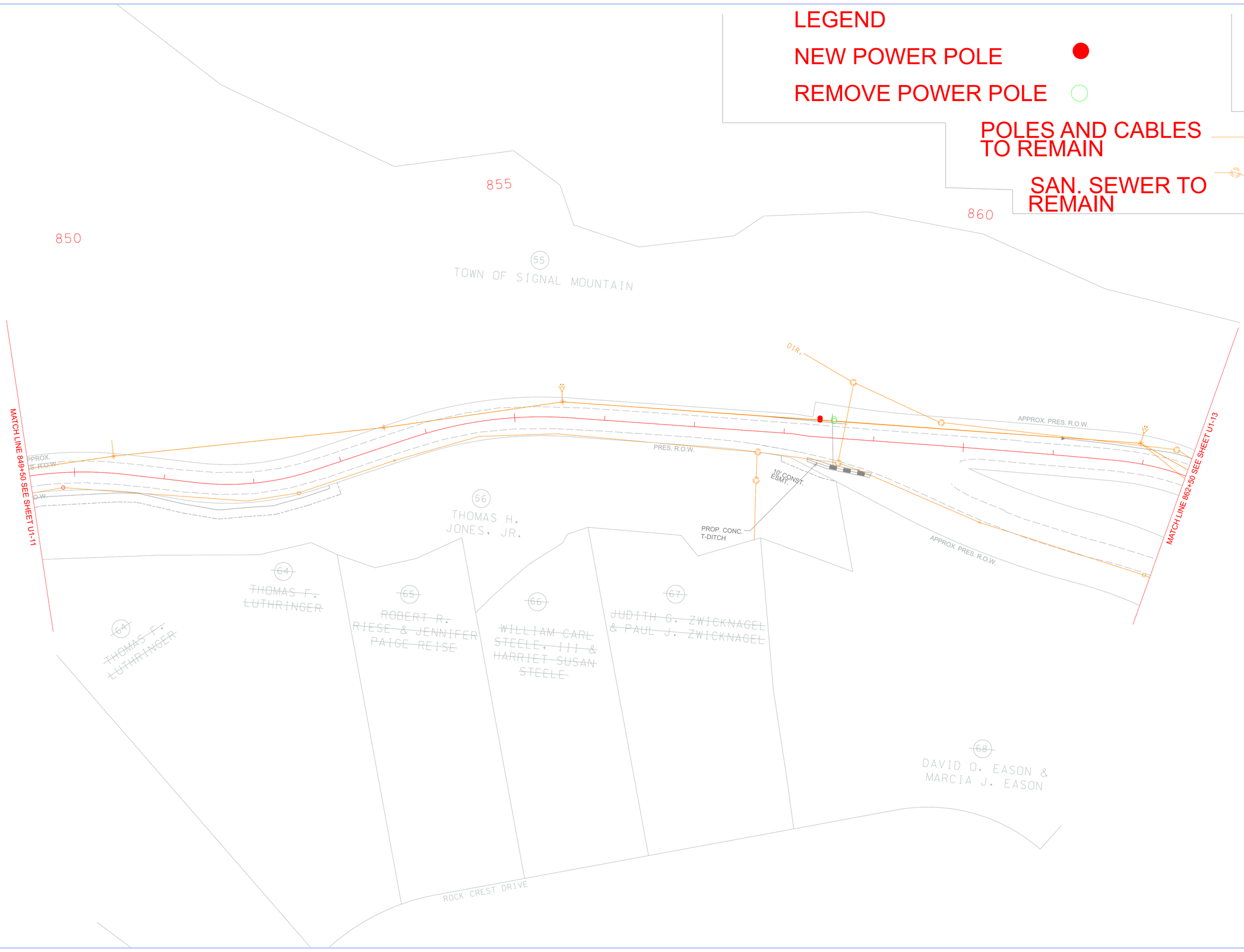
LEGEND

NEW POWER POLE

REMOVE POWER POLE

POLES AND CABLES TO REMAIN

SAN. SEWER TO REMAIN



SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY REFERENCE
STATION 849 + 50 TO
STATION 862 + 50

$$$$SYTIME$$$$$$
$$ $$DGNSPEC$$ $$$$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U1-13
		33021-3231-14	
		PIN 124080.00	

THE TOWN OF SIGNAL MOUNTAIN, TENNESSEE

70

ELECTRIC POWER BOARD

71

865

870

72

THE TOWN OF SIGNAL MOUNTAIN, TENNESSEE

875

73

THE TOWN OF SIGNAL MOUNTAIN, TENNESSEE

10' CONST. ESMT.

DIR.

MATCH LINE 862+50 SEE SHEET UT-12

PROP. R.O.W.

APPROX. PRES. R.O.W.

APPROX. PRES. R.O.W.

APPROX. PRES. R.O.W.

APPROX. PRES. R.O.W.

MATCH LINE 875+50 SEE SHEET UT-14

69

TOWN OF SIGNAL MOUNTAIN, TENNESSEE

LEGEND

POWER POLE NEW ● TO REMOVE ●

EXISTING POLES AND CABLE TO REMAIN

EXISTING SEWER TO REMAIN

NEW MANHOLES AND SEWER LINE

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY REFERENCE
STATION 862 + 50 TO
STATION 875 + 50

$$$$SYTIME$$$$$$
$$ $$DGNSPEC$$ $$ $$ $

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U1-14
		33021-3231-14	
		PIN 133134.00	

LEGEND

NEW POWER POLE

EXISTING POLES/CABLES TO REMAIN

ST. TIMOTHY'S EPISCOPAL CHURCH OF SIGNAL MOUNTAIN

74

75

ST. TIMOTHY'S EPISCOPAL CHURCH OF SIGNAL MOUNTAIN

880

76

TOWN OF SIGNAL MOUNTAIN

885

78

MATCH LINE 875+50 SEE SHEET U1-13

MATCH LINE 888+50 SEE SHEET U1-15

APPROX. PRES. R.O.W.

APPROX. PRES. R.O.W.

APPROX. PRES. R.O.W.

PROP. R.O.W.

69

TOWN OF SIGNAL MOUNTAIN, TENNESSEE

77

TOWN OF SIGNAL MOUNTAIN

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY REFERENCE
STATION 875 + 50 TO
STATION 888 + 50

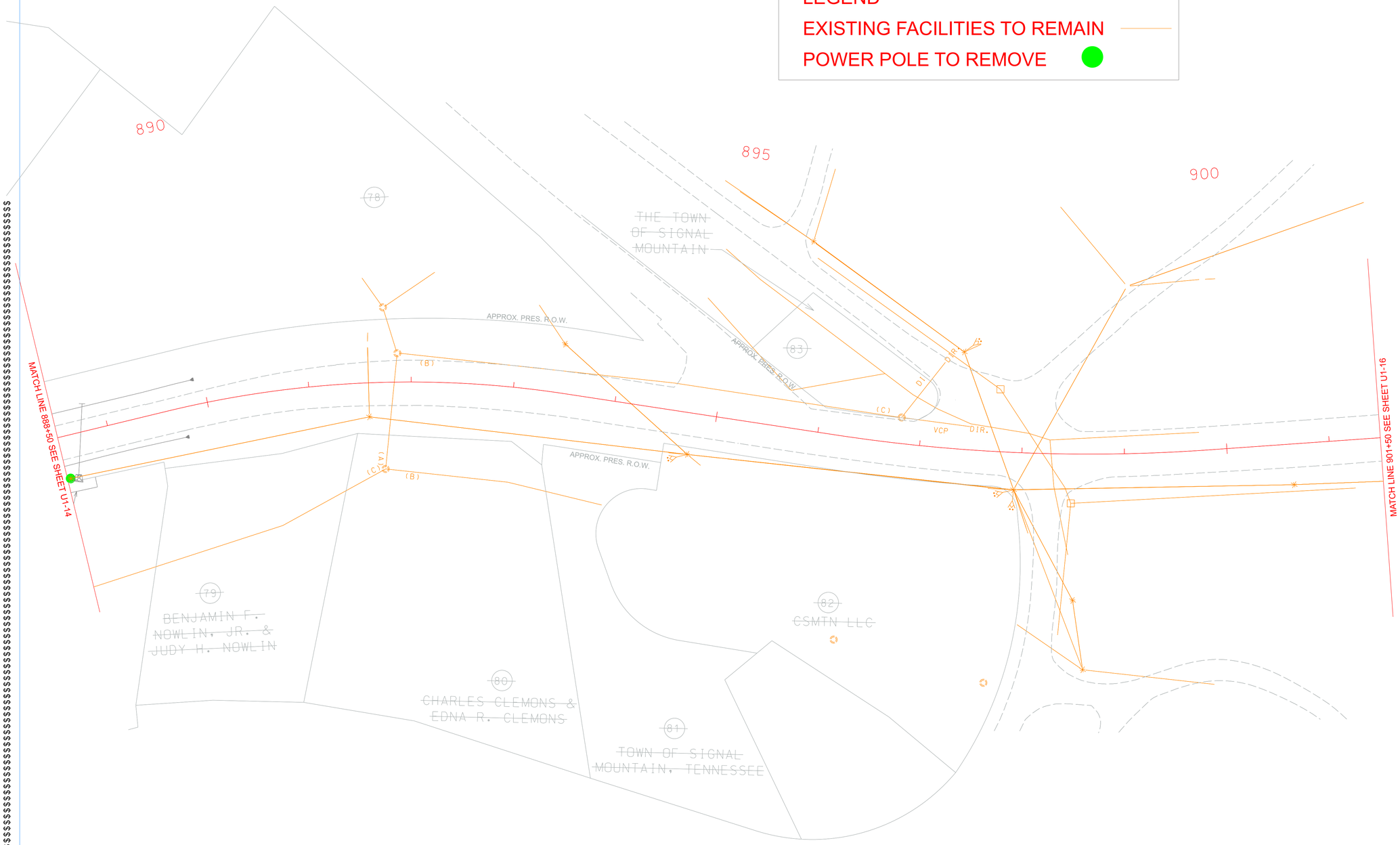
$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U1-15
		33021-3231-14	
		PIN 124080.00	

LEGEND

EXISTING FACILITIES TO REMAIN

POWER POLE TO REMOVE



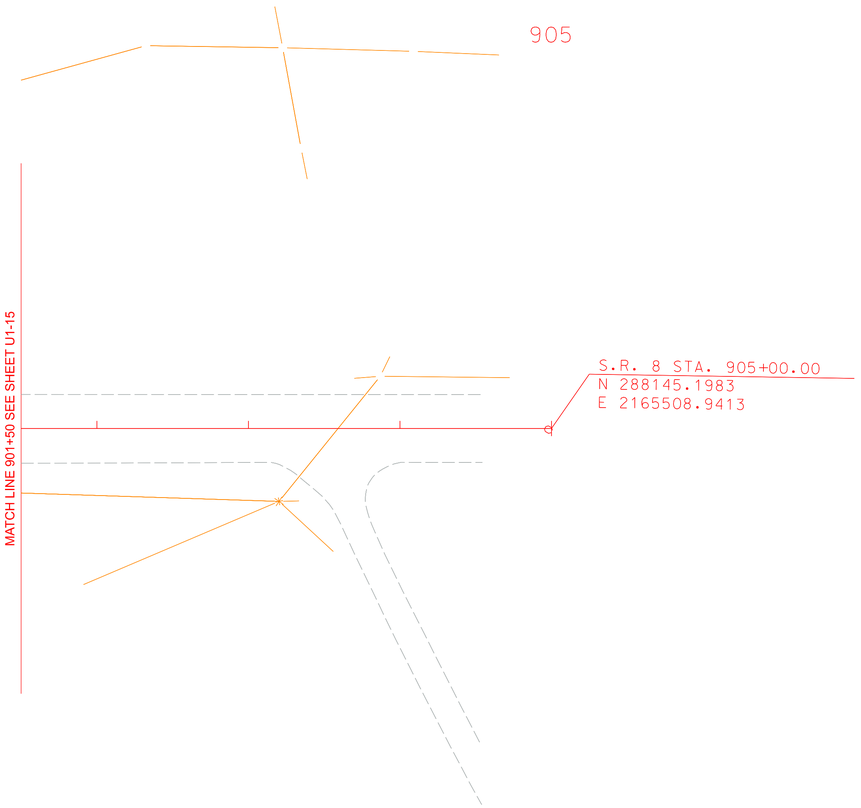
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY REFERENCE
STATION 888 + 50 TO
STATION 901 + 50

$$$$SYTIME$$$$$$$
$$$DGNSPEC$$$$$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP- 8 (52)	U1-16
		33021-3231-14	
		PIN 124080.00	



THERE ARE NO UTLITY RELOCATIONS THIS SHEET

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY REFERENCE STATION 901 + 50 TO STATION 905 + 00

$$$$SYTIME$$$$$$
$$$DGNSPEC$$$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U2-1
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

UTILITIES INDEX

SHEET NAME	SHEET NUMBER
ESTIMATED UTILITY QUANTITIES	U2-1
SPECIAL CONDITIONS	U2-2
TDOT STANDARD UTILITY NOTES	U2-3
UTILITY RELOCATION STA. 735+50 TO STA. 747+50	U2-4
UTILITY RELOCATION STA. 747+50 TO STA. 760+50	U2-5
UTILITY RELOCATION STA. 760+50 TO STA. 773+50	U2-6
UTILITY RELOCATION STA. 773+50 TO STA. 786+50	U2-7
UTILITY RELOCATION STA. 786+50 TO STA. 799+50	U2-8
UTILITY RELOCATION STA. 799+50 TO STA. 812+50	U2-9
UTILITY RELOCATION STA. 812+50 TO STA. 825+50	U2-10
UTILITY RELOCATION STA. 825+50 TO STA. 838+50	U2-11
UTILITY RELOCATION STA. 838+50 TO STA. 851+50	U2-12
UTILITY RELOCATION STA. 851+50 TO STA. 864+50	U2-13
UTILITY RELOCATION STA. 864+50 TO STA. 877+50	U2-14
UTILITY RELOCATION STA. 877+50 TO STA. 890+50	U2-15
UTILITY RELOCATION STA. 890+50 TO STA. 903+50	U2-16
UTILITY RELOCATION PALISADES ROAD	U2-17

ESTIMATED UTILITY QUANTITIES

				Project No. 1: 33021-3231-14
	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	793-01.07	POLE 35FT CLASS 4 WOOD	EACH	3
1	793-01.12	POLE 40FT CLASS 4 WOOD	EACH	2
2	793-01.41	ANCHOR 1 IN	EACH	3
3	793-16.01	MH (RETIRE/REMOVE/GRAVEL BACKFILL)	EACH	1
4	793-98.04	REMOVE POLES ALL SIZES	EACH	25

1 INCLUDES ALL MATERIALS, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION INCLUDING, BUT NOT LIMITED TO BUTT WRAP, MGNV, GROUND ROD, DIG HOLE, TAMP, BLASTING AND NUMBER POLE.

2 INCLUDES ALL MATERIALS, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION INCLUDING BUT NOT LIMITED TO DIGGING HOLE, BLASTING OR MECHANICALLY INSERTING INTO GROUND, BONDING/GROUNDING.

3 INCLUDES ALL LABOR INCLUDING TRAFFIC CONTROL AND SETUP, REMOVAL OF LID AND COLLARS, BACKFILL WITH GRAVEL.

4 INCLUDES TRAFFIC CONTROL, LABOR AND EQUIPMENT

GENERAL NOTES:

1. ALL PLACEMENT OF DUCT BANKS TO BE AT 36" DEPTH TO FINAL GRADE IN CUTS, 36" DEPTH TO CURRENT GRADE IN FILLS.
2. PROVIDE CABLE MARKERS EVERY 500' AND IN-LINE OF SIGHT FROM EACH MARKER. ADD MARKERS AT ALL ROAD CROSSINGS.
3. SEE DETAIL SHEETS FOR MANHOLE SPECIFICATIONS.
4. RETURN TO AT&T EXISTING MANHOLE FRAME/COVERS REMOVED. BACKFILL MANHOLES ACCORDING TO T.D.O.T. REQUIREMENTS.
5. COORDINATE CROSSINGS WITH EXISTING AND PROPOSED UTILITIES TO SET FINAL GRADE FOR DUCT BANKS.
6. GROUND BED LOCATIONS AS SPECIFIED.
7. SURVEY INFORMATION IN THESE DRAWINGS ARE FROM OTHERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES. ANY UTILITIES NOT SHOWN ON THESE DRAWINGS ARE ALSO THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO, AND FOR PROTECTION OF ALL EXISTING UTILITIES.

LEGEND:

- TEMPORARY LOCATION (BLUE)
- EXISTING TO REMAIN (ORANGE)
- EXISTING TO BE REMOVED OR RETIRED (GREEN)
- NEW INSTALLATION (RED)
- T (UG) — NEW AT&T UNDERGROUND CABLE (DIRECT BURIED)
- T — NEW AT&T OVERHEAD LINE
- T — NEW AT&T SERVICE DROP
- OHG — NEW OVERHEAD GUY
- T (UG) — EXISTING AT&T UNDERGROUND CABLE TO REMAIN
- T — EXISTING AT&T OVERHEAD LINE TO REMAIN
- T — EXISTING AT&T SERVICE DROP TO REMAIN
- OHG — EXISTING OVERHEAD GUY TO REMAIN
- T (UG) — EXISTING AT&T UNDERGROUND CABLE TO BE REMOVED OR RETIRED
- T — EXISTING AT&T OVERHEAD LINE TO BE REMOVED OR RETIRED
- T — EXISTING AT&T SERVICE DROP TO BE REMOVED OR RETIRED
- OHG — EXISTING OVERHEAD GUY TO BE REMOVED/RETIRED
- EXISTING AT&T POLE TO REMAIN
- EXISTING AT&T POLE TO BE REMOVED OR RETIRED
- NEW INSTALLATION OF AT&T POLE
- NEW INSTALLATION OF AT&T POLE WITH GUY WIRE
- EXISTING AT&T GUY WIRE TO REMAIN
- EXISTING AT&T GUY WIRE TO BE REMOVED
- NEW INSTALLATION OF AT&T GUY WIRE
- EXISTING ELECTRIC UTILITY POLE TO REMAIN
- EXISTING ELECTRIC UTILITY POLE TO BE REMOVED OR RETIRED
- NEW INSTALLATION OF ELECTRIC UTILITY POLE
- EXISTING AT&T PUSH BRACING TO REMAIN
- EXISTING AT&T PUSH BRACING TO BE REMOVED
- NEW AT&T PUSH BRACING
- TELE — EXISTING AT&T PULL BOX TO REMAIN
- TELE — EXISTING AT&T PULL BOX TO BE REMOVED OR RETIRED
- TELE — NEW INSTALLATION OF AT&T PULL BOX
- NEW INSTALLATION OF AT&T MANHOLE
- NEW INSTALLATION OF AT&T HANDHOLE

UTILITY COMPANY CONTACT

AT&T TENNESSEE
300 E. MARTIN LUTHER KING BOULEVARD
CHATTANOOGA, TENNESSEE 37403
JOE PERREL
423-488-2825
EMAIL: JP1389@ATT.COM

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BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

ESTIMATED UTILITY QUANTITIES

SCALE: NONE

3/9/2026
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U2-2
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

AT&T SPECIAL CONDITIONS AND ADDITIONAL BREAKDOWN OF TIME

1. IF ALL OTHER SECTIONS OF AT&T'S WORK IS READY AT THE SAME TIME, THEN 123 DAYS IS NEEDED TO COMPLETE THE PROJECT. TO HELP KEEP THE PROJECT MOVING FORWARD, AT&T AGREES TO WORK SECTIONS OF PLACEMENT AND CUTOVER AS THEY BECOME AVAILABLE AS LONG AS THEY CAN LOGISTICALLY BE WORKED, AND DO NOT PLACE ADDITIONAL COSTS ON AT&T OR CAUSE ANY SAFETY CONCERNS. AT&T ALSO AGREES TO EVALUATE AND WORK WITH THE STATE CONTRACTOR IF THERE ARE TEMPORARY RELOCATIONS THAT ARE NEEDED. THESE TEMPORARY RELOCATIONS WILL HAVE THEIR OWN SCHEDULE OF CALENDAR DAYS AND MAY BE 100% REIMBURSABLE IN ADDITION TO ANY CHAPTER 86 REIMBURSEMENTS.

2. BY BREAKING IT DOWN INTO SECTIONS, EACH SECTION HAS ITS OWN MOBILIZATION AND MATERIAL ORDERING TIME. THE SPECIAL CONDITIONS APPLY TO EACH SECTION INDIVIDUALLY; HOWEVER, ADDITIONAL CLARIFICATION WILL BE INCLUDED IN EACH SECTION.

3. THE CONSTRUCTION SCHEDULE LISTED INCLUDES STANDARD MATERIAL ORDERING INTERVALS, PROJECTED WORKLOADS AT THE TIME OF CONSTRUCTION, ESTIMATED WORK CONTENT, AND LIMITED DELAYS DUE TO WEATHER OR CUSTOMER RELEASES FOR SCHEDULED SERVICE INTERRUPTIONS. COMPLETION OF WORK IS ALSO CONTINGENT ON NATIONAL OR STATE EMERGENCY ORDERS WHICH CAN RESTRICT TELECOMMUNICATIONS WORK.

4. THE CONSTRUCTION SCHEDULE LISTED CANNOT BE IMPLEMENTED UNTIL AT&T HAS BEEN NOTIFIED IN WRITING BY TDOT AND/OR THE STATE CONTRACTOR THAT ALL AT&T ITEMS INCLUDED IN THE STATE CONTRACT HAVE BEEN PLACED, ALL POWER COMPANY POLES HAVE BEEN SET, AND ALL OTHER OVERHEAD UTILITIES HAVE BEEN TRANSFERRED DUE TO SAFETY REGULATIONS AND POTENTIAL CONSTRUCTION CONFLICTS.

5. ALL SCHEDULES/SECTIONS ARE BASED ON AT&T BEING ABLE TO GET APPROVAL FROM TDOT FOR USE OF THE DIMINIMIS FOR THOSE ITEMS THAT CANNOT BE OBTAINED USING FHWA/BUY AMERICA APPROVED STEEL. ANY DELAYS ON APPROVAL OF THESE ITEMS WILL CAUSE AN EQUAL DELAY ON AT&T'S SCHEDULE.

6. ANY CHANGES THAT THE STATE'S CONTRACTOR MAKES TO THE PLANS PROVIDED TO THEM BY TDOT MAY CAUSE A REDESIGN TO AT&T'S PLANS. AT&T WILL REQUIRE TIME TO EVALUATE AND MAKE CHANGES IF NECESSARY. THESE CHANGES WILL HAVE TO BE APPROVED BY TDOT THROUGH A FORMAL STAMPED REDESIGN AND WILL REQUIRE ADDITIONAL TIME ON THE SCHEDULE. AT&T'S TIME WILL NOT START UNTIL AFTER THE DESIGN CHANGES AND ALL OTHER SPECIAL CONDITIONS HAVE BEEN APPROVED/COMPLETED.

7. AT&T CAN MOVE OVERHEAD LINES IN SOME INSTANCES BEFORE OTHER COMMUNICATION COMPANIES; HOWEVER, THIS COULD CAUSE ADDITIONAL TIME DELAYS AND COSTS TO AT&T AND TO THOSE OTHER COMPANIES. THESE COSTS MAY BE SUBJECT TO THE PARAGRAPH ABOVE.

8. WHEN REFERRING TO "ALL" POWER COMPANY POLES OR "ALL" OTHER OVERHEAD UTILITIES, IT IS ONLY REFERRING TO THOSE POLES THAT HAVE AN IMPACT ON AT&T'S RELOCATION.

9. THIS SCHEDULE IS ALSO DEPENDENT ON AT&T HAVING ACCESS TO ALL OF ITS EXISTING FACILITIES UNTIL SUCH TIME AS THEY ARE NO LONGER IN SERVICE AND ARE READY TO BE RETIRED. EXISTING MANHOLE LIDS MAY REQUIRE RAISING TO MAINTAIN ACCESSIBILITY UNTIL IT CAN BE RETIRED.

10. AT&T MUST BE CONSULTED PRIOR TO CONTRACTOR REVISING SUGGESTED TDOT TRAFFIC CONTROL PHASING.

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BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

SPECIAL CONDITIONS

SCALE: NONE

3/9/2026
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U2-3
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

TDOT STANDARD GENERAL NOTES:

1. EXCEPT FOR EROSION SEDIMENT CONTROL ITEMS, NO ROADWAY OR BRIDGE ITEMS SHALL BE UTILIZED TO COMPENSATE FOR WORK METHODS OR MATERIALS ASSOCIATED WITH AND/OR SPECIFIED FOR THE UTILITY INSTALLATION, EVEN THOUGH THE SAME OR SIMILAR ROADWAY OR BRIDGE MATERIALS MAY HAVE BEEN CALLED FOR IN THE UTILITY SPECIFICATIONS OR DRAWINGS.
2. ALL MATERIALS, METHODS, AND/OR INTEGRAL MATERIALS OUTLINED IN THE UTILITY SPECIFICATIONS OR DRAWINGS NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION MUST BE INCLUDED IN THE UNIT PRICE FOR THE ASSOCIATED UTILITY WORK ITEM.
3. THE CONTRACTOR MUST MAINTAIN ALL SERVICES DURING THE CONSTRUCTION OF THE RELOCATED FACILITY. ANY COSTS ASSOCIATED WITH INSTALLATION OF REQUIRED TEMPORARY SERVICE LINES DUE TO THE ROADWAY CONSTRUCTION SEQUENCE OF WORK (I.E., CUTS, FILLS, PHASING, ETC.) SHALL BE INCLUDED IN THE COST OF THE PERMANENT UTILITY ITEMS.
4. IT SHALL BE THE RESPONSIBILITY OF THE PRIME CONTRACTOR'S SURVEYOR TO LAY OUT ALL THE FACILITIES BEING RELOCATED WITHIN THE CONTRACT.
5. FOR BURIED UTILITIES, THE PRIME CONTRACTOR OR SUBCONTRACTOR SHALL BE REQUIRED TO PROVIDE TO THE UTILITY UPON COMPLETION OF THE UTILITY'S RELOCATION WORK A SET OF AS-BUILT DRAWINGS FOR THEIR RECORDS. THESE AS-BUILT DRAWINGS SHOULD BE PREPARED AS THE JOB PROGRESSES TO ENSURE THEIR ACCURACY.
6. WHERE EROSION CONTROL MEASURES ARE NEEDED FOR THE UTILITY RELOCATION WORK OCCURRING INSIDE OR OUTSIDE STATE RIGHT-OF-WAY, THE CONTRACTOR SHALL SUBMIT TO THE TDOT PROJECT SUPERVISOR FOR APPROVAL A PROPOSED EROSION AND SEDIMENT CONTROL PLAN PRIOR TO BEGINNING THE WORK. TDOT APPROVAL MUST BE RECEIVED BEFORE THE EROSION CONTROL PAY ITEMS FOR ROADWAY CONSTRUCTION CAN BE USED FOR ANY ADDITIONAL EROSION CONTROL MEASURES REQUIRED FOR THE UTILITY RELOCATION WORK.
7. DRIVEWAY, SIDEWALK AND ROADWAY TEMPORARY RESTORATION SHALL BE PART OF THE IN-PLACE COST OF PLACING THE UTILITY ITEM WITHIN THE ROW.
8. ANY EXCAVATION OF THE STREAM CHANNEL AREA SHALL BE SEPARATED FROM FLOWING WATER AND ACCOMPLISHED DURING LOW FLOW CONDITIONS. THIS SHALL BE ACCOMPLISHED BY THE USE OF FLUMES, LINED DIVERSION CHANNEL WITH SANDBAG BERM, DIVERSION PIPE WITH SANDBAG DAM AT PIPE INLET, OR IN SOME CASES COFFERDAMS. ALTERNATIVELY, BASED ON FIELD CONDITIONS AND CONTRACTOR SELECTION, THE UTILITY RELOCATION MAY BE ACCOMPLISHED USING BORE TECHNOLOGY WITH NO STREAM CHANNEL IMPACTS.

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AT&T TENNESSEE

TDOT STANDARD UTILITY NOTES

3/9/2026
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U2-4
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

33021-3231-14
BEGIN PROJ. NO. STP-8(52) CONST.
STA. 738+00.00
N 281240.8470
E 2168167.9153

33021-2231-14
BEGIN PROJ. NO. STP-8(52) R.O.W.
STA. 738+32.66 S.R.8
N 281268.4772
E 2168150.5235

STA. 736+94.20 S.R. 8 =
STA. 10+00.00 S.R. 27
N 281158.4263
E 2168234.2145

STA. 745+31.69 S.R. 8 =
STA. 20+00.00 GLENDALE DR.
N 281859.1258
E 2167873.4731

MATCH LINE STA. 747+50 SEE SHT. NO. U2-5

PROPOSED BY AT&T FORCES ON EXISTING EPB STRUCTURE
EXISTING AT&T TO REMOVE
EXISTING AT&T TO BE REMOVED/RETIRED
PROP. R.O.W.
10' CONST. ESMT.
PROP. PERM. DRAIN ESMT.
S.R. 27 (SUCK CREEK RD.)
S.R. 8
GLENDALE DR.
CITY OF CHATTANOOGA
TENNESSEE 1 PROPERTIES, LLC, A LIMITIED LIABILITY COMPANY
BUZZI UNICEM USA, INC.
VICTOR GLENN WHITE
BROWN HOME SOLUTIONS, LLC
MICHAEL R. HARRISON & NANCY E. HARRISON
SIGNAL MOUNTAIN CEMENT HOURLY EMPLOYEES REAL ESTATE TRUST, INC
MANHOLE NOT FOUND WOODS
CITY OF CHATTANOOGA PUBLIC WORKS

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BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

STA. 735+50 TO STA. 747+50

SCALE: 1"= 50'

3/9/2026
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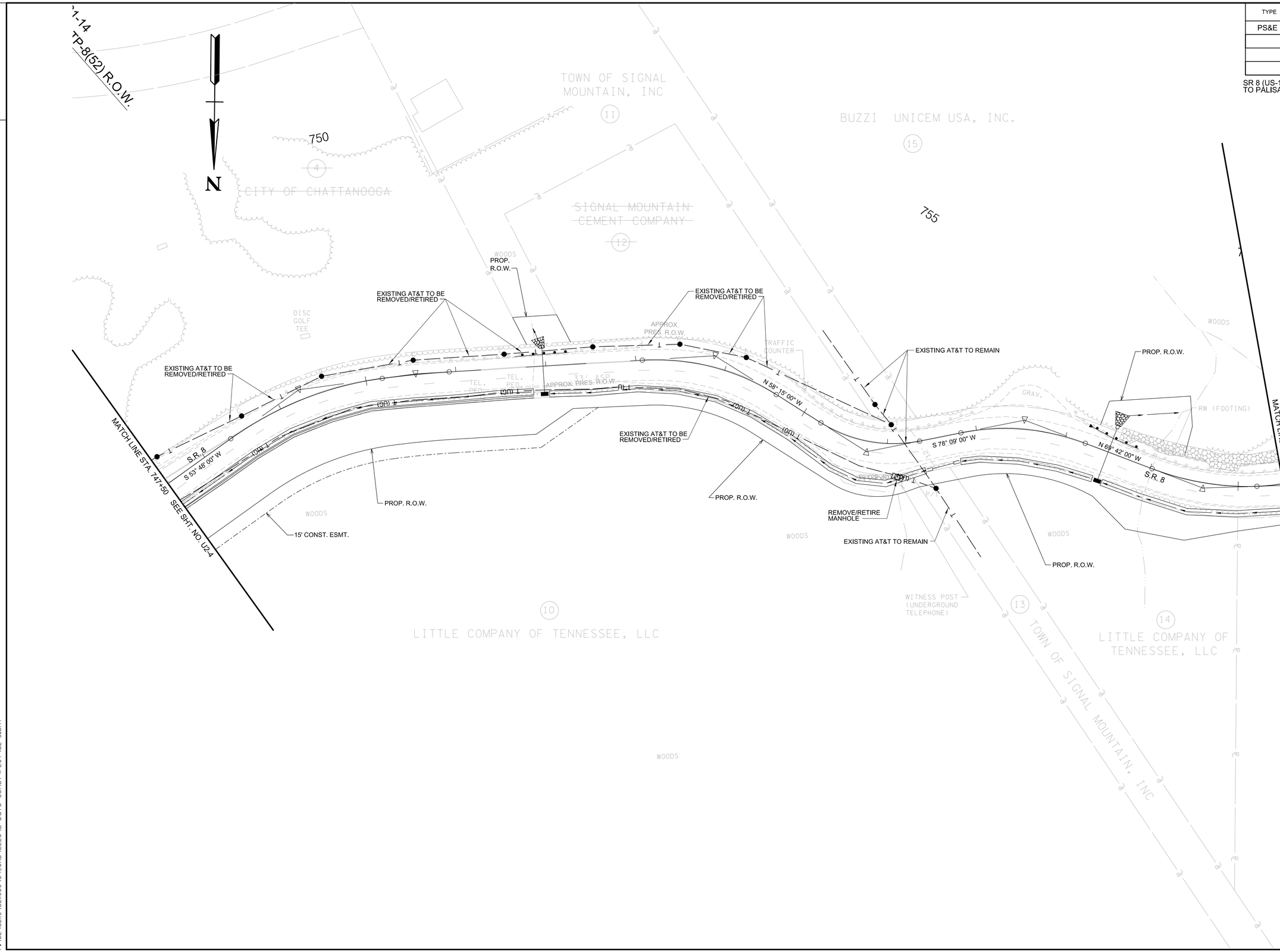
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U2-5
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD

HAMILTON

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



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BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

STA.747+50 TO STA.760+50

SCALE: 1"= 50'

3/9/2026
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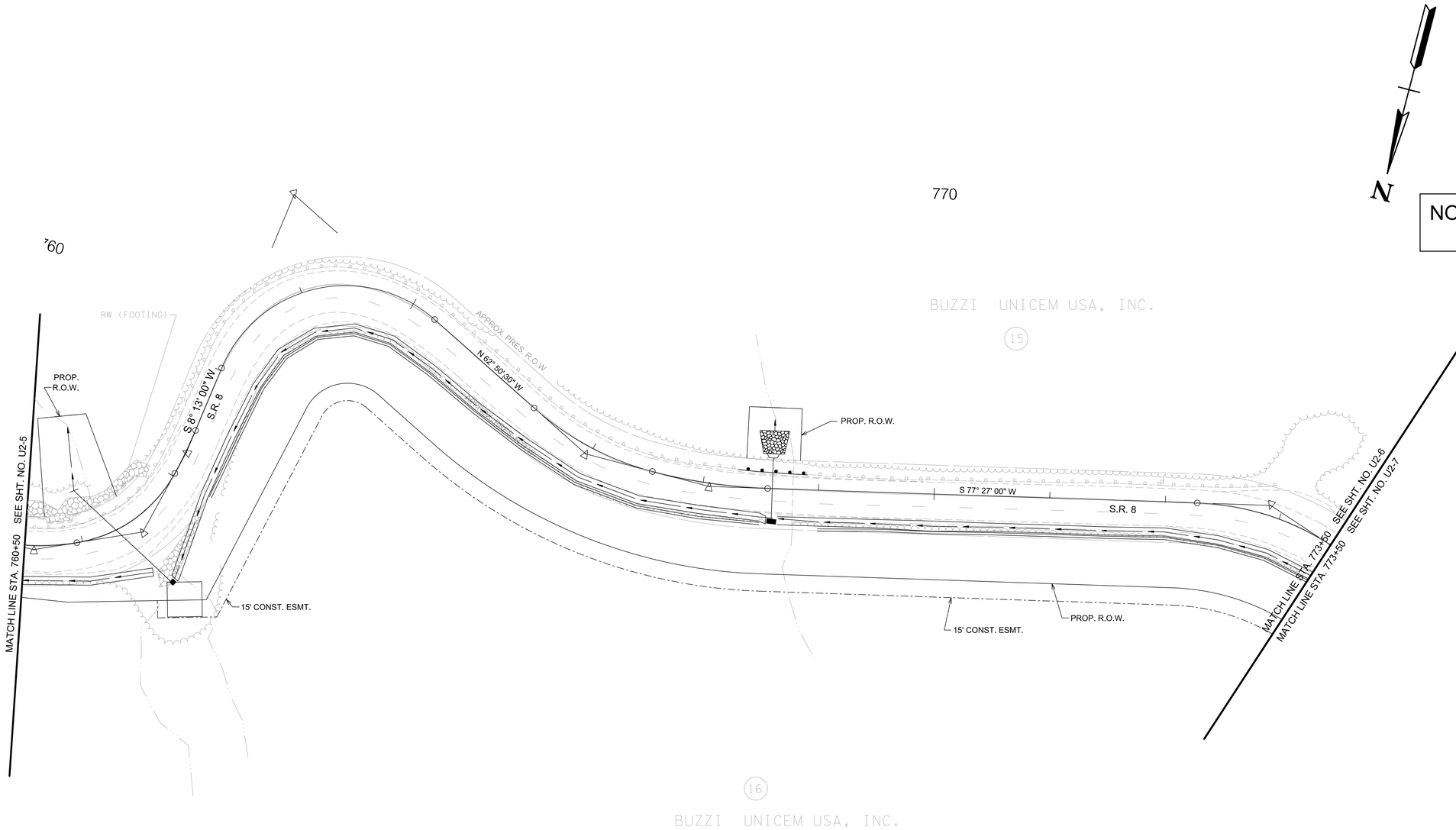
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U2-6
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD

HAMILTON

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

NO AT&T RELOCATIONS THIS SHEET



SEALED BY

ANDREW J. CLARK
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XVI
Andrew J. Clark
CONSULTING
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No. 106574
STATE OF TENNESSEE

BARGE DESIGN SOLUTIONS

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PHONE (865) 637-2810 // FAX (865) 673-8554
BARGE DESIGN PROJECT NO. 32119-89

AT&T
TENNESSEE

UTILITY RELOCATION

STA.760+50 TO STA.773+50

SCALE: 1"= 50'

3/9/2026
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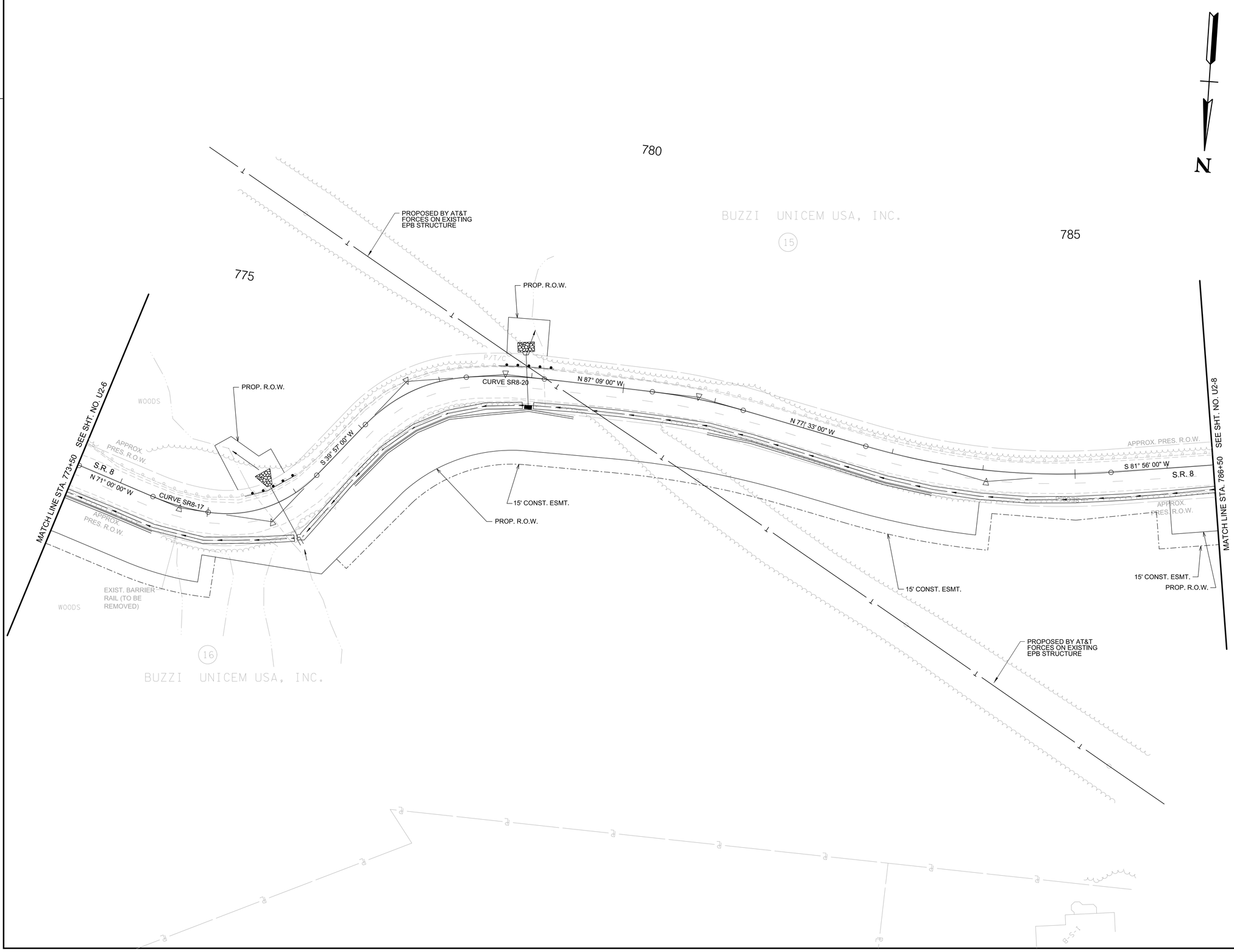
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U2-7
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON



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BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

STA.773+50 TO STA.786+50

SCALE: 1"= 50'

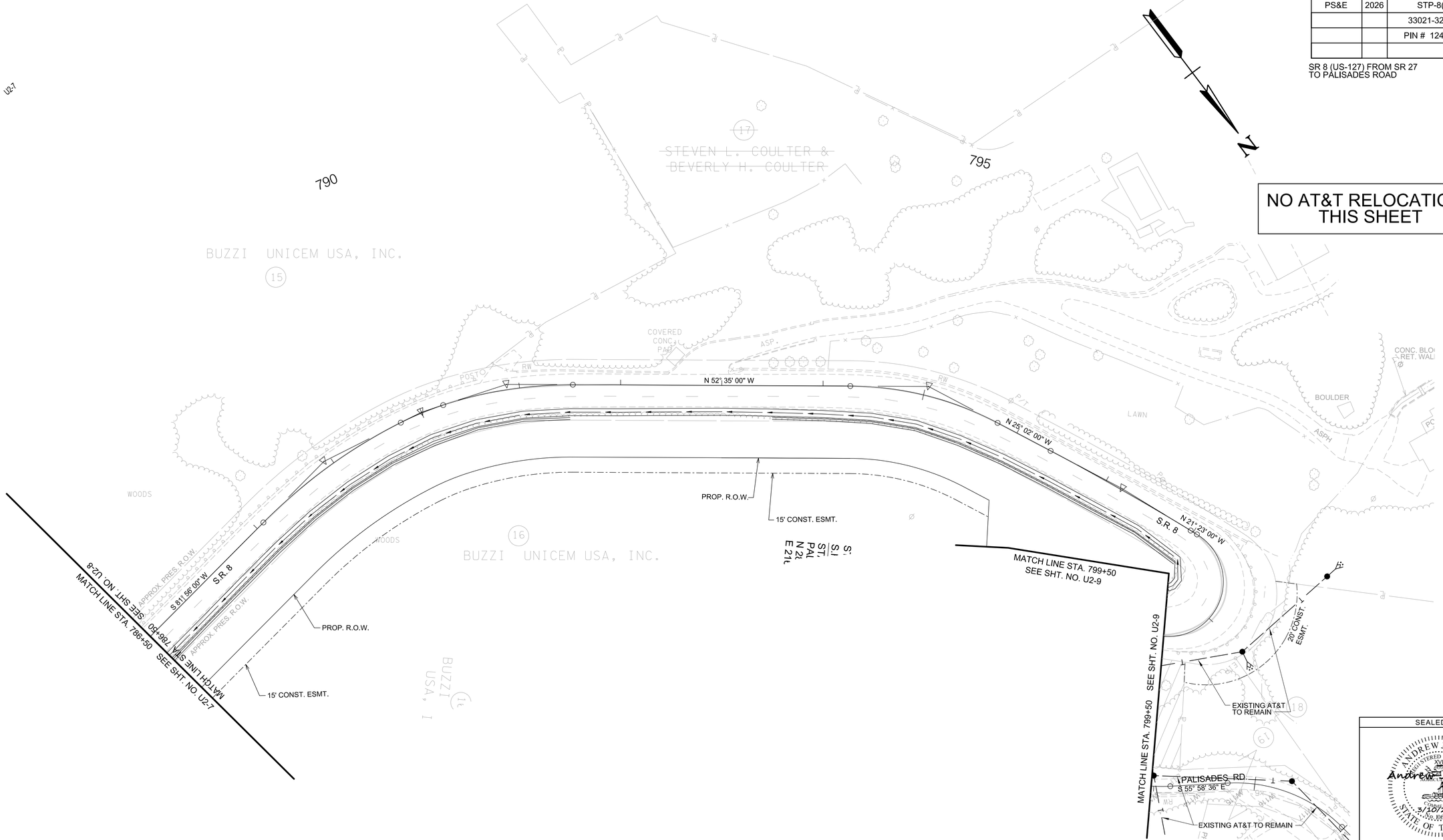
3/9/2026
F:\32\32119\32119989\04_CAD\ELEC\B Date Const\PLOT\U2-7.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U2-8
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

NO AT&T RELOCATIONS THIS SHEET



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BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

STA.786+50 TO STA.799+50

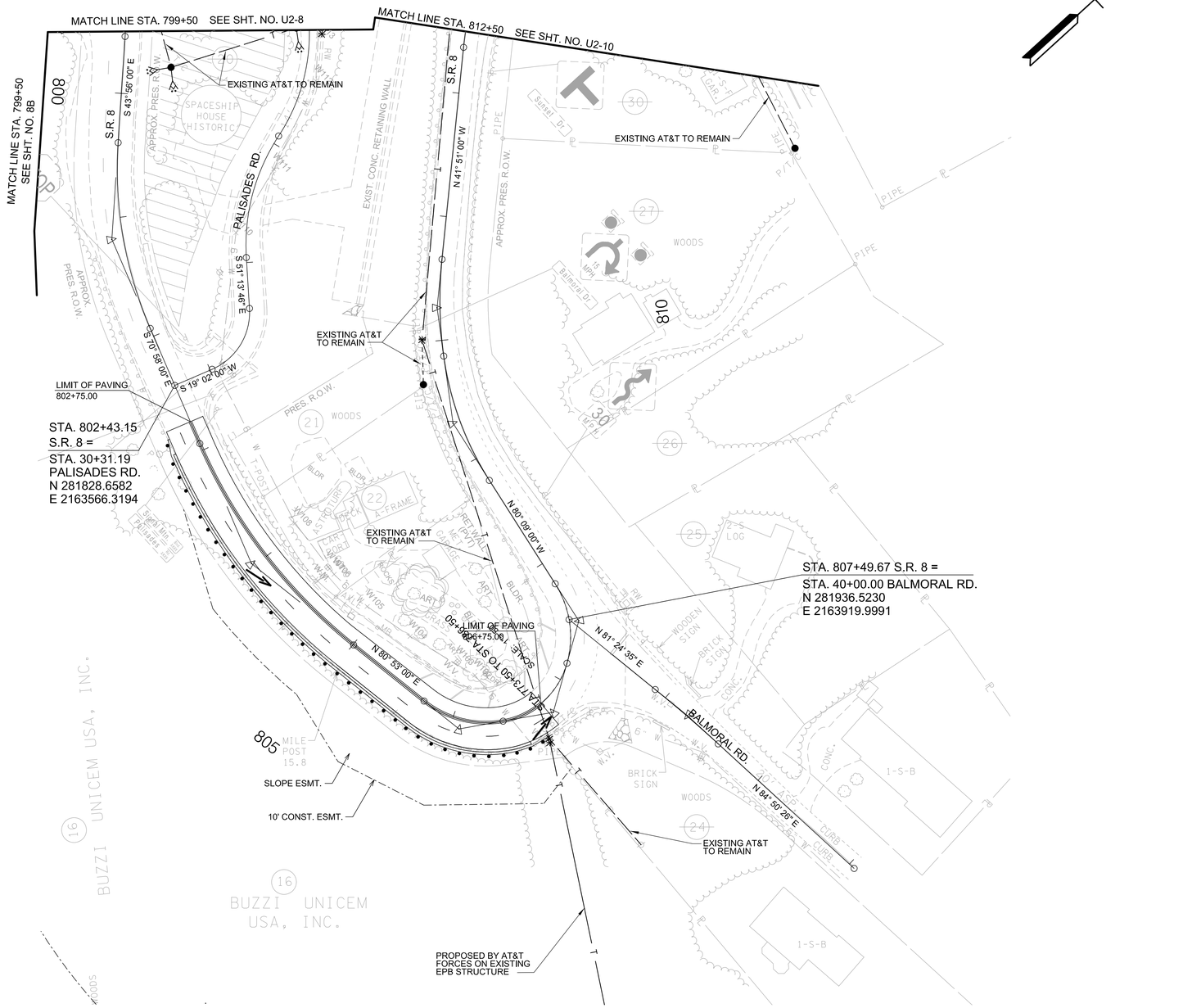
SCALE: 1"= 50'

3/9/2026
F:\32\32119\989\04_CAD\ELEC\B Date Const\PLOT\U2-8.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U2-9
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON



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BARGE DESIGN PROJECT NO. 32119-89

AT&T
TENNESSEE

UTILITY RELOCATION

STA. 799+50 TO STA. 812+50

SCALE: 1"= 50'

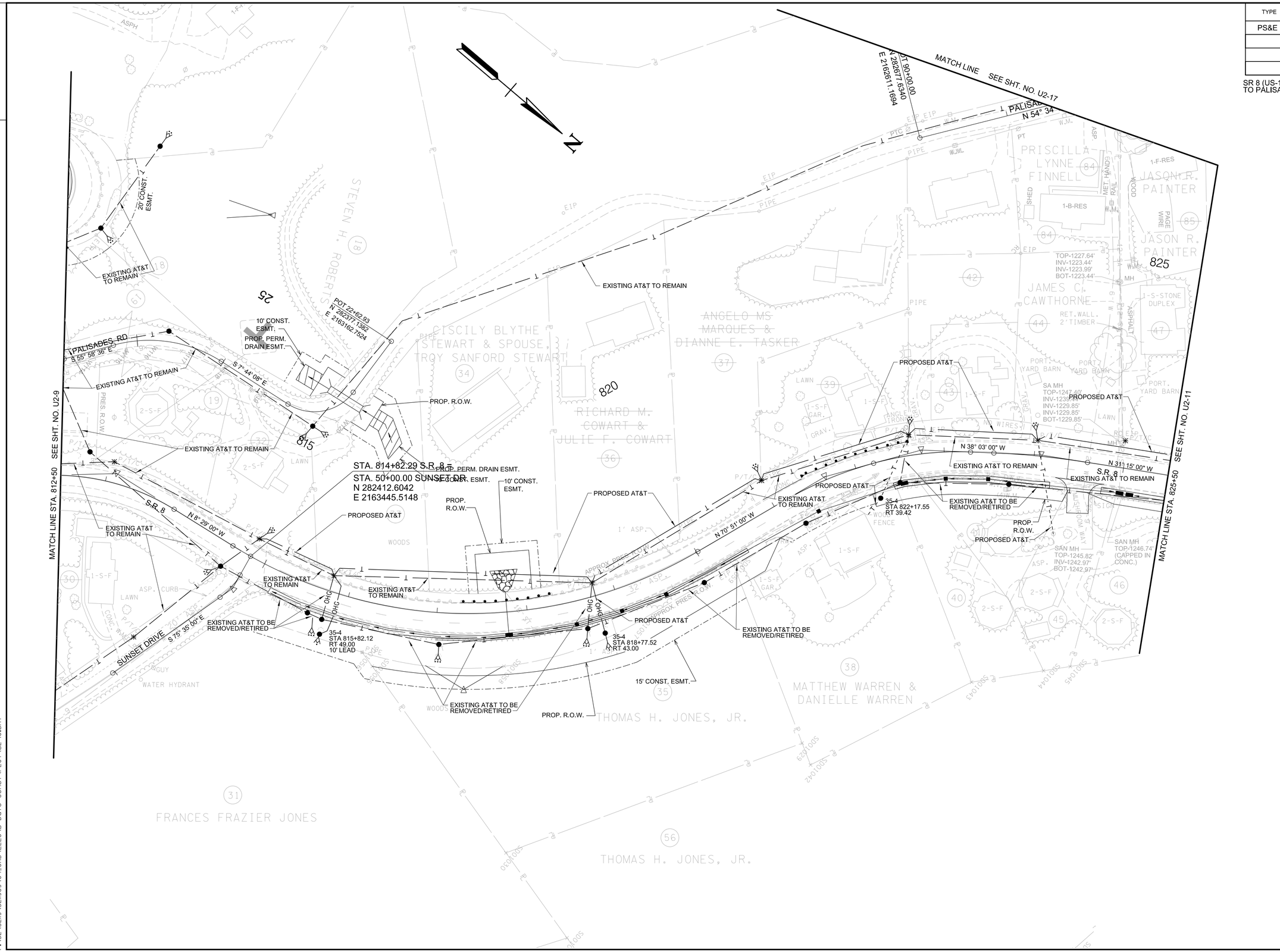
3/9/2026
F:\32\32ll9\32ll989\04_CAD\ELEC\B Date Const\PLOT\U2-9.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U2-10
		33021-3231-14	
		PIN # 124080.00	

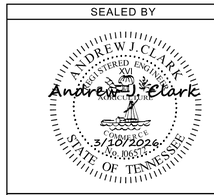
SR 8 (US-127) FROM SR 27 TO PALISADES ROAD

HAMILTON

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



SEALED BY



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BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

STA. 812+50 TO STA. 825+50

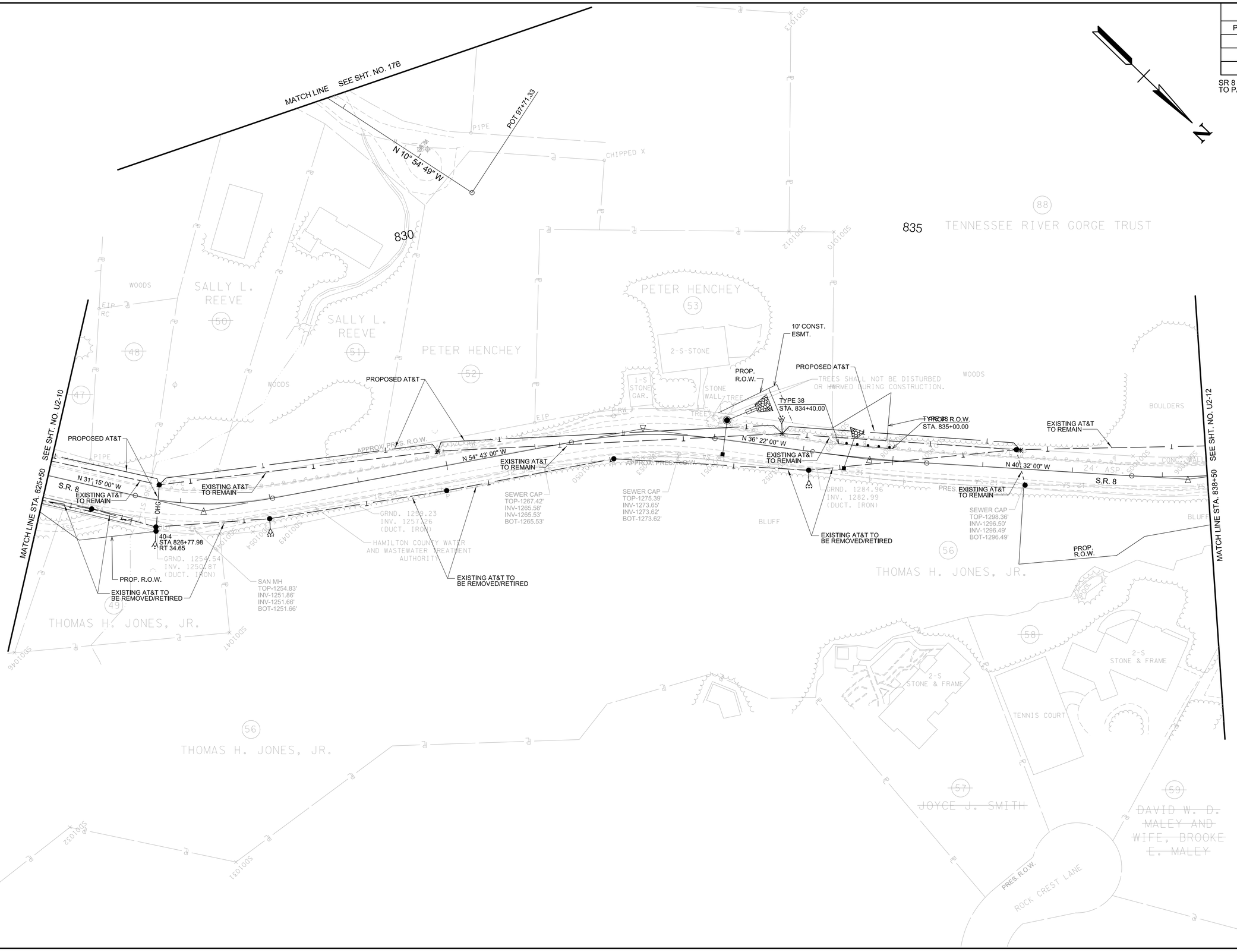
SCALE: 1"= 50'

3/9/2026
F:\32\32119\32119\04_CAD\ELEC\B Date Const\PLOT\U2-10.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U2-11
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



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BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

STA. 825+50 TO STA. 838+50

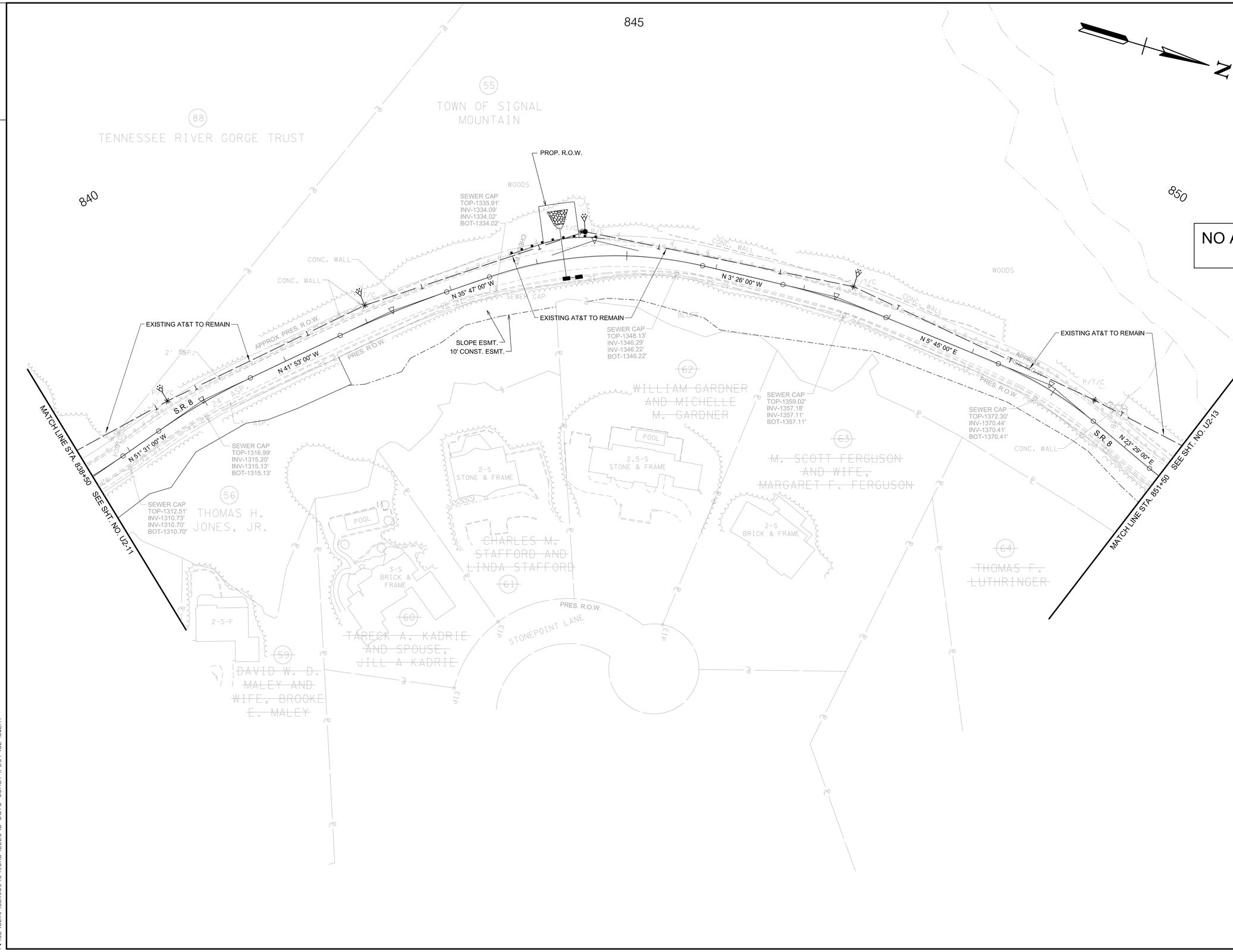
SCALE: 1"= 50'

3/9/2026
F:\32\32119\32119989\04_CAD\ELEC\B Date Const\PLOT\U2-11.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U2-12
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.



NO AT&T RELOCATIONS THIS SHEET

SEALED BY

ANDREW J. CLARK REGISTERED ENGINEER XVI Andrew J. Clark COMMERCE No. 106574 3/10/2026 STATE OF TENNESSEE

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BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

STA. 838+50 TO STA. 851+50

SCALE: 1"= 50'

3/9/2026
F:\32\32119\32119\04_CAD\ELEC\B Date Const\PLOT\U2-12.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U2-13
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

855

860

STA. 858+60.84 S.R. 8 =
STA. 60+00.00 SHOAL CREEK RD.
N 285872.9206
E 2161639.6807

TOWN OF SIGNAL MOUNTAIN

SAN MH
TOP-1422.96
INV(A)-1418.36
INV(B)-1418.36
INV(C)-1416.76

SAN MH
TOP-1428.02
INV(A)-1422.92
INV(B)-1422.82

SAN MH
TOP-1442.56
INV(A)-1437.16
INV(B)-1437.06

SAN MH
TOP-1451.08
INV(A)-1446.28
INV(B)-1446.28

WOODS

EXISTING AT&T TO REMAIN

CONC. WALL

APPROX. PRES. R.O.W.

10' CONST. ESMT.

N 21° 03' 00" E

N 44° 26' 29" E

N 22° 21' 30" E

N 1° 28' 00" W

S.R. 8

SHOAL CREEK RD.

N 32° 51' 17" E

N 14° 51' 00" E

PROP. R.O.W.

40-4
STA 865+11.68
RT 23.64

HAMILTON COUNTY WATER AND WASTEWATER TREATMENT AUTHORITY

GATE POST

SEWER CAP
TOP-1416.67'
INV-1412.67'
INV-1411.66'
INV-1411.66'
BOT-1411.66'

GRND. 1393.75
INV. 1392.14
(DUCT. IRON)

BLUFF

MILE POST 16

SEWER CAP
TOP-1388.50'
INV-1386.71'
INV-1386.69'
BOT-1386.69'

MH
TOP-1435.99
INV(A)-1426.19

GRND. 1422.47
INV. 1420.72
(DUCT. IRON)

GRND. 1430.39
INV. 1428.70
(DUCT. IRON)

SAN MH
TOP-1421.95
INV(A)-1416.25
INV(B)-1416.25, OUTSIDE DROP INV-1419.95
INV(C)-1416.15

MATCH LINE STA. 851+50 SEE SHT. NO. U2-12

MATCH LINE STA. 864+50 SEE SHT. NO. U2-14

55 56 63 64 65 66 67 68 69 71

THOMAS H. JONES, JR.

THOMAS F. LUTHRINGER

ROBERT R. RIESE & JENNIFER PAIGE REISE

WILLIAM CARL STEELE, III & HARRIET SUSAN STEELE

JUDITH G. ZWICKNAGEL & PAUL J. ZWICKNAGEL

DAVID O. EASON & MARCIA J. EASON

HOUSE OUTSIDE SURVEY LIMIT

ROCK CREST DRIVE

SEALED BY

ANDREW J. CLARK
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XVI
Andrew J. Clark
SIGNATURE
COMMISSION
3/10/2026
STATE OF TENNESSEE

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PHONE (865) 637-2810 // FAX (865) 673-4554

BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

STA. 851+50 TO STA. 864+50

SCALE: 1"= 50'

3/9/2026
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U2-14
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD HAMILTON

NO AT&T RELOCATIONS THIS SHEET



SEALED BY

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3/10/2026

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BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

STA. 864+50 TO STA. 877+50

SCALE: 1"= 50'

3/9/2026
F:\32\32119\32119989\04_CAD\ELEC\B Date Const\PLOT\U2-14.sht

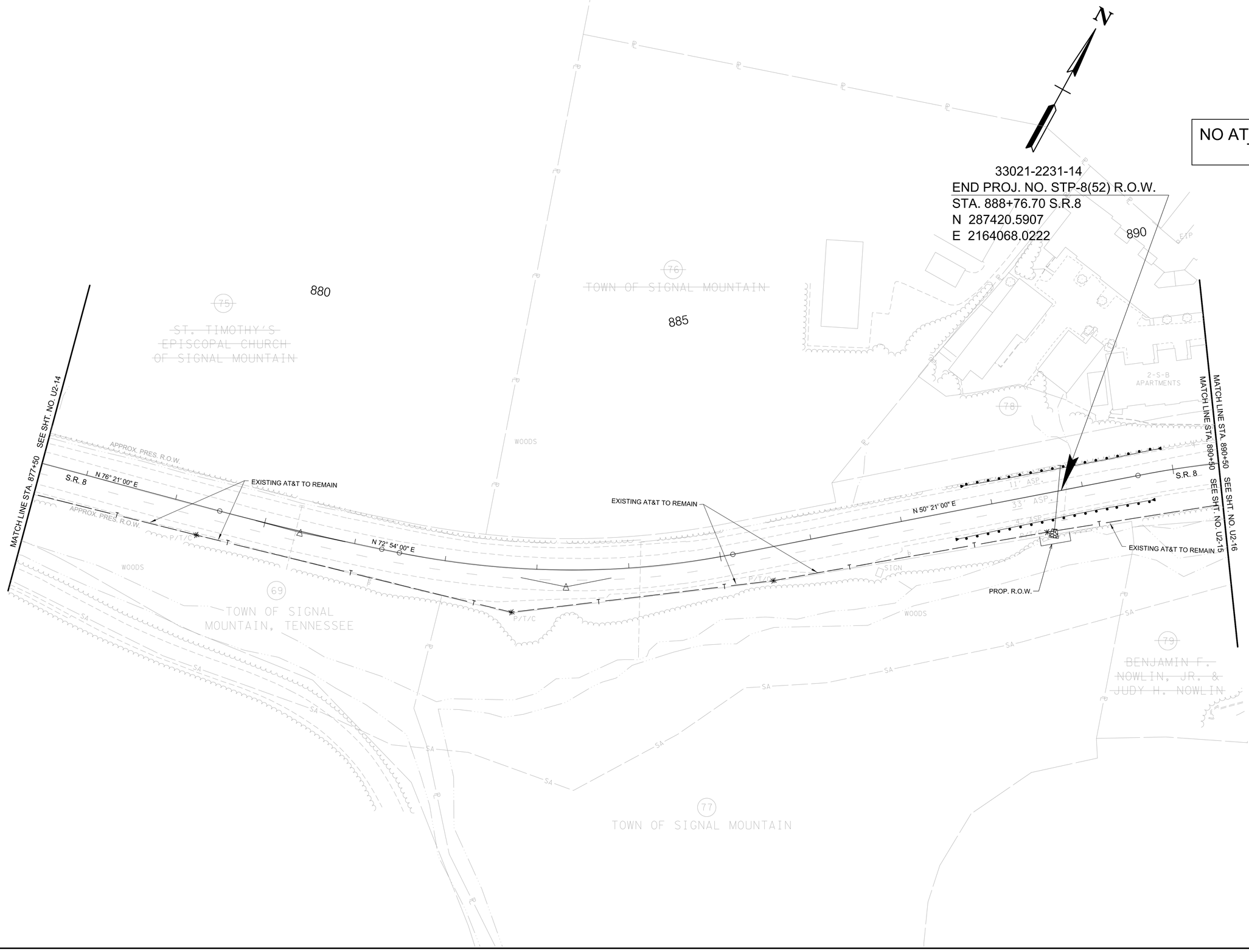
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U2-15
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

NO AT&T RELOCATIONS THIS SHEET

33021-2231-14
END PROJ. NO. STP-8(52) R.O.W.
STA. 888+76.70 S.R.8
N 287420.5907
E 2164068.0222



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3/10/2026
STATE OF TENNESSEE

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BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

STA. 877+50 TO STA. 890+50

SCALE: 1"= 50'

3/9/2026
F:\32\32119\04_CAD\ELEC\B Date Const\PLOT\U2-15.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U2-16
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

N

NO AT&T RELOCATIONS THIS SHEET

33021-3231-14
END PROJ. NO. STP-8(52) CONST.
STA. 891+00.00
N 287555.4249
E 2164245.7213

STA. 898+30.59 S.R. 8 =
STA. 90+00.00 MISSISSIPPI AVE.
N 287815.6644
E 2164926.4625

MATCH LINE STA. 890+50 SEE SHT. NO. U2-15

S.R. 8

SIGNAL MOUNTAIN BLVD

S 74° 50' 43" E

N 72° 37' 00" E

S 17° 23' 00" E

MISSISSIPPI AVE.

N 59° 54' 00" E

CARLIN ST

S 21° 56' 40" W

PALISADES DR.

S 25° 21' 34" E

S 11° 46' 13" E

EXISTING AT&T TO REMAIN

STA. 895+14.97 S.R. 8 =
STA. 70+00.00 SIGNAL MOUNTAIN BLVD.
N 287708.3305
E 2164629.9636

STA. 898+23.78 S.R. 8 =
STA. 80+00.00 PALISADES DR.
N 287812.8148
E 2164920.2652

THE TOWN OF SIGNAL MOUNTAIN

CSMTN LLC

CHARLES CLEMONS & EDNA R. CLEMONS

TOWN OF SIGNAL MOUNTAIN, TENNESSEE

2-S-B APARTMENTS

1-S-B (SIGNAL MOUNTAIN CLEANERS)

1-S-STONE (ORTHODONTICS)

1-S-B (PHARMACY)

1-S-BLOCK (CVS)

PER SIGNAL MOUNTAIN WATER DEPT.: SERVED BY MISSISSIPPI AVE. WATER LINE

MH TOP-1687.10 INV(A)-1671.65 INV(B)-1671.75, OUTSIDE DROP INV-1681.75 INV(C)-1671.55

MH TOP-1661.54 INV(A)-1656.34 INV(B)-1655.24 INV(C)-1654.64

MH TOP-1657.07 INV(A)-1647.87 INV(B)-1647.17 INV(C)-1647.07

MH TOP-1688.60 INV(A)-1682.36 INV(B)-1682.36 INV(C)-1682.46

APPROX. PRES. R.O.W.

MANHOLE NOT FOUND

EIP DISTURBED

SEALED BY

ANDREW J. CLARK
REGISTERED ENGINEER
XXI
Andrew J. Clark
3/10/2026
STATE OF TENNESSEE

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BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

STA. 890+50 TO STA. 903+50

SCALE: 1"= 50'

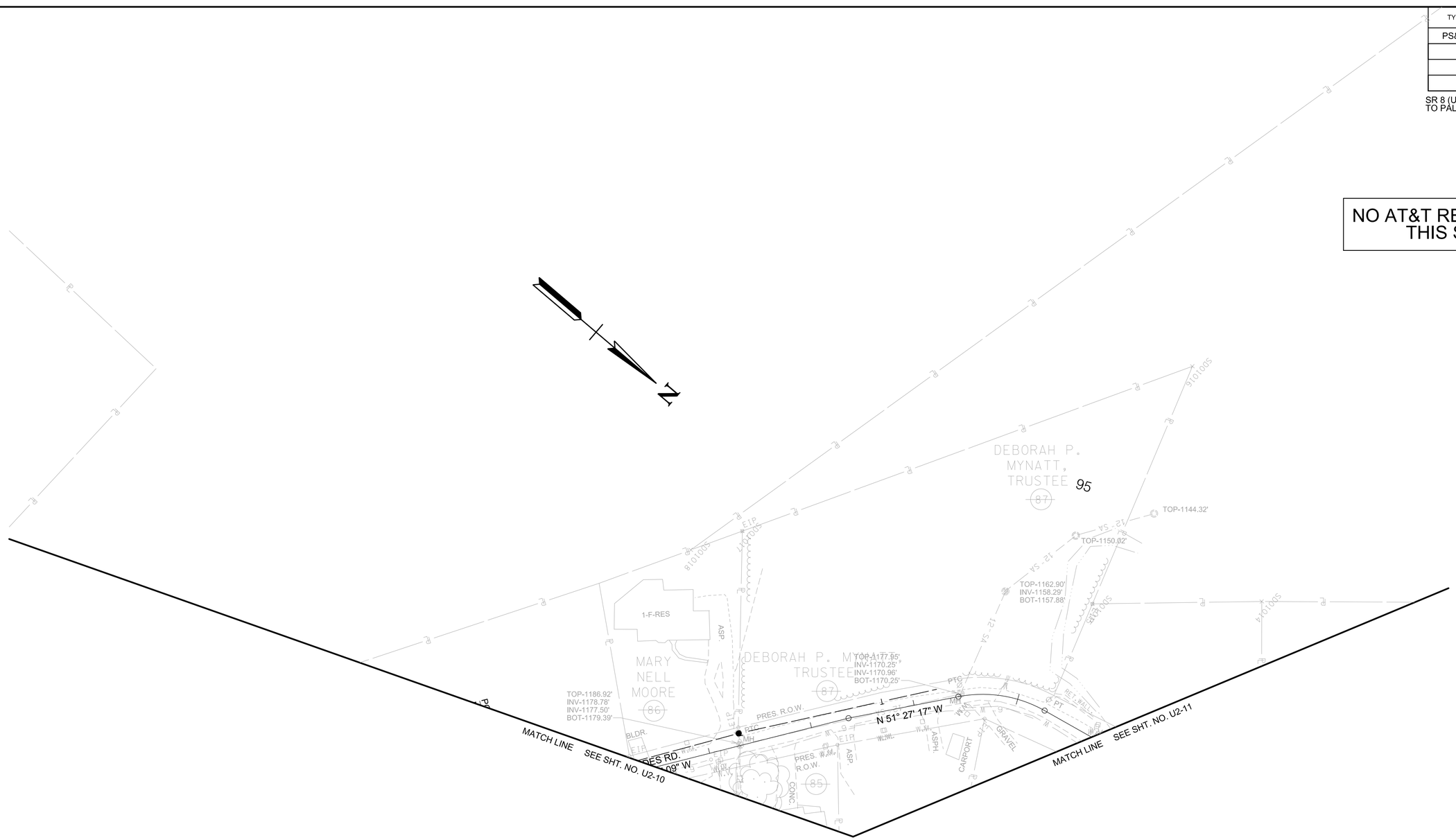
3/9/2026
F:\32\32119\04_CAD\ELEC\B Date Const\PLOT\U2-16.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U2-17
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD HAMILTON

NO AT&T RELOCATIONS THIS SHEET



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3/10/2026

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BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

PALISADES ROAD

SCALE: 1"= 50'

3/9/2026
F:\32\32119\32119\04_CAD\ELEC\B Date Const\PLOT\U2-17.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-8(52)	U2-1
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

UTILITIES INDEX

SHEET NAME	SHEET NUMBER
ESTIMATED UTILITY QUANTITIES	U2-1
SPECIAL CONDITIONS	U2-2
TDOT STANDARD UTILITY NOTES	U2-3
UTILITY RELOCATION STA. 735+50 TO STA. 747+50	U2-4
UTILITY RELOCATION STA. 747+50 TO STA. 760+50	U2-5
UTILITY RELOCATION STA. 760+50 TO STA. 773+50	U2-6
UTILITY RELOCATION STA. 773+50 TO STA. 786+50	U2-7
UTILITY RELOCATION STA. 786+50 TO STA. 799+50	U2-8
UTILITY RELOCATION STA. 799+50 TO STA. 812+50	U2-9
UTILITY RELOCATION STA. 812+50 TO STA. 825+50	U2-10
UTILITY RELOCATION STA. 825+50 TO STA. 838+50	U2-11
UTILITY RELOCATION STA. 838+50 TO STA. 851+50	U2-12
UTILITY RELOCATION STA. 851+50 TO STA. 864+50	U2-13
UTILITY RELOCATION STA. 864+50 TO STA. 877+50	U2-14
UTILITY RELOCATION STA. 877+50 TO STA. 890+50	U2-15
UTILITY RELOCATION STA. 890+50 TO STA. 903+50	U2-16
UTILITY RELOCATION PALISADES ROAD	U2-17

ESTIMATED UTILITY QUANTITIES

				Project No. 1: 33021-3231-14
	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	793-01.12	POLE 40FT CLASS 4 WOOD	EACH	1
2	793-01.41	ANCHOR 1 IN	EACH	3
3	793-16.01	MH (RETIRE/REMOVE/GRAVEL BACKFILL)	EACH	1
4	793-98.04	REMOVE POLES ALL SIZES	EACH	25

1 INCLUDES ALL MATERIALS, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION INCLUDING, BUT NOT LIMITED TO BUTT WRAP, MGNV, GROUND ROD, DIG HOLE, TAMP, BLASTING AND NUMBER POLE.

2 INCLUDES ALL MATERIALS, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION INCLUDING BUT NOT LIMITED TO DIGGING HOLE, BLASTING OR MECHANICALLY INSERTING INTO GROUND, BONDING/GROUNDING.

3 INCLUDES ALL LABOR INCLUDING TRAFFIC CONTROL AND SETUP, REMOVAL OF LID AND COLLARS, BACKFILL WITH GRAVEL.

4 INCLUDES TRAFFIC CONTROL, LABOR AND EQUIPMENT

GENERAL NOTES:

1. ALL PLACEMENT OF DUCT BANKS TO BE AT 36" DEPTH TO FINAL GRADE IN CUTS, 36" DEPTH TO CURRENT GRADE IN FILLS.
2. PROVIDE CABLE MARKERS EVERY 500' AND IN-LINE OF SIGHT FROM EACH MARKER. ADD MARKERS AT ALL ROAD CROSSINGS.
3. SEE DETAIL SHEETS FOR MANHOLE SPECIFICATIONS.
4. RETURN TO AT&T EXISTING MANHOLE FRAME/COVERS REMOVED. BACKFILL MANHOLES ACCORDING TO T.D.O.T. REQUIREMENTS.
5. COORDINATE CROSSINGS WITH EXISTING AND PROPOSED UTILITIES TO SET FINAL GRADE FOR DUCT BANKS.
6. GROUND BED LOCATIONS AS SPECIFIED.
7. SURVEY INFORMATION IN THESE DRAWINGS ARE FROM OTHERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES. ANY UTILITIES NOT SHOWN ON THESE DRAWINGS ARE ALSO THE RESPONSIBILITY OF THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO, AND FOR PROTECTION OF ALL EXISTING UTILITIES.

LEGEND:

- TEMPORARY LOCATION (BLUE)
- EXISTING TO REMAIN (ORANGE)
- EXISTING TO BE REMOVED OR RETIRED (GREEN)
- NEW INSTALLATION (RED)
- T (UG) — NEW AT&T UNDERGROUND CABLE (DIRECT BURIED)
- T — NEW AT&T OVERHEAD LINE
- T — NEW AT&T SERVICE DROP
- OHG — NEW OVERHEAD GUY
- T (UG) — EXISTING AT&T UNDERGROUND CABLE TO REMAIN
- T — EXISTING AT&T OVERHEAD LINE TO REMAIN
- T — EXISTING AT&T SERVICE DROP TO REMAIN
- OHG — EXISTING OVERHEAD GUY TO REMAIN
- T (UG) — EXISTING AT&T UNDERGROUND CABLE TO BE REMOVED OR RETIRED
- T — EXISTING AT&T OVERHEAD LINE TO BE REMOVED OR RETIRED
- T — EXISTING AT&T SERVICE DROP TO BE REMOVED OR RETIRED
- OHG — EXISTING OVERHEAD GUY TO BE REMOVED/RETIRED
- EXISTING AT&T POLE TO REMAIN
- EXISTING AT&T POLE TO BE REMOVED OR RETIRED
- NEW INSTALLATION OF AT&T POLE
- NEW INSTALLATION OF AT&T POLE WITH GUY WIRE
- EXISTING AT&T GUY WIRE TO REMAIN
- EXISTING AT&T GUY WIRE TO BE REMOVED
- NEW INSTALLATION OF AT&T GUY WIRE
- EXISTING ELECTRIC UTILITY POLE TO REMAIN
- EXISTING ELECTRIC UTILITY POLE TO BE REMOVED OR RETIRED
- NEW INSTALLATION OF ELECTRIC UTILITY POLE
- EXISTING AT&T PUSH BRACING TO REMAIN
- EXISTING AT&T PUSH BRACING TO BE REMOVED
- NEW AT&T PUSH BRACING
- TELE — EXISTING AT&T PULL BOX TO REMAIN
- TELE — EXISTING AT&T PULL BOX TO BE REMOVED OR RETIRED
- TELE — NEW INSTALLATION OF AT&T PULL BOX
- NEW INSTALLATION OF AT&T MANHOLE
- NEW INSTALLATION OF AT&T HANDHOLE

UTILITY COMPANY CONTACT

AT&T TENNESSEE
300 E. MARTIN LUTHER KING BOULEVARD
CHATTANOOGA, TENNESSEE 37403
JOE PERREL
423-488-2825
EMAIL: JP1389@ATT.COM

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BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

ESTIMATED UTILITY QUANTITIES

SCALE: NONE

5/6/2026
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-8(52)	U2-2
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

AT&T SPECIAL CONDITIONS AND ADDITIONAL BREAKDOWN OF TIME

1. IF ALL OTHER SECTIONS OF AT&T'S WORK IS READY AT THE SAME TIME, THEN 123 DAYS IS NEEDED TO COMPLETE THE PROJECT. TO HELP KEEP THE PROJECT MOVING FORWARD, AT&T AGREES TO WORK SECTIONS OF PLACEMENT AND CUTOVER AS THEY BECOME AVAILABLE AS LONG AS THEY CAN LOGISTICALLY BE WORKED, AND DO NOT PLACE ADDITIONAL COSTS ON AT&T OR CAUSE ANY SAFETY CONCERNS. AT&T ALSO AGREES TO EVALUATE AND WORK WITH THE STATE CONTRACTOR IF THERE ARE TEMPORARY RELOCATIONS THAT ARE NEEDED. THESE TEMPORARY RELOCATIONS WILL HAVE THEIR OWN SCHEDULE OF CALENDAR DAYS AND MAY BE 100% REIMBURSABLE IN ADDITION TO ANY CHAPTER 86 REIMBURSEMENTS.

2. BY BREAKING IT DOWN INTO SECTIONS, EACH SECTION HAS ITS OWN MOBILIZATION AND MATERIAL ORDERING TIME. THE SPECIAL CONDITIONS APPLY TO EACH SECTION INDIVIDUALLY; HOWEVER, ADDITIONAL CLARIFICATION WILL BE INCLUDED IN EACH SECTION.

3. THE CONSTRUCTION SCHEDULE LISTED INCLUDES STANDARD MATERIAL ORDERING INTERVALS, PROJECTED WORKLOADS AT THE TIME OF CONSTRUCTION, ESTIMATED WORK CONTENT, AND LIMITED DELAYS DUE TO WEATHER OR CUSTOMER RELEASES FOR SCHEDULED SERVICE INTERRUPTIONS. COMPLETION OF WORK IS ALSO CONTINGENT ON NATIONAL OR STATE EMERGENCY ORDERS WHICH CAN RESTRICT TELECOMMUNICATIONS WORK.

4. THE CONSTRUCTION SCHEDULE LISTED CANNOT BE IMPLEMENTED UNTIL AT&T HAS BEEN NOTIFIED IN WRITING BY TDOT AND/OR THE STATE CONTRACTOR THAT ALL AT&T ITEMS INCLUDED IN THE STATE CONTRACT HAVE BEEN PLACED, ALL POWER COMPANY POLES HAVE BEEN SET, AND ALL OTHER OVERHEAD UTILITIES HAVE BEEN TRANSFERRED DUE TO SAFETY REGULATIONS AND POTENTIAL CONSTRUCTION CONFLICTS.

5. ALL SCHEDULES/SECTIONS ARE BASED ON AT&T BEING ABLE TO GET APPROVAL FROM TDOT FOR USE OF THE DIMINIMIS FOR THOSE ITEMS THAT CANNOT BE OBTAINED USING FHWA/BUY AMERICA APPROVED STEEL. ANY DELAYS ON APPROVAL OF THESE ITEMS WILL CAUSE AN EQUAL DELAY ON AT&T'S SCHEDULE.

6. ANY CHANGES THAT THE STATE'S CONTRACTOR MAKES TO THE PLANS PROVIDED TO THEM BY TDOT MAY CAUSE A REDESIGN TO AT&T'S PLANS. AT&T WILL REQUIRE TIME TO EVALUATE AND MAKE CHANGES IF NECESSARY. THESE CHANGES WILL HAVE TO BE APPROVED BY TDOT THROUGH A FORMAL STAMPED REDESIGN AND WILL REQUIRE ADDITIONAL TIME ON THE SCHEDULE. AT&T'S TIME WILL NOT START UNTIL AFTER THE DESIGN CHANGES AND ALL OTHER SPECIAL CONDITIONS HAVE BEEN APPROVED/COMPLETED.

7. AT&T CAN MOVE OVERHEAD LINES IN SOME INSTANCES BEFORE OTHER COMMUNICATION COMPANIES; HOWEVER, THIS COULD CAUSE ADDITIONAL TIME DELAYS AND COSTS TO AT&T AND TO THOSE OTHER COMPANIES. THESE COSTS MAY BE SUBJECT TO THE PARAGRAPH ABOVE.

8. WHEN REFERRING TO "ALL" POWER COMPANY POLES OR "ALL" OTHER OVERHEAD UTILITIES, IT IS ONLY REFERRING TO THOSE POLES THAT HAVE AN IMPACT ON AT&T'S RELOCATION.

9. THIS SCHEDULE IS ALSO DEPENDENT ON AT&T HAVING ACCESS TO ALL OF ITS EXISTING FACILITIES UNTIL SUCH TIME AS THEY ARE NO LONGER IN SERVICE AND ARE READY TO BE RETIRED. EXISTING MANHOLE LIDS MAY REQUIRE RAISING TO MAINTAIN ACCESSIBILITY UNTIL IT CAN BE RETIRED.

10. AT&T MUST BE CONSULTED PRIOR TO CONTRACTOR REVISING SUGGESTED TDOT TRAFFIC CONTROL PHASING.

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AT&T TENNESSEE

SPECIAL CONDITIONS

SCALE: NONE

5/6/2026
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-8(52)	U2-3
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

TDOT STANDARD GENERAL NOTES:

1. EXCEPT FOR EROSION SEDIMENT CONTROL ITEMS, NO ROADWAY OR BRIDGE ITEMS SHALL BE UTILIZED TO COMPENSATE FOR WORK METHODS OR MATERIALS ASSOCIATED WITH AND/OR SPECIFIED FOR THE UTILITY INSTALLATION, EVEN THOUGH THE SAME OR SIMILAR ROADWAY OR BRIDGE MATERIALS MAY HAVE BEEN CALLED FOR IN THE UTILITY SPECIFICATIONS OR DRAWINGS.
2. ALL MATERIALS, METHODS, AND/OR INTEGRAL MATERIALS OUTLINED IN THE UTILITY SPECIFICATIONS OR DRAWINGS NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION MUST BE INCLUDED IN THE UNIT PRICE FOR THE ASSOCIATED UTILITY WORK ITEM.
3. THE CONTRACTOR MUST MAINTAIN ALL SERVICES DURING THE CONSTRUCTION OF THE RELOCATED FACILITY. ANY COSTS ASSOCIATED WITH INSTALLATION OF REQUIRED TEMPORARY SERVICE LINES DUE TO THE ROADWAY CONSTRUCTION SEQUENCE OF WORK (I.E., CUTS, FILLS, PHASING, ETC.) SHALL BE INCLUDED IN THE COST OF THE PERMANENT UTILITY ITEMS.
4. IT SHALL BE THE RESPONSIBILITY OF THE PRIME CONTRACTOR'S SURVEYOR TO LAY OUT ALL THE FACILITIES BEING RELOCATED WITHIN THE CONTRACT.
5. FOR BURIED UTILITIES, THE PRIME CONTRACTOR OR SUBCONTRACTOR SHALL BE REQUIRED TO PROVIDE TO THE UTILITY UPON COMPLETION OF THE UTILITY'S RELOCATION WORK A SET OF AS-BUILT DRAWINGS FOR THEIR RECORDS. THESE AS-BUILT DRAWINGS SHOULD BE PREPARED AS THE JOB PROGRESSES TO ENSURE THEIR ACCURACY.
6. WHERE EROSION CONTROL MEASURES ARE NEEDED FOR THE UTILITY RELOCATION WORK OCCURRING INSIDE OR OUTSIDE STATE RIGHT-OF-WAY, THE CONTRACTOR SHALL SUBMIT TO THE TDOT PROJECT SUPERVISOR FOR APPROVAL A PROPOSED EROSION AND SEDIMENT CONTROL PLAN PRIOR TO BEGINNING THE WORK. TDOT APPROVAL MUST BE RECEIVED BEFORE THE EROSION CONTROL PAY ITEMS FOR ROADWAY CONSTRUCTION CAN BE USED FOR ANY ADDITIONAL EROSION CONTROL MEASURES REQUIRED FOR THE UTILITY RELOCATION WORK.
7. DRIVEWAY, SIDEWALK AND ROADWAY TEMPORARY RESTORATION SHALL BE PART OF THE IN-PLACE COST OF PLACING THE UTILITY ITEM WITHIN THE ROW.
8. ANY EXCAVATION OF THE STREAM CHANNEL AREA SHALL BE SEPARATED FROM FLOWING WATER AND ACCOMPLISHED DURING LOW FLOW CONDITIONS. THIS SHALL BE ACCOMPLISHED BY THE USE OF FLUMES, LINED DIVERSION CHANNEL WITH SANDBAG BERM, DIVERSION PIPE WITH SANDBAG DAM AT PIPE INLET, OR IN SOME CASES COFFERDAMS. ALTERNATIVELY, BASED ON FIELD CONDITIONS AND CONTRACTOR SELECTION, THE UTILITY RELOCATION MAY BE ACCOMPLISHED USING BORE TECHNOLOGY WITH NO STREAM CHANNEL IMPACTS.

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AT&T TENNESSEE

TDOT STANDARD UTILITY NOTES

5/6/2026
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-8(52)	U2-4
		33021-3231-14	
		PIN # 124080.00	

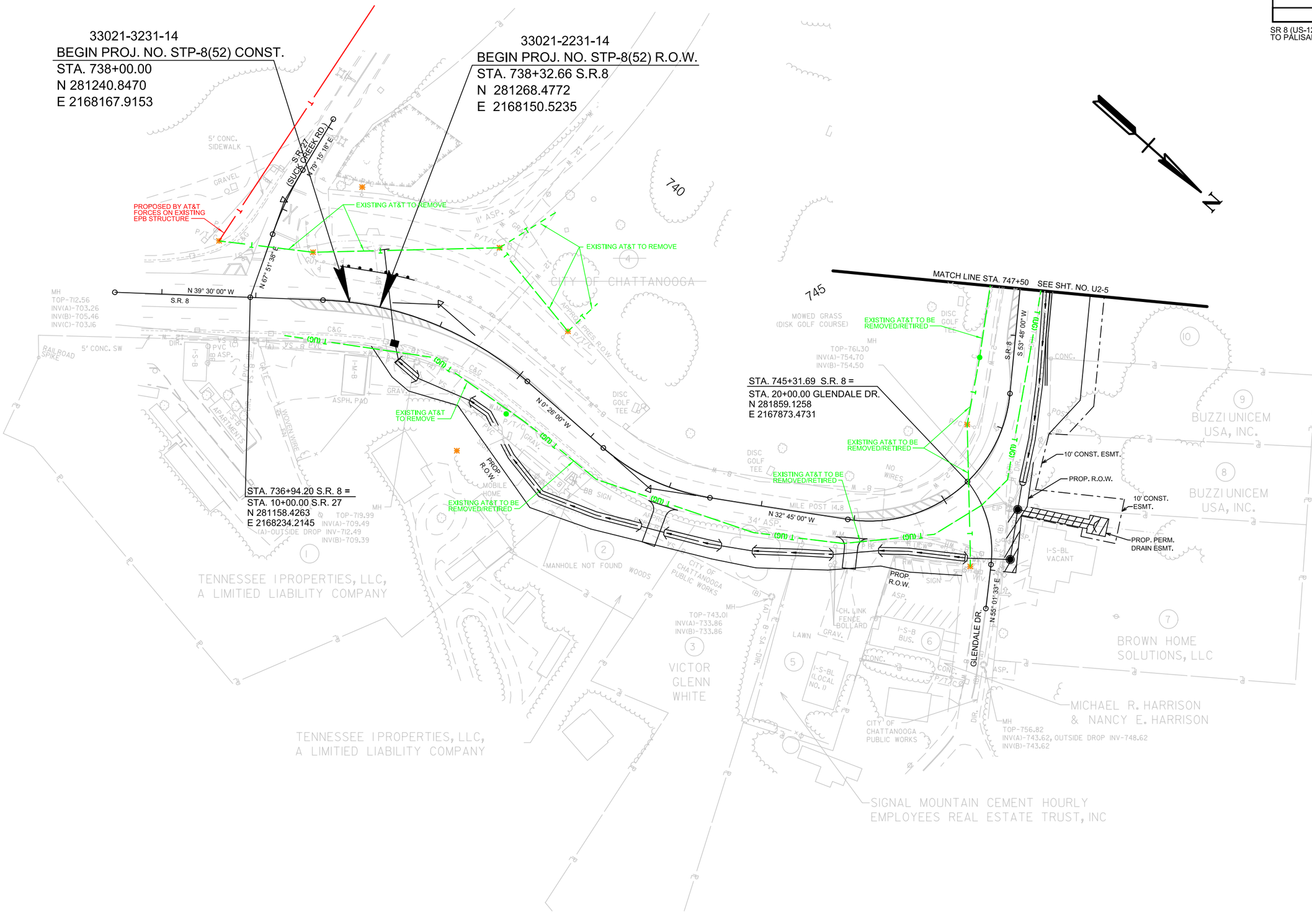
SR 8 (US-127) FROM SR 27 TO PALISADES ROAD

HAMILTON

TENNESSEE D.O.T.

DESIGN DIVISION

FILE NO.



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BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

STA. 735+50 TO STA. 747+50

SCALE: 1"= 50'

5/6/2026
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-8(52)	U2-5
		33021-3231-14	
		PIN # 124080.00	

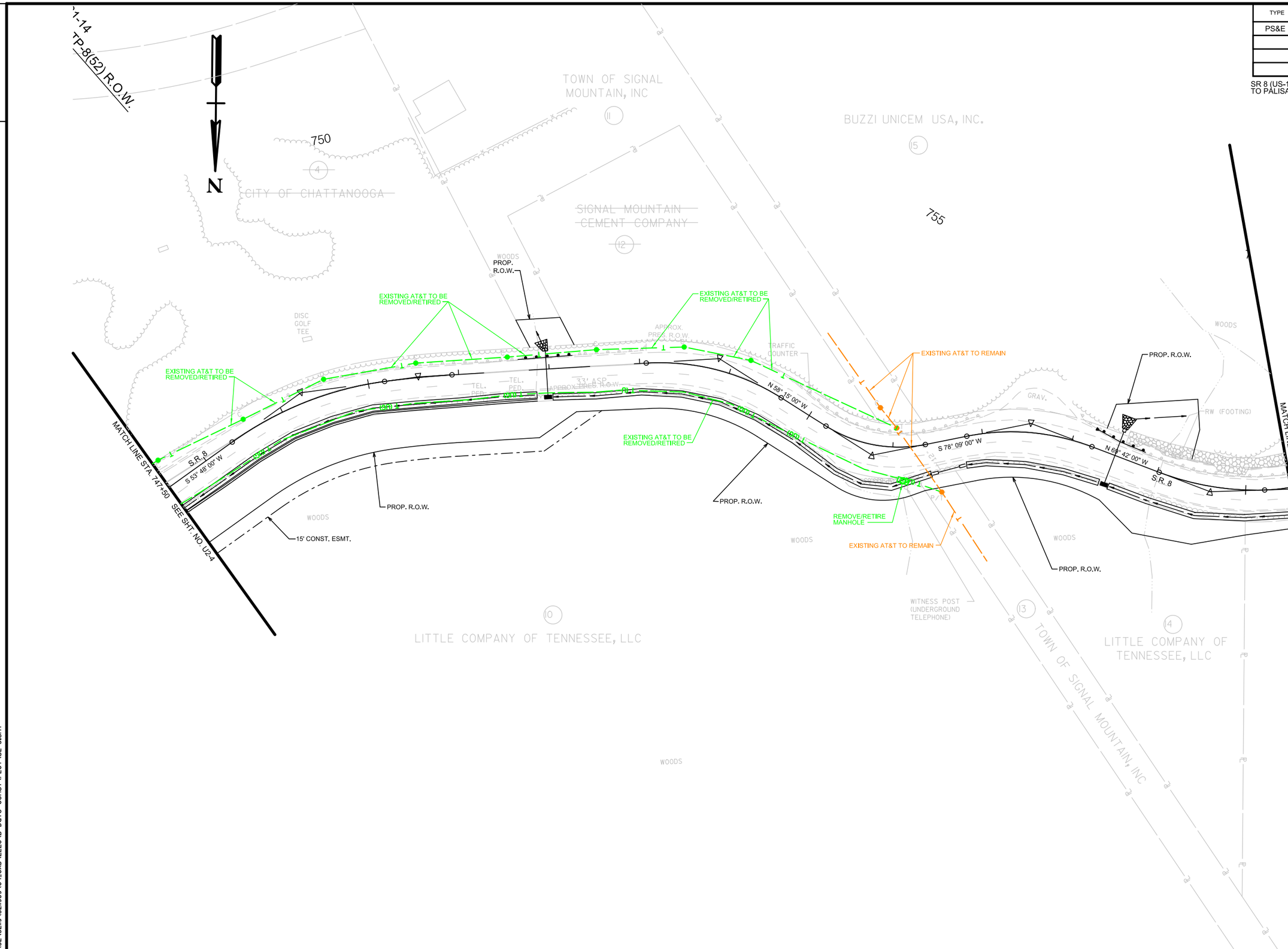
SR 8 (US-127) FROM SR 27 TO PALISADES ROAD

HAMILTON

TENNESSEE D.O.T.

DESIGN DIVISION

FILE NO.



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BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

STA.747+50 TO STA.760+50

SCALE: 1"= 50'

5/6/2026
F:\32\32119\32119989\04_CAD\ELEC\B Date Const\PLOT\U2-5.sht

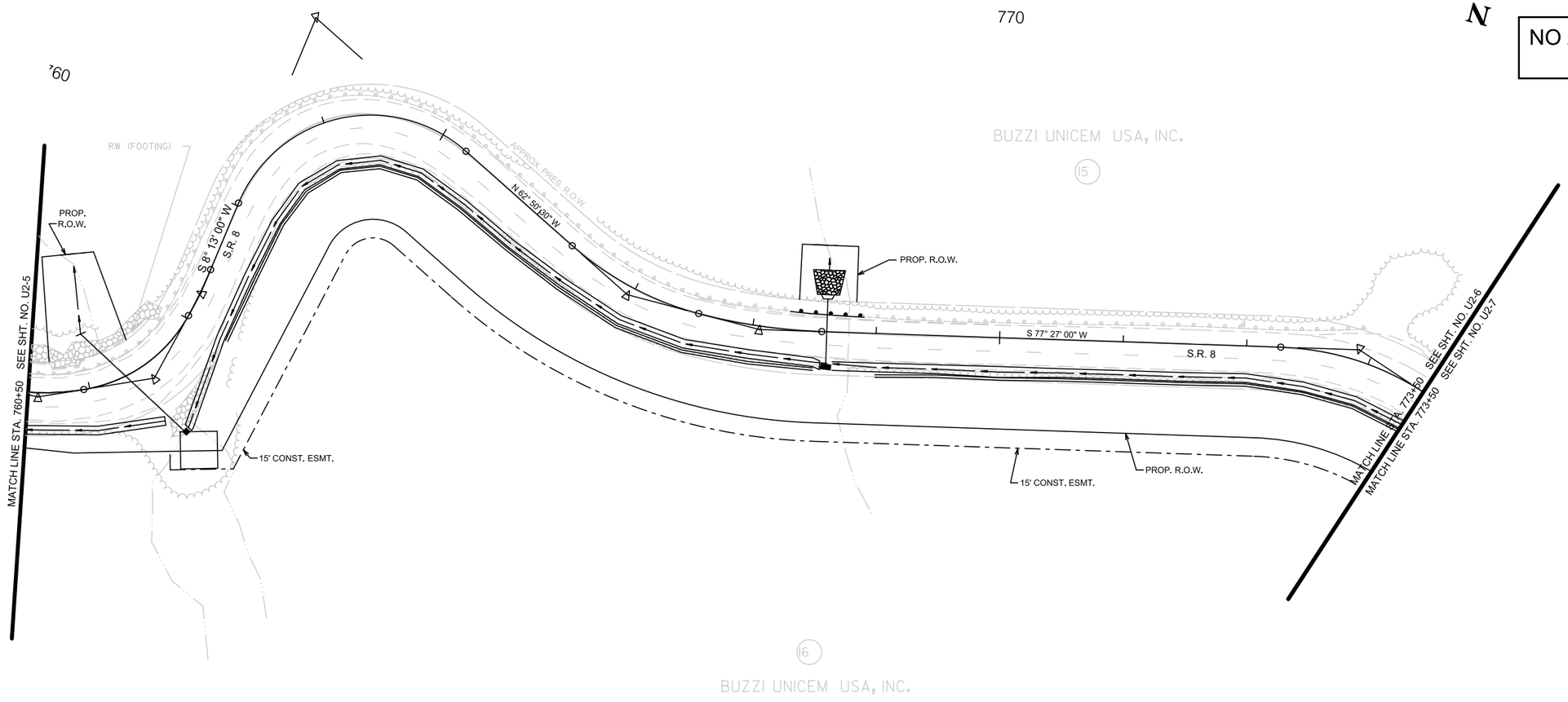
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-8(52)	U2-6
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

N

NO AT&T RELOCATIONS THIS SHEET



BUZZI UNICEM USA, INC.
I5

BUZZI UNICEM USA, INC.
I6

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AT&T TENNESSEE

UTILITY RELOCATION

STA.760+50 TO STA.773+50

SCALE: 1"= 50'

5/6/2026
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-8(52)	U2-7
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

N

780

785

775

PROPOSED BY AT&T FORCES ON EXISTING EPB STRUCTURE

BUZZI UNICEM USA, INC.

15

PROP. R.O.W.

CURVE SR8-20

N 87° 09' 00" W

N 77[33' 00" W

S 81° 56' 00" W

S.R. 8

APPROX. PRES. R.O.W.

S 39° 57' 00" W

N 71° 00' 00" W

CURVE SR8-17

MATCH LINE STA. 773+50 SEE SHT. NO. U2-6

MATCH LINE STA. 786+50 SEE SHT. NO. U2-8

15' CONST. ESMT.

PROP. R.O.W.

EXIST. BARRIER RAIL (TO BE REMOVED)

WOODS

16

BUZZI UNICEM USA, INC.

PROPOSED BY AT&T FORCES ON EXISTING EPB STRUCTURE

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AT&T TENNESSEE

UTILITY RELOCATION

STA.773+50 TO STA.786+50

SCALE: 1"= 50'

5/6/2026
F:\32\32119\32119\04_CAD\ELEC\B Date Const\PLOT\U2-7.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-8(52)	U2-8
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

NO AT&T RELOCATIONS THIS SHEET

U2-7

790

795

STEVEN L. COULTER & BEVERLY H. COULTER

BUZZI UNICEM USA, INC.

COVERED CONC. PAD

ASP.

POST

RW

N 52° 35' 00" W

N 25° 02' 00" W

N 21° 23' 00" W

S.R. 8

LAWN

BOULDER

ASPH

CONC. BLO RET. WAL

WOODS

PROP. R.O.W.

15' CONST. ESMT.

S 61° 55' 00" W

APPROX. PRES. R.O.W.

MATCH LINE STA. 786+50 SEE SHT. NO. U2-8

MATCH LINE STA. 786+50 SEE SHT. NO. U2-7

MATCH LINE STA. 799+50 SEE SHT. NO. U2-9

20' CONST. ESMT.

EXISTING AT&T TO REMAIN

PALISADES RD.

S 55° 58' 36" E

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BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

STA.786+50 TO STA.799+50

SCALE: 1"= 50'

5/6/2026
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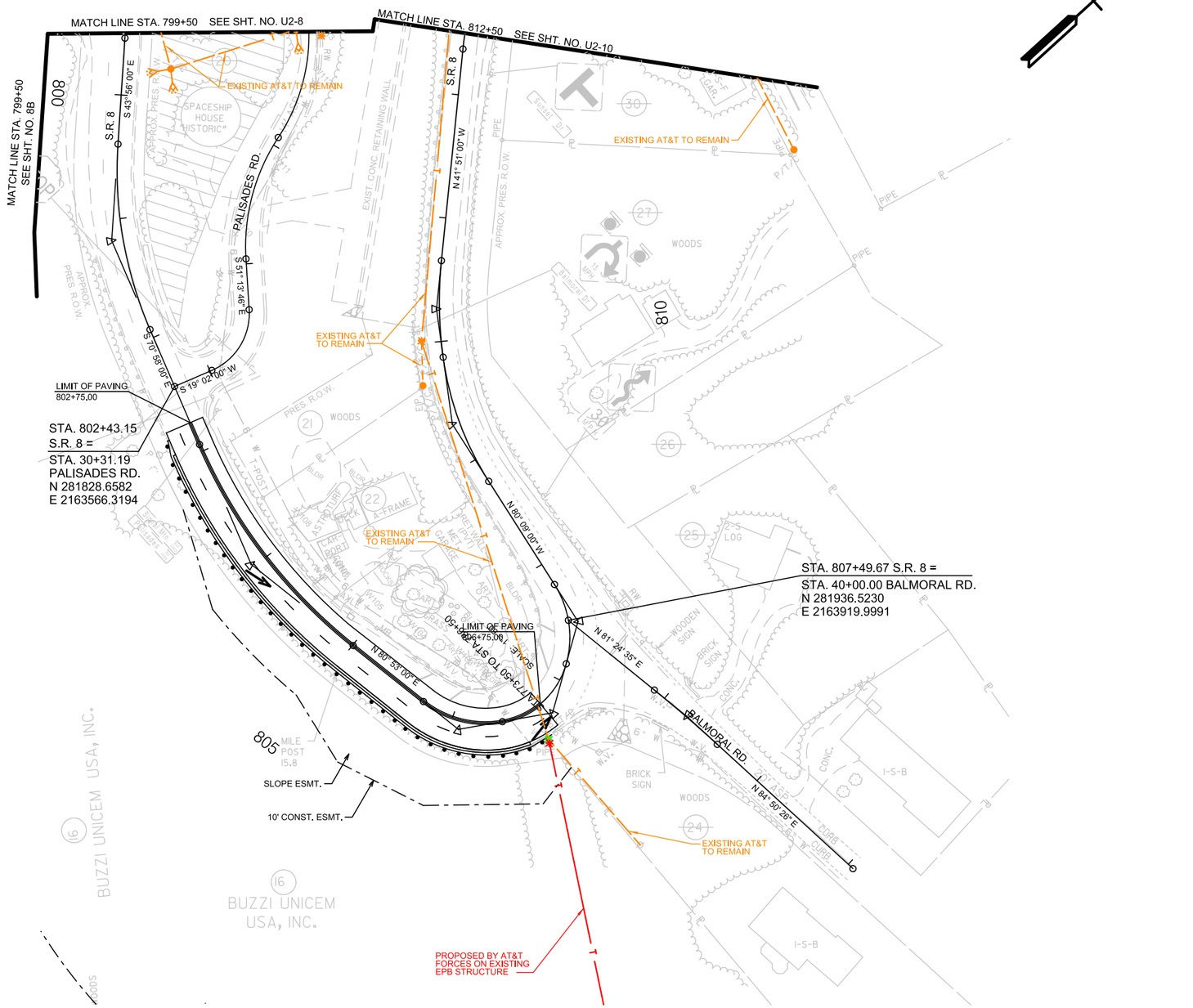
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-8(52)	U2-9
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON



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BARGE DESIGN PROJECT NO. 32119-B9

AT&T TENNESSEE

UTILITY RELOCATION

STA. 799+50 TO STA. 812+50

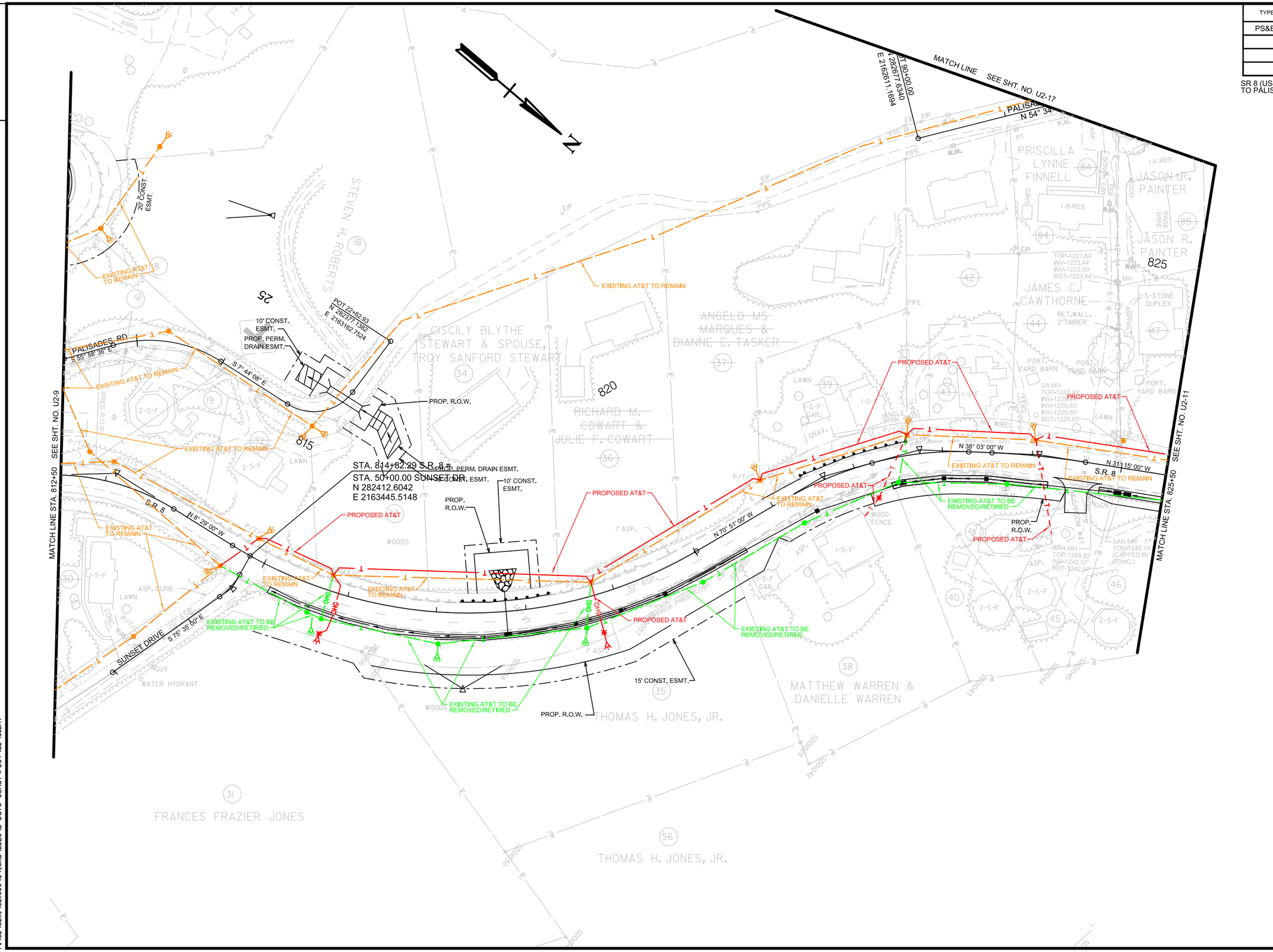
SCALE: 1"= 50'

5/6/2026
F:\32\32119\32119B9\04_CAD\ELEC\B Date Const\PLOT\U2-9.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-8(52)	U2-10
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



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AT&T TENNESSEE

UTILITY RELOCATION

STA. 812+50 TO STA. 825+50

SCALE: 1"= 50'

5/6/2026
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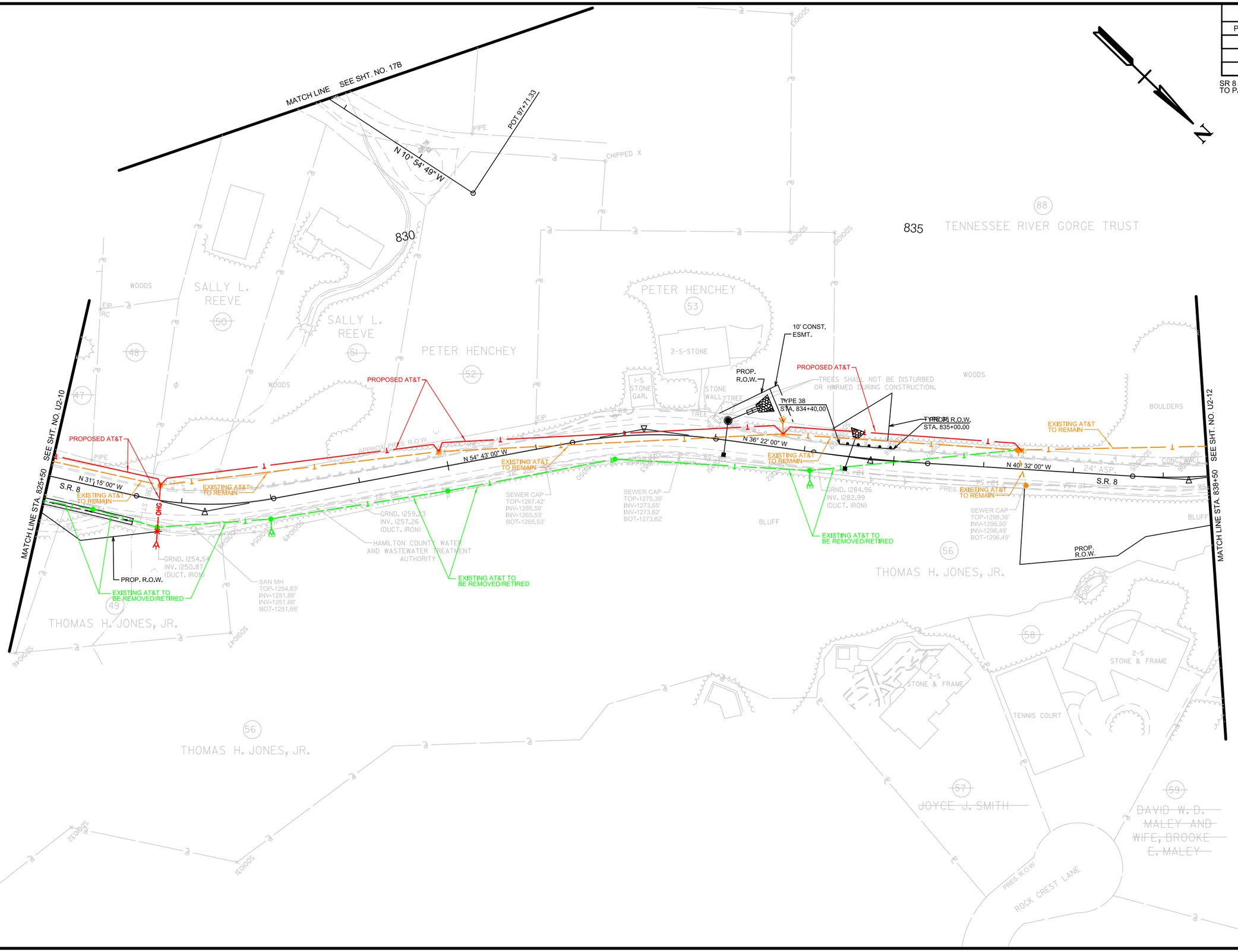
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-8(52)	U2-11
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON



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AT&T TENNESSEE

UTILITY RELOCATION

STA. 825+50 TO STA. 838+50

SCALE: 1"= 50'

5/6/2026
F:\32\32119\32l989\04_CAD\ELEC\B Date Const\PLOT\U2-11.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-8(52)	U2-12
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

845

840

850

TOWN OF SIGNAL MOUNTAIN

TENNESSEE RIVER GORGE TRUST

NO AT&T RELOCATIONS THIS SHEET

PROP. R.O.W.

EXISTING AT&T TO REMAIN

SLOPE ESMT.
10' CONST. ESMT.

N 41° 53' 00" W

N 35° 47' 00" W

N 3° 26' 00" W

N 5° 45' 00" E

N 23° 29' 00" E

S.R. 8

MATCH LINE STA. 838+50 SEE SHT. NO. U2-11

MATCH LINE STA. 851+50 SEE SHT. NO. U2-13

SEWER CAP
TOP-1335.91'
INV-1334.09'
INV-1334.02'
BOT-1334.02'

SEWER CAP
TOP-1348.13'
INV-1346.29'
INV-1346.22'
BOT-1346.22'

SEWER CAP
TOP-1359.02'
INV-1357.18'
INV-1357.11'
BOT-1357.11'

SEWER CAP
TOP-1372.30'
INV-1370.44'
INV-1370.41'
BOT-1370.41'

SEWER CAP
TOP-1316.99'
INV-1315.20'
INV-1315.13'
BOT-1315.13'

SEWER CAP
TOP-1312.51'
INV-1310.73'
INV-1310.70'
BOT-1310.70'

CONC. WALL

WOODS

APPROX. PRES. R.O.W.

PRES. R.O.W.

2' ASP.

3' ASP.

P/T/C

56 THOMAS H. JONES, JR.

59 DAVID W. D. MALEY AND WIFE, BROOKE E. MALEY

60 TAREEK A. KADRIE AND SPOUSE, JILL A KADRIE

61 CHARLES M. STAFFORD AND LINDA STAFFORD

62 WILLIAM GARDNER AND MICHELLE M. GARDNER

63 M. SCOTT FERGUSON AND WIFE, MARGARET F. FERGUSON

64 THOMAS F. LUTHRINGER

2-S STONE & FRAME

2.5-S STONE & FRAME

3-S BRICK & FRAME

2-S BRICK & FRAME

2-S-F

POOL

STONEPOINT LANE

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AT&T TENNESSEE

UTILITY RELOCATION

STA. 838+50 TO STA. 851+50

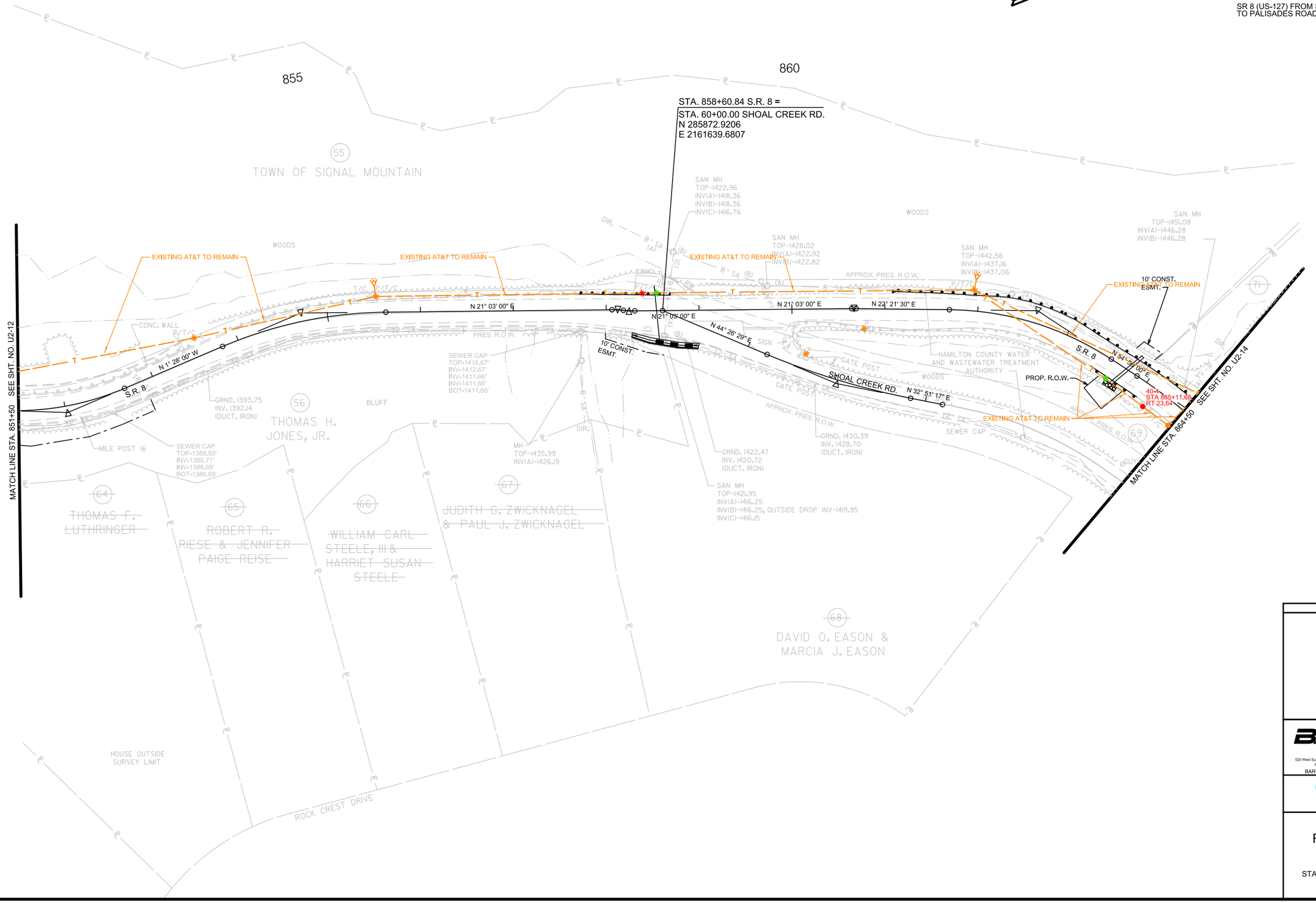
SCALE: 1"= 50'

5/6/2026
F:\32\32119\32119B9\04_CAD\ELEC\B Date Const\PLOT\U2-12.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-8(52)	U2-13
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON



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BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

STA. 851+50 TO STA. 864+50

SCALE: 1"= 50'

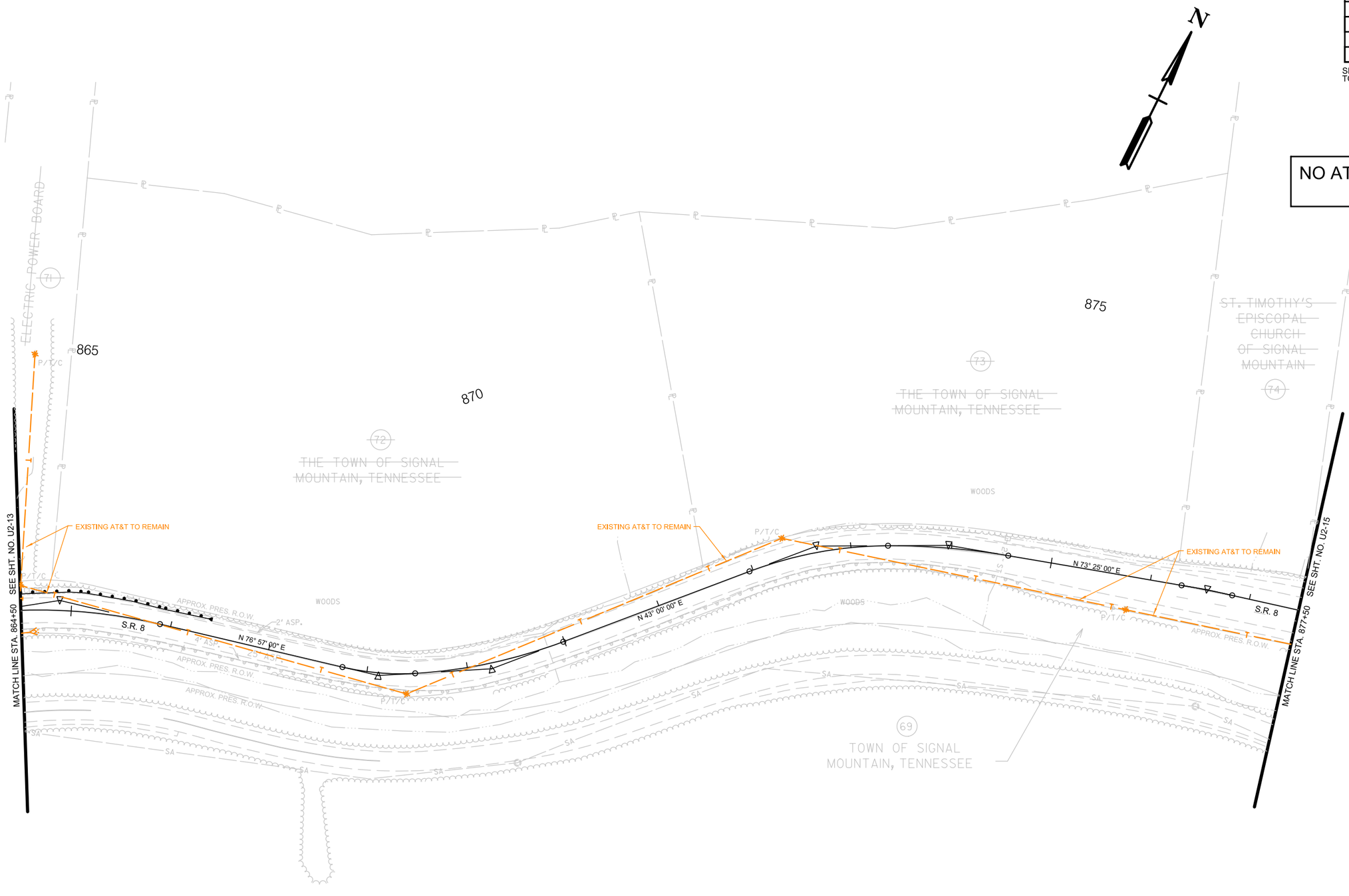
5/6/2026
F:\32\32119\32119891\04_CAD\ELEC\B Date Const\PLOT\U2-13.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-8(52)	U2-14
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

NO AT&T RELOCATIONS THIS SHEET



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BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

STA. 864+50 TO STA. 877+50

SCALE: 1"= 50'

5/6/2026
F:\32\32119\32119B9\04_CAD\ELEC\B Date Const\PLOT\U2-14.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-8(52)	U2-15
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

NO AT&T RELOCATIONS THIS SHEET

N

33021-2231-14
END PROJ. NO. STP-8(52) R.O.W.
STA. 888+76.70 S.R.8
N 287420.5907
E 2164068.0222

880 885 890

75 ST. TIMOTHY'S EPISCOPAL CHURCH OF SIGNAL MOUNTAIN

76 TOWN OF SIGNAL MOUNTAIN

78 2-S-B APARTMENTS

69 TOWN OF SIGNAL MOUNTAIN, TENNESSEE

77 TOWN OF SIGNAL MOUNTAIN

79 BENJAMIN F. NOWLIN, JR. & JUDY H. NOWLIN

MATCH LINE STA. 877+50 SEE SHT. NO. U2-14

MATCH LINE STA. 890+50 SEE SHT. NO. U2-15

S.R. 8

N 76° 21' 00" E

N 72° 54' 00" E

N 50° 21' 00" E

EXISTING AT&T TO REMAIN

EXISTING AT&T TO REMAIN

EXISTING AT&T TO REMAIN

PROP. R.O.W.

APPROX. PRES. R.O.W.

APPROX. PRES. R.O.W.

P/T/C

P/T/C

P/T/C

WOODS

WOODS

WOODS

SIGN

11' ASP.

33' ASP.

4" ASP.

SEALED BY

BARGE DESIGN SOLUTIONS
520 West Summit Hill Drive // Suite 1202 // Knoxville, Tennessee 37902
PHONE (865) 637-2810 // FAX (865) 673-2554
BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

STA. 877+50 TO STA. 890+50

SCALE: 1"= 50'

5/6/2026
F:\32\32119\32119\04_CAD\ELEC\B Date Const\PLOT\U2-15.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-8(52)	U2-16
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

33021-3231-14
END PROJ. NO. STP-8(52) CONST.
STA. 891+00.00
N 287555.4249
E 2164245.7213

NO AT&T RELOCATIONS THIS SHEET

STA. 898+30.59 S.R. 8 =
STA. 90+00.00 MISSISSIPPI AVE.
N 287815.6644
E 2164926.4625

STA. 895+14.97 S.R. 8 =
STA. 70+00.00 SIGNAL MOUNTAIN BLVD.
N 287708.3305
E 2164629.9636

STA. 898+23.78 S.R. 8 =
STA. 80+00.00 PALISADES DR.
N 287812.8148
E 2164920.2652

MATCH LINE STA. 890+50
SEE SHT. NO. U2-15

SEALED BY

BARGE DESIGN SOLUTIONS
520 West Summit Hill Drive // Suite 1202 // Knoxville, Tennessee 37902
PHONE (865) 637-2810 // FAX (865) 673-4554
BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

STA. 890+50 TO STA. 903+50

SCALE: 1"= 50'

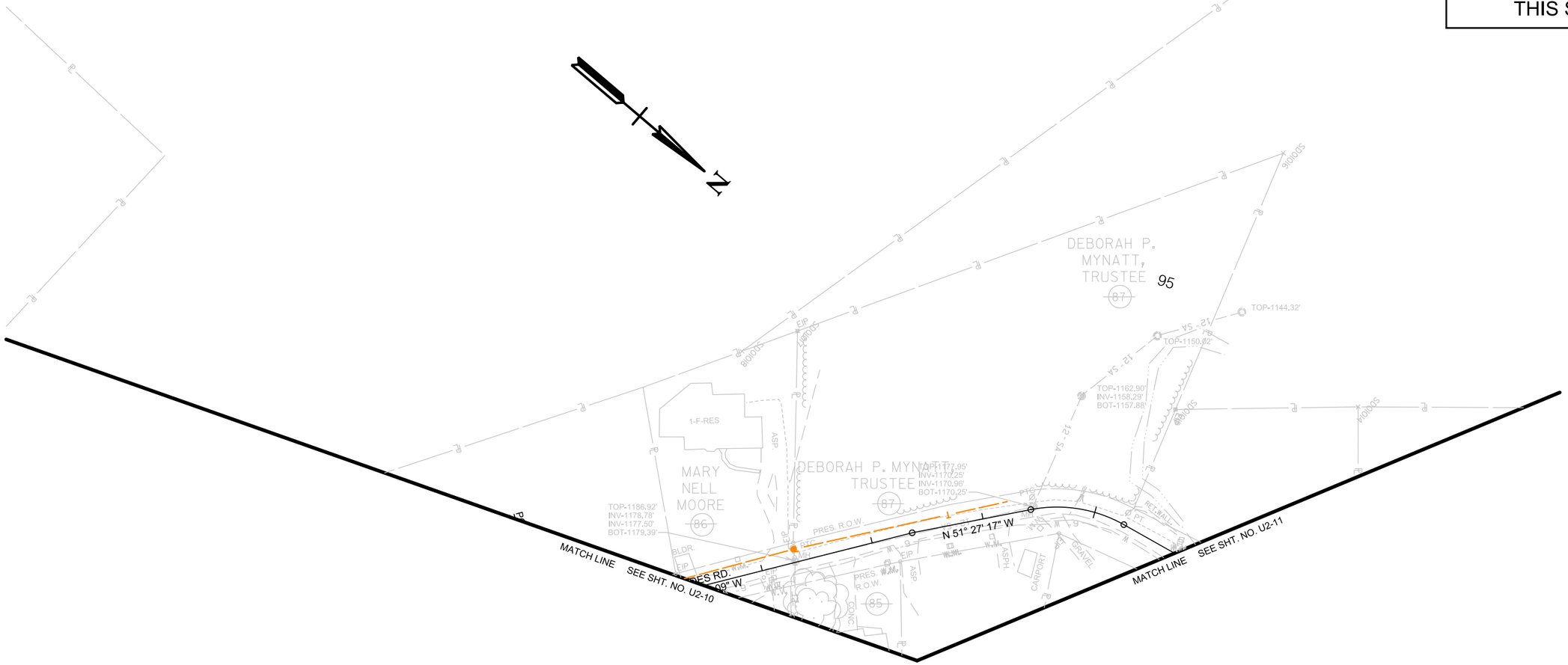
5/6/2026
F:\32\32119\32119\04_CAD\ELEC\B Data Const\PLOT\U2-16.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-8(52)	U2-17
		33021-3231-14	
		PIN # 124080.00	

SR 8 (US-127) FROM SR 27 TO PALISADES ROAD — HAMILTON

NO AT&T RELOCATIONS THIS SHEET



SEALED BY

BARGE DESIGN SOLUTIONS
520 West Summit Hill Drive // Suite 1202 // Knoxville, Tennessee 37902
PHONE (865) 637-2810 // FAX (865) 673-4554
BARGE DESIGN PROJECT NO. 32119-89

AT&T TENNESSEE

UTILITY RELOCATION

PALISADES ROAD

SCALE: 1"= 50'

5/6/2026
F:\32\32119\32119891\04_CAD\ELEC\B Date Const\PLOT\U2-17.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-1
CONST.		33021-3231-14	
PIN		124080.00	

DRAWING INDEX

TITLE	DRAWING NO.
INDEX OF SHEETS & ESTIMATED QUANTITIES	U3-1
GENERAL NOTES	U3-2
PRESENT LAYOUT (STA 747+50 TO STA 760+50)	U3-3
PROPOSED LAYOUT (STA 747+50 TO STA 760+50)	U3-4
PROPOSED WATERLINE RELOCATION PROFILE (STA 756+00 TO STA 756+50)	U3-5
PRESENT LAYOUT (STA 789+50 TO STA 799+50)	U3-6
PROPOSED LAYOUT (STA 789+50 TO STA 799+50)	U3-7
PRESENT LAYOUT (STA 799+50 TO STA 812+50)	U3-8
PRESENT LAYOUT (STA 812+50 TO STA 825+50)	U3-9
PROPOSED LAYOUT (STA 812+50 TO STA 825+50)	U3-10
PROPOSED PROFILE (STA 812+50 TO STA 825+50)	U3-11
PROPOSED WATERLINE RELOCATION PROFILE (STA 812+50 TO STA 824+80)	U3-12 THRU U3-21
WATER DETAILS	U3-22
WATER DETAILS	U3-23
WATER DETAILS	U3-24

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	NOTES
	795-01.03	6 IN DIP RESTRAINED JOINT WATER LINE	LF	200	
	795-01.04	6 IN DIP SLIP JOINT WATER LINE	LF	1,400	
	795-05.77	BORE/JACK 12IN STEEL CASING PIPE-ROCK	LF	60	
	795-06.01	CONNECT TO 2 IN WATERLINE	EA	1	
	795-06.04	CONNECT TO 6 IN WATERLINE	EA	1	AT END OF NEW LINE
	795-06.31	CUT AND CAP 2 IN WATER LINE	EA	1	
	795-07.03	6IN X 6IN TAPPING SLEEVE AND VALVE	EA	4	
(1)	795-07.35	2IN X 2IN TAPPING SADDLE AND VALVE	EA	1	
(1)	795-08.04	6 IN GATE VALVE ASSEMBLY	EA	3	
	795-09.28	3/4IN COPPER SERVICE PIPE	LF	50	
	795-09.51	RECONNECT SERVICE ASSEMBLY	EA	5	
	795-10.12	1/2IN AUTO AIR RELEASE VALVE ASSEMBLY	EA	3	
	795-10.32	METER BOX FOR AUTO AIR RELEASE VALVE	EA	3	
	795-11.02	FIRE HYDRANT ASSEMBLY	EA	1	
(2)	795-12.02	REMOVAL OF EXISTING LINE	LS	1	ON PALISADES
	795-13.01	DI FITTINGS	LB	2,000	
	795-13.05	CREEK CROSSING (PALISADES DR)	LS	1	
	795-14.02	CLASS B CONCRETE	CY	10	Sunset Dr. & Mushroom W.
	795-14.08	RESTORE ASPHALT	SY	30	
	795-14.10	RESTORE GRAVEL	SY	60	
	795-14.12	PIPE CHECK DAM	CY	2	
	795-16.16	RELOCATE/RECONNECT 3/4IN WATER METER ASSEMBLY	EA	5	

ON SR-8 AT STA 756±25 AND>

FOOTNOTES

1 **GEOTEXTILE (TYPE** IV) STABILIZATION **(QTY SY 35)** SHOWN ON **SHEET U3-24; "CONNECTION TO 2-INCH WATER" DETAIL IS INCIDENTAL** TO **PAY ITEM**

2 RIPRAP FILL ON SHEET U3-5: INCLUDED IN THE LS OF REMOVAL OF THE EXISTING 8 IN **DEAD** LINE

CTI PROJECT NO. C22007

SEALED BY

ELBERT R. KEY
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION

GENERAL NOTES

MATT JUSTICE, CITY MANAGER
TOWN OF SIGNAL MOUNTAIN WATER UTILITY
1111 RIDGEWAY AVE SIGNAL MOUNTAIN,
TENNESSEE 37377

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 TITLE (900270x477232)6 5:29PM), LAYOUT: U3-2

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-2
CONST.		33021-3231-14	
PIN		124080.00	

1. ALL MATERIALS, METHODS, AND/OR INTEGRAL MATERIALS OUTLINED IN THE UTILITY SPECIFICATIONS OR DRAWINGS NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION MUST BE INCLUDED IN THE UNIT PRICE FOR THE ASSOCIATED WORK ITEM.
2. THE CONTRACTOR MUST MAINTAIN ALL SERVICES DURING THE CONSTRUCTION OF THE RELOCATED FACILITY. ANY COSTS ASSOCIATED WITH THE INSTALLATION OF REQUIRED TEMPORARY SERVICE LINES DUE TO THE ROADWAY CONSTRUCTION SEQUENCE OF WORK (I.E. CUTS, FILLS, PHASING, ETC.) SHALL BE INCLUDED IN THE COST OF THE PERMANENT UTILITY ITEMS.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LAY OUT ALL THE FACILITIES BEING RELOCATED WITHIN THE CONTRACT WITH REGARDS TO HORIZONTAL AND VERTICAL LOCATION.
4. FOR BURIED UTILITIES, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE THE UTILITY UPON COMPLETION OF THE RELOCATION WORK A SET OF AS-BUILT DRAWINGS FOR THEIR RECORDS. THESE AS-BUILT DRAWINGS SHOULD BE PREPARED AS THE INSTALLATION PROGRESSES TO ENSURE THEIR ACCURACY.
5. DRIVEWAY, SIDEWALK, AND ROADWAY TEMPORARY RESTORATION SHALL BE PART OF THE IN-PLACE COST OF PLACING THE UTILITY ITEM WITHIN THE ROW.
6. ANY EXCAVATION OF THE STREAM CHANNEL AREA SHALL BE SEPARATED FROM FLOWING WATER AND ACCOMPLISHED DURING LOW FLOW CONDITIONS. THIS SHALL BE ACCOMPLISHED BY THE USE OF FLUMES, LINED DIVERSION CHANNEL WITH SANDBAG BERM, DIVERSION PIPE WITH SANDBAG DAM AT PIPE INLET, OR IN SOME CASES COFFER DAMS. ALTERNATIVELY, BASED UPON FIELD CONDITIONS AND CONTRACTOR SELECTION, THE UTILITY RELOCATION MAY BE ACCOMPLISHED USING HORIZONTAL BORING TECHNOLOGY WITH NO STREAM CHANNEL IMPACTS.
7. ALL WATER LINES SHALL BE INSTALLED WITH A MINIMUM COVER OF 36 INCHES, UNLESS CALLED OUT OTHERWISE.
8. ALL WATER LINES SHALL BE INSTALLED 5 - 6 FT INSIDE ROW, UNLESS SHOWN DIFFERENTLY
9. CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. COORDINATES SHOWN FOR CONNECTIONS TO EXISTING WATER LINES ARE APPROXIMATE.
10. CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING ROAD CROSSINGS AND NOTIFY ENGINEER OF ANY CONFLICTS.
11. CONTRACTOR TO COORDINATE LOCATION OF "SERVICE CONNECTIONS" WITH THE TOWN OF SIGNAL MOUNTAIN AS WELL AS ANY AND ALL CUTS & CAPS ON EXISTING SERVICE LINES.

WATER LINES
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INSTALLATION OF PIPE INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, MATERIALS, EQUIPMENT, EXCAVATION (IN BOTH UNCONSOLIDATED AND ROCK), REMOVAL AND REPLACEMENT OF UNSUITABLE SOIL, ENVELOPE/BEDDING MATERIAL, BACKFILLING, FLOWABLE FILL, THRUST BLOCKING, CONCRETE DEADMAN, PIPE FUSION, TRACER WIRE, WARNING TAPE, APPURTENANCES, TEMPORARY/PERMANENT SHORING, MAINTAINING THE TRENCH, TESTING, FLUSHING, DISINFECTION, BACTERIOLOGICAL SAMPLING, TEMPORARY/PERMANENT SURFACE RESTORATION, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS.

CONNECTION TO EXISTING WATER LINE
INCLUDES ALL MATERIALS (INCLUDING TAPPING SLEEVE AND SADDLES), LABOR, AND EQUIPMENT NECESSARY FOR CONNECTING TO AN EXISTING WATER LINE INCLUDING TRAFFIC CONTROL.

TAPPING SLEEVES AND VALVES
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT INCLUDING BUT NOT LIMITED TO TAPPING SLEEVE, VALVE, VALVE BOX, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING,BACKFILL, BLOCKING AND RESTRAINT, TAP OF EXISTING LINE, AND TRAFFIC CONTROL.

WATER VALVES
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT INCLUDING BUT NOT LIMITED TO MACHINERY, TOOLS APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBLIES AS DESCRIBED IN THE PLANS AND SPECS. EXCEPT FOR SERVICE LINE WHICH IS PAID SEPARATELY FOR EACH FOOT INSTALLED.

WATER SERVICE VALVES
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION OF SERVICE LINE OR CASING FOR SERVICE LINE ON LONG SIDE AND SHORT SIDE OF MAIN.

LUMP SUM ITEMS
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION OF UNIT OR LUMP SUM ITEMS AS SPECIFIED ON BID FORM.

REMOVAL
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR REMOVAL OF ITEM

CASING PIPE - BORE AND JACK INSTALLATION
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CASING PIPE, PIPE SPACES, CASING END SEALS, FITTINGS, TRACER WIRE, WARNING TAPE, UTILITY LINE MARKERS, AND TRAFFIC CONTROL. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.

CASING PIPE - OPEN CUT INSTALLATION
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CASING PIPE, PIPE SPACERS, CASING END SEALS, FITTINGS, TRACER WIRE, WARNING TAPE, UTILITY LINE MARKERS, AND TRAFFIC CONTROL. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.

WATER METER ASSEMBLY - SEE DETAIL
SEE "SERVICE CONNECTION DETAIL" ON SHEET U3-17. TRAFFIC RATE METER BOXES SHALL BE INSTALLED AS NOTED.

CTI PROJECT NO. C22007

SEALED BY



COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION

GENERAL NOTES

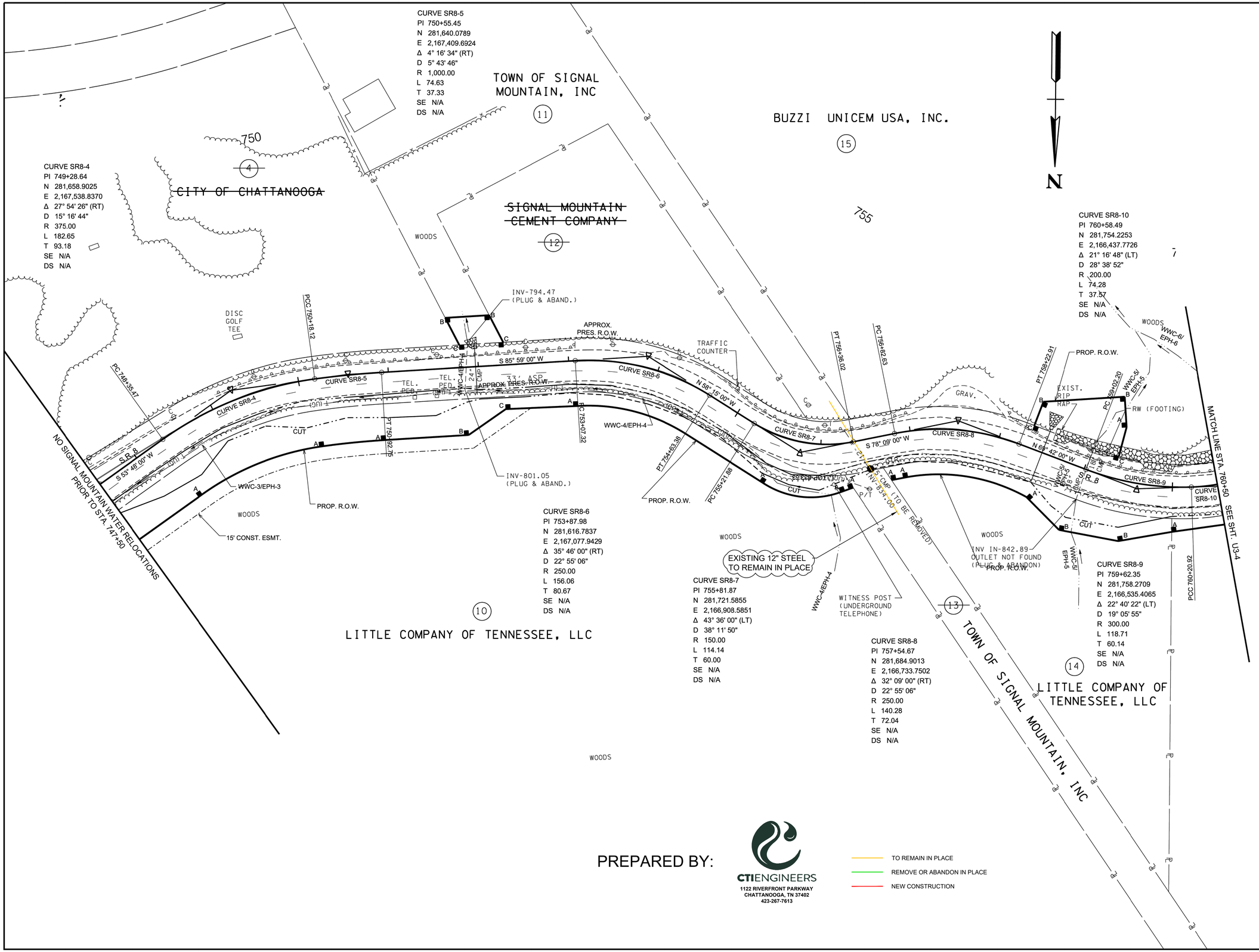
CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

DATE OF PRINT: 7/24/2026 3:15 PM

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-3
CONST.		33021-3231-14	
PIN		124080.00	

REV. 3-19-24: REVISED PROPERTY OWNER NAME FOR TRACT 15.

REV. 8-15-25: REMOVED PROP. ROW FROM TRACT 13. LINED THRU TRACT 13.



PREPARED BY:

CTI ENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

TO REMAIN IN PLACE
REMOVE OR ABANDON IN PLACE
NEW CONSTRUCTION

CTI PROJECT NO. C2207

SEALED BY

ELBERT R. KEY
REGISTERED ENGINEER
STATE OF TENNESSEE

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION (PRESENT LAYOUT)

STA.747+50 TO STA.760+50
SCALE: 1"=50'

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322v4/7/24/26 2:33PM), LAYOUT: U3-3

DATE OF PRINT: 7/24/2026 2:58 PM
11/2/2025 10:40:21 PM
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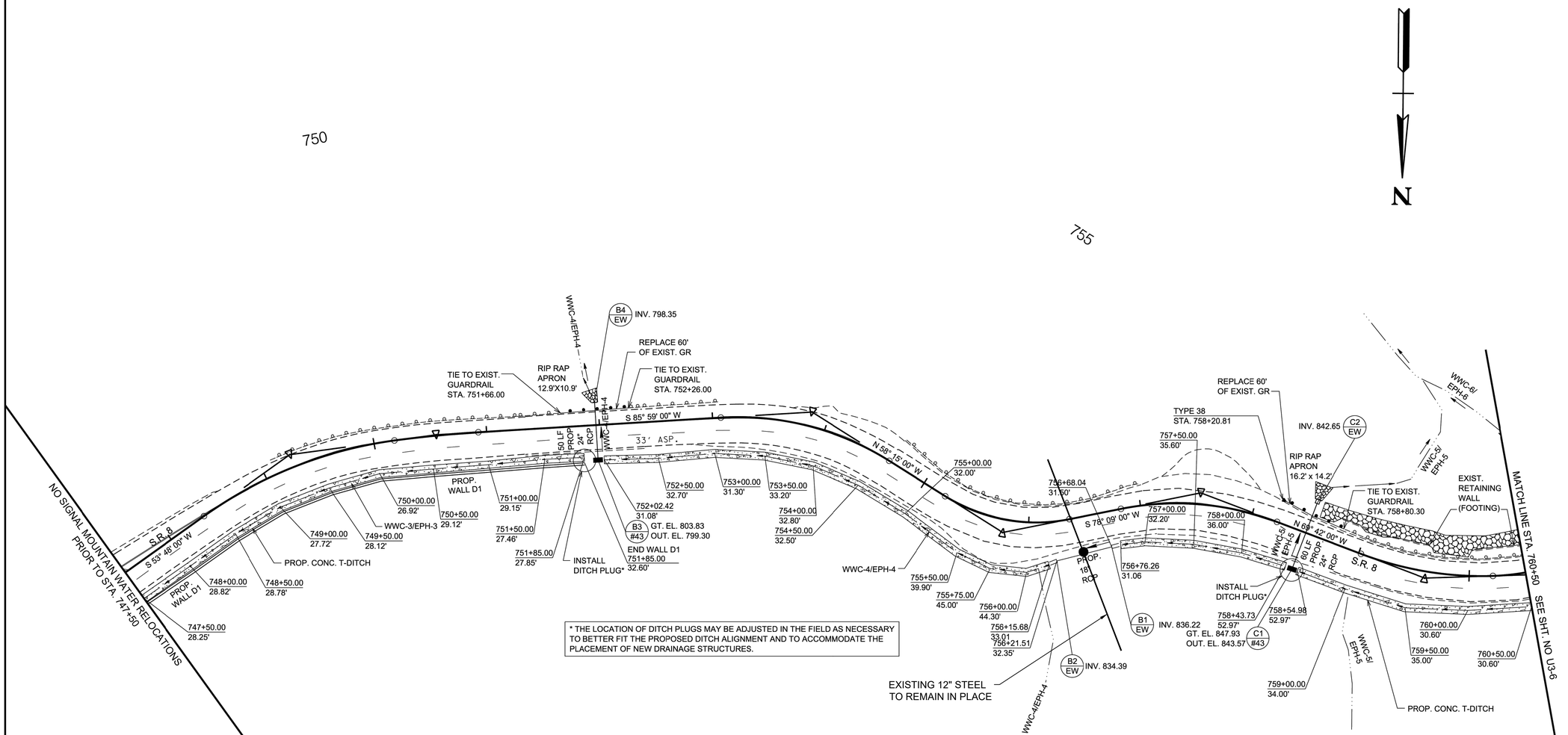
CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322n4/7/24/26 2:33PM), LAYOUT: U3-4

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-4
CONST.		33021-3231-14	
PIN		124080.00	

REV. 8-15-25: EXTENDED PROPOSED 18" RCP PIPE (B1 TO B2).



* THE LOCATION OF DITCH PLUGS MAY BE ADJUSTED IN THE FIELD AS NECESSARY TO BETTER FIT THE PROPOSED DITCH ALIGNMENT AND TO ACCOMMODATE THE PLACEMENT OF NEW DRAINAGE STRUCTURES.

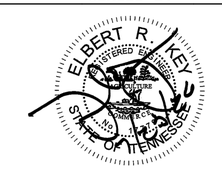
1. REGRADE DITCH LINE AND COVER EXISTING 12" WATER
2. WORK WITH CAUTION AROUND EXISTING 12" WATERLINE. IT IS OLD AND OPERATES UNDER APPROXIMATELY 700PSI. IT IS THE SOLE WATER SOURCE FOR THE TOWN OF SIGNAL MOUNTAIN.
3. REMOVE EXPOSED 8" STEEL WATER LINE THAT IS ABANDONED.
4. RIPRAP TO BACKFILL DITCH PROTECTING 12" WATER LINE.

PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

CTI PROJECT NO. C2207

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION (PROPOSED)

STA.747+50 TO STA.760+50
SCALE: 1"=50'

DATE OF PRINT: 7/24/2026 2:58 PM
11/2/2025 10:40:36 PM
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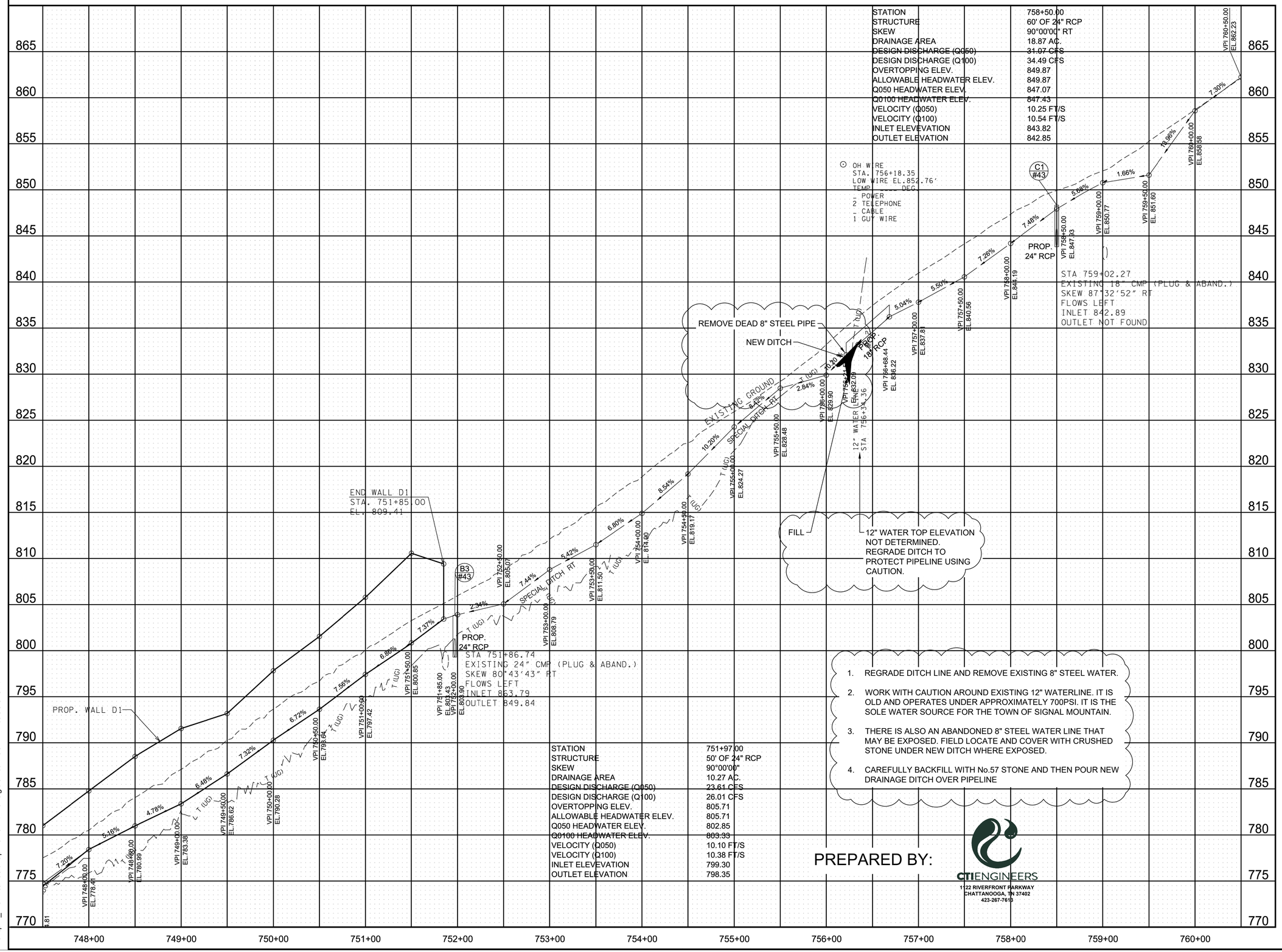
CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (90032in47/24/26 2:33PM), LAYOUT: U3-5

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-5
CONST.		33021-3231-14	
PIN		124080.00	



STATION	751+97.00
STRUCTURE	50' OF 24" RCP
SKEW	90°00'00"
DRAINAGE AREA	10.27 AC.
DESIGN DISCHARGE (Q050)	23.61 CFS
DESIGN DISCHARGE (Q100)	26.01 CFS
OVERTOPPING ELEV.	805.71
ALLOWABLE HEADWATER ELEV.	805.71
Q050 HEADWATER ELEV.	802.85
Q0100 HEADWATER ELEV.	803.33
VELOCITY (Q050)	10.10 FT/S
VELOCITY (Q100)	10.38 FT/S
INLET ELEVEVATION	799.30
OUTLET ELEVATION	798.35

1. REGRADE DITCH LINE AND REMOVE EXISTING 8" STEEL WATER.
2. WORK WITH CAUTION AROUND EXISTING 12" WATERLINE. IT IS OLD AND OPERATES UNDER APPROXIMATELY 700PSI. IT IS THE SOLE WATER SOURCE FOR THE TOWN OF SIGNAL MOUNTAIN.
3. THERE IS ALSO AN ABANDONED 8" STEEL WATER LINE THAT MAY BE EXPOSED. FIELD LOCATE AND COVER WITH CRUSHED STONE UNDER NEW DITCH WHERE EXPOSED.
4. CAREFULLY BACKFILL WITH No.57 STONE AND THEN POUR NEW DRAINAGE DITCH OVER PIPELINE

PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

CTI PROJECT NO. C2207

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATERLINE RELOCATION PROFILE

STA 756+00 TO STA 756+50

SCALE: 1"=50' HORIZ.
1"=5' VERT.

DATE OF PRINT: 7/24/2026 2:58 PM
11/2/2025 10:40:44 PM
c:\pw_workarcadispw01\fritz.brogdon\dms34141\005C.sht

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322n4/7/24/26 2:33PM), LAYOUT: U3-6

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-6
CONST.		33021-3231-14	
PIN		124080.00	

REV. 12-10-21: ADDED CONSTRUC
EASEMENT AND R.O.W. ACQUISITIC
TRACT 16 AT STA. 792+00.

REV. 3-8-22: ADDED CONSTRUCTIC
EASEMENT TO TRACTS 18 & 19.

REV. 3-19-24: REVISED PROPERTY
OWNER NAMES FOR TRACTS 15 & '

REV. 11-22-24: REVISED STREAM 3
LEADER BY REMOVING EPH-3A.

CURVE SR8-23
PI 788+93.66
N 281,352.5514
E 2,163,885.4112
Δ 18° 23' 29" (RT)
D 10° 54' 49"
R 525.00
L 168.52
T 84.99
SE N/A
DS N/A

CURVE SR8-24
PI 789+99.92
N 281,371.8585
E 2,163,779.4326
Δ 8° 39' 58" (RT)
D 19° 05' 55"
R 300.00
L 45.38
T 22.73
SE N/A
DS N/A

CURVE SR8-25
PI 790+88.26
N 281,400.6321
E 2,163,695.8253
Δ 18° 25' 32" (RT)
D 14° 08' 50"
R 405.00
L 130.24
T 65.69
SE N/A
DS N/A

CURVE SR8-26
PI 795+04.18
N 281,654.0373
E 2,163,364.5848
Δ 27° 33' 00" (RT)
D 18° 11' 21"
R 315.00
L 151.46
T 77.23
SE N/A
DS N/A

CURVE SR8-27
PI 797+17.30
N 281,849.8435
E 2,163,273.1402
Δ 3° 39' 00" (RT)
D 2° 17' 31"
R 2,500.00
L 159.26
T 79.66
SE N/A
DS N/A

CURVE SR8-28
PI 800+77.57
N 282,185.3669
E 2,163,141.7626
Δ 157° 27' 00" (RT)
D 105° 07' 48"
R 54.50
L 149.77
T 273.37
SE N/A
DS N/A

790

795

17

~~STEVEN L. COULTER &~~
~~BEVERLY H. COULTER~~

BUZZI UNICEM USA, INC.

15

16

BUZZI UNICEM USA, INC.

18

19

WOODS

WOODS

COVERED CONC. PAD

ASP.

POST

RW

N 52° 35' 00" W

CURVE SR8-25

CURVE SR8-24

CURVE SR8-23

BEGIN STR-3/EPH-3A

STR-3/EPH-3A

BEGIN STR-3 IMPACT
790+23.86
27.51

PC 790+22.57

PC 789+77.19

PT 791+52.81

PROP. R.O.W.

15' CONST. ESMT.

PC 794+26.95

CUT

CURVE SR8-26

PT 795+78.41

PC 796+37.64

N 25° 02' 00" W

CURVE SR8-27

PT 797+96.90

PC 798+04.20

N 21° 29' 00" W

S.R. 8

APPROX. PRES. R.O.W.

S 81° 56' 00" W

APPROX. PRES. R.O.W.

PC 788+08.67

PROP. R.O.W.

E 216+000

15' CONST. ESMT.

NO SIGNAL MOUNTAIN WATER RELOCATIONS
BETWEEN STA. 760+50 AND STA. 786+50

MATCH LINE STA. 799+50
SEE SHT. NO. 9B

MATCHLINE STA. 799+50 SEE SHT. NO U3-8

INV-1037.12'

EXIST. 24"RCP
(TO REMAIN)

INV-1052.05'

INV-1074.

BOULDER

LAWN

ASPH

INV-1077.44'

EXISTING 2" WATER TO REMAIN
IN PLACE

STR-4

END
STR-4 IMPACT
798+73.32
58.68

CURVE SR8-28

SHOTCRETE
CHANNEL REPAIRS

BEGIN
STR-4 IMPACT
798+98.73
50.92

STR-4

PALISADES RD.

S 55° 50' 36" E

PALISADES RD.

N

N 55° 50' 36" W

PALISADES RD.

CTI PROJECT NO. C2207

SEALED BY

ELBERT R. KEY
REGISTERED ENGINEER
STATE OF TENNESSEE

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

LEGEND

HISTORIC PROPERTY
(NATIONAL REGISTER BOUNDARY)

NOTE:
NO TEMPORARY OR PERMANENT RIGHT-OF-WAY OR EASEMENTS WILL BE TAKEN FROM THE HISTORIC PROPERTY.

PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION
(PRESENT LAYOUT)

STA.786+50 TO STA.799+50
SCALE: 1"=50'

DATE OF PRINT: 7/24/2026 2:58 PM
11/2/2025 10:41:57 PM
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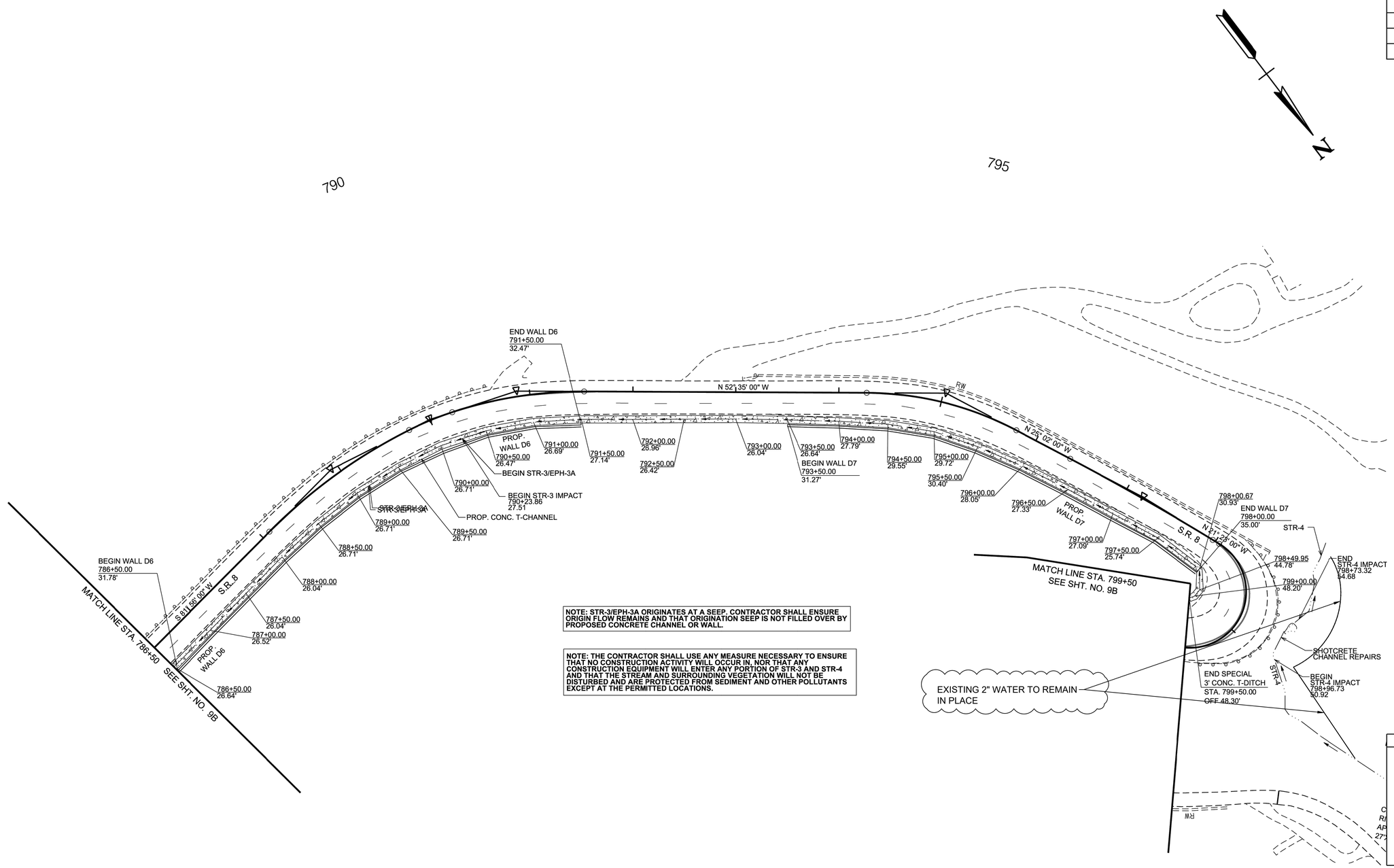
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-7
CONST.		33021-3231-14	
PIN		124080.00	

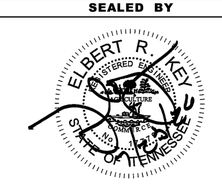


NOTE: STR-3/EPH-3A ORIGINATES AT A SEEP. CONTRACTOR SHALL ENSURE ORIGIN FLOW REMAINS AND THAT ORIGINATION SEEP IS NOT FILLED OVER BY PROPOSED CONCRETE CHANNEL OR WALL.

NOTE: THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF STR-3 AND STR-4 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

CTI PROJECT NO. C2207

SEALED BY



COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

PREPARED BY:

CTI ENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION
(PROPOSED)

STA.786+50 TO STA.799+50
SCALE: 1"=50'

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322v4/7/24/26 2:33PM), LAYOUT: U3-7

DATE OF PRINT: 7/24/2026 2:58 PM
11/2/2025 10:42:12 PM
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Point	North	East	Elevation	Station	Offset
S21	282051.7631	2163663.8483	1190.83	810+42.43	16.66 RT
S22	281851.1385	2163975.6604	1165.16	806+58.69	24.69 RT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-8
CONST.		33021-3231-14	
PIN		124080.00	

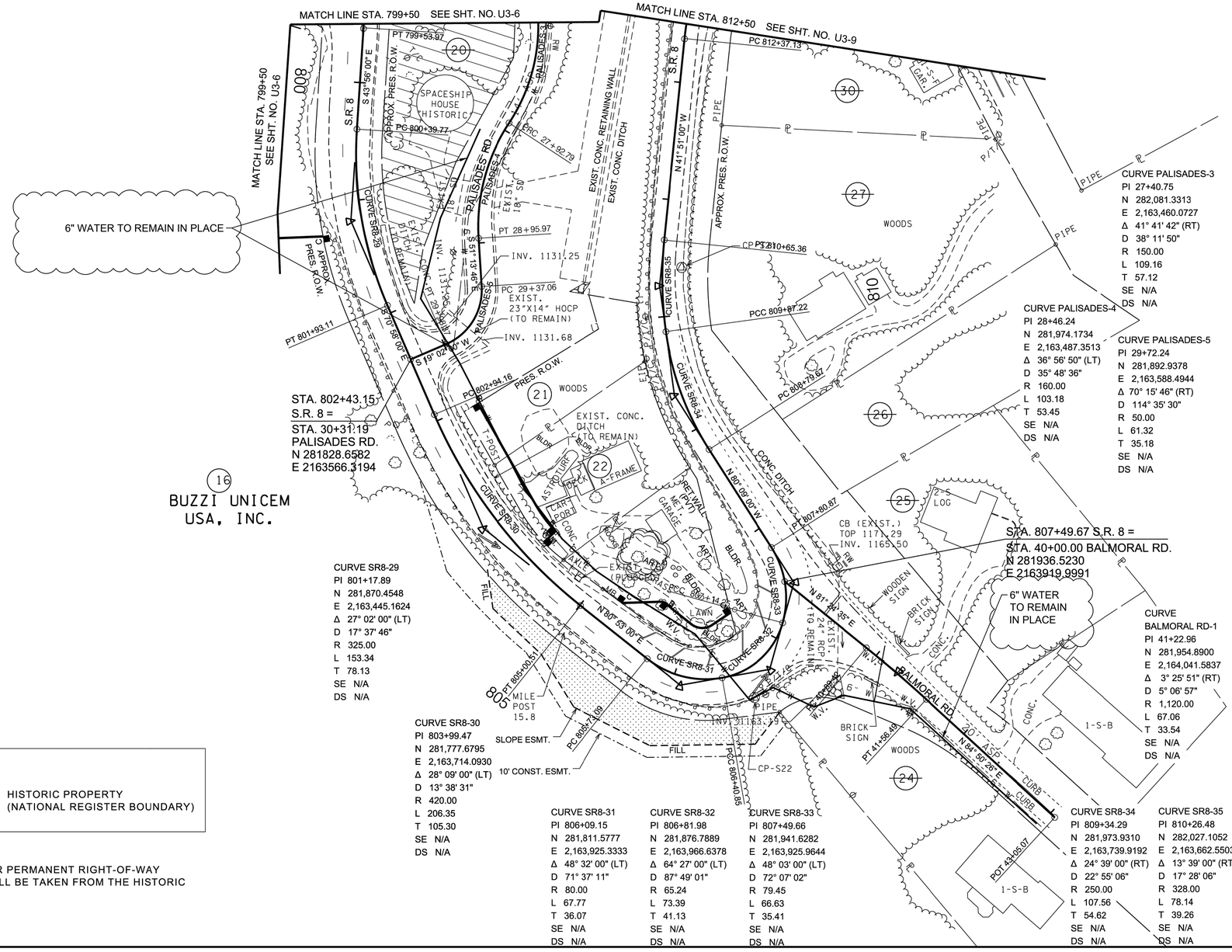
REV. 3-8-22: UPDATED PALISADES ROAD ALIGNMENT, CALLOUTS AND CURVE TABLES.

REV. 9-21-23: UPDATED SURVEY WITH GRASS DRIVEWAY AND LANDSCAPING FEATURES.

REV. 3-19-24: REVISED PROPERTY OWNER NAME FOR TRACT 16.

REV. 11-22-24: ADD PROP. ROW TO TRACT 21 & 22. REVISED PROP. ROW FOR TRACT 23. COMBINED TRACTS 22 AND 23. ELIMINATED TRACT 23.

REV. 1-21-25: ADDED ADDITIONAL SURVEY FEATURES TO TRACT 22.



CURVE PALISADES-3
PI 27+40.75
N 282,081.3313
E 2,163,460.0727
Δ 41° 41' 42" (RT)
D 38° 11' 50"
R 150.00
L 109.16
T 57.12
SE N/A
DS N/A

CURVE PALISADES-4
PI 28+46.24
N 281,974.1734
E 2,163,487.3513
Δ 36° 56' 50" (LT)
D 35° 48' 36"
R 160.00
L 103.18
T 53.45
SE N/A
DS N/A

CURVE PALISADES-5
PI 29+72.24
N 281,892.9378
E 2,163,588.4944
Δ 70° 15' 46" (RT)
D 114° 35' 30"
R 50.00
L 61.32
T 35.18
SE N/A
DS N/A

CURVE SR8-29
PI 801+17.89
N 281,870.4548
E 2,163,445.1624
Δ 27° 02' 00" (LT)
D 17° 37' 46"
R 325.00
L 153.34
T 78.13
SE N/A
DS N/A

CURVE SR8-30
PI 803+99.47
N 281,777.6795
E 2,163,714.0930
Δ 28° 09' 00" (LT)
D 13° 38' 31"
R 420.00
L 206.35
T 105.30
SE N/A
DS N/A

CURVE SR8-31
PI 806+09.15
N 281,811.5777
E 2,163,925.3333
Δ 48° 32' 00" (LT)
D 71° 37' 11"
R 80.00
L 67.77
T 36.07
SE N/A
DS N/A

CURVE SR8-32
PI 806+81.98
N 281,876.7889
E 2,163,966.6378
Δ 64° 27' 00" (LT)
D 87° 49' 01"
R 65.24
L 73.39
T 41.13
SE N/A
DS N/A

CURVE SR8-33
PI 807+49.66
N 281,941.6282
E 2,163,925.9644
Δ 48° 03' 00" (LT)
D 72° 07' 02"
R 79.45
L 66.63
T 35.41
SE N/A
DS N/A

CURVE SR8-34
PI 809+34.29
N 281,973.9310
E 2,163,739.9192
Δ 24° 39' 00" (RT)
D 22° 55' 06"
R 250.00
L 107.56
T 54.62
SE N/A
DS N/A

CURVE SR8-35
PI 810+26.48
N 282,027.1052
E 2,163,662.5503
Δ 13° 39' 00" (RT)
D 17° 28' 06"
R 328.00
L 78.14
T 39.26
SE N/A
DS N/A

CURVE BALMORAL RD-1
PI 41+22.96
N 281,954.8900
E 2,164,041.5837
Δ 3° 25' 51" (RT)
D 5° 06' 57"
R 1,120.00
L 67.06
T 33.54
SE N/A
DS N/A

LEGEND

HISTORIC PROPERTY (NATIONAL REGISTER BOUNDARY)

NOTE:
NO TEMPORARY OR PERMANENT RIGHT-OF-WAY OR EASEMENTS WILL BE TAKEN FROM THE HISTORIC PROPERTY.

PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

CTI PROJECT NO. C2207

SEALED BY

ELBERT R. KEY
REGISTERED ENGINEER
CERTIFICATE NO. 109181
STATE OF TENNESSEE

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION (PRESENT LAYOUT)

STA.799+50 TO STA.812+50
SCALE: 1"=50'

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322nd7/24/26 2:33PM), LAYOUT: U3-8
DATE OF PRINT: 7/24/2026 2:58 PM
11/2/2025 10:42:27 PM
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CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322n4/7/24/26 2:33PM), LAYOUT: U3-9

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-9
CONST.		33021-3231-14	
PIN		124080.00	

REV. 12-10-21: MODIFIED TRACT NO.'S 44, 47, 84 AND 85. UPDATED ASSOCIATED ACQUISTIONS WITH MODIFIED TRACTS.

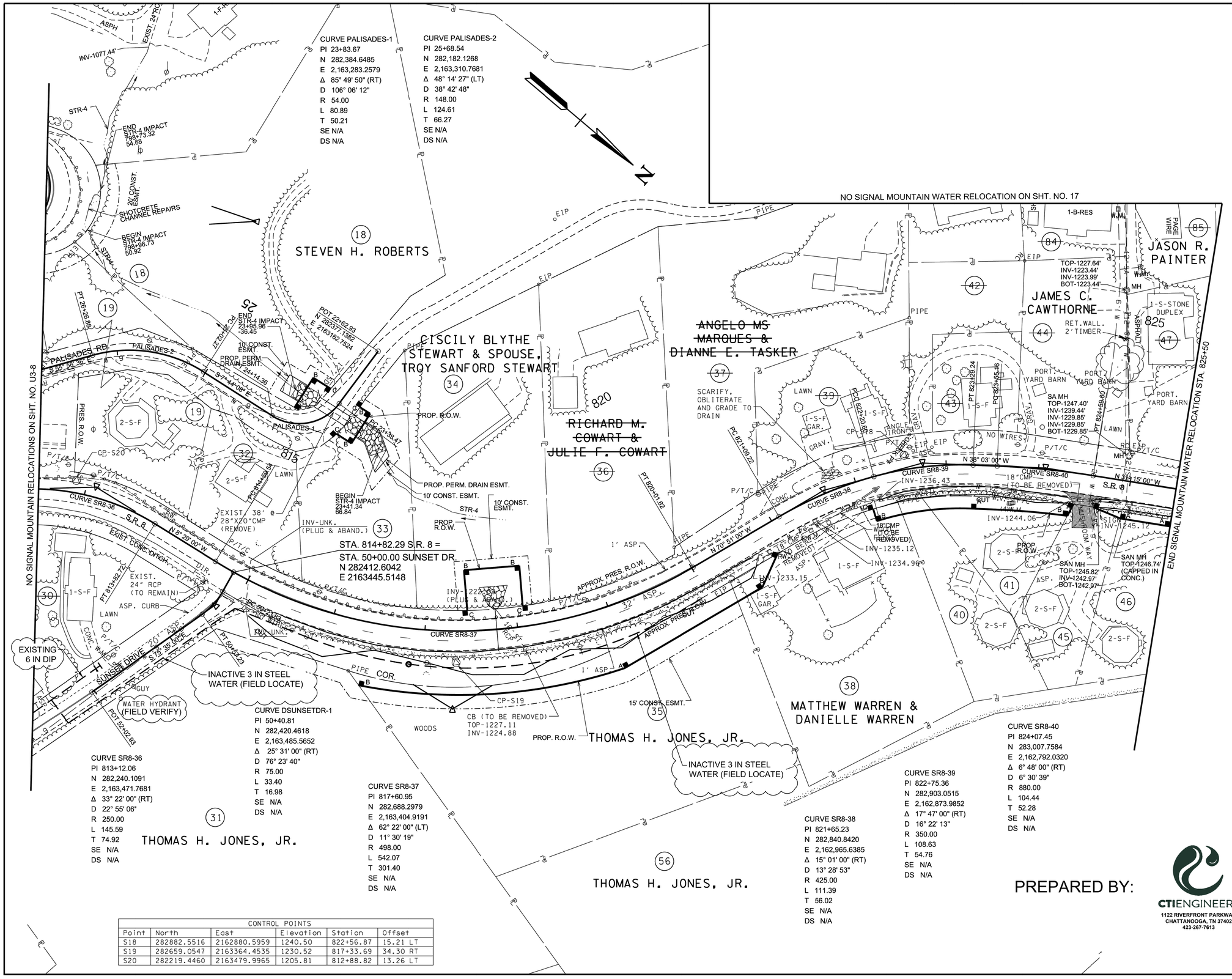
REV. 3-8-22: EXTENDED PALISADES ALIGNMENT. MODIFIED EXISTING TRACTS 32 & 33. ADDED VARIOUS R.O.W. ACQUISITIONS TO TRACTS 18, 19, 33, 34 & 38. REMOVED R.O.W. ACQUISITIONS FROM TRACTS 44, 47, 84 & 85.

REV. 8-9-23: MODIFIED TEMPORARY CONSTRUCTION EASEMENT TRACT NO. 38.

REV. 3-19-24: REVISED PROPERTY OWNER NAME FOR TRACT 34. ADDED DRIVEWAY TO TRACT 45. ADDED DRIVEWAY CONSTRUCTION EASEMENTS TO TRACTS 41 & 45. ADDED PROPERTY LINE BETWEEN TRACTS 35 & 56.

REV. 1-21-25: REMOVED TCE FROM TRACTS 41 & 45.

REV. 2-12-25: REVISED TRACT 31 OWNER.



CONTROL POINTS					
Point	North	East	Elevation	Station	Offset
S18	282882.5516	2162880.5959	1240.50	822+56.87	15.21 LT
S19	282659.0547	2163364.4535	1230.52	817+33.69	34.30 RT
S20	282219.4460	2163479.9965	1205.81	812+88.82	13.26 LT

CTI PROJECT NO. C2207

SEALED BY

ELBERT R. KEY REGISTERED LANDSCAPE ARCHITECT STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION (PRESENT LAYOUT)

STA. 812+50 TO STA. 825+50
SCALE: 1"=50'

PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

DATE OF PRINT: 7/24/2026 2:58 PM
11/2/2025 10:43:10 PM
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C:\1 PROJECT: C22007; DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322x417)24/26 2:33PM), LAYOUT: U3-10

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-10
CONST.		33021-3231-14	
PIN		124080.00	

REV. 12-10-21: UPDATED DRAINAGE CALLOUTS M2 AND M3.

REV. 3-8-22: MODIFIED "M" SERIES DRAINAGE. ADDED PROPOSED BOX CULVERT ON PALISADES ROAD. REMOVED "L" SERIES DRAINAGE.

REV. 3-19-24: ADDED DRIVEWAY AT STA 824+50 RT.

NOTE: DURING CONSTRUCTION OF THE STREAM CONVEYANCE STRUCTURE, THE CONTRACTOR SHALL GATHER COARSE ALLUVIUM FROM PORTIONS OF THE STREAM CHANNEL THAT IS BEING EXCAVATED OR FILLED AND STOCKPILE THE MATERIAL IN A NON-WETLAND/AQUATIC SITE. FOLLOWING THE INSTALLATION OF THE STRUCTURE, THE STOCKPILED ALLUVIUM SHALL BE BACKFILLED WITHIN THE STRUCTURE TO SATISFY THE REQUIRED EMBEDMENT DEPTH AS DEPICTED IN THE PLANS. WHEN THESE MATERIALS ARE NOT PRESENT OR SUFFICIENT TO PROVIDE THE REQUIRED EMBEDMENT DEPTH, THE REMAINDER OF THE FILL FOR EMBEDMENT WILL BE COMPRISED OF MATERIALS THAT ARE APPROXIMATELY THE SAME SIZE AND COMPOSITION AS THE UPSTREAM AND DOWNSTREAM CHANNEL MATERIALS. THE STANDARD DRAWING FOR SUBSTRATE RESTORATION D-NSD-30 SHOULD BE USED.

MATCH LINE SEE SHT. NO. 17B

MATCH LINE SEE SHT. NO. 9B

MATCH LINE STA. 812+50 SEE SHT. NO. 11B

MATCH LINE STA. 825+50 SEE SHT. NO. 11B

STR-4

END STR-4 IMPACT 798+73.32 54.68

798+49.95 44.78

799+00.00 48.20

SHOTCRETE CHANNEL REPAIRS

BEGIN STR-4 IMPACT 798+96.73 50.92

TIE EXIST. 12" SD TO BOX

INV. 1159.76 BB2 EW

STR-4 INLET & OUTLET CHANNEL TYPICAL NTS

2' 2:1 10' 2:1 RIP-RAP

END STR-4 IMPACT 23+95.96 36.45

POT 22462.93 N 282377.1392 E 2163162.7824

SEE DETAIL DWG. U3-24

CLASS C RIP RAP APRON 27'X 18'

PALISADES RD.

S 55° 58' 36" E

S 7°44'09" E

PROP. 12' X 5' @ 38' BOX CULV. (WITH 1' EMBEDMENT)

CLASS A-1 RIP RAP APRON 49.6'X 18'

EXIST. CONC. RETAINING WALL

INV. 1162.73 BB1 EW

BEGIN STR-4 IMPACT 23+41.34 66.84

STR-4

STA. 814+82.29 S.R. 8 = STA. 50+00.00 SUNSET DR. N 282412.6042 E 2163445.5148

REPLACE 60' OF EXIST. GR

M11 EW INV. 1220.08

TIE TO EXIST. GUARDRAIL STA. 817+25.85

RIP RAP APRON 24'X30.5'

48 LF PROP. 58"X36" RCAP

TIE TO EXIST. GUARDRAIL STA. 818+25.85

S.R. 8

N 9° 29' 00" W

N 70° 51' 00" W

N 38° 03' 00" W

N 31° 15' 00" W

BEND AS REQUIRED

EXIST. 24" RCP (TO REMAIN)

SUNSET DRIVE 20' ASP.

S 75° 35' 50" E

32' ASP.

PROP. 36" RCP

PROP. WALL D8

BEGIN SPECIAL DITCH STA. 815+17.04 OFF 24.04'

815+50.00 24.60'

816+00.00 25.56'

816+50.00 26.34'

817+00.00 26.55'

817+50.00 26.63'

818+00.00 25.61'

818+50.00 25.61'

819+00.00 25.06'

819+50.00 25.70'

820+00.00 26.04'

820+50.03 26.86'

822+37.44 52.97'

822+50.00 29.30'

823+00.00 29.50'

823+50.00 29.20'

824+00.00 31.70'

824+20.61 30.84'

824+79.18 28.26'

PROP. CONC. T-DITCH

END WALL D8 819+00.00 27.06'

BEGIN WALL D8 817+00.00 28.55'

M10 #40 TOP EL. 1225.59 IN.EL. 1221.86 OUT.EL. 1221.86

M9 #42 TOP EL. 1227.90 IN.EL. OUT.EL

M7 #42 TOP EL. 1230.86 IN.EL. 1225.41 OUT.EL. 1225.31

M8 #42 TOP EL. 1229.40 IN.EL. 1223.95 OUT.EL. 1223.86

M6 JB TOP EL. 1238.59 IN.EL. 1230.00 OUT.EL. 1229.90

M5 #40 TOP EL. 1237.54 IN.EL. 1232.09 OUT.EL. 1231.99

M4 #42 TOP EL. 1239.17 IN.EL. 1233.72 OUT.EL. 1233.62

M3 #42 TOP EL. 1241.08 IN.EL. 1235.63 OUT.EL. 1235.53

M2 #40 TOP EL. 1246.33 IN.EL. 1241.33 OUT.EL. 1241.23

M1 #40 TOP EL. 1246.81 OUT.EL. 1241.61

LIMIT OF CONST. 0+57.91 STA. 824+50.00 24' ASP. RES. ENT. (SEE CROSS SECTION)

TYPE 38 STA. 821+43.00

TYPE 38 STA. 822+68.00

NEW 6" DIP

AIR RELEASE VALVE

EXISTING 2" STEEL TO REMAIN IN PLACE

EXISTING 2" STEEL SEE CONNECTION DETAIL SHT. NO. U3-24

NEW 6" DIP IN CASING

RELOCATE WATER SERVICE AND MOVE METERS

NOTE: RIPRAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIPRAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL. VOIDS WITHIN THE RIPRAP SHALL BE FILLED WITH STREAM BED SUBSTRATE, IF AVAILABLE, TO PREVENT LOSS OF STREAM WITHIN RIP-RAP AREAS. STREAM BED SUBSTRATE CAN BE REMOVED FROM RIP-RAP EMBEDMENT AREA. IF STREAM BED SUBSTRATE IS NOT AVAILABLE, THE FOLLOWING SHOULD BE USED. PRIOR TO PLACEMENT OF RIPRAP, IT SHOULD BE MIXED WITH A MIXTURE OF 70 % CREEK GRAVEL AND 30 % SAND TO FILL THE VOIDS. ONCE THE RIP-RAP MIXTURE HAS BEEN INSTALLED THE AREA SHOULD BE THOROUGHLY COMPACTED. ONCE COMPACTED AN ADDITIONAL 1 -2 INCHES OF SAND AND CREEK GRAVEL SHALL BE ADDED TO FILL IN THE REMAINING VOIDS IF NEEDED. THE CONTRACTOR SHALL ENSURE THAT WATER WILL FLOW OVER THE RIPRAP AND THAT FLOW IS NOT LOST BELOW OR WITHIN THE ROCK.

EXISTING WATER METER AND VALVE TO REMAIN IN SERVICE. RECONNECT TO NEW LINE.

FIRE HYDRANT ASSEMBLY (FIELD LOCATE NEAR STA. 22+00± AT FLAT AREA)

PROPOSED 6 IN DIP WATERLINE

AIR RELEASE VALVE AT HIGH SPOT

PROPOSED 6 IN DIP WATERLINE

6 IN 90° MJ BEND

CONNECT TO EXISTING 6 IN DIP WATERLINE W/ 6 IN SS TAPPING SLEEVE AND VALVE (FIELD LOCATE)

LOW FLOW CHANNEL WITH SINGLE BARREL EMBEDDED STRUCTURE:
THE STREAM AT THE INLET AND OUTLET OF PROPOSED EMBEDDED STREAM CONVEYANCE STRUCTURES SHALL BE RESTORED TO THE PRECONSTRUCTION STREAM CHANNEL CROSS-SECTION MATCHING THE CHANNEL BOTTOM WIDTH AND BANK HEIGHT AND WIDTH. THE RESTORED STREAM CHANNEL WILL BE CONSTRUCTED FROM THE EXCAVATED STREAM AND STREAM BANK MATERIALS, OR OTHER MATERIALS IF SPECIFIED, ONCE THE CONSTRUCTION OF THE STREAM CONVEYANCE STRUCTURE IS COMPLETE. REFER TO THE "EMBEDDING OF STRUCTURES" NOTE FOR SPECIFICATIONS OF EXCAVATED STREAM MATERIALS TO BE USED, IF APPLICABLE.
WHEN RECONSTRUCTING THE STREAM BANK, USE A COIR FIBER ROLL AT THE TOE OF THE BANK TO PROVIDE BANK STABILITY WHILE NATIVE VEGETATION ESTABLISHES. STANDARD DRAWING D-NSD-33 MUST BE USED FOR COIR FIBER ROLL INSTALLATION. STREAM BANK MATERIALS EXCAVATED DURING THE CONSTRUCTION OF THE STREAM CONVEYANCE STRUCTURE, OR OTHER MATERIALS IF SPECIFIED, SHOULD BE USED WHEN RECONSTRUCTING THE STREAM BANK ONCE THE STRUCTURE IS COMPLETE. NATIVE SEED MIXTURES AS SPECIFIED IN STANDARD DRAWING STD-17-20 SHALL BE PLANTED ONCE THE BANK CONSTRUCTION IS COMPLETE. IF NATURAL CHANNEL DESIGN IS PROPOSED AT THE STRUCTURE INLET, OUTLET, OR BOTH, IMPLEMENT THE DESIGN AS SHOWN IN THE NATURAL CHANNEL DESIGN PLANS INSTEAD OF RESTORING THE CHANNEL TO THE PRECONSTRUCTION CROSS-SECTION.

NOTE:
THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF STR-4 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

CTI PROJECT NO. C2207

SEALED BY

ELBERT R. KEY REGISTERED ENGINEER 102375 STATE OF TENNESSEE

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION (PROPOSED LAYOUT)

STA. 812+50 TO STA. 825+50
SCALE: 1"= 50'

DATE OF PRINT: 7/24/2026 2:59 PM
11/2/2025 10:43:27 PM
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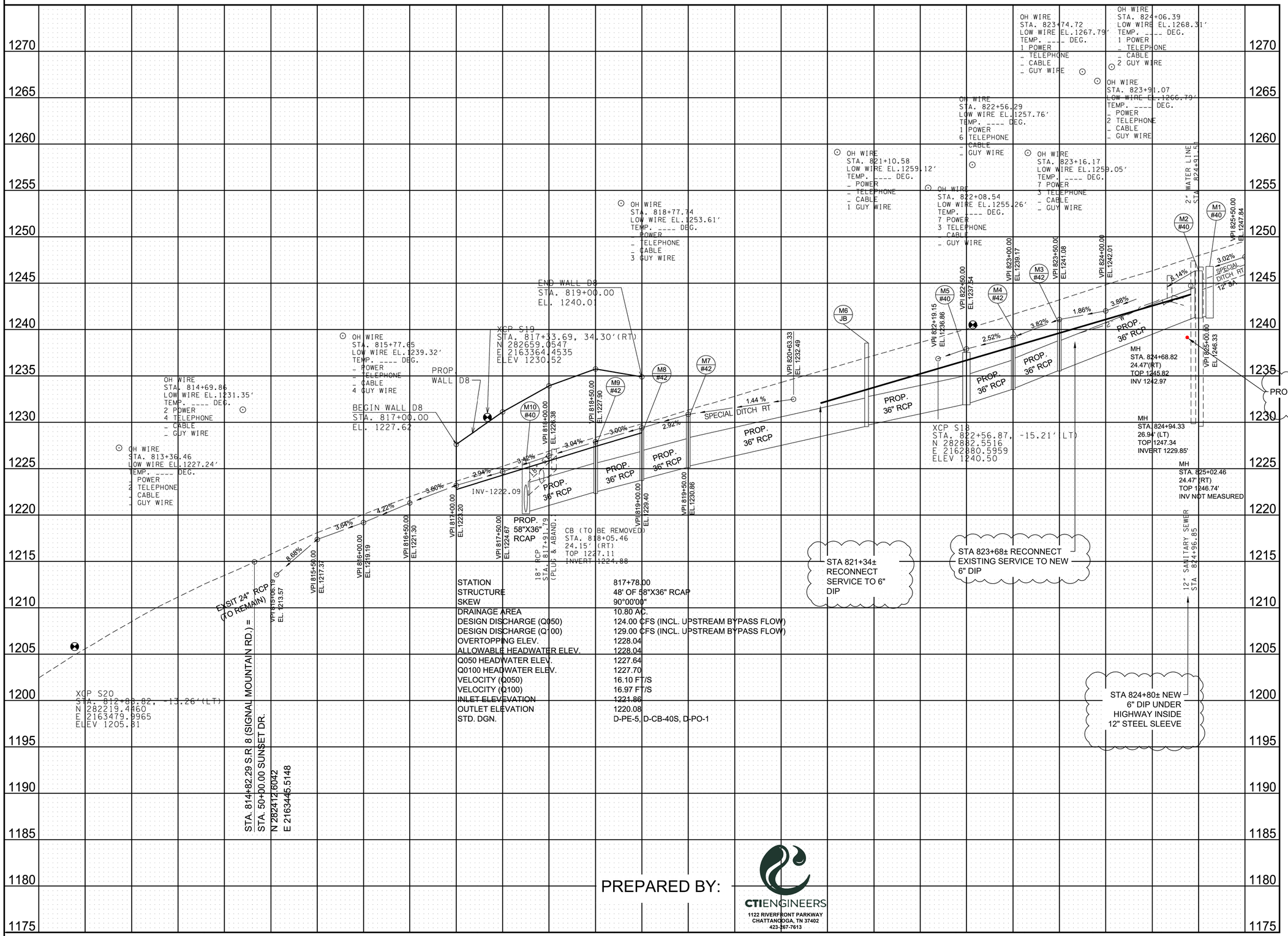
CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322=4/7/24/26 2:33PM), LAYOUT: U3-11

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-11
CONST.		33021-3231-14	
PIN		124080.00	

REV. 3-8-22: REMOVED "L" SERIES DRAINAGE. ADDED "M" SERIES DRAINAGE.



STATION	817+78.00
STRUCTURE	48' OF 58"X36" RCAP
SKEW	90°00'00"
DRAINAGE AREA	10.80 AC.
DESIGN DISCHARGE (Q050)	124.00 CFS (INCL. UPSTREAM BYPASS FLOW)
DESIGN DISCHARGE (Q100)	129.00 CFS (INCL. UPSTREAM BYPASS FLOW)
OVERTOPPING ELEV.	1228.04
ALLOWABLE HEADWATER ELEV.	1228.04
Q050 HEADWATER ELEV.	1227.64
Q0100 HEADWATER ELEV.	1227.70
VELOCITY (Q050)	16.10 FT/S
VELOCITY (Q100)	16.97 FT/S
INLET ELEVEVATION	1221.86
OUTLET ELEVATION	1220.08
STD. DGN.	D-PE-5, D-CB-40S, D-PO-1

PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

CTI PROJECT NO. C2207

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STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 812+50 TO STA. 825+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

DATE OF PRINT: 7/24/2026 2:59 PM
11/2/2025 10:43:35 PM
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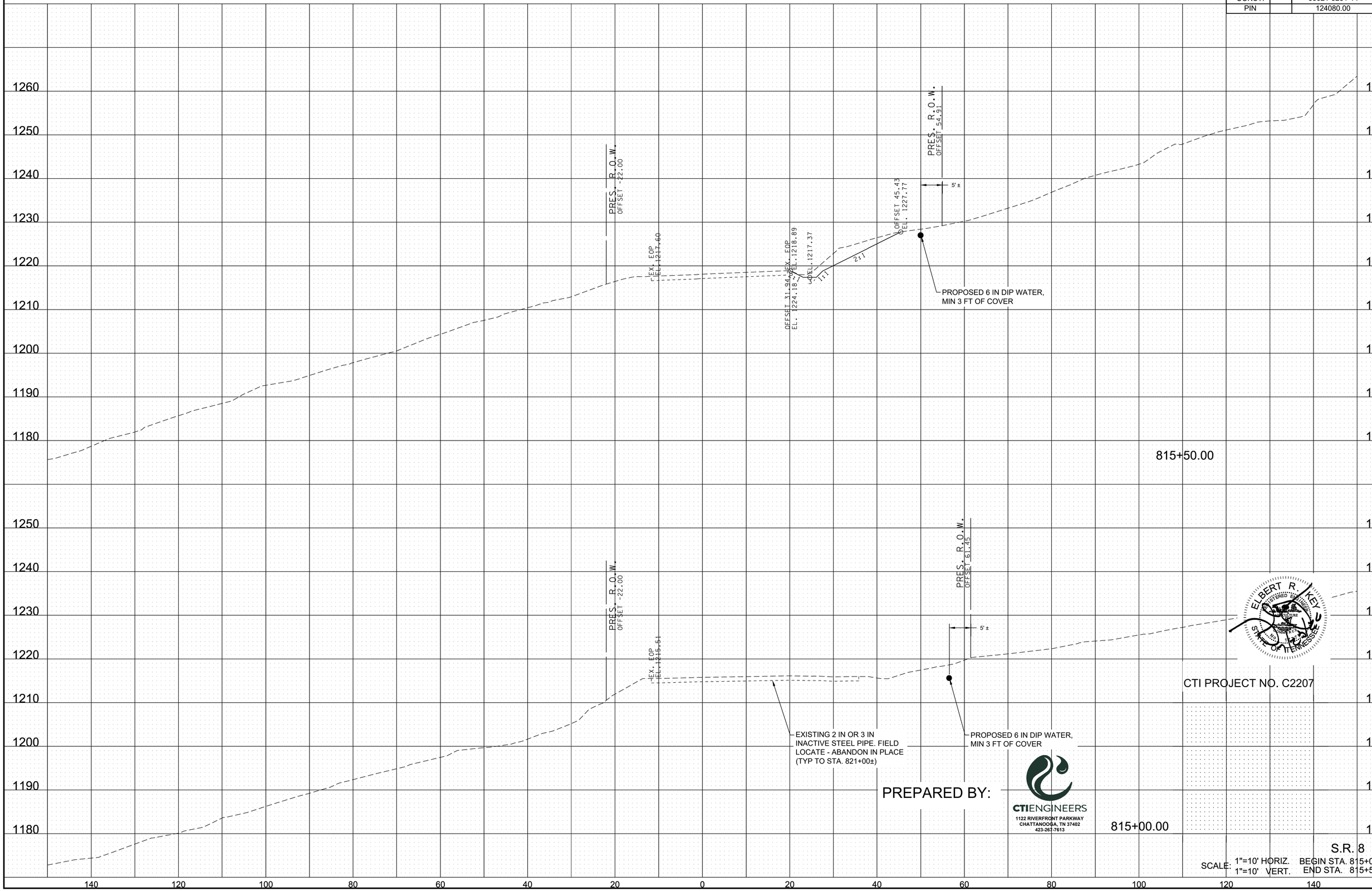
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-12
CONST.		33021-3231-14	
PIN		124080.00	



CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322v4/7/24/26 2:33PM), LAYOUT: U3-12

9/26/2024 7:58:52 PM
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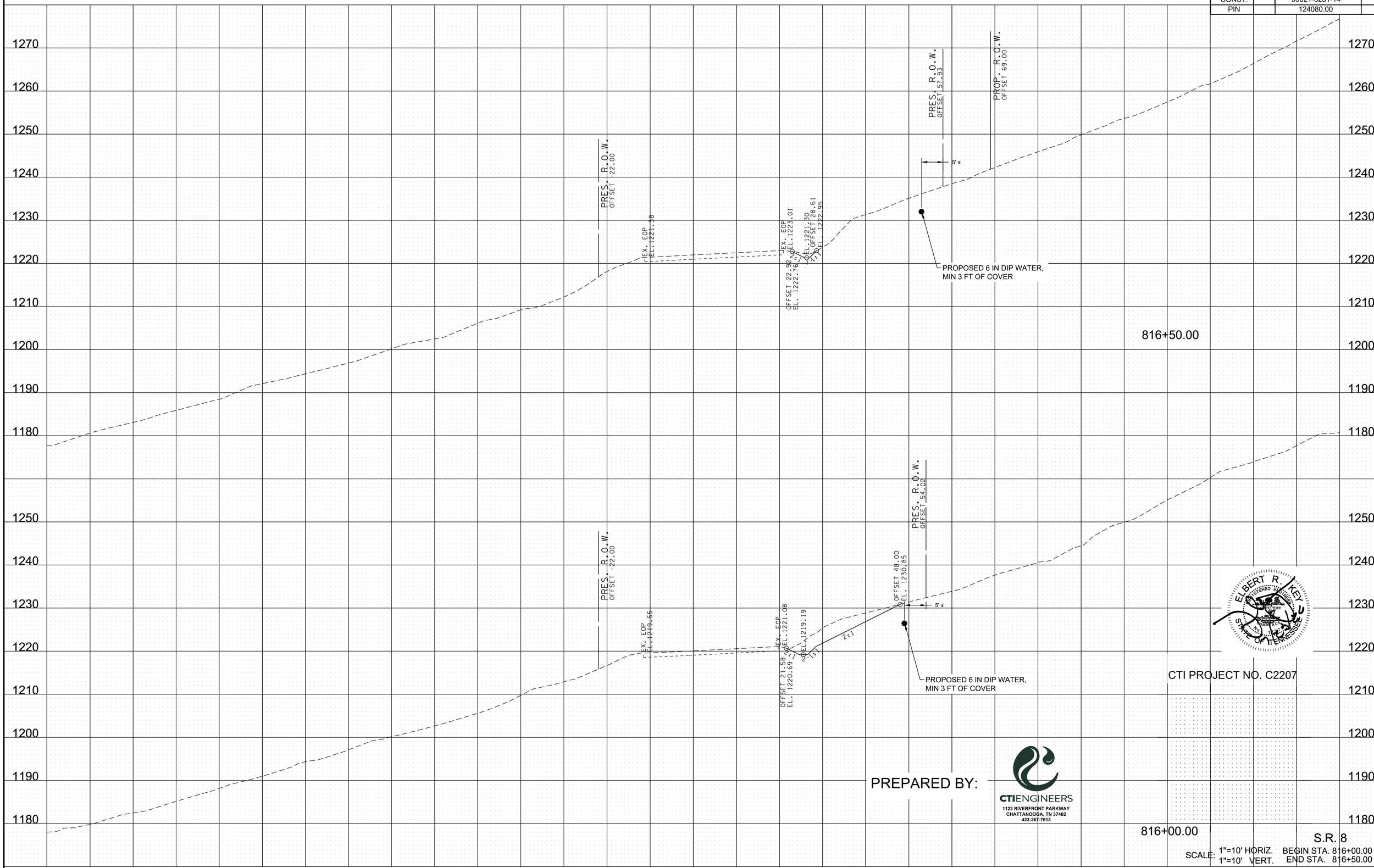
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-13
CONST.		33021-3231-14	
PIN		124080.00	



CTI PROJECT NO. C2207

PREPARED BY:

CTI ENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

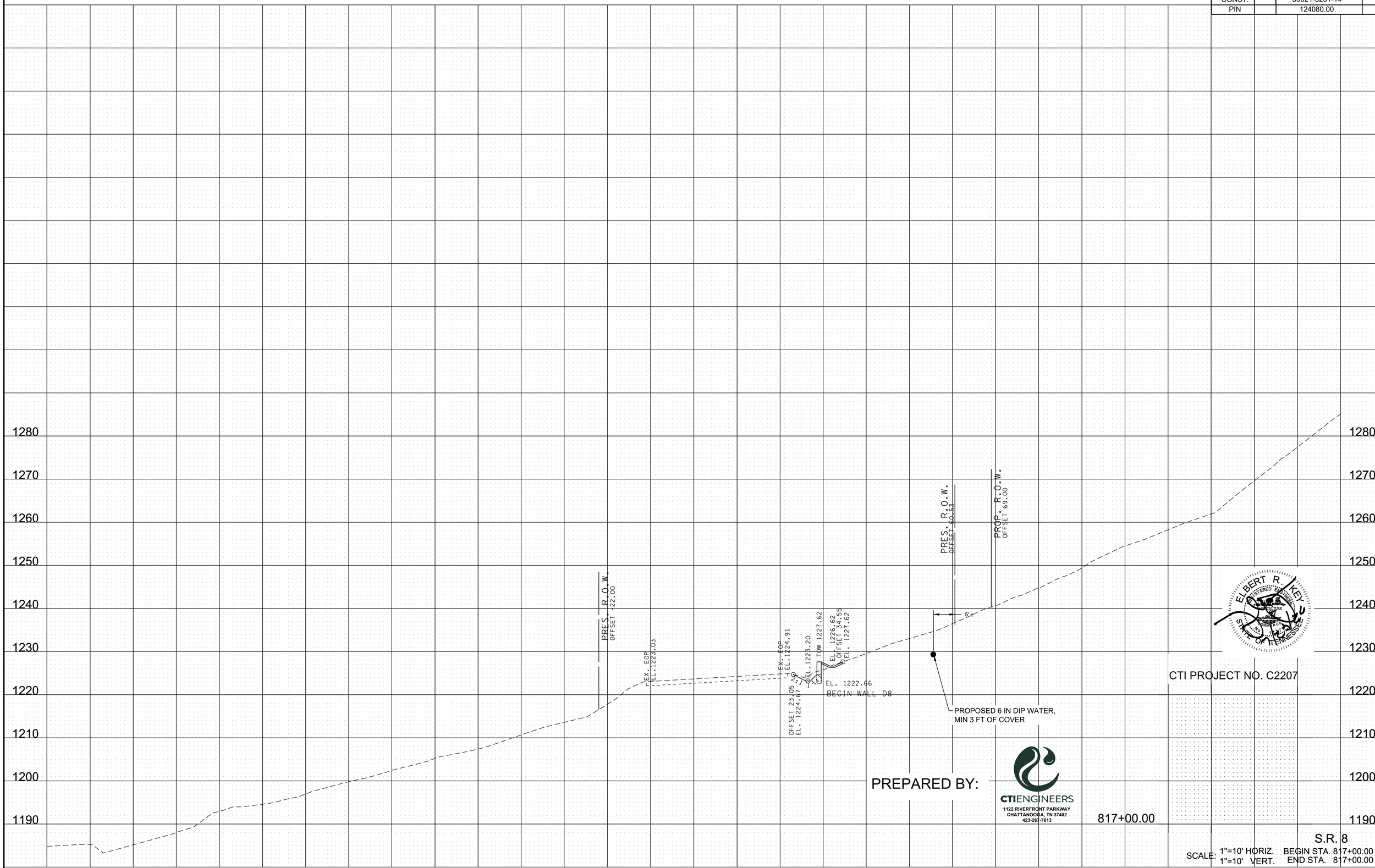
S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT.
BEGIN STA. 816+00.00
END STA. 816+50.00

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322v4/7/24/26 2:33PM), LAYOUT: U3-13

c:\pw_work\arcadispw01\june.henderson\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-14
CONST.		33021-3231-14	
PIN		124080.00	



PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

817+00.00

CTI PROJECT NO. C2207

ELBERT R. KEY
REGISTERED ENGINEER
STATE OF TENNESSEE

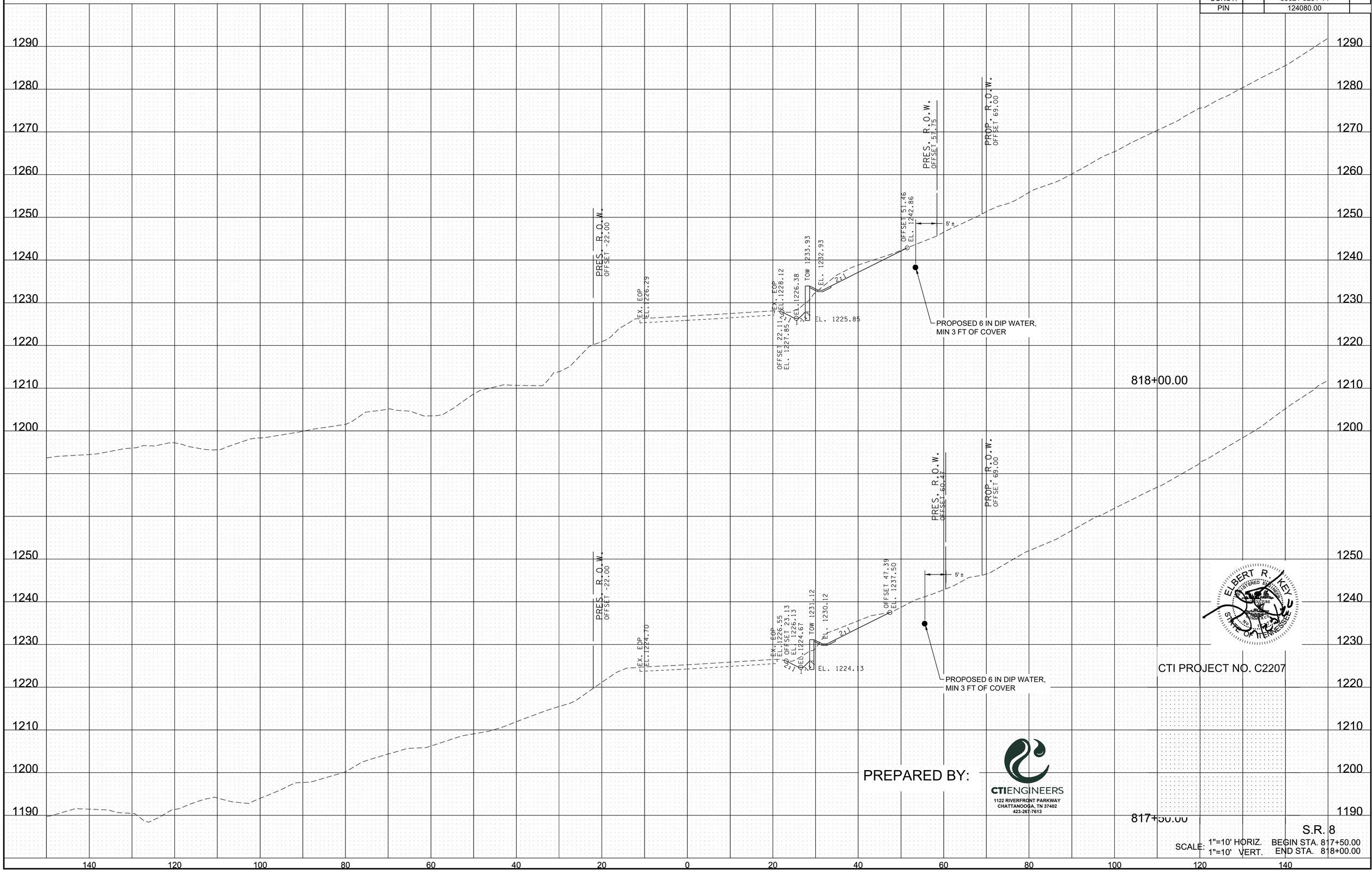
S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT.
BEGIN STA. 817+00.00
END STA. 817+00.00

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322v4/7/24/26 2:33PM), LAYOUT: U3-14

c:\pw_work\arcadispw01\june.henderson\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-15
CONST.		33021-3231-14	
PIN		124080.00	



ELBERT R. KEY
REGISTERED ENGINEER
LICENSE
No. 115911
STATE OF TENNESSEE

CTI PROJECT NO. C2207

PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 817+50.00
1"=10' VERT. END STA. 818+00.00

CTI PROJECT: C22007; DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322w4/7/24/26 2:33PM), LAYOUT: U3-15

9/26/2024 7:50:05 AM
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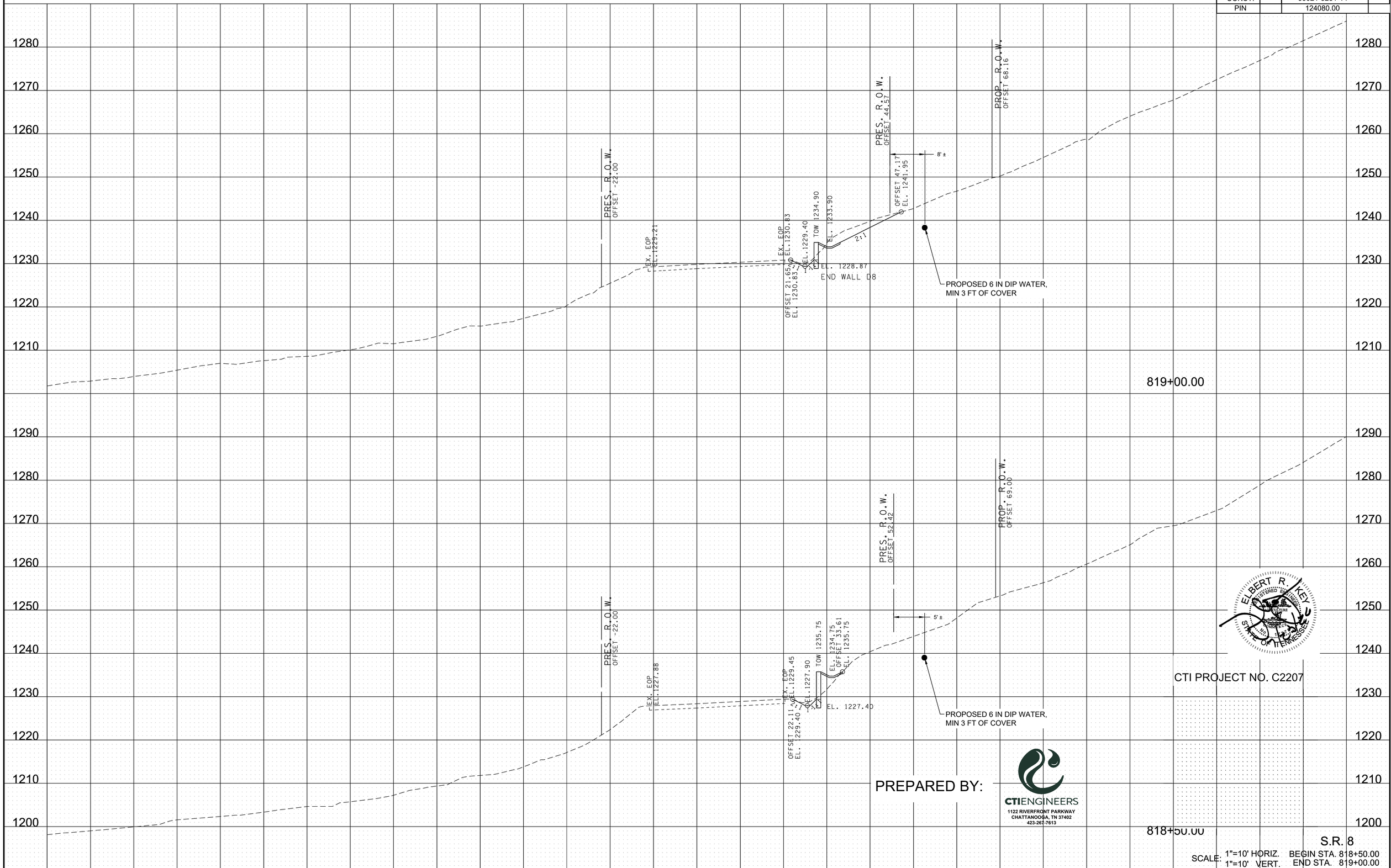
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-16
CONST.		33021-3231-14	
PIN		124080.00	

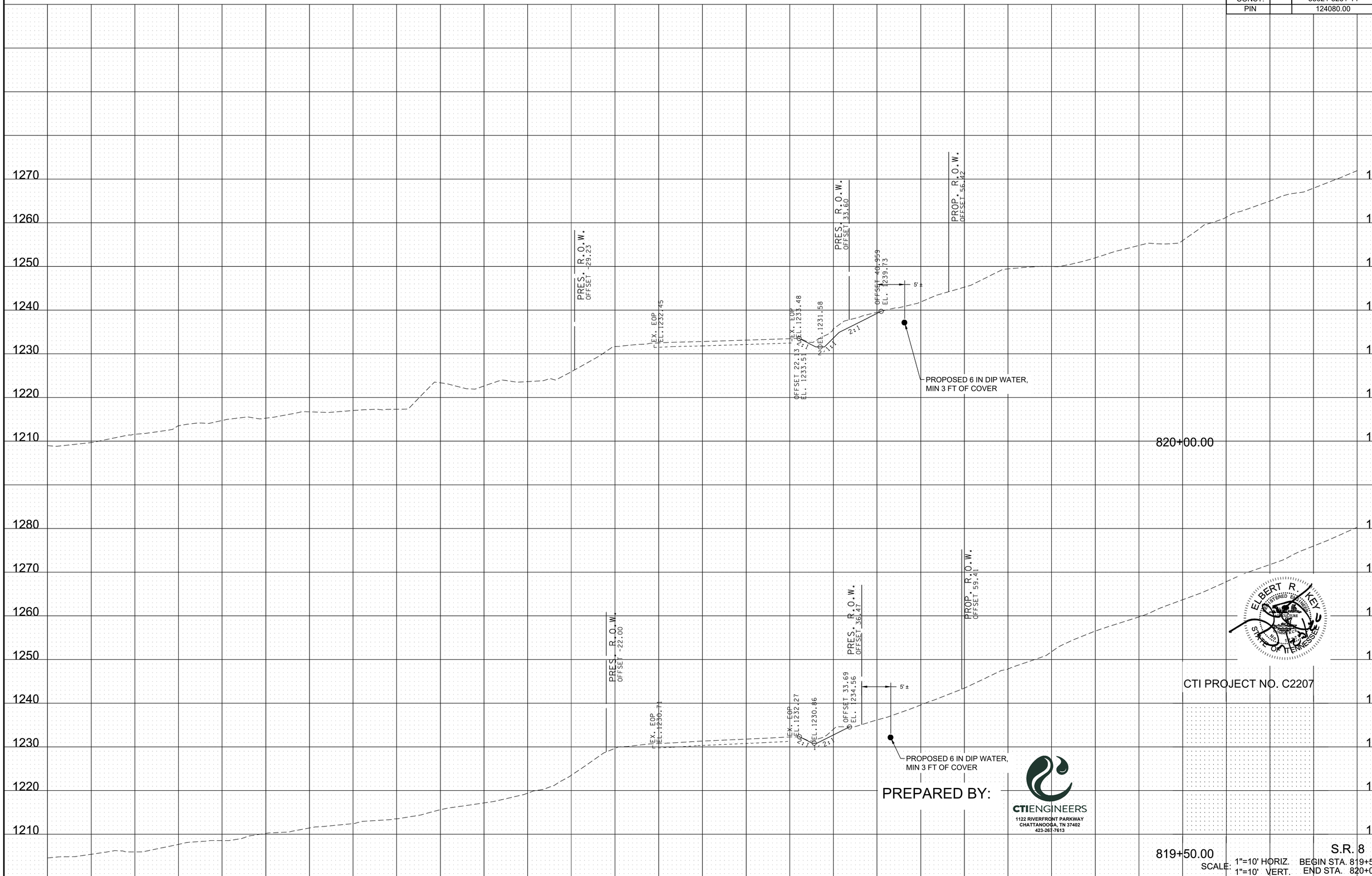


CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322v4/7/24/26 2:33PM), LAYOUT: U3-16

c:\pw_work\arcadispw01\june.henderson\dms34141\HTSR08MainlineXSSheets.sht

CTI PROJECT: C22007; DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322w4/7/24/26 2:33PM), LAYOUT: U3-17

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-17
CONST.		33021-3231-14	
PIN		124080.00	



ELBERT R. KEY
REGISTERED ENGINEER
LICENSE
No. 120
STATE OF TENNESSEE

CTI PROJECT NO. C2207

PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 819+50.00
1"=10' VERT. END STA. 820+00.00

9/24/2024 2:33:26 PM
c:\pw_work\arcadispw01\june.henderson\dms34141\HTSR08MainlineXSSheets.sht

CTI PROJECT: C22007; DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322w4/7/24/26 2:33PM), LAYOUT: U3-18

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-18
CONST.		33021-3231-14	
PIN		124080.00	

PRES. R.O.W. OFFSET -36.41

EX. EOP EL. 1237.36

PRES. R.O.W. OFFSET 33.60

EX. EOP EL. 1236.69

2'

3'

36" RCP

PROP. 6" DIP

EXISTING 2" TO BE ABANDONED IN PLACE

821+50.00

PRES. R.O.W. OFFSET -34.62

EX. EOP EL. 1235.79

PRES. R.O.W. OFFSET 33.60

EX. EOP EL. 1235.81

2'

3'

36" RCP

PROP. 6" DIP

EXISTING 2" TO BE ABANDONED IN PLACE

NOTE: PROVIDE AIR RELEASE VALVE IN HIGH SPOT (FIELD LOCATE)

821+00.00

PRES. R.O.W. OFFSET -31.92

EX. EOP EL. 1234.22

PRES. R.O.W. OFFSET 33.60

PROP. R.O.W. OFFSET 56.42

EX. EOP EL. 1234.64

OFFSET 41.81 EL. 1240.09

2'

2:1

3'

OFFSET 21.92 EL. 1234.64

EL. 1232.30

2:1

PROP. 6" DIP

820+50.00

S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT.

BEGIN STA. 820+50.00

END STA. 821+50.00

1270 1260 1250 1240 1230 1220

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

ELBERT R. KEY
REGISTERED ENGINEER
No. 120,122
STATE OF TENNESSEE

CTI PROJECT NO. C2207

PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

DATE OF PRINT: 7/24/2026 3:00 PM
10/31/2025 5:06:24 PM
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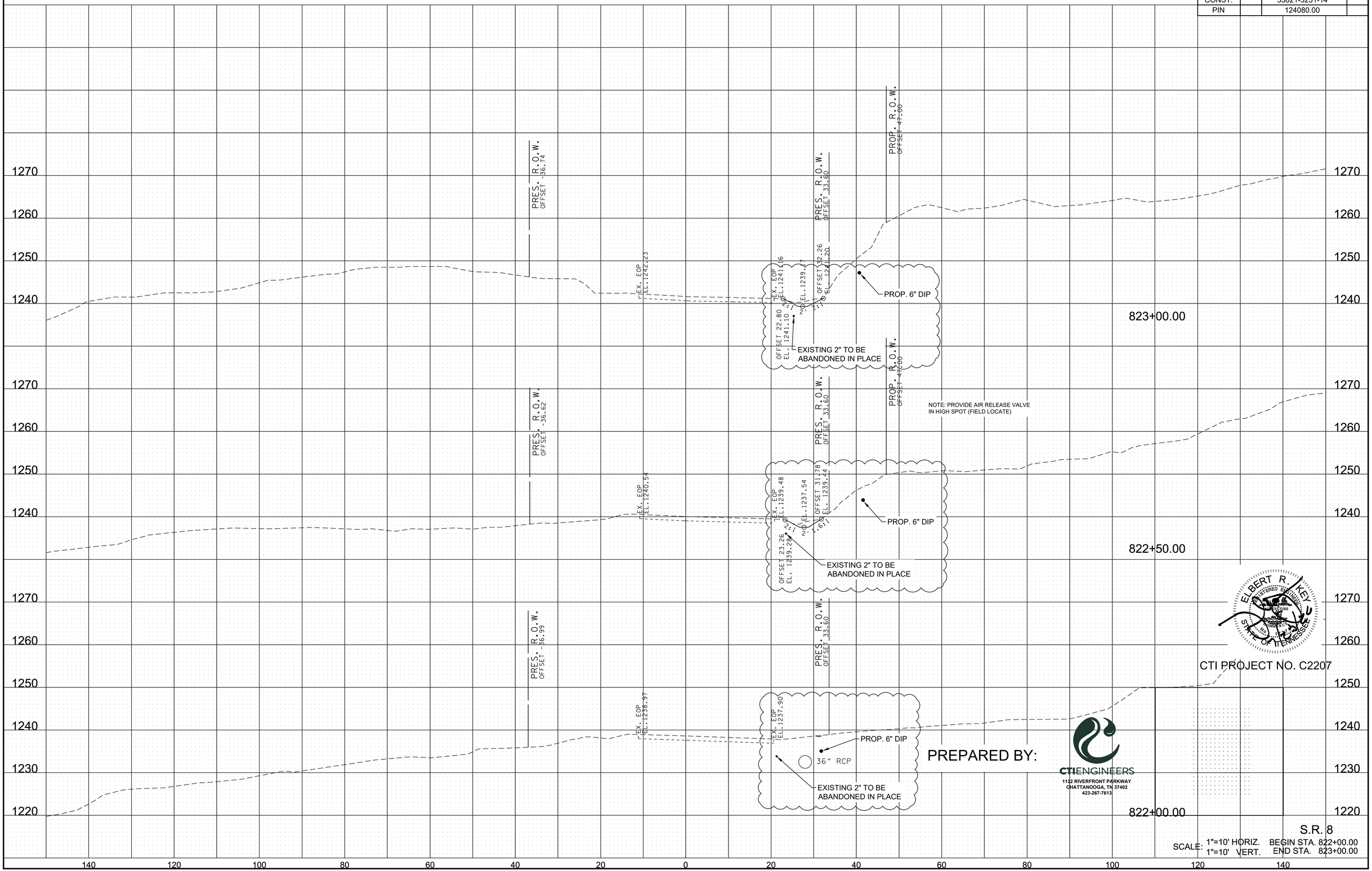
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-19
CONST.		33021-3231-14	
PIN		124080.00	



CTI PROJECT NO. C2207

PREPARED BY:

CTI ENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT. BEGIN STA. 822+00.00 END STA. 823+00.00

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322v4/7/24/26 2:33PM), LAYOUT: U3-19

DATE OF PRINT: 7/24/2026 3:00 PM

10/31/2025 5:06:26 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-20
CONST.		33021-3231-14	
PIN		124080.00	

AND PROP. PIPE AT STA. 824+50.00.

1270
1260
1250
1240
1270
1260
1250
1240
1280
1270
1260
1250

PRES. R.O.W. OFFSET -29.71
PRES. R.O.W. OFFSET 33.60
PROP. R.O.W. OFFSET 47.66
LIMIT OF CONST. PROP. DRIVEWAY 0+57.91
EX. EOP EL. 1246.37
EX. EOP EL. 1245.97
14.5' VC
15.37'
EXISTING 2" TO BE ABANDONED IN PLACE
PROP. 6" DIP
824+50.00
NOTE: PROVIDE AIR RELEASE VALVE IN HIGH SPOT (FIELD LOCATE)

PRES. R.O.W. OFFSET -33.95
PRES. R.O.W. OFFSET 33.60
PROP. R.O.W. OFFSET 47.66
EX. EOP EL. 1245.14
EX. EOP EL. 1244.14
EX. EOP EL. 1244.01
OFFSET 36.46 EL. 1244.80
OFFSET 25.50 EL. 1243.95
2.00' @ -2.1%
EXISTING 2" TO BE ABANDONED IN PLACE
PROP. 6" DIP
824+00.00

PRES. R.O.W. OFFSET -38.16
PRES. R.O.W. OFFSET 33.60
PROP. R.O.W. OFFSET 47.66
EX. EOP EL. 1243.86
EX. EOP EL. 1242.68
EX. EOP EL. 1241.08
OFFSET 31.13 EL. 1244.91
OFFSET 22.50 EL. 1242.58
2.00' @ -7.1%
EXISTING 2" TO BE ABANDONED IN PLACE
PROP. 6" DIP
823+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

ELBERT R. KEY
REGISTERED ENGINEER
No. 120836
STATE OF TENNESSEE

CTI PROJECT NO. C2207

PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 823+50.00
1"=10' VERT. END STA. 824+50.00

DATE OF PRINT: 7/24/2026 3:00 PM
10/31/2025 5:06:28 PM
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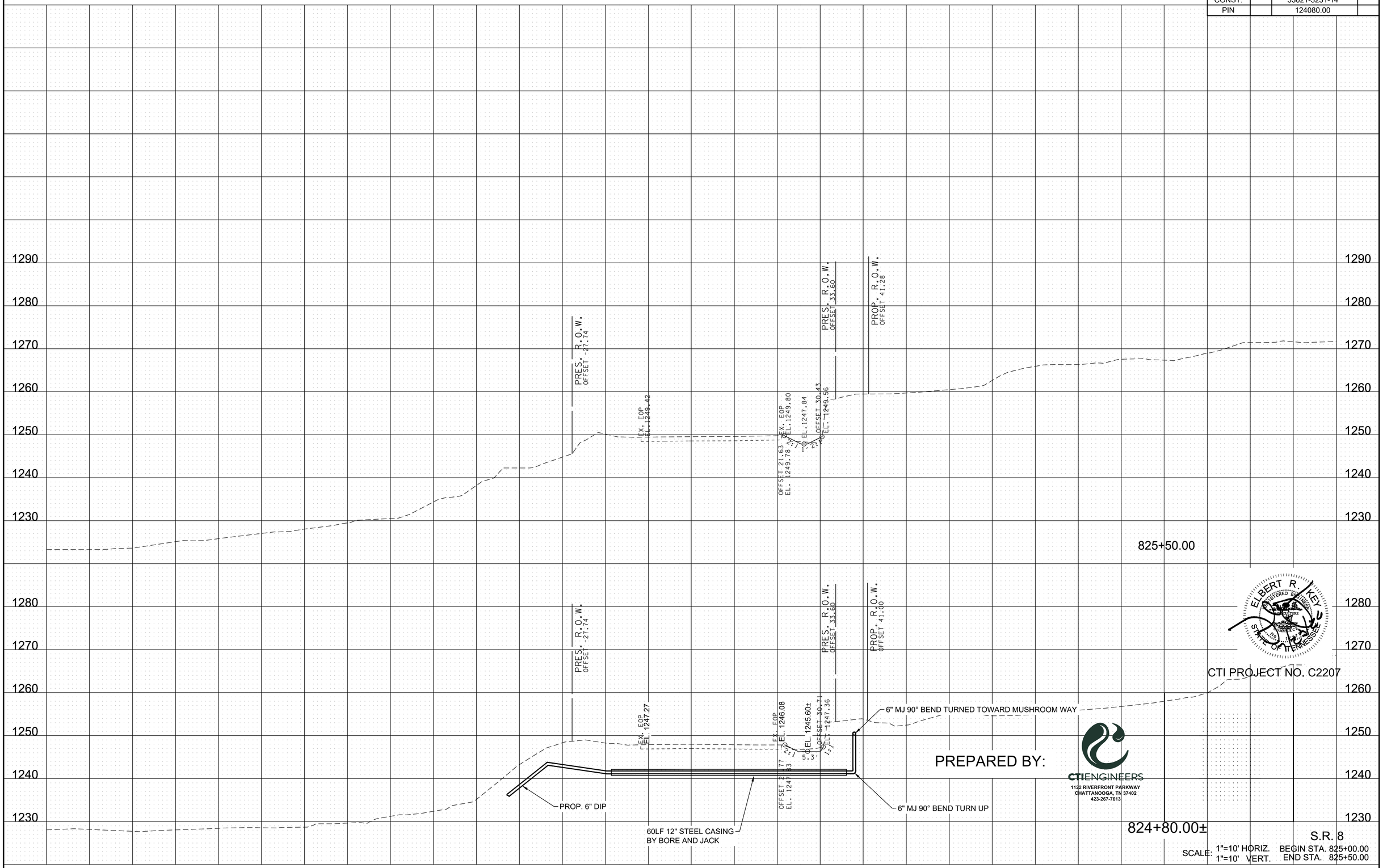
CTI PROJECT: C22007; DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322v4/7/24/26 2:33PM), LAYOUT: U3-20

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-21
CONST.		33021-3231-14	
PIN		124080.00	



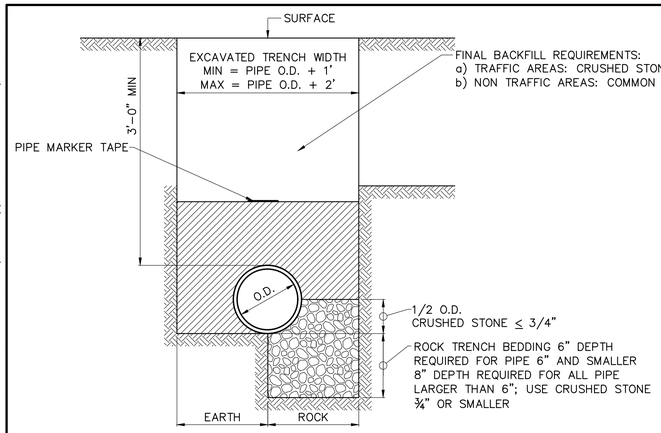
CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322v4/7/24/26 2:33PM), LAYOUT: U3-21

DATE OF PRINT: 7/24/2026 3:00 PM

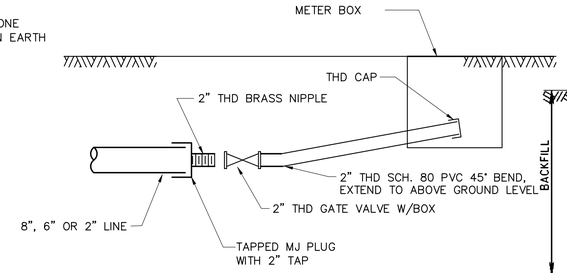
10/31/2025 5:06:30 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\HTSR08MainlineXSSheets.sht

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 DETAILS (RAINBOW) (9002774/5/7/23/26 5:29PM), LAYOUT: U3-22

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-22
CONST.		33021-3231-14	
PIN		124080.00	

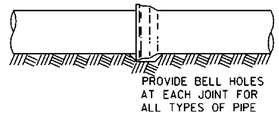


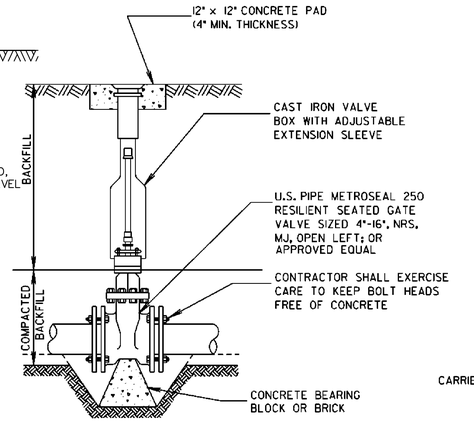
D.I.P. INSTALLATION DETAIL



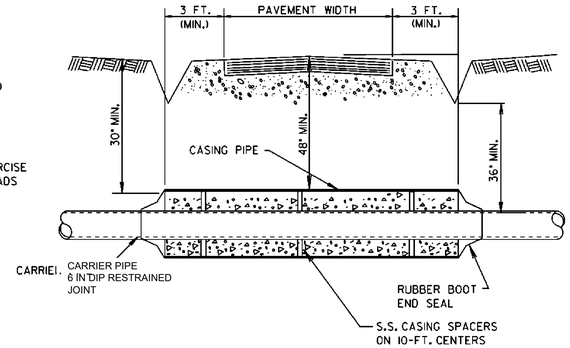
CONVENTIONAL BLOW-OFF

(AT END OF DEAD-END LINE
OR AS DIRECTED BY ENGINEER)

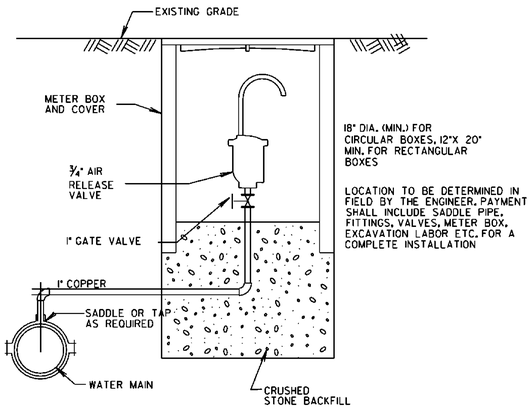




GATE VALVE INSTALLATION DETAIL
N.T.S.



HIGHWAY CROSSING DETAIL
NOT TO SCALE



AIR RELEASE VALVE DETAIL
NOT TO SCALE

PIPE SIZE X	A	B	DEPTH C
11¼° BEND			
16"	1'-0"	1'-4"	1'-4"
12"	1'-0"	1'-2"	1'-3"
10"	0'-9"	1'-0"	1'-0"
8"	0'-9"	1'-0"	0'-8"
6"	0'-9"	1'-0"	0'-6"
4"	0'-6"	1'-0"	0'-4"
DEAD END			
16"	1'-0"	3'-0"	3'-0"
12"	0'-11"	2'-6"	2'-7"
10"	0'-9"	2'-0"	2'-4"
8"	0'-7"	1'-8"	1'-9"
6"	0'-5"	1'-3"	1'-5"
4"	0'-4"	0'-10"	0'-11"
TEE			
16"	2'-6"	5'-6"	3'-0"
12"	2'-0"	4'-9"	2'-9"
10"	1'-9"	4'-0"	2'-3"
8"	1'-6"	3'-0"	2'-0"
6"	1'-0"	2'-8"	1'-6"
4"	1'-0"	2'-0"	1'-0"

PIPE SIZE X	A	B	DEPTH C
90° BEND & UNBALANCED TEE			
16"	1'-9"	3'-6"	3'-6"
12"	1'-6"	3'-0"	3'-0"
10"	1'-4"	2'-2"	3'-0"
8"	1'-0"	2'-0"	2'-0"
6"	1'-0"	1'-3"	2'-0"
4"	0'-9"	1'-0"	1'-0"
45° BEND			
16"	1'-0"	4'-3"	2'-0"
12"	1'-0"	2'-6"	2'-0"
10"	0'-9"	2'-0"	1'-9"
8"	0'-9"	1'-6"	1'-8"
6"	0'-9"	1'-0"	1'-6"
4"	0'-9"	1'-0"	1'-0"
22½° BEND			
16"	1'-0"	2'-4"	2'-0"
12"	1'-0"	1'-6"	1'-9"
10"	0'-9"	1'-3"	1'-6"
8"	0'-9"	1'-0"	1'-4"
6"	0'-9"	0-10"	1'-0"
4"	0'-9"	0'-7"	1'-0"

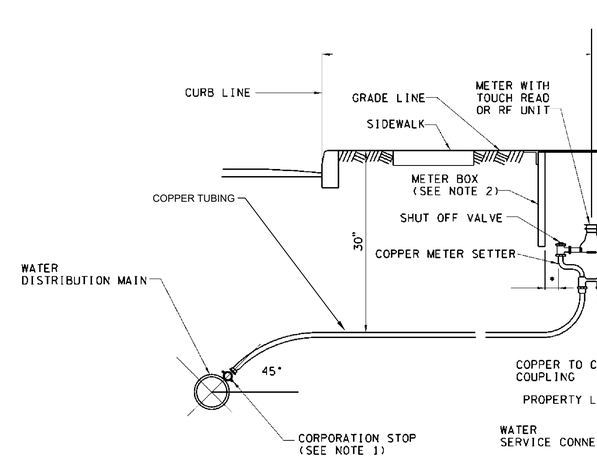
TABLE OF DIMENSIONS FOR HORIZONTAL & VERTICAL BENDS

NOTE : ALL CONCRETE FOR THRUST BLOCKS SHALL BE READY-MIXED 3000 psi (MINIMUM) CLASS "B". MIX DESIGN SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO USE. THRUST BLOCKS BASED ON 225 psi & 2000lb/ft2 SOIL RESISTANCE TYPICAL FOR UNDISTURBED SAND AND GRAVEL CEMENTED WITH CLAY. FOR OTHER SOILS THE BEARING FACE OF THE THRUST BLOCKS SHOULD BE INCREASED BY THE FOLLOWING FACTORS.

SAND	2
SAND & GRAVEL	1.33
SHALE	0.4

SOFT CLAY, MUCK AND PEAT SHALL USE RESTRAINED JOINTS IN LIEU OF THRUST BLOCKS.

PLAN-TYPICAL PLUG
NOT TO SCALE

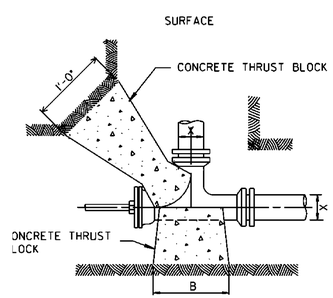


•CLEARANCE SHALL BE EQUAL DISTANCE EACH SIDE OF SETTER

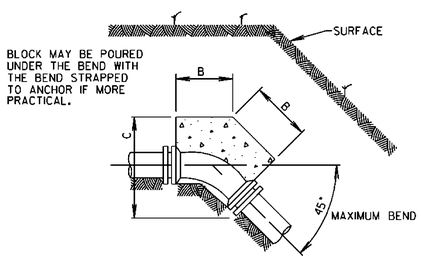
NOTES:

1. CORPORATION STOP WITH STRAIGHT COUPLING NUT. SERVICE SADDLES WILL BE USED FOR ALL TAPS
2. 14" X 14" X 16" DEEP STEEL METER BOX FOR USE WITH ⅝" METER 14" X 22" X 16" DEEP STEEL METER BOX FOR USE WITH 1" METER.

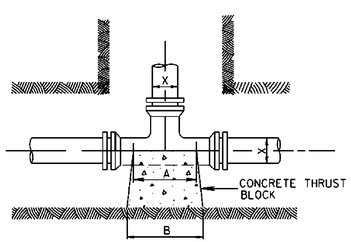
TYPICAL SERVICE WITH VERTICAL METER SETTER INSTALLATION DETAIL
NOT TO SCALE



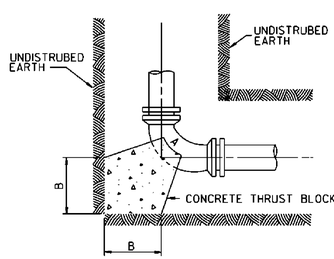
PLAN-UNBALANCED TEE
NOT TO SCALE



PLAN-TYPICAL VERTICAL BEND
NOT TO SCALE

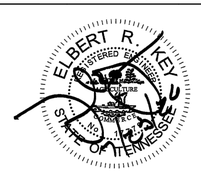


PLAN-TYPICAL TEE
NOT TO SCALE



PLAN-TYPICAL HORIZONTAL BEND
NOT TO SCALE

SEALED BY



COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

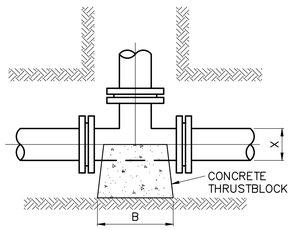
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETAILS

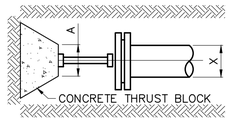
CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

DATE OF PRINT: 7/24/2026 3:14 PM

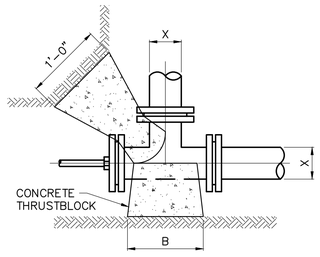
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-23
CONST.		33021-3231-14	
PIN		124080.00	



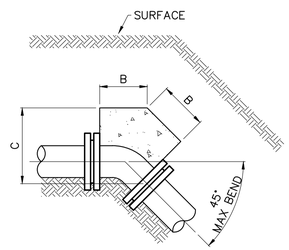
PLAN-TYPICAL TEE



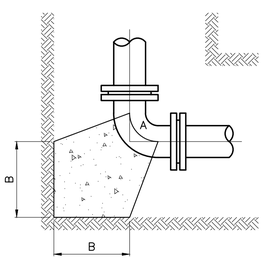
PLAN-TYPICAL PLUG



PLAN-UNBALANCED TEE



PLAN-TYPICAL VERTICAL BEND



PLAN-TYPICAL HORIZONTAL BEND

CONCRETE THRUST BLOCK DETAILS

N.T.S.

TYPE 2 BEDDING

NOM. PIPE SIZE (IN.)	HORIZONTAL & VERTICAL UP (NON-ENCROACHING) BENDS — ELBOWS (DEGREES)											
	150psi				200psi				250psi			
	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90
3	4	7	15	36	5	10	20	48	6	12	25	60
4	4	9	18	43	6	12	24	58	7	14	30	72
6	6	12	25	61	8	16	34	82	10	20	42	102
8	8	16	33	79	10	21	43	105	13	26	54	131
10	9	19	39	95	12	25	52	126	16	31	65	158
12	11	22	46	110	15	29	61	147	18	37	76	228
14	12	25	52	126	17	33	69	168	21	42	87	209
16	14	28	58	140	18	37	77	187	23	46	97	234
18	15	31	64	154	20	41	85	206	25	51	107	257
20	17	33	69	168	22	44	93	224	28	56	116	279
24	19	39	80	194	25	51	107	259	32	64	134	323

NOM. PIPE SIZE (IN.)	VERTICAL DOWN (NON-ENCROACHING) BENDS — ELBOWS (DEGREES)											
	150psi				200psi				250psi			
	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90
3	5	11	23	56	2	3	6	15	2	4	8	20
4	7	13	28	67	2	4	8	18	2	5	10	25
6	9	19	39	95	3	5	11	26	3	7	14	35
8	12	24	51	123	3	7	14	34	4	9	19	45
10	15	30	62	149	4	8	17	41	5	11	22	54
12	17	35	72	174	5	10	20	48	6	13	26	64
14	20	39	82	198	5	11	23	55	7	14	30	73
16	22	44	92	221	6	12	25	61	8	16	34	82
18	24	49	101	245	7	14	28	68	9	18	38	91
20	26	53	110	266	7	15	31	74	10	20	41	99
24	31	62	129	310	9	17	36	87	11	23	48	116

NOM. PIPE SIZE (IN.)	VERTICAL UP (ENCROACHING) & COMBINED VERTICAL OFFSET (OVER OBJECT) — ELBOWS (DEGREES)											
	150psi				200psi				250psi			
	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90
3	7	14	30	72	8	18	39	95	11	23	49	119
4	9	17	36	87	10	22	47	115	13	28	59	144
6	12	24	51	123	15	31	67	162	19	40	84	203
8	16	31	65	157	20	41	86	209	25	51	108	261
10	19	38	79	190	24	49	104	252	30	62	130	315
12	22	44	92	221	28	58	121	294	35	72	152	367
14	25	50	104	251	32	66	138	334	40	82	173	418
16	28	56	116	280	36	73	154	373	45	92	193	466
18	30	61	128	309	40	81	169	410	50	101	212	513
20	33	67	139	335	43	88	184	446	54	110	231	558
24	38	77	161	388	50	102	213	516	63	128	267	646

NOM. PIPE SIZE (IN.)	VERTICAL DOWN (ENCROACHING) & COMBINED VERTICAL OFFSET (UNDER OBJECT) — ELBOWS (DEGREES)											
	150psi				200psi				250psi			
	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90
3	11	22	46	112	14	29	61	148	17	36	76	185
4	13	27	56	135	17	35	73	178	21	44	92	223
6	19	38	79	191	24	50	104	253	30	62	131	317
8	24	49	102	246	31	64	135	327	39	81	169	409
10	29	59	123	297	38	78	163	395	48	98	204	494
12	34	69	144	347	45	91	191	462	56	114	239	578
14	39	79	164	396	51	104	218	527	64	130	273	659
16	44	88	183	443	57	116	244	590	72	146	305	737
18	48	97	203	489	63	129	269	651	79	161	337	814
20	52	106	221	553	69	140	293	709	86	176	367	887
24	61	123	257	621	80	164	342	826	101	205	427	1033

NOM. PIPE SIZE (IN.)	REDUCERS	TEES, VALVES, DEAD-ENDS	REDUCERS	TEES, VALVES, DEAD-ENDS	REDUCERS	TEES, VALVES, DEAD-ENDS
	150psi		200psi		250psi	
3	------	56	------	74	------	93
4	21	67	29	90	36	112
6	49	95	66	127	82	159
8	51	123	69	164	86	205
10	50	149	66	198	83	248
12	51	174	68	231	85	289
14	51	198	68	264	84	330
16	50	221	67	295	84	369
18	50	245	66	326	83	408
20	49	266	66	355	82	444
24	93	310	124	414	155	517

TYPE 3 BEDDING

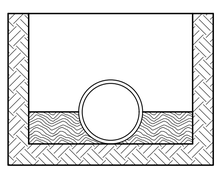
NOM. PIPE SIZE (IN.)	HORIZONTAL & VERTICAL UP (NON-ENCROACHING) BENDS — ELBOWS (DEGREES)											
	150psi				200psi				250psi			
	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90
3	2	4	9	21	3	6	12	28	3	7	15	35
4	3	5	11	25	3	7	14	34	4	8	18	42
6	4	7	15	36	3	6	12	28	6	12	25	60
8	5	9	19	46	6	12	25	62	8	15	32	77
10	5	11	23	56	7	15	31	74	9	18	38	93
12	6	13	27	65	8	17	36	86	11	21	45	108
14	7	15	30	74	10	19	41	98	12	24	51	123
16	8	16	34	82	11	22	45	109	13	27	57	137
18	9	18	37	90	12	24	50	120	15	30	62	150
20	10	19	41	98	13	26	54	131	16	32	68	163
24	11	23	47	113	15	30	63	151	19	38	78	189

NOM. PIPE SIZE (IN.)	VERTICAL DOWN (NON-ENCROACHING) BENDS — ELBOWS (DEGREES)											
	150psi				200psi				250psi			
	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90
3	4	7	15	36	5	10	20	48	6	12	25	60
4	4	9	18	44	6	12	24	58	7	14	30	73
6	6	12	26	62	8	16	34	82	10	20	43	103
8	8	16	33	80	10	21	44	106	13	26	55	133
10	9	19	40	96	13	26	53	128	16	32	67	161
12	11	22	47	113	15	30	62	150	18	37	78	188
14	13	26	53	128	17	34	71	171	21	43	89	214
16	14	29	59	144	19	38	79	191	24	48	99	239
18	16	32	66	159	21	42	88	211	26	53	109	264
20	17	34	72	173	23	46	95	230	28	57	119	288
24	20	40	83	201	26	53	111	268	33	67	139	335

NOM. PIPE SIZE (IN.)	VERTICAL UP (ENCROACHING) & COMBINED VERTICAL OFFSET (OVER OBJECT) — ELBOWS (DEGREES)											
	150psi				200psi				250psi			
	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90
3	3	7	17	41	5	10	22	55	6	13	28	70
4	4	9	20	50	6	13	27	67	7	16	34	84
6	6	13	29	71	8	18	39	95	11	23	49	119
8	8	17	37	91	11	23	50	122	14	30	63	153
10	10	21	45	110	14	28	60	147	17	36	76	184
12	12	25	53	128	16	33	70	171	20	42	88	215
14	13	28	60	146	18	38	80	195	23	48	100	244
16	15	32	67	163	21	42	90	218	26	53	112	272
18	17	35	74	179	23	47	99	239	29	59	123	300
20	18	38	80	195	25	51	107	260	31	64	134	326
24	21	44	93	225	29	59	124	301	36	74	155	376

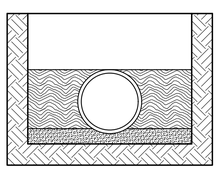
NOM. PIPE SIZE (IN.)	VERTICAL DOWN (ENCROACHING) & COMBINED VERTICAL OFFSET (UNDER OBJECT) — ELBOWS (DEGREES)											
	150psi				200psi				250psi			
	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90
3	6	13	29	71	8	18	39	95	11	23	49	119
4	8	16	35	86	10	22	47	115	13	28	59	144
6	11	24	50	123	15	32	67	164	19	40	84	205
8	15	31	65	158	20	41	87	212	25	52	109	265
10	18	37	79	192	24	50	105	256	31	63	132	320
12	21	44	92	224	29	59	123	299	36	74	154	374
14	24	50	105	256	33	67	141	341	41	84	176	427
16	27	56	118	286	37	75	158	382	46	94	197	478
18	30	62	130	316	41	83	174	422	51	104	218	527
20	33	68	142	344	44	91	190	459	56	113	237	574
24	39	79	166	401	52	106	221	535	65	132	277	669

NOM. PIPE SIZE (IN.)	REDUCERS	TEES, VALVES, DEAD-ENDS	REDUCERS	TEES, VALVES, DEAD-ENDS	REDUCERS	TEES, VALVES, DEAD-ENDS
	150psi		200psi		250psi	
3	------	36	------	48	------	60
4	14	44	19	58	23	73
6	32	62	42	82	53	103
8	33	80	44	106	56	133
10	32	96	43	128	54	161
12	33	113	44	150	55	188
14	33	128	44	171	55	214
16	33	144	43	191	54	239
18	32	159	43	211	54	264
20	32	173	43	230	53	288
24	60	201	80	268	100	335



TYPE 2 BEDDING

FLAT–BOTTOM TRENCH*. BACKFILL LIGHTLY CONSOLIDATED TO CENTERLINE OF PIPE.



TYPE 3 BEDDING

PIPE BEDDED IN 4" MIN. LOOSE SOIL**. BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE.

* "FLAT–BOTTOM" IS DEFINED AS "UNDISTURBED EARTH".

** "LOOSE SOIL" IS DEFINED AS "NATIVE SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH".

MECHANICAL THRUST RESTRAINT REQUIREMENTS FOR DUCTILE IRON PIPE
TABLE OF MINIMUM LENGTHS (L) IN FEET TO BE RESTRAINED ON EACH SIDE OF FITTING

HORIZONTAL

Nominal Pipe Size (in.)	Test Pressure - 300 psi: Elbow (Degrees) 11.25	22.5	45	90	Reducers	Tees, Valves, Dead-ends
3	3	6	12	29	--------	48
4	4	7	15	35	19	57
6	5	10	21	49	42	80
8	7	13	27	64	44	105
10	8	15	32	76	42	125
12	9	18	37	89	44	147
14	10	20	42	100	43	167
16	12	23	47	113	43	188
18	13	25	51	124	43	208
20	14	27	56	135	43	228
24	16	31	65	156	79	265
30	19	37	77	185	111	316

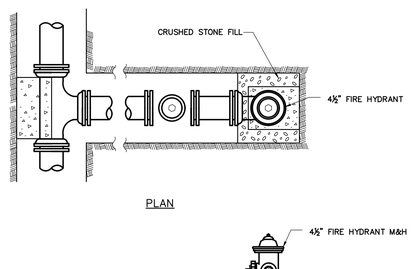
VERTICAL OFFSET

Nominal Pipe Size (in.)	Test Pressure - 300 psi: Elbow (Degrees) 11.25	22.5	45
3	5	9	19
4	6	11	22
6	8	15	31
8	10	20	40
10	12	23	48
12	14	27	57
14	16	31	64
16	18	35	72
18	19	39	80
20	21	42	87
24	24	49	101
30	29	58	121

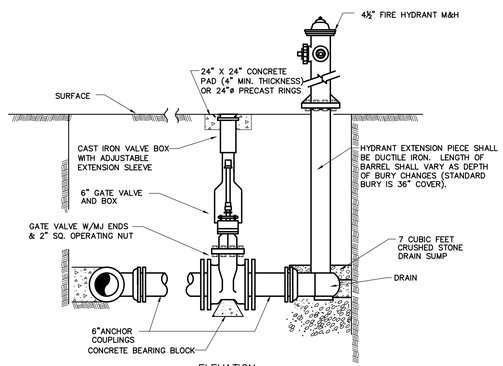
Note: Restrain one joint beyond the minimum length shown in the table for all lengths over 10 feet from the fitting.

COMMENTS AND ASSUMPTIONS:
The tabulated values shown were generated using the EBAA Iron, Inc. Computer Program.
Soil Type: Worst Case
MH Granular - For Elbows
ML - For Reducers, Tees, Valves, and Dead-Ends.
Trench Type: 3 (Pipe bedded in 4-inch minimum loose soil. Backfill lightly consolidated to top of pipe).
Depth of Cover to Top of Pipe: 3 feet.
Safety Factor: 1.5.

The values shown for the Reducers were based on a reduction from the nominal pipe size to a pipe one-size smaller.



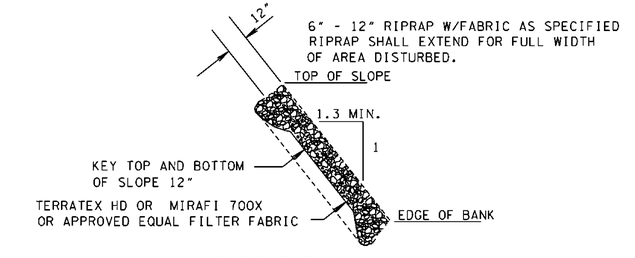
PLAN



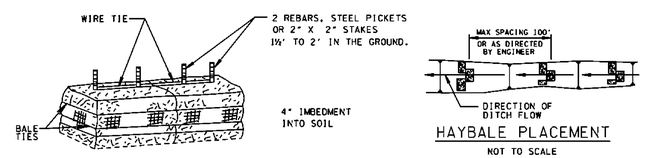
ELEVATION

NOTE:
BLOCK MAY BE POURED UNDER THE BEND WITH THE BEND STRAPPED TO ANCHOR IF MORE PRACTIBLE.

FIRE HYDRANT ASSEMBLY OR FLUSHING HYDRANT
NOT TO SCALE

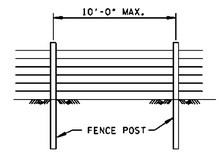


RIPRAP DETAIL
N.T.S.

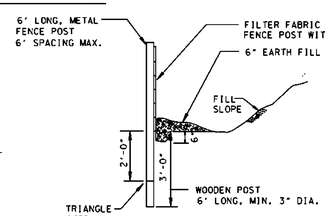


HAYBALE PLACEMENT
NOT TO SCALE

EROSION CONTROL HAYBALES



FRONT ELEVATION



SIDE ELEVATION

TYPICAL SILT FENCE
NOT TO SCALE

EROSION CONTROL DETAILS
NOT TO SCALE

SEALED BY



COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

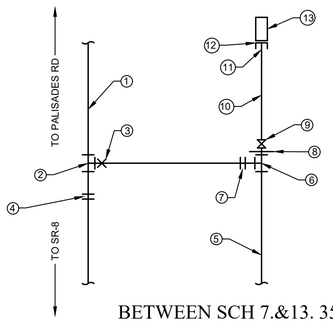
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETAILS

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 DETAILS (RAINBOW) (900277x5/7/23/26 5:29PM), LAYOUT: U3-24

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-24
CONST.		33021-3231-14	
PIN		124080.00	



BETWEEN SCH 7.&13. 35SY

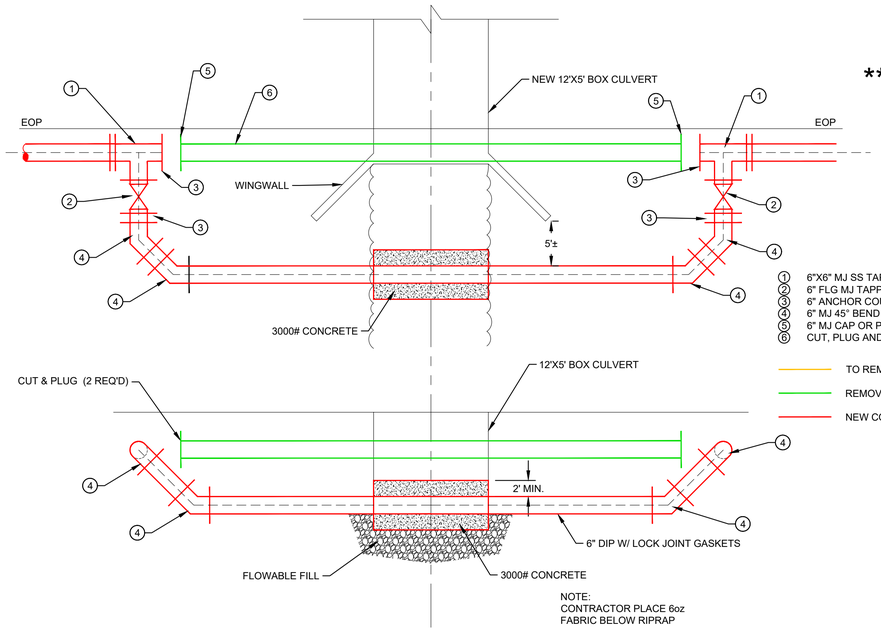
GEOTEXTILE TYPE IV & RIPRAP FILL ARE INCIDENTAL TO FOOTNOTED ITEMS

SCHEDULE

1. EXISTING 2-INCH STEEL
2. 2-INCH TAPPING SADDLE & 2-INCH TAPPING VALVE
3. 2-INCH PIPE PACK JOINT COUPLING
4. CUT AND PLUG 2-INCH
5. 6-INCH DIP
6. 6-INCH TAPPED TEE W/2-INCH TAP
7. 2-INCH THD GATE VALVE
8. 6-INCH ANCHOR COUPLING
9. 6-INCH MJ GATE VALVE
10. ONE JOINT OF PIPE
11. JOINT RESTRAINT
12. 6-INCH MJ PLUG
13. 2 FT X 2 FT X 4 FT PRECAST CONCRETE ANCHOR

CONNECTION TO 2-INCH WATER

N.T.S.



BRANCH CROSSING - PALISADES DRIVE

ITEM 795-13.05
PALISSADES RD STA 23+60±
N.T.S.

TO BE USED ON HOT MIX PAVED DRIVEWAYS AND PARKING AREAS AND ELSEWHERE AS DESIGNATED BY THE ENGINEER.

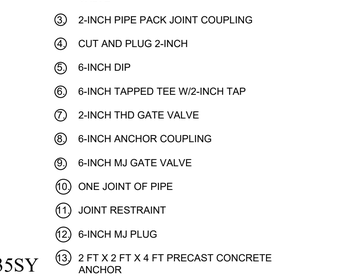
PAVEMENT REPLACEMENT DETAIL (ASPHALT DRIVEWAYS AND PARKING AREAS)

NOT TO SCALE

TO BE USED ON HOT MIX PAVED CITY ROADS AND ELSEWHERE AS DESIGNATED BY THE ENGINEER.

PAVEMENT REPLACEMENT DETAIL (CITY & COUNTY ROADS)

NOT TO SCALE



PLAN

NOTE: THE FOLLOWING JOINTS MUST BE RESTRAINED IN ALL APPLICATIONS:

BENDS	CAPS
TEES	PLUGS
WYES	HYDRANTS
OFFSETS	REDUCERS

ANGLE OF DIRECTION CHANGE

** MECHANICAL JOINTS SHALL BE RESTRAINED WITH EBAA MEG-A-LUG SERIES 1100, UNI-FLANGE SERIES 1400, OR APPROVED EQUAL. PUSH-ON JOINTS SHALL BE RESTRAINED WITH EBBA MEG-A-LUG SERIES 1700, U.S. PIPE FIELD LOK 350 GASKET (WITH U.S. PIPE TYTON PIPE OR FITTINGS), AMERICAN DUCTILE IRON PIPE'S FAST GRIP GASKET (WITH STANDARD AMERICAN DUCTILE IRON FASTITE PIPE), OR APPROVED EQUAL.

RESTRAINED JOINT DETAIL

N.T.S.

1. 6"X6" MJ SS TAPPING SLEEVE (2 REQ'D)
2. 6" FLG MJ TAPPING VALVE (2 REQ'D)
3. 6" ANCHOR COUPLING OR FOSTER ADAPTER (4 REQ'D)
4. 6" MJ 45° BEND (4 REQ'D)
5. 6" MJ CAP OR PLUG (2 REQ'D)
6. CUT, PLUG AND ABANDON AND REMOVE

TO REMAIN IN PLACE
REMOVE OR ABANDON
NEW CONSTRUCTION

COMBINED VERTICAL OBJECT (UNDER OBJECT)

N.T.S.

NOTES:

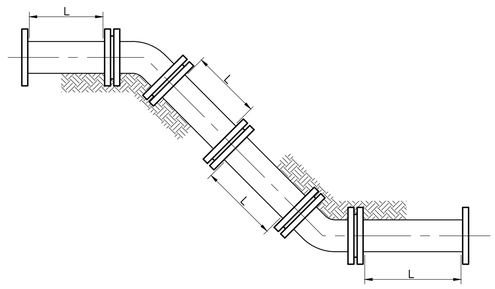
1. IF POLYETHYLENE-WRAPPED DUCTILE IRON PIPE IS INSTALLED, MULTIPLY THE RESTRAINED LENGTHS SHOWN IN THE TABLES BY:
   1.21 FOR HORIZONTAL AND VERTICAL UP (ENCROACHING AND NON-ENCROACHING) BENDS.
   1.43 FOR VERTICAL DOWN (ENCROACHING AND NON-ENCROACHING) BENDS, REDUCERS, TEES, VALVES, AND DEAD-ENDS.
2. THE RESTRAINED LENGTHS SHOWN FOR REDUCERS ARE BASED ON A REDUCTION OF ONE SIZE DOWN (I.E. 8 TO 6, 4 TO 3, ETC.). IF A REDUCTION GREATER THAN ONE SIZE DOWN IS NECESSARY, SEE THE ENGINEER FOR THE REQUIRED RESTRAINED LENGTH.
3. THE RESTRAINED LENGTHS SHOWN IN THE TABLE ARE BASED ON RESULTS FROM THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) THRUST RESTRAINT PROGRAM, ASSUMING A WORST CASE SOIL CONDITION FOR EACH BEDDING CONDITION AND DESIGN PRESSURE.

PAVING NOTES

1. COST OF SAW CUTTING, COMPACTING, MINERAL AGGREGATE, HOT MIX, ETC. TO BE INCLUDED IN THE UNIT PRICE FOR ASPHALT OR OTHER PAVEMENT REPLACEMENT IN THE BID SCHEDULE.
2. IT IS THE INTENTION OF THE OWNER TO INSTALL ALL LINES OUT OF PAVEMENT IF POSSIBLE, IN ROAD SHOULDERS OR DITCHES; IF LINE IS INSTALLED UNDER PAVEMENT FOR CONVENIENCE OF CONTRACTOR, NO SEPARATE PAYMENT WILL BE MADE FOR EXTRA PAVEMENT AND CRUSHED ROCK BACKFILL REQUIRED.
3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ROAD CUT PERMITS PRIOR TO CUTTING ROADWAY PAVEMENTS.

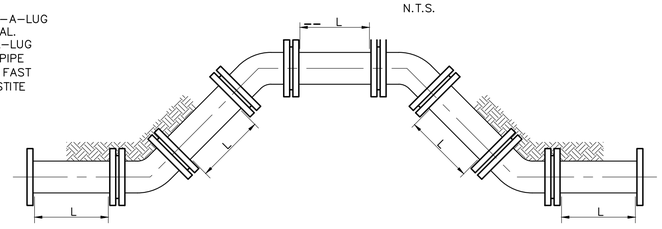
VERTICAL DOWN (NON-ENCROACHING)

N.T.S.



VERTICAL UP (NON-ENCROACHING)

N.T.S.

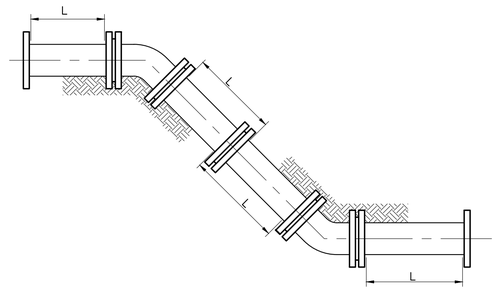


COMBINED VERTICAL OBJECT (OVER OBJECT)

N.T.S.

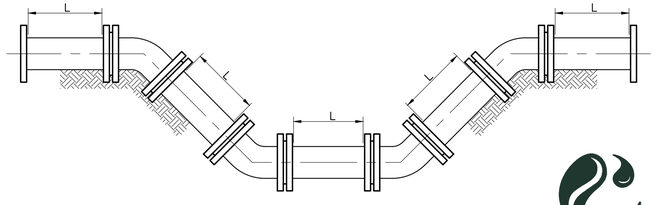
VERTICAL DOWN (ENCROACHING)

N.T.S.



VERTICAL UP (ENCROACHING)

N.T.S.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETAILS

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

DATE OF PRINT: 7/24/2026 3:14 PM

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-1
CONST.		33021-3231-14	
PIN		124080.00	

DRAWING INDEX

TITLE	DRAWING NO.
INDEX OF SHEETS & ESTIMATED QUANTITIES	U3-1
GENERAL NOTES	U3-2
PRESENT LAYOUT (STA 747+50 TO STA 760+50)	U3-3
PROPOSED LAYOUT (STA 747+50 TO STA 760+50)	U3-4
PROPOSED WATERLINE RELOCATION PROFILE (STA 756+00 TO STA 756+50)	U3-5
PRESENT LAYOUT (STA 789+50 TO STA 799+50)	U3-6
PROPOSED LAYOUT (STA 789+50 TO STA 799+50)	U3-7
PRESENT LAYOUT (STA 799+50 TO STA 812+50)	U3-8
PRESENT LAYOUT (STA 812+50 TO STA 825+50)	U3-9
PROPOSED LAYOUT (STA 812+50 TO STA 825+50)	U3-10
PROPOSED PROFILE (STA 812+50 TO STA 825+50)	U3-11
PROPOSED WATERLINE RELOCATION PROFILE (STA 812+50 TO STA 824+80)	U3-12 THRU U3-21
WATER DETAILS	U3-22
WATER DETAILS	U3-23
WATER DETAILS	U3-24

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	NOTES
	795-01.03	6 IN DIP RESTRAINED JOINT WATER LINE	LF	200	
	795-01.04	6 IN DIP SLIP JOINT WATER LINE	LF	1,400	
	795-05.77	BORE/JACK 12IN STEEL CASING PIPE-ROCK	LF	60	
	795-06.01	CONNECT TO 2 IN WATERLINE	EA	1	
	795-06.04	CONNECT TO 6 IN WATERLINE	EA	1	AT END OF NEW LINE
	795-06.31	CUT AND CAP 2 IN WATER LINE	EA	1	
	795-07.03	6IN X 6IN TAPPING SLEEVE AND VALVE	EA	3	
(1)	795-07.35	2IN X 2IN TAPPING SADDLE AND VALVE	EA	1	
(1)	795-08.04	6 IN GATE VALVE ASSEMBLY	EA	3	
	795-09.28	3/4IN COPPER SERVICE PIPE	LF	50	
	795-09.51	RECONNECT SERVICE ASSEMBLY	EA	5	
	795-10.12	1/2IN AUTO AIR RELEASE VALVE ASSEMBLY	EA	3	
	795-10.32	METER BOX FOR AUTO AIR RELEASE VALVE	EA	3	
	795-11.02	FIRE HYDRANT ASSEMBLY	EA	1	
(2)	795-12.02	REMOVAL OF EXISTING LINE	LS	1	ON PALISADES
	795-13.01	DI FITTINGS	LB	2,000	
	795-13.05	CREEK CROSSING (PALISADES DR)	LS	1	
	795-14.02	CLASS B CONCRETE	CY	10	Sunset Dr. & Mushroom W.
	795-14.08	RESTORE ASPHALT	SY	30	
	795-14.10	RESTORE GRAVEL	SY	60	
	795-14.12	PIPE CHECK DAM	CY	2	
	795-16.16	RELOCATE/RECONNECT 3/4IN WATER METER ASSEMBLY	EA	5	

ON SR-8 AT STA 756±25 AND>

FOOTNOTES

1 **GEOTEXTILE (TYPE** IV) STABILIZATION **(QTY SY 35)** SHOWN ON **SHEET U3-24; "CONNECTION TO 2-INCH WATER" DETAIL IS INCIDENTAL** TO **PAY ITEM**

2 RIPRAP FILL ON SHEET U3-5: INCLUDED IN THE LS OF REMOVAL OF THE EXISTING 8 IN **DEAD** LINE

CTI PROJECT NO. C22007

SEALED BY

ELBERT R. KEY
REGISTERED ENGINEER
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION

GENERAL NOTES

MATT JUSTICE, CITY MANAGER
TOWN OF SIGNAL MOUNTAIN WATER UTILITY
1111 RIDGEWAY AVE SIGNAL MOUNTAIN,
TENNESSEE 37377

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 TITLE (900270vr7/7/28/26 5:44PM), LAYOUT: U3-2

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-2
CONST.		33021-3231-14	
PIN		124080.00	

1. ALL MATERIALS, METHODS, AND/OR INTEGRAL MATERIALS OUTLINED IN THE UTILITY SPECIFICATIONS OR DRAWINGS NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION MUST BE INCLUDED IN THE UNIT PRICE FOR THE ASSOCIATED WORK ITEM.
2. THE CONTRACTOR MUST MAINTAIN ALL SERVICES DURING THE CONSTRUCTION OF THE RELOCATED FACILITY. ANY COSTS ASSOCIATED WITH THE INSTALLATION OF REQUIRED TEMPORARY SERVICE LINES DUE TO THE ROADWAY CONSTRUCTION SEQUENCE OF WORK (I.E. CUTS, FILLS, PHASING, ETC.) SHALL BE INCLUDED IN THE COST OF THE PERMANENT UTILITY ITEMS.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LAY OUT ALL THE FACILITIES BEING RELOCATED WITHIN THE CONTRACT WITH REGARDS TO HORIZONTAL AND VERTICAL LOCATION.
4. FOR BURIED UTILITIES, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE THE UTILITY UPON COMPLETION OF THE RELOCATION WORK A SET OF AS-BUILT DRAWINGS FOR THEIR RECORDS. THESE AS-BUILT DRAWINGS SHOULD BE PREPARED AS THE INSTALLATION PROGRESSES TO ENSURE THEIR ACCURACY.
5. DRIVEWAY, SIDEWALK, AND ROADWAY TEMPORARY RESTORATION SHALL BE PART OF THE IN-PLACE COST OF PLACING THE UTILITY ITEM WITHIN THE ROW.
6. ANY EXCAVATION OF THE STREAM CHANNEL AREA SHALL BE SEPARATED FROM FLOWING WATER AND ACCOMPLISHED DURING LOW FLOW CONDITIONS. THIS SHALL BE ACCOMPLISHED BY THE USE OF FLUMES, LINED DIVERSION CHANNEL WITH SANDBAG BERM, DIVERSION PIPE WITH SANDBAG DAM AT PIPE INLET, OR IN SOME CASES COFFER DAMS. ALTERNATIVELY, BASED UPON FIELD CONDITIONS AND CONTRACTOR SELECTION, THE UTILITY RELOCATION MAY BE ACCOMPLISHED USING HORIZONTAL BORING TECHNOLOGY WITH NO STREAM CHANNEL IMPACTS.
7. ALL WATER LINES SHALL BE INSTALLED WITH A MINIMUM COVER OF 36 INCHES, UNLESS CALLED OUT OTHERWISE.
8. ALL WATER LINES SHALL BE INSTALLED 5 - 6 FT INSIDE ROW, UNLESS SHOWN DIFFERENTLY
9. CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. COORDINATES SHOWN FOR CONNECTIONS TO EXISTING WATER LINES ARE APPROXIMATE.
10. CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING ROAD CROSSINGS AND NOTIFY ENGINEER OF ANY CONFLICTS.
11. CONTRACTOR TO COORDINATE LOCATION OF "SERVICE CONNECTIONS" WITH THE TOWN OF SIGNAL MOUNTAIN AS WELL AS ANY AND ALL CUTS & CAPS ON EXISTING SERVICE LINES.

WATER LINES
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INSTALLATION OF PIPE INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, MATERIALS, EQUIPMENT, EXCAVATION (IN BOTH UNCONSOLIDATED AND ROCK), REMOVAL AND REPLACEMENT OF UNSUITABLE SOIL, ENVELOPE/BEDDING MATERIAL, BACKFILLING, FLOWABLE FILL, THRUST BLOCKING, CONCRETE DEADMAN, PIPE FUSION, TRACER WIRE, WARNING TAPE, APPURTENANCES, TEMPORARY/PERMANENT SHORING, MAINTAINING THE TRENCH, TESTING, FLUSHING, DISINFECTION, BACTERIOLOGICAL SAMPLING, TEMPORARY/PERMANENT SURFACE RESTORATION, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS.

CONNECTION TO EXISTING WATER LINE
INCLUDES ALL MATERIALS (INCLUDING TAPPING SLEEVE AND SADDLES), LABOR, AND EQUIPMENT NECESSARY FOR CONNECTING TO AN EXISTING WATER LINE INCLUDING TRAFFIC CONTROL.

TAPPING SLEEVES AND VALVES
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT INCLUDING BUT NOT LIMITED TO TAPPING SLEEVE, VALVE, VALVE BOX, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING,BACKFILL, BLOCKING AND RESTRAINT, TAP OF EXISTING LINE, AND TRAFFIC CONTROL.

WATER VALVES
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT INCLUDING BUT NOT LIMITED TO MACHINERY, TOOLS APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBLIES AS DESCRIBED IN THE PLANS AND SPECS. EXCEPT FOR SERVICE LINE WHICH IS PAID SEPARATELY FOR EACH FOOT INSTALLED.

WATER SERVICE VALVES
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION OF SERVICE LINE OR CASING FOR SERVICE LINE ON LONG SIDE AND SHORT SIDE OF MAIN.

LUMP SUM ITEMS
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION OF UNIT OR LUMP SUM ITEMS AS SPECIFIED ON BID FORM.

REMOVAL
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR REMOVAL OF ITEM

CASING PIPE - BORE AND JACK INSTALLATION
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CASING PIPE, PIPE SPACES, CASING END SEALS, FITTINGS, TRACER WIRE, WARNING TAPE, UTILITY LINE MARKERS, AND TRAFFIC CONTROL. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.

CASING PIPE - OPEN CUT INSTALLATION
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CASING PIPE, PIPE SPACERS, CASING END SEALS, FITTINGS, TRACER WIRE, WARNING TAPE, UTILITY LINE MARKERS, AND TRAFFIC CONTROL. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.

WATER METER ASSEMBLY - SEE DETAIL
SEE "SERVICE CONNECTION DETAIL" ON SHEET U3-17. TRAFFIC RATE METER BOXES SHALL BE INSTALLED AS NOTED.

CTI PROJECT NO. C22007

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION

GENERAL NOTES

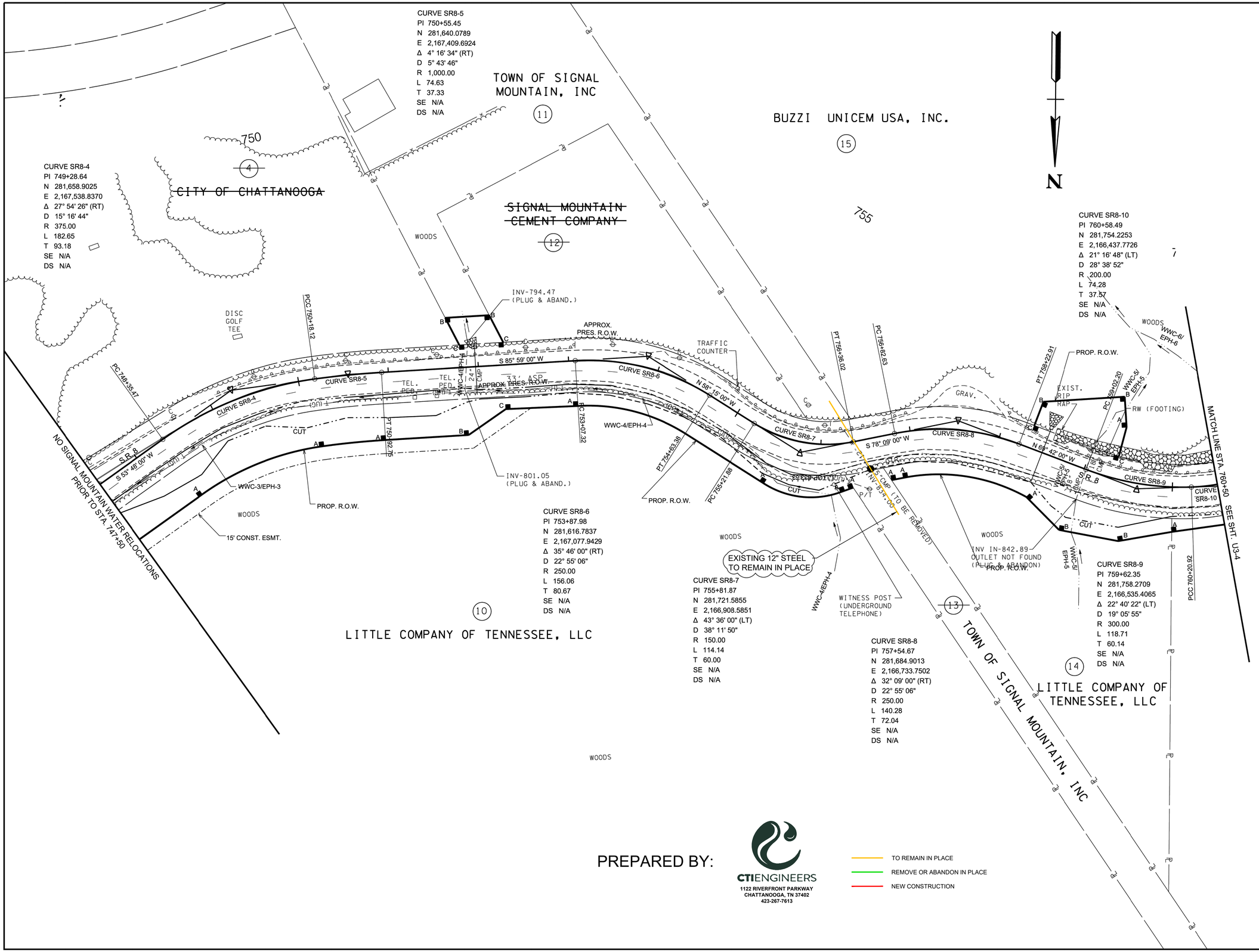
CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

DATE OF PRINT: 7/28/2026 6:18 PM

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-3
CONST.		33021-3231-14	
PIN		124080.00	

REV. 3-19-24: REVISED PROPERTY OWNER NAME FOR TRACT 15.

REV. 8-15-25: REMOVED PROP. ROW FROM TRACT 13. LINED THRU TRACT 13.



PREPARED BY:

CTI ENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

TO REMAIN IN PLACE
REMOVE OR ABANDON IN PLACE
NEW CONSTRUCTION

CTI PROJECT NO. C2207

SEALED BY

ELBERT R. KEY
REGISTERED ENGINEER
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION (PRESENT LAYOUT)

STA.747+50 TO STA.760+50
SCALE: 1"=50'

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322v5/7/28/26 6:19PM), LAYOUT: U3-3

DATE OF PRINT: 7/28/2026 6:19 PM
11/2/2025 10:40:21 PM
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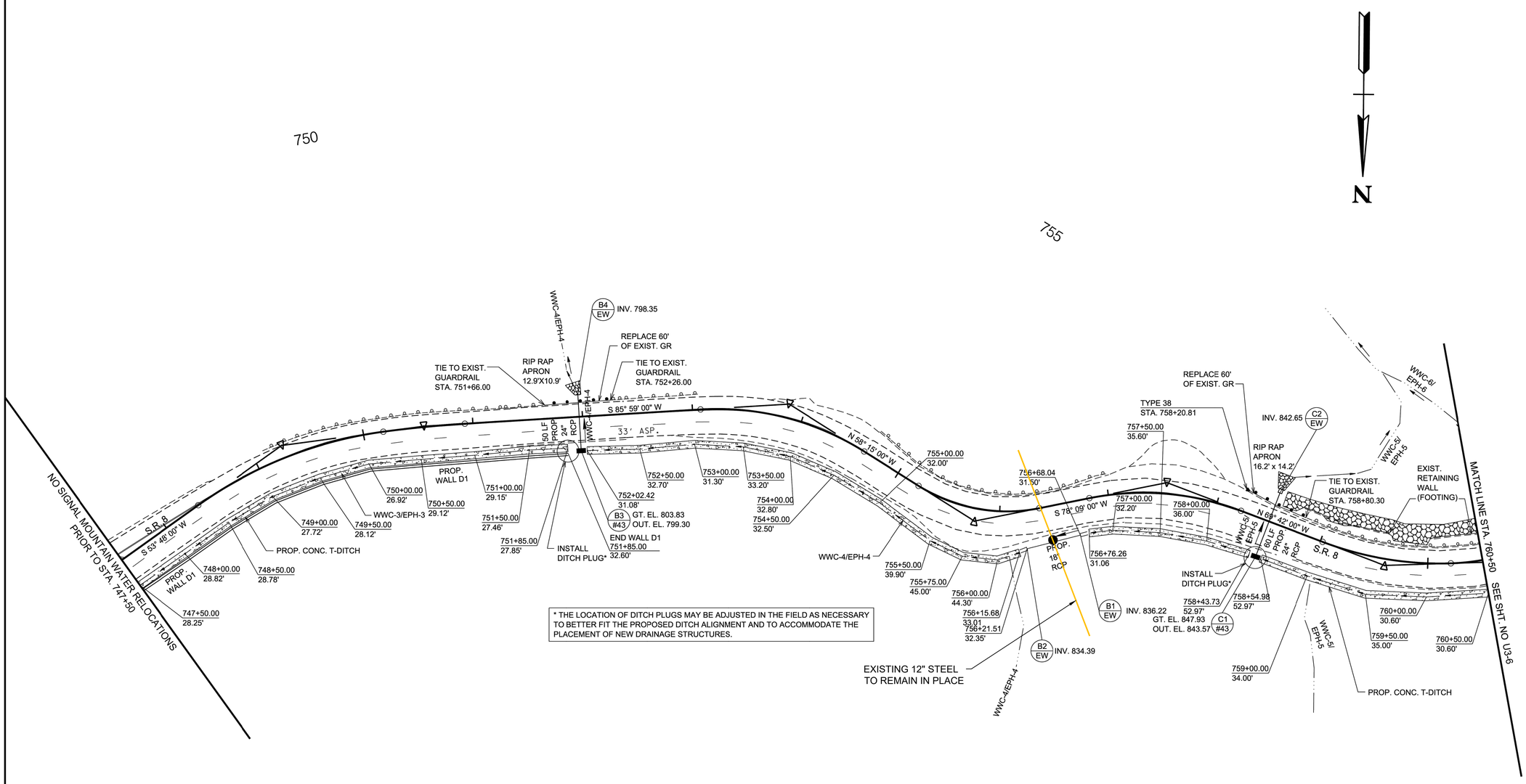
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-4
CONST.		33021-3231-14	
PIN		124080.00	

REV. 8-15-25: EXTENDED PROPOSED 18" RCP PIPE (B1 TO B2).



* THE LOCATION OF DITCH PLUGS MAY BE ADJUSTED IN THE FIELD AS NECESSARY TO BETTER FIT THE PROPOSED DITCH ALIGNMENT AND TO ACCOMMODATE THE PLACEMENT OF NEW DRAINAGE STRUCTURES.

1. REGRADE DITCH LINE AND COVER EXISTING 12" WATER
2. WORK WITH CAUTION AROUND EXISTING 12" WATERLINE. IT IS OLD AND OPERATES UNDER APPROXIMATELY 700PSI. IT IS THE SOLE WATER SOURCE FOR THE TOWN OF SIGNAL MOUNTAIN.
3. REMOVE EXPOSED 8" STEEL WATER LINE THAT IS ABANDONED.
4. RIPRAP TO BACKFILL DITCH PROTECTING 12" WATER LINE.

TO REMAIN IN PLACE
REMOVE OR ABANDON
NEW CONSTRUCTION

PREPARED BY:

CTI ENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

CTI PROJECT NO. C2207

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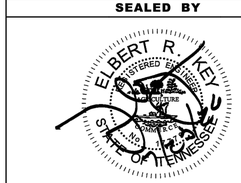

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION (PROPOSED)

STA.747+50 TO STA.760+50
SCALE: 1"=50'

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322v5/7/28/26 6:19PM), LAYOUT: U3-4

DATE OF PRINT: 7/28/2026 6:20 PM
11/2/2025 10:40:36 PM
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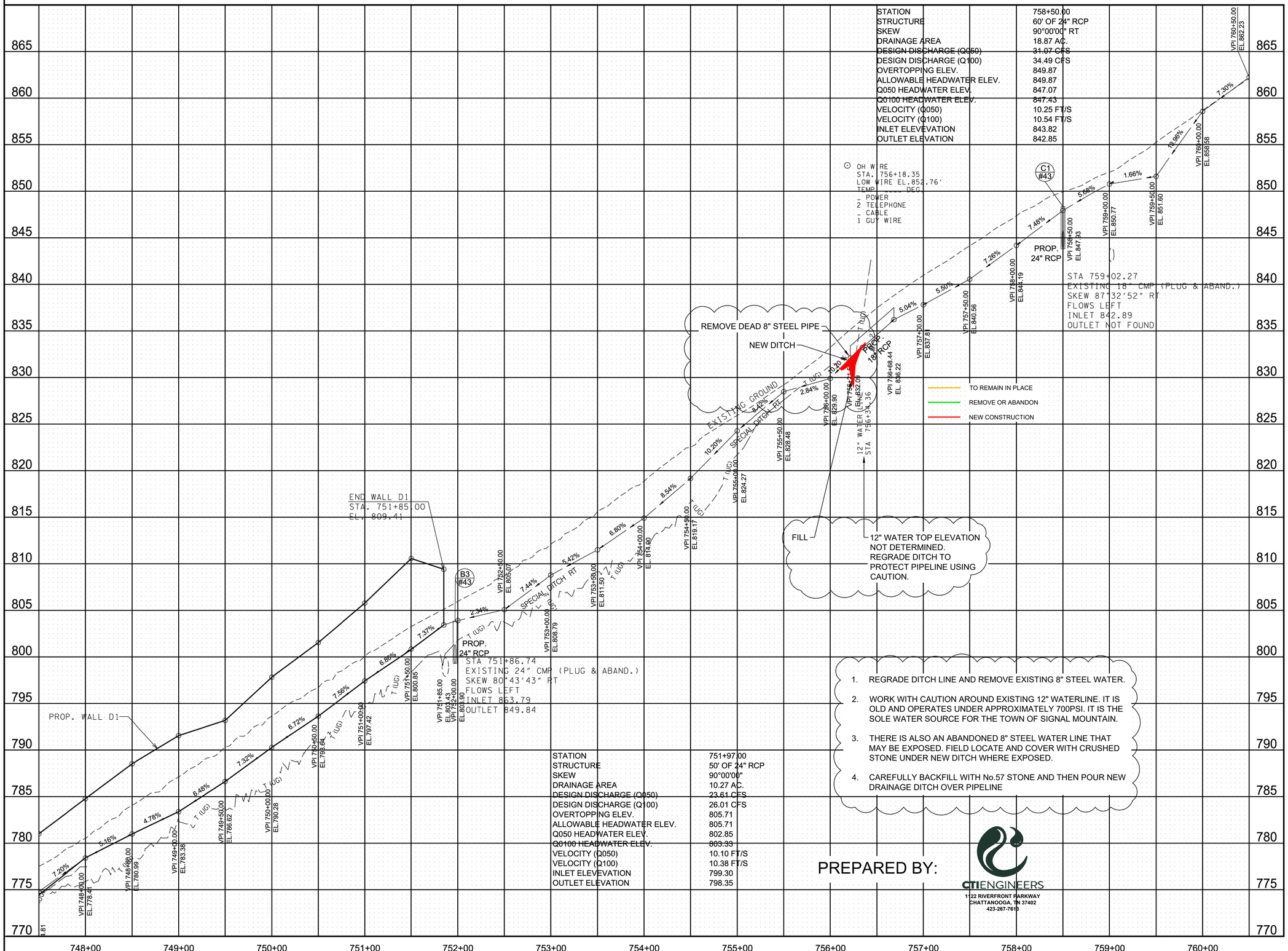
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-5
CONST.		33021-3231-14	
PIN		124080.00	



STATION	758+50.00
STRUCTURE	60' OF 24" RCP
SKEW	90°00'00" RT
DRAINAGE AREA	18.87 AC.
DESIGN DISCHARGE (Q050)	31.07 CFS
DESIGN DISCHARGE (Q100)	34.49 CFS
OVERTOPPING ELEV.	849.87
ALLOWABLE HEADWATER ELEV.	849.87
Q050 HEADWATER ELEV.	847.07
Q0100 HEADWATER ELEV.	847.43
VELOCITY (Q050)	10.25 FT/S
VELOCITY (Q100)	10.54 FT/S
INLET ELEVEVATION	843.82
OUTLET ELEVATION	842.85

STATION	751+97.00
STRUCTURE	50' OF 24" RCP
SKEW	90°00'00"
DRAINAGE AREA	10.27 AC.
DESIGN DISCHARGE (Q050)	23.61 CFS
DESIGN DISCHARGE (Q100)	26.01 CFS
OVERTOPPING ELEV.	805.71
ALLOWABLE HEADWATER ELEV.	805.71
Q050 HEADWATER ELEV.	802.85
Q0100 HEADWATER ELEV.	803.33
VELOCITY (Q050)	10.10 FT/S
VELOCITY (Q100)	10.38 FT/S
INLET ELEVEVATION	799.30
OUTLET ELEVATION	798.35

1. REGRADE DITCH LINE AND REMOVE EXISTING 8" STEEL WATER.
2. WORK WITH CAUTION AROUND EXISTING 12" WATERLINE. IT IS OLD AND OPERATES UNDER APPROXIMATELY 700PSI. IT IS THE SOLE WATER SOURCE FOR THE TOWN OF SIGNAL MOUNTAIN.
3. THERE IS ALSO AN ABANDONED 8" STEEL WATER LINE THAT MAY BE EXPOSED. FIELD LOCATE AND COVER WITH CRUSHED STONE UNDER NEW DITCH WHERE EXPOSED.
4. CAREFULLY BACKFILL WITH No.57 STONE AND THEN POUR NEW DRAINAGE DITCH OVER PIPELINE

PREPARED BY:

CTI ENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

CTI PROJECT NO. C2207

SEALED BY

ELBERT R. KEY
REGISTERED ENGINEER
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATERLINE RELOCATION PROFILE

STA 756+00 TO STA 756+50

SCALE: 1"=50' HORIZ.
1"=5' VERT.

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322v5/7/28/26 6:19PM), LAYOUT: U3-5
DATE OF PRINT: 7/28/2026 6:20 PM
11/2/2025 10:40:44 PM
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CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322\57\28\26 6:19PM), LAYOUT: U3-6

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-6
CONST.		33021-3231-14	
PIN		124080.00	

REV. 12-10-21: ADDED CONSTRUC
EASEMENT AND R.O.W. ACQUISITIC
TRACT 16 AT STA. 792+00.

REV. 3-8-22: ADDED CONSTRUCTIC
EASEMENT TO TRACTS 18 & 19.

REV. 3-19-24: REVISED PROPERTY
OWNER NAMES FOR TRACTS 15 & '

REV. 11-22-24: REVISED STREAM 3
LEADER BY REMOVING EPH-3A.

CURVE SR8-23
PI 788+93.66
N 281,352.5514
E 2,163,885.4112
Δ 18° 23' 29" (RT)
D 10° 54' 49"
R 525.00
L 168.52
T 84.99
SE N/A
DS N/A

CURVE SR8-24
PI 789+99.92
N 281,371.8585
E 2,163,779.4326
Δ 8° 39' 58" (RT)
D 19° 05' 55"
R 300.00
L 45.38
T 22.73
SE N/A
DS N/A

CURVE SR8-25
PI 790+88.26
N 281,400.6321
E 2,163,695.8253
Δ 18° 25' 32" (RT)
D 14° 08' 50"
R 405.00
L 130.24
T 65.69
SE N/A
DS N/A

CURVE SR8-26
PI 795+04.18
N 281,654.0373
E 2,163,364.5848
Δ 27° 33' 00" (RT)
D 18° 11' 21"
R 315.00
L 151.46
T 77.23
SE N/A
DS N/A

CURVE SR8-27
PI 797+17.30
N 281,849.8435
E 2,163,273.1402
Δ 3° 39' 00" (RT)
D 2° 17' 31"
R 2,500.00
L 159.26
T 79.66
SE N/A
DS N/A

CURVE SR8-28
PI 800+77.57
N 282,185.3669
E 2,163,141.7626
Δ 157° 27' 00" (RT)
D 105° 07' 48"
R 54.50
L 149.77
T 273.37
SE N/A
DS N/A

790

795

17

~~STEVEN L. COULTER &~~
~~BEVERLY H. COULTER~~

BUZZI UNICEM USA, INC.

15

16

BUZZI UNICEM USA, INC.

18

19

INV-1037.12'

EXIST. 24"RCP (TO REMAIN)

INV-1052.05'

INV-1074.

BOULDER

LAWN

ASPH

INV-1077.44'

EXISTING 2" WATER TO REMAIN IN PLACE

COVERED CONC. PAD

ASP.

POST

RW

N 52° 35' 00" W

CURVE SR8-25

CURVE SR8-24

CURVE SR8-23

CURVE SR8-26

PT 795+78.41

PC 796+37.64

N 25° 02' 00" W

BEGIN STR-3/EPH-3A

CUT

STR-3/EPH-3A

BEGIN STR-3 IMPACT
790+23.86
27.51

PC 790+22.57

PC 789+77.19

PT 791+52.81

PROP. R.O.W.

15' CONST. ESMT.

PC 794+26.95

CURVE SR8-27

PT 797+96.90

PC 798+04.20

N 21° 39' 00" W

S.R. 8

STR-4

END
STR-4 IMPACT
798+73.32
51.68

WOODS

APPROX. PRES. R.O.W.

S 81° 56' 00" W

CUT

PC 788+08.67

PROP. R.O.W.

APPROX. PRES. R.O.W.

E 216+000

15' CONST. ESMT.

NO SIGNAL MOUNTAIN WATER RELOCATIONS BETWEEN STA. 760+50 AND STA. 786+50

MATCH LINE STA. 799+50
SEE SHT. NO. 9B

CURVE SR8-28

15' CONST. ESMT.

SHOTCRETE CHANNEL REPAIRS

BEGIN STR-4 IMPACT
798+96.73
50.92

STR-4

MATCHLINE STA. 799+50 SEE SHT. NO U3-8

PALISADES RD.

S 55° 50' 36" E

PALISADES RD.

TO REMAIN IN PLACE

REMOVE OR ABANDON

NEW CONSTRUCTION

CTI PROJECT NO. C2207

SEALED BY

ELBERT R. KEY
REGISTERED ENGINEER
STATE OF TENNESSEE

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

LEGEND

HISTORIC PROPERTY
(NATIONAL REGISTER BOUNDARY)

NOTE:
NO TEMPORARY OR PERMANENT RIGHT-OF-WAY OR EASEMENTS WILL BE TAKEN FROM THE HISTORIC PROPERTY.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

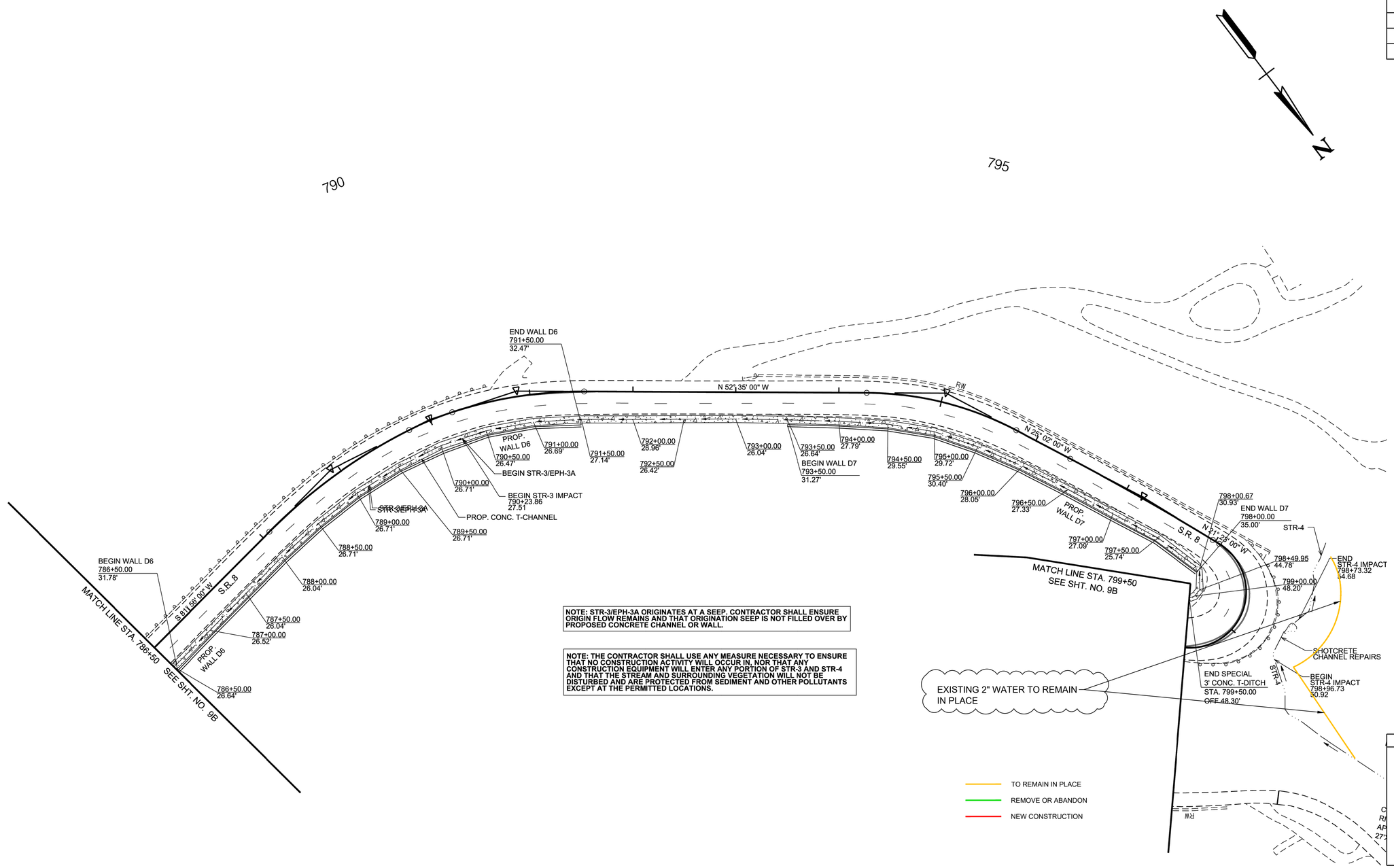
WATER RELOCATION (PRESENT LAYOUT)

STA.786+50 TO STA.799+50
SCALE: 1"=50'

DATE OF PRINT: 7/28/2026 6:20 PM
11/2/2025 10:41:57 PM
c:\pw_workarcadispw01\fritz.brogdon\dms34141\008.sht

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322x57/28/26 6:19PM), LAYOUT: U3-7

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-7
CONST.		33021-3231-14	
PIN		124080.00	



NOTE: STR-3/EPH-3A ORIGINATES AT A SEEP. CONTRACTOR SHALL ENSURE ORIGIN FLOW REMAINS AND THAT ORIGINATION SEEP IS NOT FILLED OVER BY PROPOSED CONCRETE CHANNEL OR WALL.

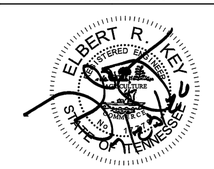
NOTE: THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF STR-3 AND STR-4 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

CTI PROJECT NO. C2207

SEALED BY



COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION (PROPOSED)

STA.786+50 TO STA.799+50
SCALE: 1"=50'

DATE OF PRINT: 7/28/2026 6:20 PM
11/2/2025 10:42:12 PM
c:\pw_work\arcadispw01\fritz.brogdon\dms34141\008B.sht

Point	North	East	Elevation	Station	Offset
S21	282051.7631	2163663.8483	1190.83	810+42.43	16.66 RT
S22	281851.1385	2163975.6604	1165.16	806+58.69	24.69 RT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-8
CONST.		33021-3231-14	
PIN		124080.00	

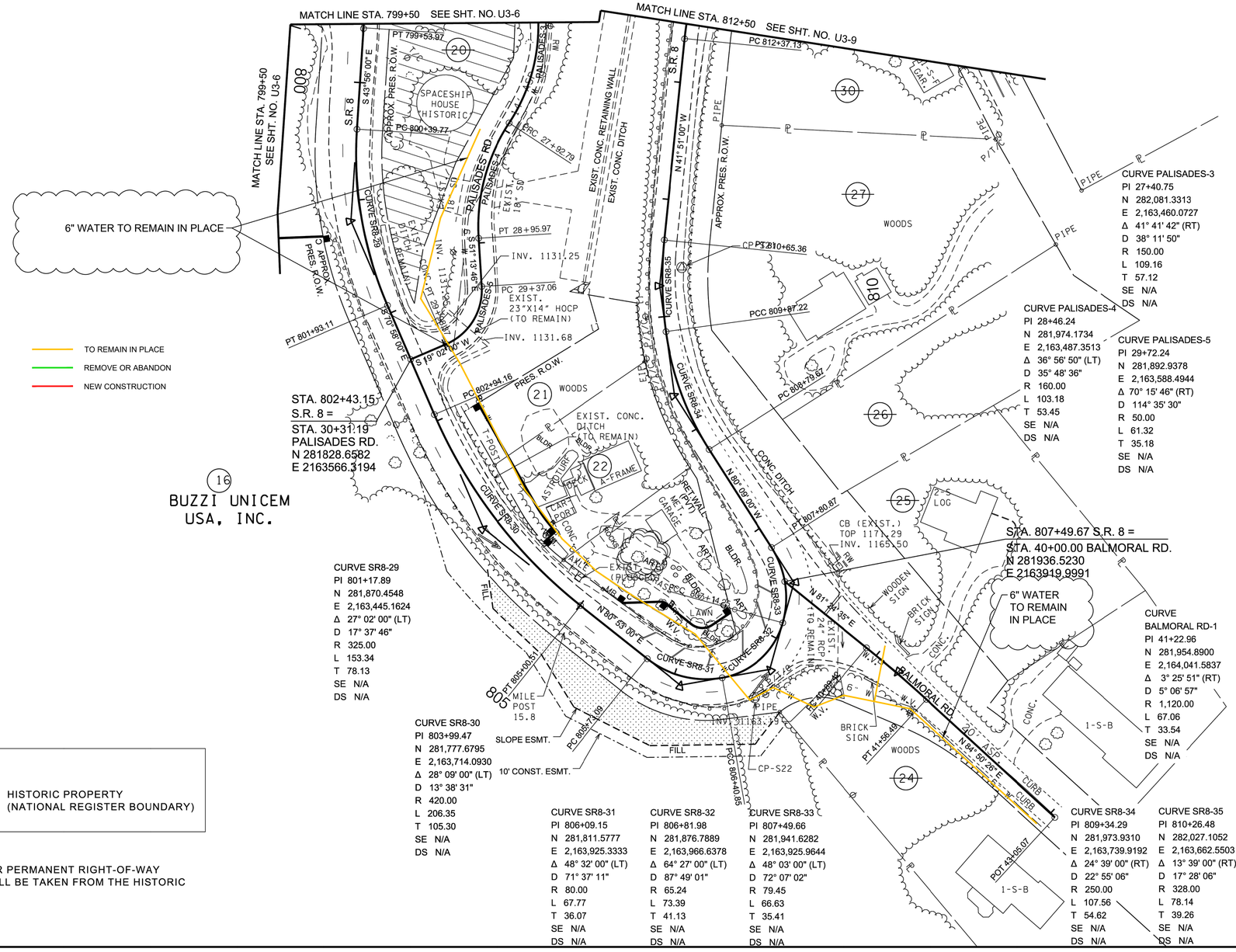
REV. 3-8-22: UPDATED PALISADES ROAD ALIGNMENT, CALLOUTS AND CURVE TABLES.

REV. 9-21-23: UPDATED SURVEY WITH GRASS DRIVEWAY AND LANDSCAPING FEATURES.

REV. 3-19-24: REVISED PROPERTY OWNER NAME FOR TRACT 16.

REV. 11-22-24: ADD PROP. ROW TO TRACT 21 & 22. REVISED PROP. ROW FOR TRACT 23. COMBINED TRACTS 22 AND 23. ELIMINATED TRACT 23.

REV. 1-21-25: ADDED ADDITIONAL SURVEY FEATURES TO TRACT 22.



CURVE SR8-29
PI 801+17.89
N 281,870.4548
E 2,163,445.1624
Δ 27° 02' 00" (LT)
D 17° 37' 46"
R 325.00
L 153.34
T 78.13
SE N/A
DS N/A

CURVE SR8-30
PI 803+99.47
N 281,777.6795
E 2,163,714.0930
Δ 28° 09' 00" (LT)
D 13° 38' 31"
R 420.00
L 206.35
T 105.30
SE N/A
DS N/A

CURVE SR8-31
PI 806+09.15
N 281,811.5777
E 2,163,925.3333
Δ 48° 32' 00" (LT)
D 71° 37' 11"
R 80.00
L 67.77
T 36.07
SE N/A
DS N/A

CURVE SR8-32
PI 806+81.98
N 281,876.7889
E 2,163,966.6378
Δ 64° 27' 00" (LT)
D 87° 49' 01"
R 65.24
L 73.39
T 41.13
SE N/A
DS N/A

CURVE SR8-33
PI 807+49.66
N 281,941.6282
E 2,163,925.9644
Δ 48° 03' 00" (LT)
D 72° 07' 02"
R 79.45
L 66.63
T 35.41
SE N/A
DS N/A

CURVE SR8-34
PI 809+34.29
N 281,973.9310
E 2,163,739.9192
Δ 24° 39' 00" (RT)
D 22° 55' 06"
R 250.00
L 107.56
T 54.62
SE N/A
DS N/A

CURVE SR8-35
PI 810+26.48
N 282,027.1052
E 2,163,662.5503
Δ 13° 39' 00" (RT)
D 17° 28' 06"
R 328.00
L 78.14
T 39.26
SE N/A
DS N/A

CURVE PALISADES-3
PI 27+40.75
N 282,081.3313
E 2,163,460.0727
Δ 41° 41' 42" (RT)
D 38° 11' 50"
R 150.00
L 109.16
T 57.12
SE N/A
DS N/A

CURVE PALISADES-4
PI 28+46.24
N 281,974.1734
E 2,163,487.3513
Δ 36° 56' 50" (LT)
D 35° 48' 36"
R 160.00
L 103.18
T 53.45
SE N/A
DS N/A

CURVE PALISADES-5
PI 29+72.24
N 281,892.9378
E 2,163,588.4944
Δ 70° 15' 46" (RT)
D 114° 35' 30"
R 50.00
L 61.32
T 35.18
SE N/A
DS N/A

CURVE BALMORAL RD-1
PI 41+22.96
N 281,954.8900
E 2,164,041.5837
Δ 3° 25' 51" (RT)
D 5° 06' 57"
R 1,120.00
L 67.06
T 33.54
SE N/A
DS N/A

PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

CTI PROJECT NO. C2207

SEALED BY

ELBERT R. KEY
LICENSED PROFESSIONAL ENGINEER
STATE OF TENNESSEE

COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION (PRESENT LAYOUT)

STA.799+50 TO STA.812+50
SCALE: 1"=50'

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322x5/7/28/26 6:19PM), LAYOUT: U3-8
DATE OF PRINT: 7/28/2026 6:20 PM
11/2/2025 10:42:27 PM
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CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322x57/28/26 6:19PM), LAYOUT: U3-9

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-9
CONST.		33021-3231-14	
PIN		124080.00	

REV. 12-10-21: MODIFIED TRACT NO.'S 44, 47, 84 AND 85. UPDATED ASSOCIATED ACQUISTIONS WITH MODIFIED TRACTS.

REV. 3-8-22: EXTENDED PALISADES ALIGNMENT. MODIFIED EXISTING TRACTS 32 & 33. ADDED VARIOUS R.O.W. ACQUISITIONS TO TRACTS 18, 19, 33, 34 & 38. REMOVED R.O.W. ACQUISITIONS FROM TRACTS 44, 47, 84 & 85.

REV. 8-9-23: MODIFIED TEMPORARY CONSTRUCTION EASEMENT TRACT NO. 38.

REV. 3-19-24: REVISED PROPERTY OWNER NAME FOR TRACT 34. ADDED DRIVEWAY TO TRACT 45. ADDED DRIVEWAY CONSTRUCTION EASEMENTS TO TRACTS 41 & 45. ADDED PROPERTY LINE BETWEEN TRACTS 35 & 56.

REV. 1-21-25: REMOVED TCE FROM TRACTS 41 & 45.

REV. 2-12-25: REVISED TRACT 31 OWNER.

NO SIGNAL MOUNTAIN RELOCATIONS ON SHT. NO. U3-8

NO SIGNAL MOUNTAIN WATER RELOCATION ON SHT. NO. 17

END SIGNAL MOUNTAIN WATER RELOCATION STA. 825+50

CURVE PALISADES-1
PI 23+83.67
N 282,384.6485
E 2,163,283.2579
Δ 85° 49' 50" (RT)
D 106° 06' 12"
R 54.00
L 80.89
T 50.21
SE N/A
DS N/A

CURVE PALISADES-2
PI 25+68.54
N 282,182.1268
E 2,163,310.7681
Δ 48° 14' 27" (LT)
D 38° 42' 48"
R 148.00
L 124.61
T 66.27
SE N/A
DS N/A

STEVEN H. ROBERTS

CISCILY BLYTHE STEWART & SPOUSE. TROY SANFORD STEWART

~~ANGELO MS MARQUES & DIANNE E. TASKER~~

~~RICHARD M. COWART & JULIE F. COWART~~

JAMES C. CAWTHORNE

JASON R. PAINTER

MATTHEW WARREN & DANIELLE WARREN

THOMAS H. JONES, JR.

THOMAS H. JONES, JR.

THOMAS H. JONES, JR.

CURVE SR8-36
PI 813+12.06
N 282,240.1091
E 2,163,471.7681
Δ 33° 22' 00" (RT)
D 22° 55' 06"
R 250.00
L 145.59
T 74.92
SE N/A
DS N/A

CURVE DSUNSETDR-1
PI 50+40.81
N 282,420.4618
E 2,163,485.5652
Δ 25° 31' 00" (RT)
D 76° 23' 40"
R 75.00
L 33.40
T 16.98
SE N/A
DS N/A

CURVE SR8-37
PI 817+60.95
N 282,688.2979
E 2,163,404.9191
Δ 62° 22' 00" (LT)
D 11° 30' 19"
R 498.00
L 542.07
T 301.40
SE N/A
DS N/A

CURVE SR8-38
PI 821+65.23
N 282,840.8420
E 2,162,965.6385
Δ 15° 01' 00" (RT)
D 13° 28' 53"
R 425.00
L 111.39
T 56.02
SE N/A
DS N/A

CURVE SR8-39
PI 822+75.36
N 282,903.0515
E 2,162,873.9852
Δ 17° 47' 00" (RT)
D 16° 22' 13"
R 350.00
L 108.63
T 54.76
SE N/A
DS N/A

CURVE SR8-40
PI 824+07.45
N 283,007.7584
E 2,162,792.0320
Δ 6° 48' 00" (RT)
D 6° 30' 39"
R 880.00
L 104.44
T 52.28
SE N/A
DS N/A

CONTROL POINTS					
Point	North	East	Elevation	Station	Offset
S18	282882.5516	2162880.5959	1240.50	822+56.87	15.21 LT
S19	282659.0547	2163364.4535	1230.52	817+33.69	34.30 RT
S20	282219.4460	2163479.9965	1205.81	812+88.82	13.26 LT

TO REMAIN IN PLACE
REMOVE OR ABANDON
NEW CONSTRUCTION

CTI PROJECT NO. C2207

SEALED BY

ELBERT R. KEY
REGISTERED ENGINEER
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION (PRESENT LAYOUT)

STA. 812+50 TO STA. 825+50
SCALE: 1"=50'

PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

DATE OF PRINT: 7/28/2026 6:20 PM
11/2/2025 10:43:10 PM
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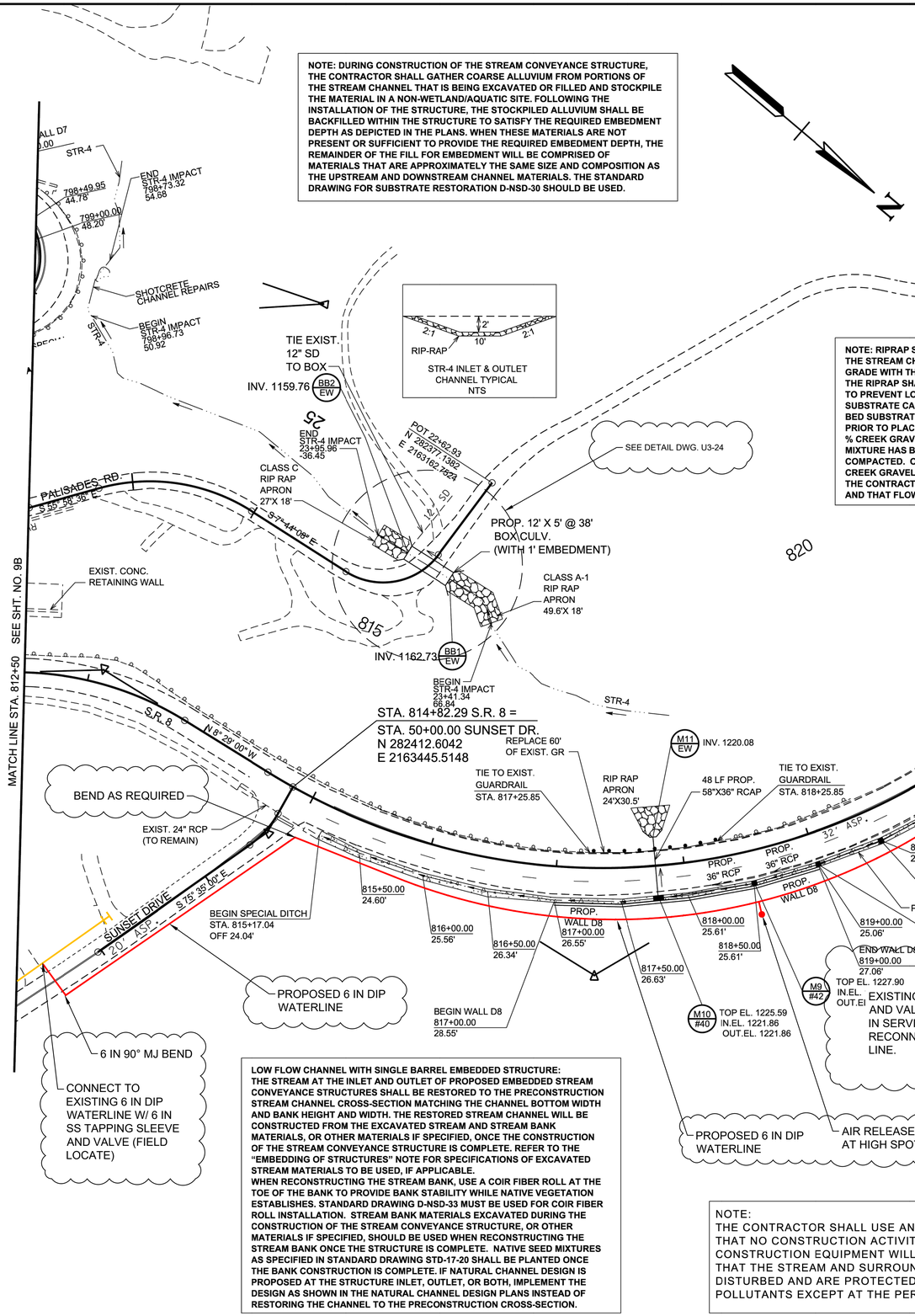
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-10
CONST.		33021-3231-14	
PIN		124080.00	

REV. 12-10-21: UPDATED DRAINAGE CALLOUTS M2 AND M3.

REV. 3-8-22: MODIFIED "M" SERIES DRAINAGE. ADDED PROPOSED BOX CULVERT ON PALISADES ROAD. REMOVED "L" SERIES DRAINAGE.

REV. 3-19-24: ADDED DRIVEWAY AT STA 824+50 RT.

NOTE: DURING CONSTRUCTION OF THE STREAM CONVEYANCE STRUCTURE, THE CONTRACTOR SHALL GATHER COARSE ALLUVIUM FROM PORTIONS OF THE STREAM CHANNEL THAT IS BEING EXCAVATED OR FILLED AND STOCKPILE THE MATERIAL IN A NON-WETLAND/AQUATIC SITE. FOLLOWING THE INSTALLATION OF THE STRUCTURE, THE STOCKPILED ALLUVIUM SHALL BE BACKFILLED WITHIN THE STRUCTURE TO SATISFY THE REQUIRED EMBEDMENT DEPTH AS DEPICTED IN THE PLANS. WHEN THESE MATERIALS ARE NOT PRESENT OR SUFFICIENT TO PROVIDE THE REQUIRED EMBEDMENT DEPTH, THE REMAINDER OF THE FILL FOR EMBEDMENT WILL BE COMPRISED OF MATERIALS THAT ARE APPROXIMATELY THE SAME SIZE AND COMPOSITION AS THE UPSTREAM AND DOWNSTREAM CHANNEL MATERIALS. THE STANDARD DRAWING FOR SUBSTRATE RESTORATION D-NSD-30 SHOULD BE USED.



NOTE: RIPRAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIPRAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL. VOIDS WITHIN THE RIPRAP SHALL BE FILLED WITH STREAM BED SUBSTRATE, IF AVAILABLE, TO PREVENT LOSS OF STREAM WITHIN RIP-RAP AREAS. STREAM BED SUBSTRATE CAN BE REMOVED FROM RIP-RAP EMBEDMENT AREA. IF STREAM BED SUBSTRATE IS NOT AVAILABLE, THE FOLLOWING SHOULD BE USED. PRIOR TO PLACEMENT OF RIPRAP, IT SHOULD BE MIXED WITH A MIXTURE OF 70 % CREEK GRAVEL AND 30 % SAND TO FILL THE VOIDS. ONCE THE RIP-RAP MIXTURE HAS BEEN INSTALLED THE AREA SHOULD BE THOROUGHLY COMPACTED. ONCE COMPACTED AN ADDITIONAL 1 -2 INCHES OF SAND AND CREEK GRAVEL SHALL BE ADDED TO FILL IN THE REMAINING VOIDS IF NEEDED. THE CONTRACTOR SHALL ENSURE THAT WATER WILL FLOW OVER THE RIPRAP AND THAT FLOW IS NOT LOST BELOW OR WITHIN THE ROCK.

LOW FLOW CHANNEL WITH SINGLE BARREL EMBEDDED STRUCTURE:
THE STREAM AT THE INLET AND OUTLET OF PROPOSED EMBEDDED STREAM CONVEYANCE STRUCTURES SHALL BE RESTORED TO THE PRECONSTRUCTION STREAM CHANNEL CROSS-SECTION MATCHING THE CHANNEL BOTTOM WIDTH AND BANK HEIGHT AND WIDTH. THE RESTORED STREAM CHANNEL WILL BE CONSTRUCTED FROM THE EXCAVATED STREAM AND STREAM BANK MATERIALS, OR OTHER MATERIALS IF SPECIFIED, ONCE THE CONSTRUCTION OF THE STREAM CONVEYANCE STRUCTURE IS COMPLETE. REFER TO THE "EMBEDDING OF STRUCTURES" NOTE FOR SPECIFICATIONS OF EXCAVATED STREAM MATERIALS TO BE USED, IF APPLICABLE.
WHEN RECONSTRUCTING THE STREAM BANK, USE A COIR FIBER ROLL AT THE TOE OF THE BANK TO PROVIDE BANK STABILITY WHILE NATIVE VEGETATION ESTABLISHES. STANDARD DRAWING D-NSD-33 MUST BE USED FOR COIR FIBER ROLL INSTALLATION. STREAM BANK MATERIALS EXCAVATED DURING THE CONSTRUCTION OF THE STREAM CONVEYANCE STRUCTURE, OR OTHER MATERIALS IF SPECIFIED, SHOULD BE USED WHEN RECONSTRUCTING THE STREAM BANK ONCE THE STRUCTURE IS COMPLETE. NATIVE SEED MIXTURES AS SPECIFIED IN STANDARD DRAWING STD-17-20 SHALL BE PLANTED ONCE THE BANK CONSTRUCTION IS COMPLETE. IF NATURAL CHANNEL DESIGN IS PROPOSED AT THE STRUCTURE INLET, OUTLET, OR BOTH, IMPLEMENT THE DESIGN AS SHOWN IN THE NATURAL CHANNEL DESIGN PLANS INSTEAD OF RESTORING THE CHANNEL TO THE PRECONSTRUCTION CROSS-SECTION.

NOTE:
THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF STR-4 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

CTI PROJECT NO. C2207

SEALED BY

ELBERT R. KEY
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATER RELOCATION (PROPOSED LAYOUT)

STA. 812+50 TO STA. 825+50
SCALE: 1"= 50'

C:\PROJECT: C22007; DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322\5/7/28/26 6:19PM), LAYOUT: U3-10
DATE OF PRINT: 7/28/2026 6:20 PM
11/2/2025 10:43:27 PM
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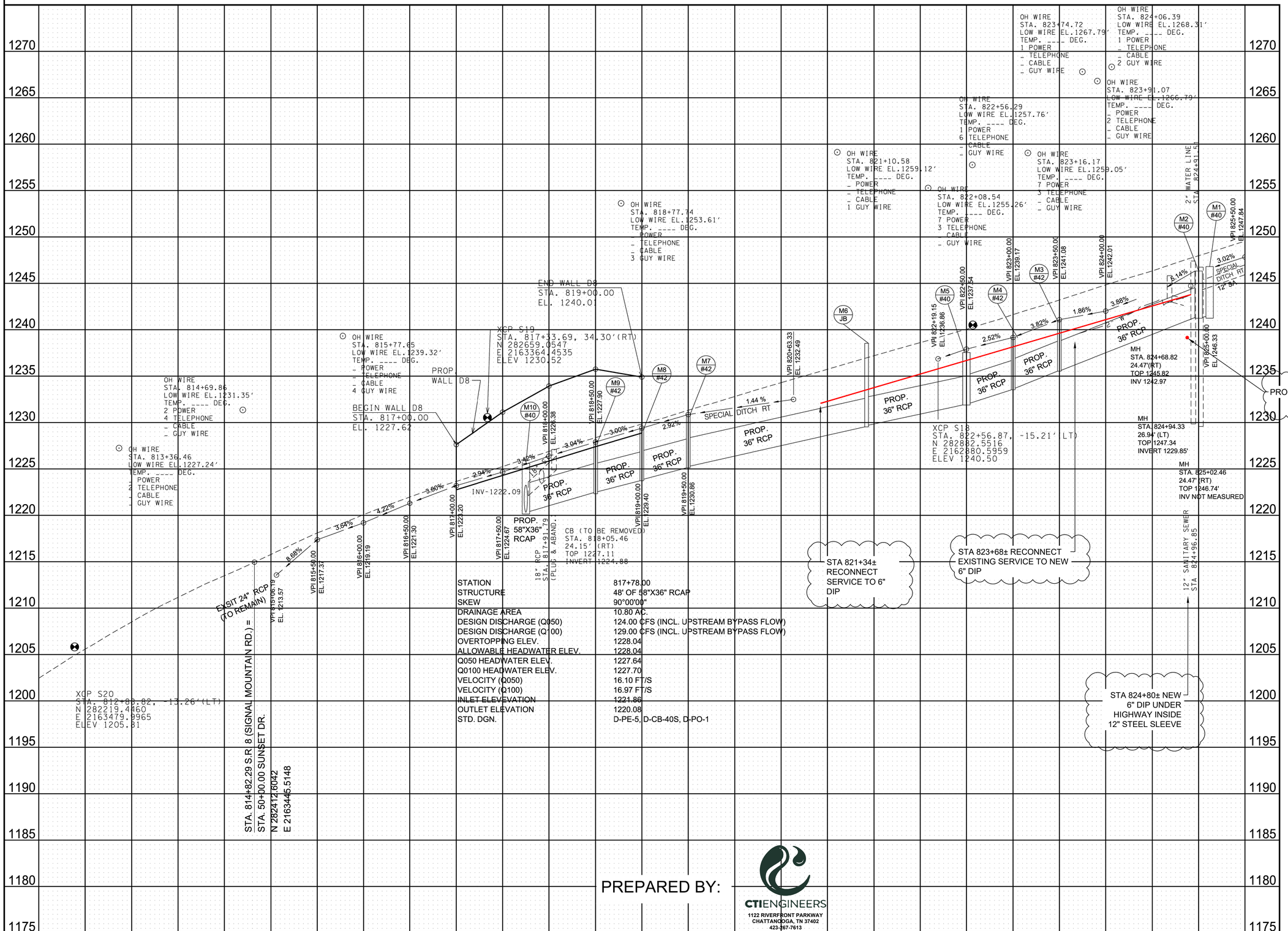
CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322x5/7/28/26 6:19PM), LAYOUT: U3-11

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-11
CONST.		33021-3231-14	
PIN		124080.00	

REV. 3-8-22: REMOVED "L" SERIES DRAINAGE. ADDED "M" SERIES DRAINAGE.



TO REMAIN IN PLACE
REMOVE OR ABANDON
NEW CONSTRUCTION

PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 812+50 TO STA. 825+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

DATE OF PRINT: 7/28/2026 6:21 PM
11/2/2025 10:43:35 PM
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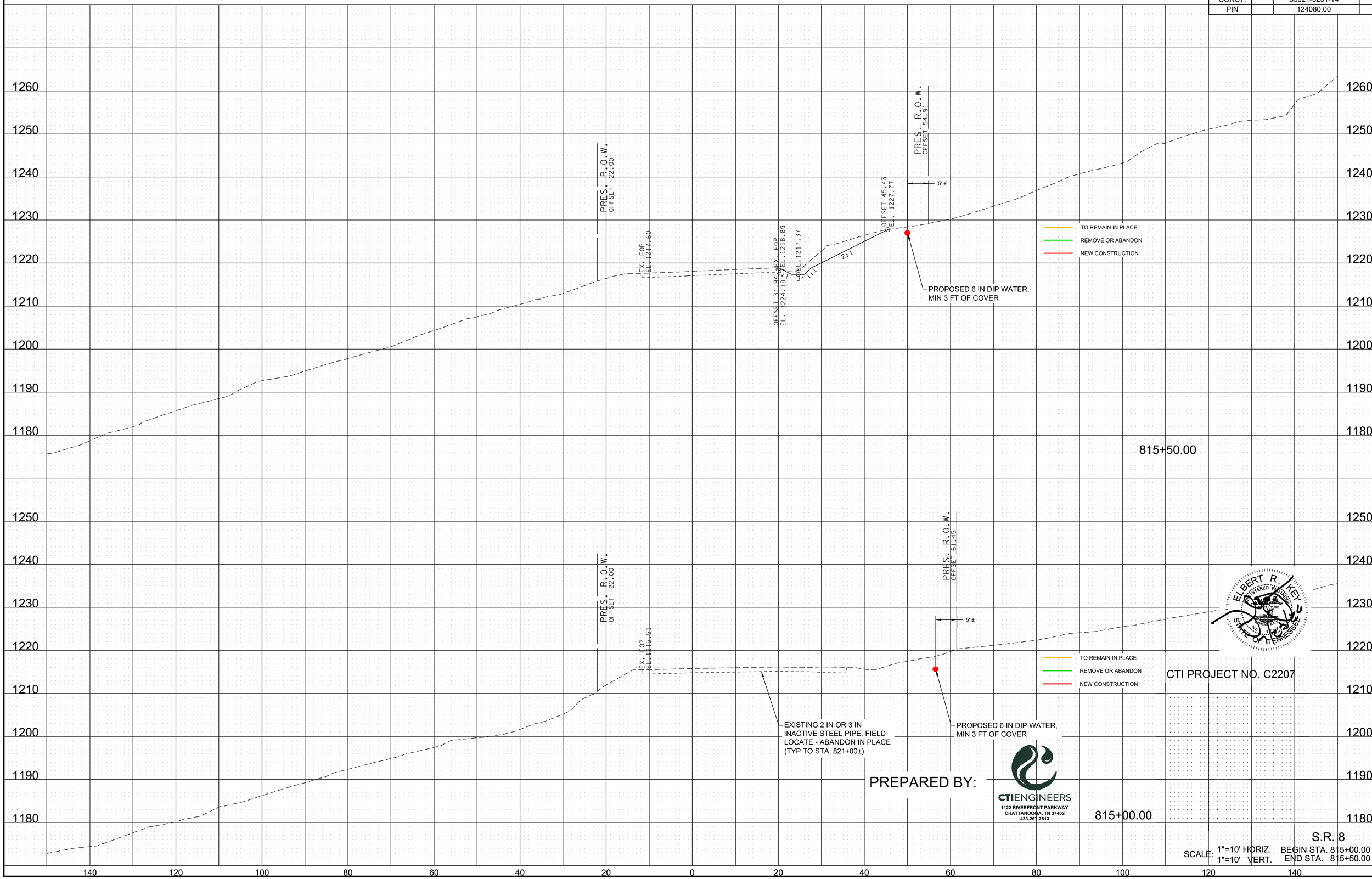
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-12
CONST.		33021-3231-14	
PIN		124080.00	



S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT.

BEGIN STA. 815+00.00
END STA. 815+50.00

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322v5/7/28/26 6:19PM), LAYOUT: U3-12

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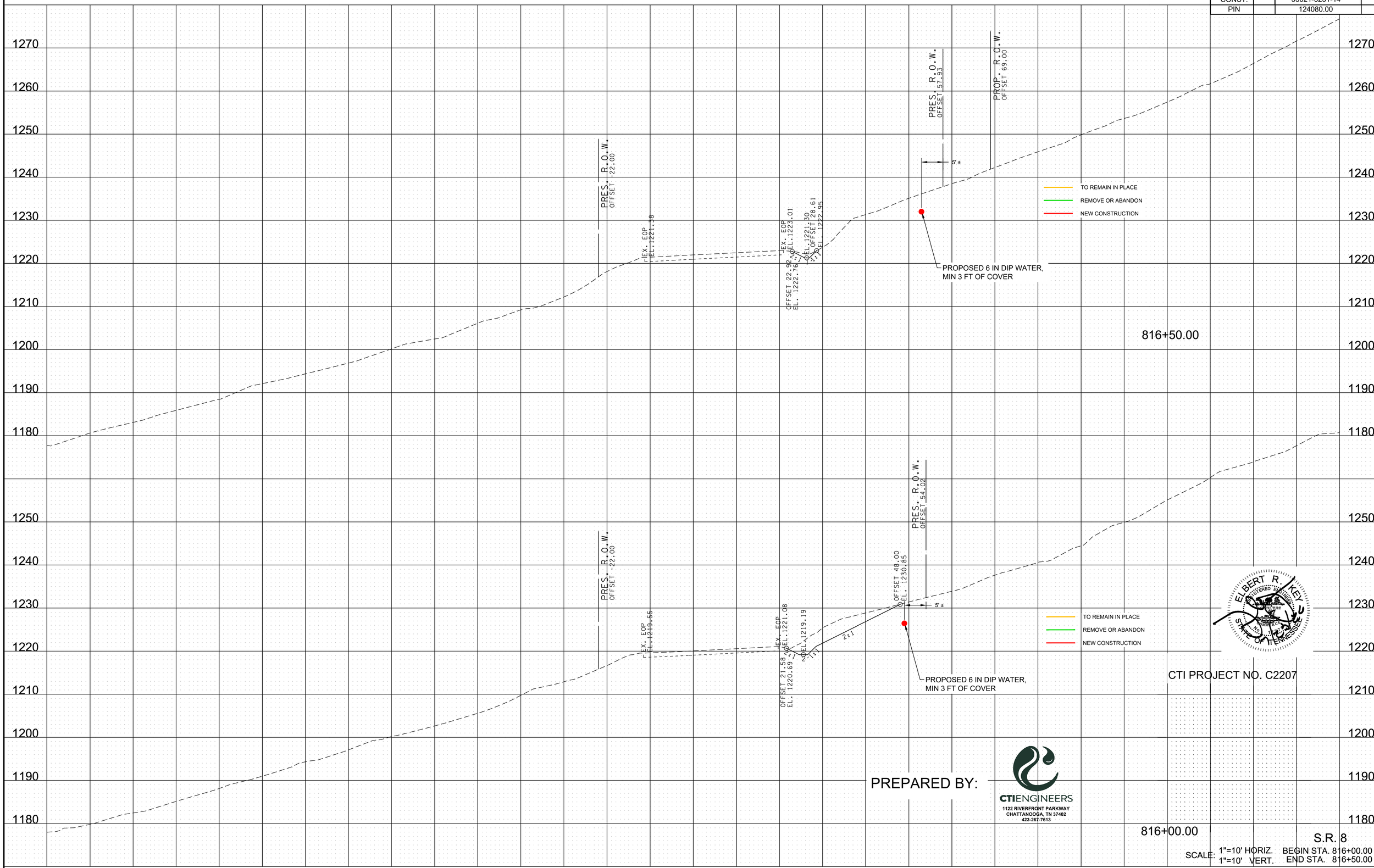
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-13
CONST.		33021-3231-14	
PIN		124080.00	



CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322v5/7/28/26 6:19PM), LAYOUT: U3-13

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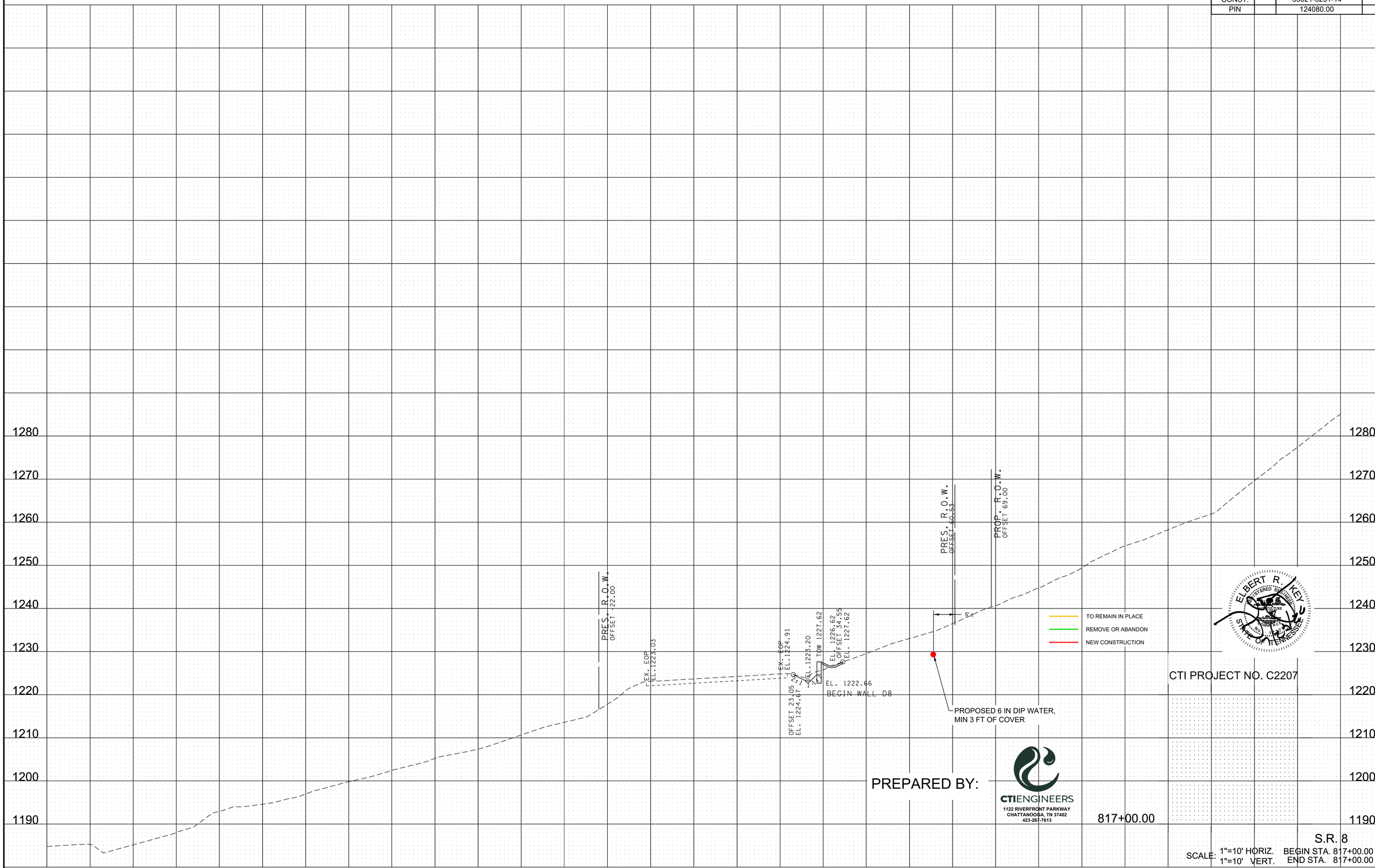
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-14
CONST.		33021-3231-14	
PIN		124080.00	



CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322v5/7/28/26 6:19PM), LAYOUT: U3-14

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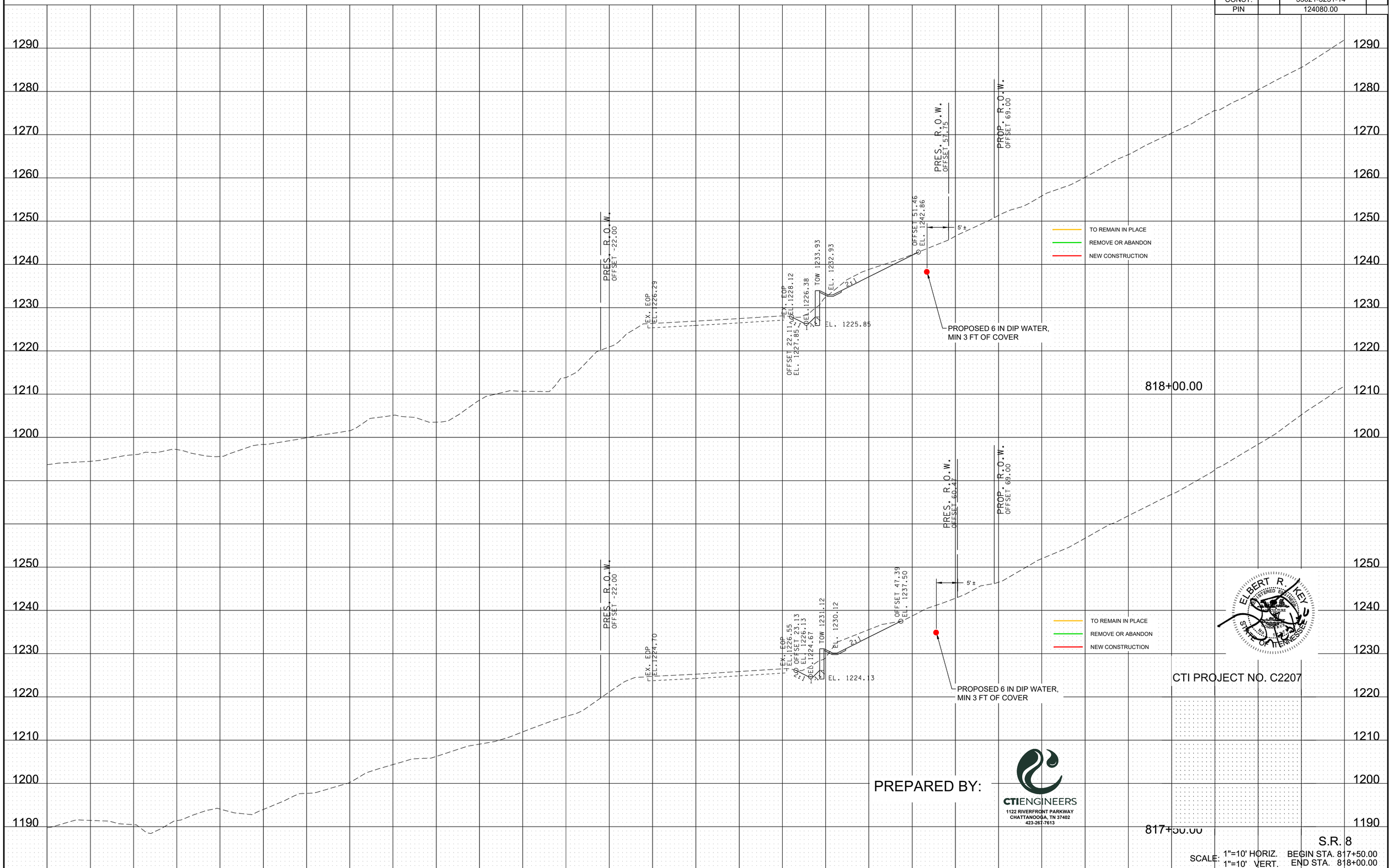
CTI PROJECT: C22007; DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322=5/7/28/26 6:19PM), LAYOUT: U3-15

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-15
CONST.		33021-3231-14	
PIN		124080.00	



ELBERT R. KEY
REGISTERED ENGINEER
LICENSE NO. 120555
STATE OF TENNESSEE

CTI PROJECT NO. C2207

PREPARED BY:

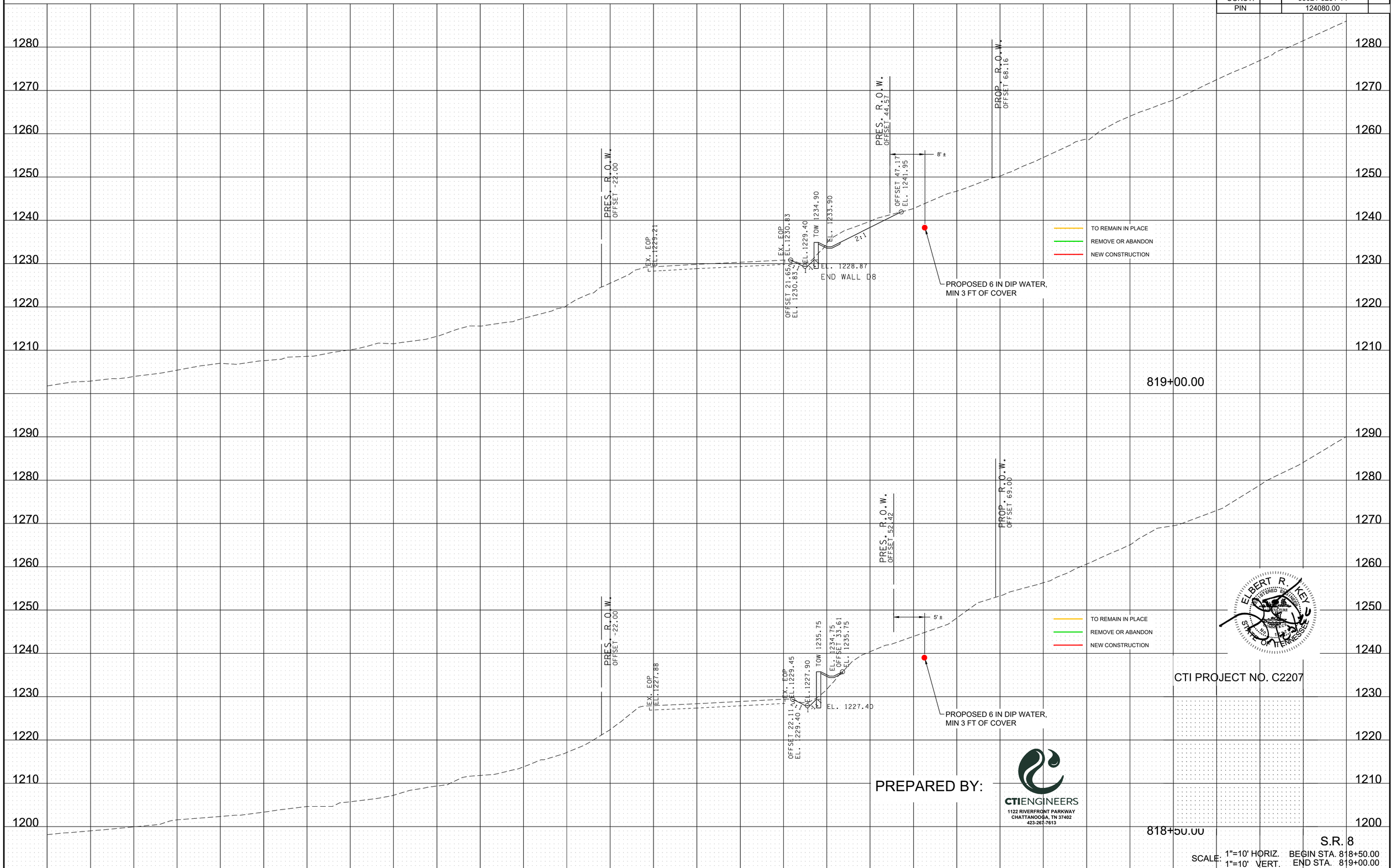
CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 817+50.00
1"=10' VERT. END STA. 818+00.00

9/28/2026 6:19:04 PM
c:\pw_work\arcadispw01\june.henderson\dms34141\HTSR08MainlineXSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-16
CONST.		33021-3231-14	
PIN		124080.00	

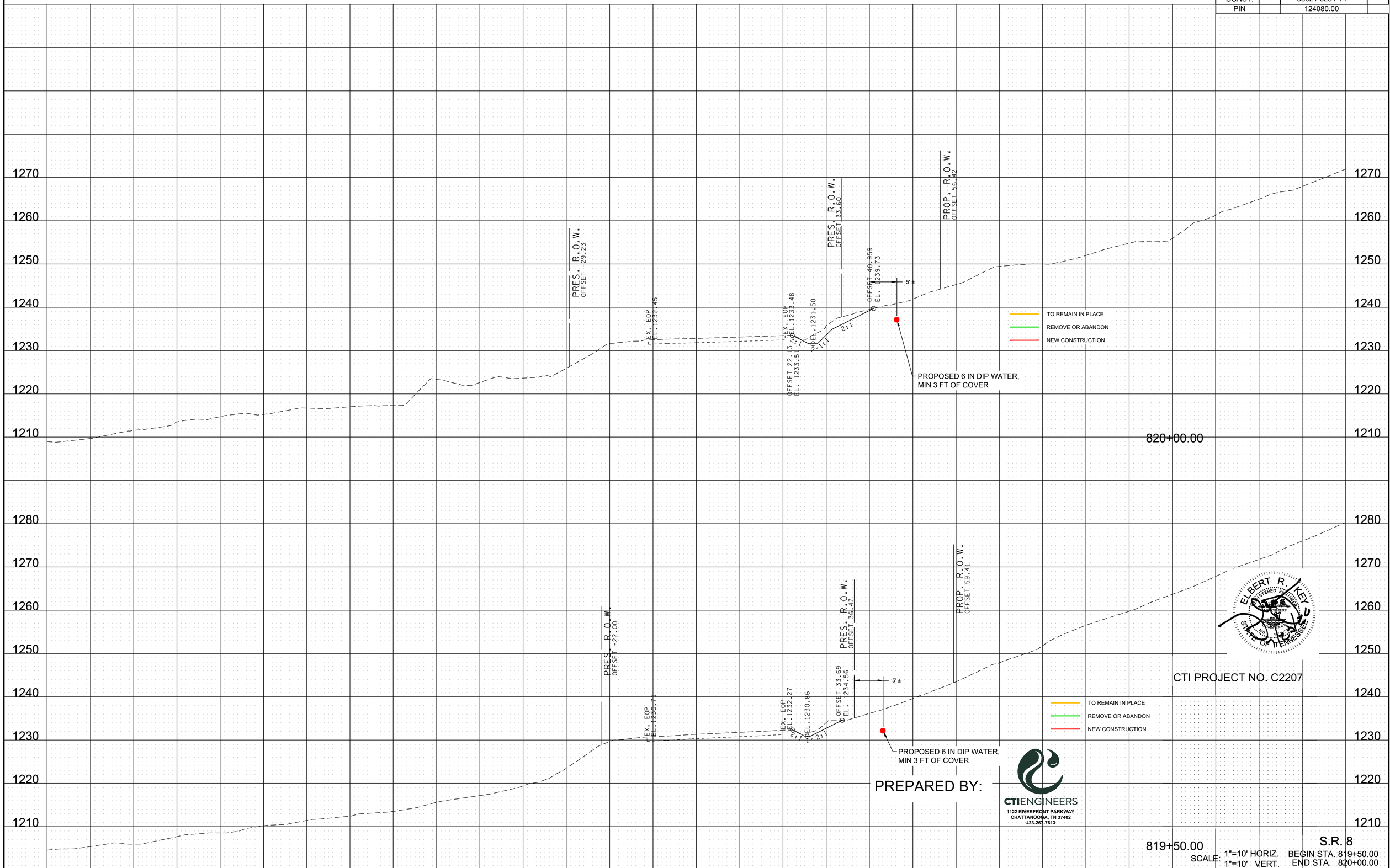


CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322x5/7/28/26 6:19PM), LAYOUT: U3-16

c:\pw_work\arcadispw01\june.henderson\dms34141\HTSR08MainlineXSSheets.sht

CTI PROJECT: C22007; DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322=5/7/28/26 6:19PM), LAYOUT: U3-17

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-17
CONST.		33021-3231-14	
PIN		124080.00	



ELBERT R. KEY
REGISTERED ENGINEER
STATE OF TENNESSEE

CTI PROJECT NO. C2207

PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 819+50.00
1"=10' VERT. END STA. 820+00.00

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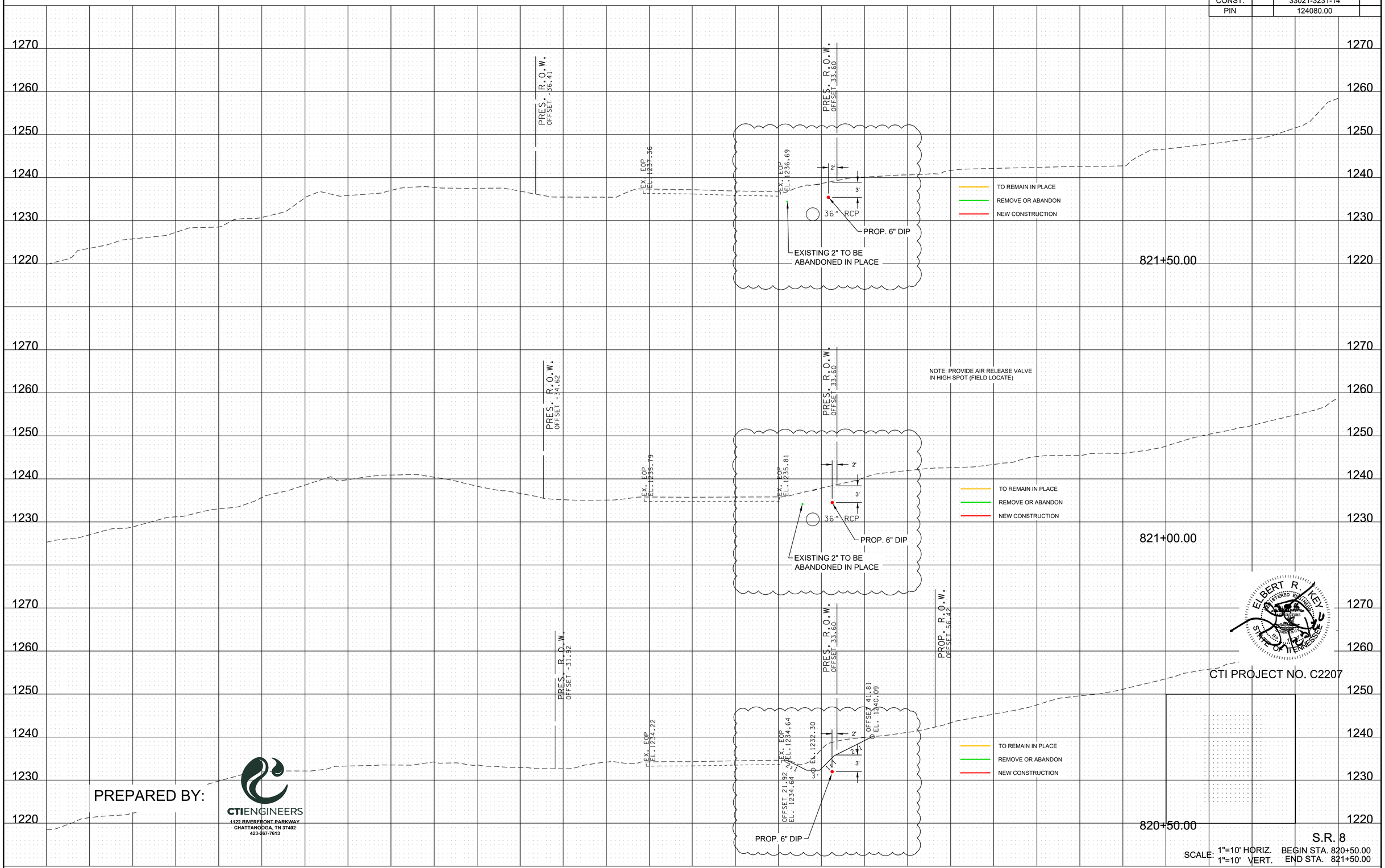
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-18
CONST.		33021-3231-14	
PIN		124080.00	



CTI PROJECT NO. C2207

PREPARED BY:

CTI ENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT.
BEGIN STA. 820+50.00
END STA. 821+50.00

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322v5/7/28/26 6:19PM), LAYOUT: U3-18

DATE OF PRINT: 7/28/2026 6:22 PM

10/31/2025 5:06:24 PM
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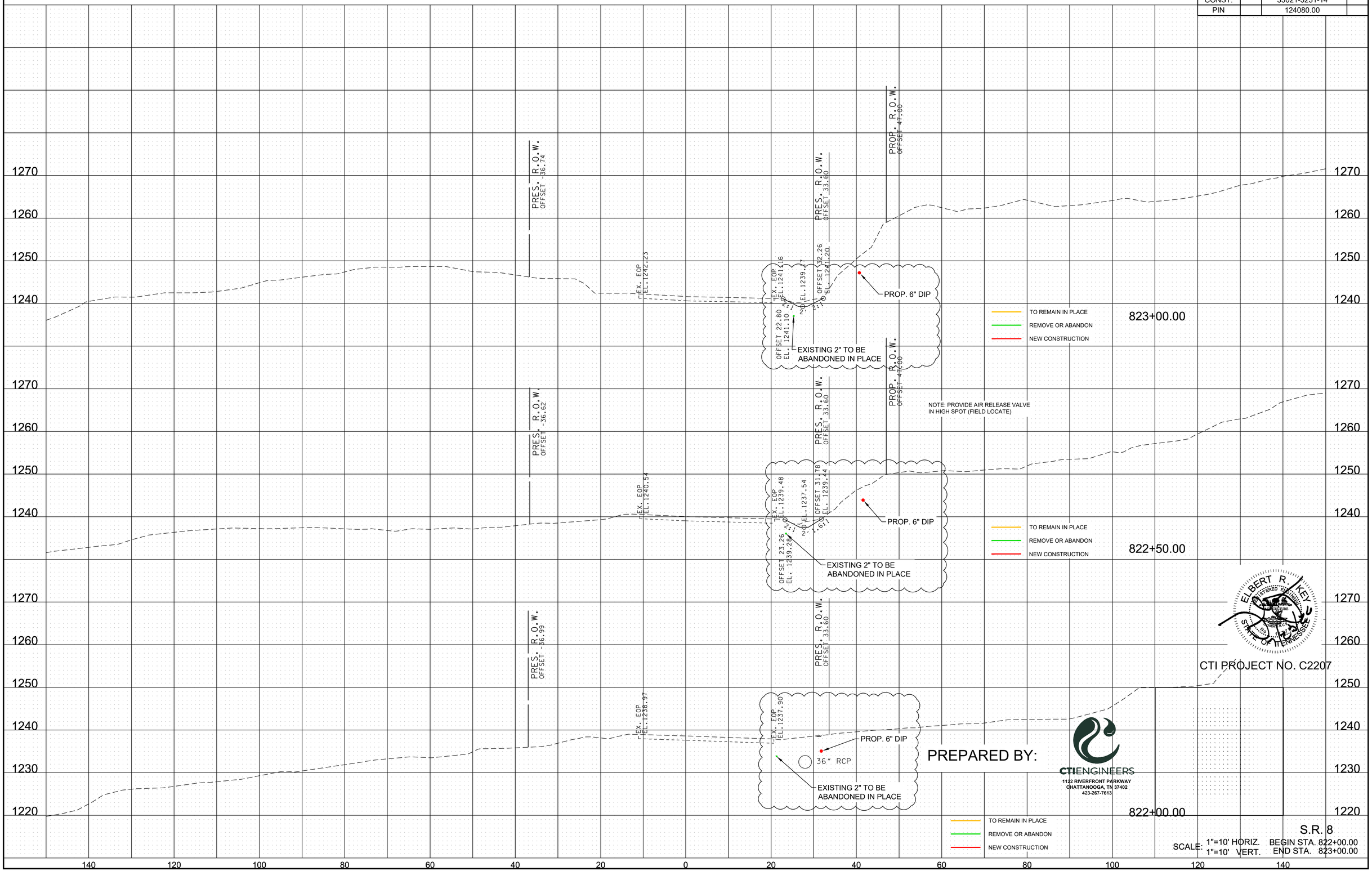
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-19
CONST.		33021-3231-14	
PIN		124080.00	



PREPARED BY:

CTI ENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

CTI PROJECT NO. C2207

S.R. 8

SCALE: 1"=10' HORIZ. 1"=10' VERT. BEGIN STA. 822+00.00 END STA. 823+00.00

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322v5/7/28/26 6:19PM), LAYOUT: U3-19

DATE OF PRINT: 7/28/2026 6:22 PM

10/31/2025 5:06:26 PM
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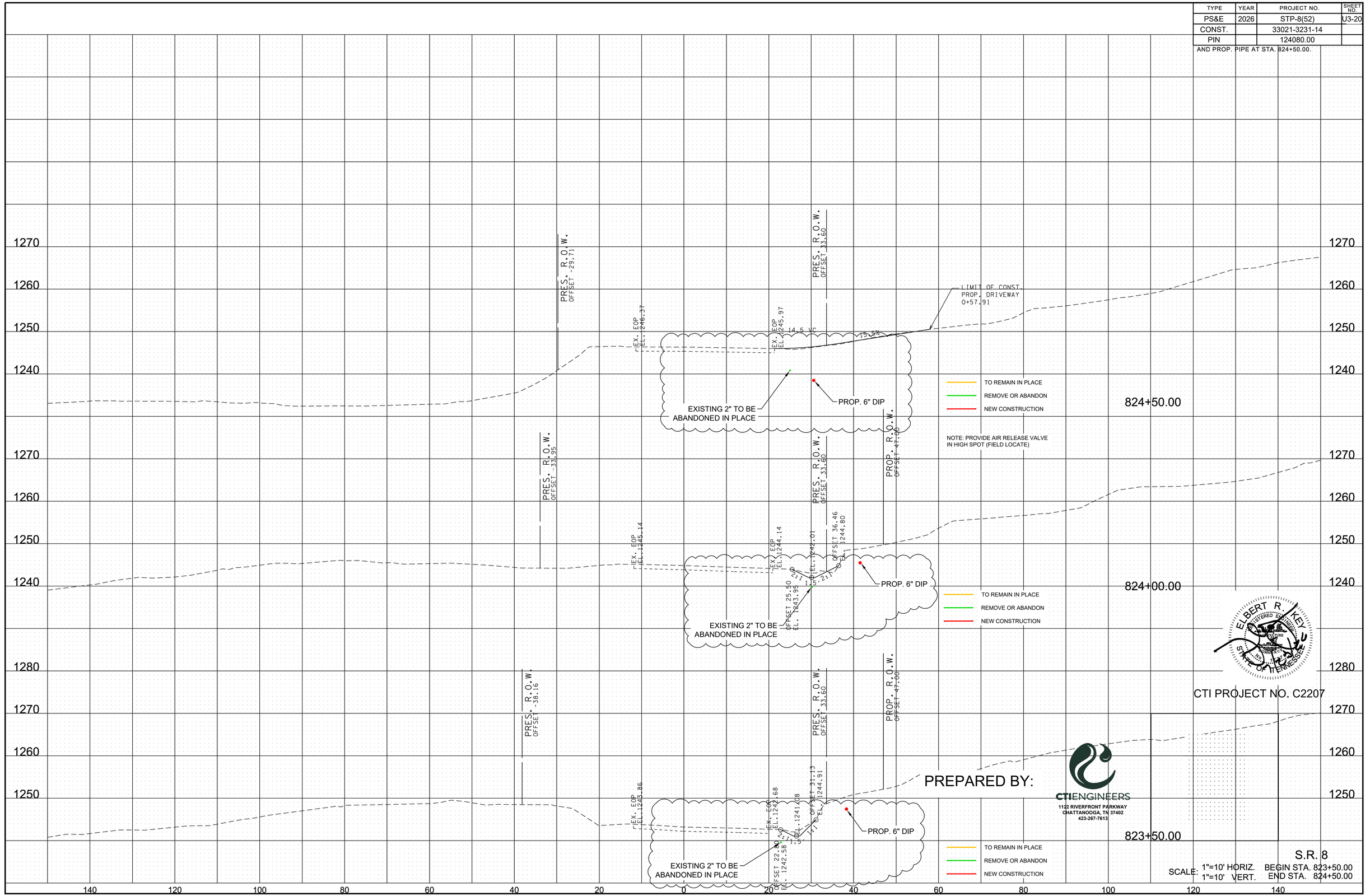
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-20
CONST.		33021-3231-14	
PIN		124080.00	

AND PROP. PIPE AT STA. 824+50.00.



ELBERT R. KEY
REGISTERED ENGINEER
No. 115178
STATE OF TENNESSEE

CTI PROJECT NO. C2207

PREPARED BY:

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

S.R. 8

SCALE: 1"=10' HORIZ. BEGIN STA. 823+50.00
1"=10' VERT. END STA. 824+50.00

CTI PROJECT: C22007; DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322-5/7/28/26 6:19PM), LAYOUT: U3-20

DATE OF PRINT: 7/28/2026 6:22 PM

10/31/2025 5:06:28 PM
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CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 U DRAWINGS (BLACK AND WHITE) (900322-5/7/28/26 6:19PM), LAYOUT: U3-21

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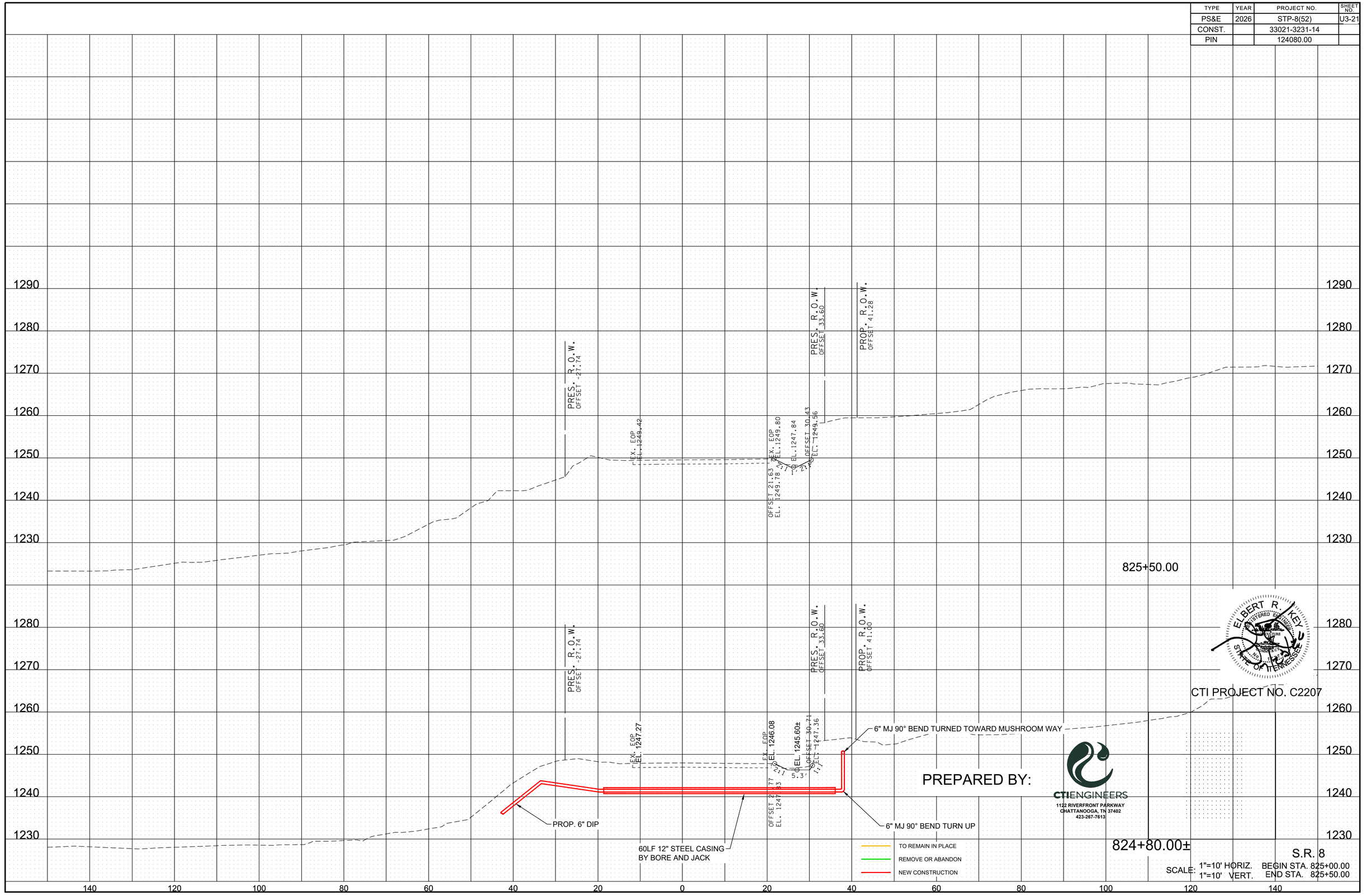
DATE OF PRINT: 7/28/2026 6:22 PM

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-21
CONST.		33021-3231-14	
PIN		124080.00	



ELBERT R. KEY
REGISTERED ENGINEER
No. 109004
STATE OF TENNESSEE

CTI PROJECT NO. C2207

PREPARED BY:

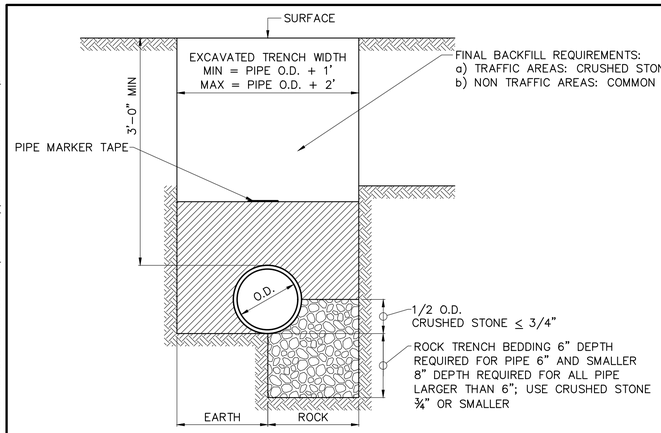
CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

S.R. 8

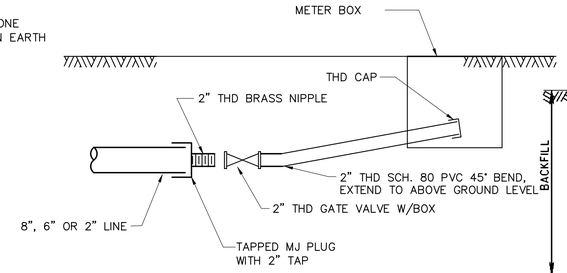
SCALE: 1"=10' HORIZ. BEGIN STA. 825+00.00
1"=10' VERT. END STA. 825+50.00

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 DETAILS (RAINBOW) (900277/6/7/28/26 5:54PM), LAYOUT: U3-22

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-22
CONST.		33021-3231-14	
PIN		124080.00	

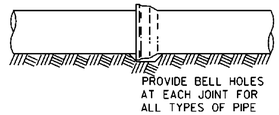


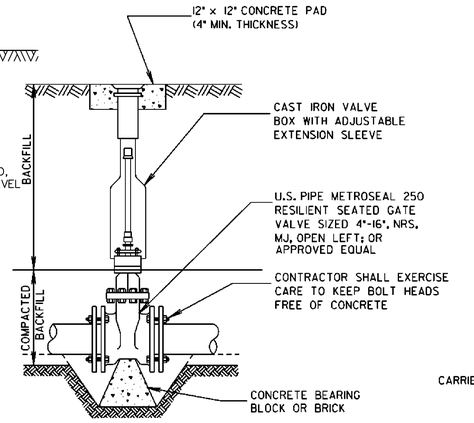
D.I.P. INSTALLATION DETAIL



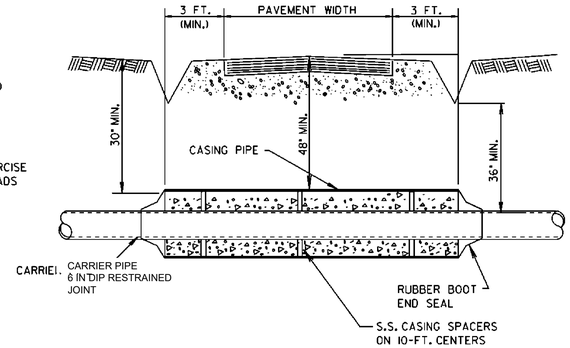
CONVENTIONAL BLOW-OFF

(AT END OF DEAD-END LINE
OR AS DIRECTED BY ENGINEER)

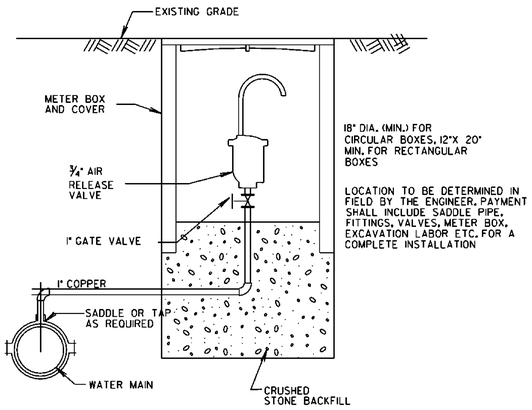




GATE VALVE INSTALLATION DETAIL
N.T.S.



HIGHWAY CROSSING DETAIL
NOT TO SCALE



AIR RELEASE VALVE DETAIL
NOT TO SCALE

PIPE SIZE X	A	B	DEPTH C
11¼° BEND			
16"	1'-0"	1'-4"	1'-4"
12"	1'-0"	1'-2"	1'-3"
10"	0'-9"	1'-0"	1'-0"
8"	0'-9"	1'-0"	0'-8"
6"	0'-9"	1'-0"	0'-6"
4"	0'-6"	1'-0"	0'-4"
DEAD END			
16"	1'-0"	3'-0"	3'-0"
12"	0'-11"	2'-6"	2'-7"
10"	0'-9"	2'-0"	2'-4"
8"	0'-7"	1'-8"	1'-9"
6"	0'-5"	1'-3"	1'-5"
4"	0'-4"	0'-10"	0'-11"
TEE			
16"	2'-6"	5'-6"	3'-0"
12"	2'-0"	4'-9"	2'-9"
10"	1'-9"	4'-0"	2'-3"
8"	1'-6"	3'-0"	2'-0"
6"	1'-0"	2'-8"	1'-6"
4"	1'-0"	2'-0"	1'-0"

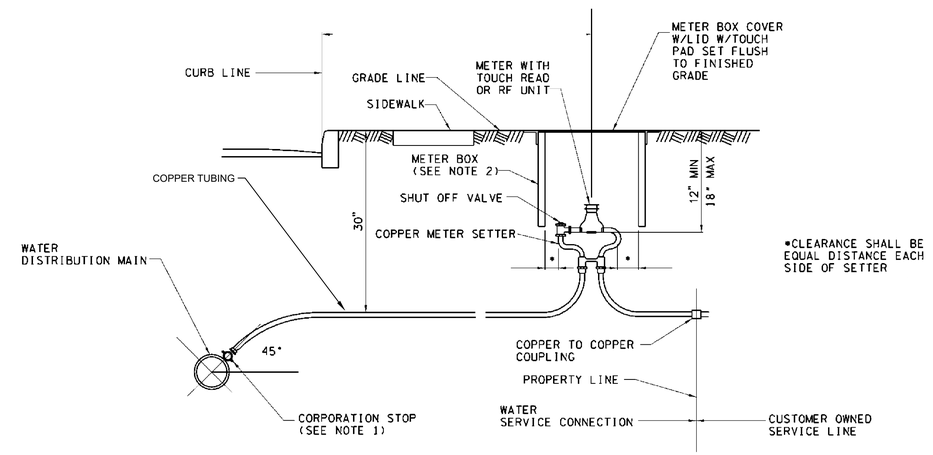
PIPE SIZE X	A	B	DEPTH C
90° BEND & UNBALANCED TEE			
16"	1'-9"	3'-6"	3'-6"
12"	1'-6"	3'-0"	3'-0"
10"	1'-4"	2'-2"	3'-0"
8"	1'-0"	2'-0"	2'-0"
6"	1'-0"	1'-3"	2'-0"
4"	0'-9"	1'-0"	1'-0"
45° BEND			
16"	1'-0"	4'-3"	2'-0"
12"	1'-0"	2'-6"	2'-0"
10"	0'-9"	2'-0"	1'-9"
8"	0'-9"	1'-6"	1'-8"
6"	0'-9"	1'-0"	1'-6"
4"	0'-9"	1'-0"	1'-0"
22½° BEND			
16"	1'-0"	2'-4"	2'-0"
12"	1'-0"	1'-6"	1'-9"
10"	0'-9"	1'-3"	1'-6"
8"	0'-9"	1'-0"	1'-4"
6"	0'-9"	0'-10"	1'-0"
4"	0'-9"	0'-7"	1'-0"

TABLE OF DIMENSIONS FOR HORIZONTAL & VERTICAL BENDS

NOTE : ALL CONCRETE FOR THRUST BLOCKS SHALL BE READY-MIXED 3000 psi (MINIMUM) CLASS "B". MIX DESIGN SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO USE. THRUST BLOCKS BASED ON 225 psf & 2000lb/ft2 SOIL RESISTANCE TYPICAL FOR UNDISTURBED SAND AND GRAVEL CEMENTED WITH CLAY. FOR OTHER SOILS THE BEARING FACE OF THE THRUST BLOCKS SHOULD BE INCREASED BY THE FOLLOWING FACTORS.

SAND	2
SAND & GRAVEL	1.33
SHALE	0.4

SOFT CLAY, MUCK AND PEAT SHALL USE RESTRAINED JOINTS IN LIEU OF THRUST BLOCKS.



NOTES:

1. CORPORATION STOP WITH STRAIGHT COUPLING NUT. SERVICE SADDLES WILL BE USED FOR ALL TAPS
2. 14" X 14" X 16" DEEP STEEL METER BOX FOR USE WITH ⅝" METER 14" X 22" X 16" DEEP STEEL METER BOX FOR USE WITH 1" METER.

TYPICAL SERVICE WITH VERTICAL METER SETTER INSTALLATION DETAIL
NOT TO SCALE

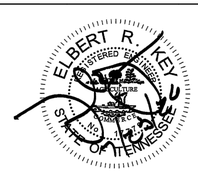
PLAN-UNBALANCED TEE
NOT TO SCALE

PLAN-TYPICAL VERTICAL BEND
NOT TO SCALE

PLAN-TYPICAL TEE
NOT TO SCALE

PLAN-TYPICAL HORIZONTAL BEND
NOT TO SCALE

SEALED BY



COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

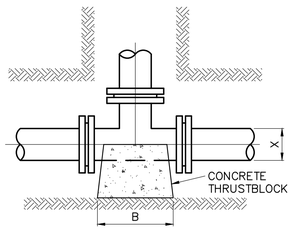
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETAILS

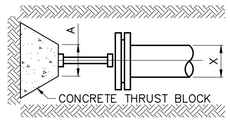
CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

DATE OF PRINT: 7/28/2026 6:24 PM

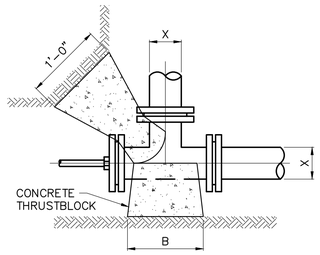
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-23
CONST.		33021-3231-14	
PIN		124080.00	



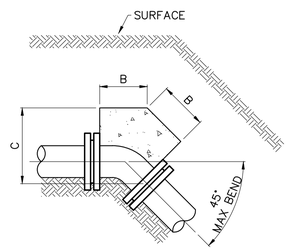
PLAN-TYPICAL TEE



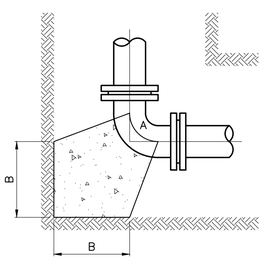
PLAN-TYPICAL PLUG



PLAN-UNBALANCED TEE



PLAN-TYPICAL VERTICAL BEND



PLAN-TYPICAL HORIZONTAL BEND

CONCRETE THRUST BLOCK DETAILS

N.T.S.

TYPE 2 BEDDING

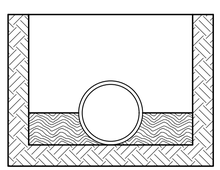
NOM. PIPE SIZE (IN.)	HORIZONTAL & VERTICAL UP (NON-ENCROACHING) BENDS — ELBOWS (DEGREES)											
	150psi				200psi				250psi			
	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90
3	4	7	15	36	5	10	20	48	6	12	25	60
4	4	9	18	43	6	12	24	58	7	14	30	72
6	6	12	25	61	8	16	34	82	10	20	42	102
8	8	16	33	79	10	21	43	105	13	26	54	131
10	9	19	39	95	12	25	52	126	16	31	65	158
12	11	22	46	110	15	29	61	147	18	37	76	228
14	12	25	52	126	17	33	69	168	21	42	87	209
16	14	28	58	140	18	37	77	187	23	46	97	234
18	15	31	64	154	20	41	85	206	25	51	107	257
20	17	33	69	168	22	44	93	224	28	56	116	279
24	19	39	80	194	25	51	107	259	32	64	134	323

NOM. PIPE SIZE (IN.)	VERTICAL DOWN (NON-ENCROACHING) BENDS — ELBOWS (DEGREES)											
	150psi				200psi				250psi			
	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90
3	5	11	23	56	2	3	6	15	2	4	8	20
4	7	13	28	67	2	4	8	18	2	5	10	25
6	9	19	39	95	3	5	11	26	3	7	14	35
8	12	24	51	123	3	7	14	34	4	9	19	45
10	15	30	62	149	4	8	17	41	5	11	22	54
12	17	35	72	174	5	10	20	48	6	13	26	64
14	20	39	82	198	5	11	23	55	7	14	30	73
16	22	44	92	221	6	12	25	61	8	16	34	82
18	24	49	101	245	7	14	28	68	9	18	38	91
20	26	53	110	266	7	15	31	74	10	20	41	99
24	31	62	129	310	9	17	36	87	11	23	48	116

NOM. PIPE SIZE (IN.)	VERTICAL UP (ENCROACHING) & COMBINED VERTICAL OFFSET (OVER OBJECT) — ELBOWS (DEGREES)											
	150psi				200psi				250psi			
	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90
3	7	14	30	72	8	18	39	95	11	23	49	119
4	9	17	36	87	10	22	47	115	13	28	59	144
6	12	24	51	123	15	31	67	162	19	40	84	203
8	16	31	65	157	20	41	86	209	25	51	108	261
10	19	38	79	190	24	49	104	252	30	62	130	315
12	22	44	92	221	28	58	121	294	35	72	152	367
14	25	50	104	251	32	66	138	334	40	82	173	418
16	28	56	116	280	36	73	154	373	45	92	193	466
18	30	61	128	309	40	81	169	410	50	101	212	513
20	33	67	139	335	43	88	184	446	54	110	231	558
24	38	77	161	388	50	102	213	516	63	128	267	646

NOM. PIPE SIZE (IN.)	VERTICAL DOWN (ENCROACHING) & COMBINED VERTICAL OFFSET (UNDER OBJECT) — ELBOWS (DEGREES)											
	150psi				200psi				250psi			
	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90
3	11	22	46	112	14	29	61	148	17	36	76	185
4	13	27	56	135	17	35	73	178	21	44	92	223
6	19	38	79	191	24	50	104	253	30	62	131	317
8	24	49	102	246	31	64	135	327	39	81	169	409
10	29	59	123	297	38	78	163	395	48	98	204	494
12	34	69	144	347	45	91	191	462	56	114	239	578
14	39	79	164	396	51	104	218	527	64	130	273	659
16	44	88	183	443	57	116	244	590	72	146	305	737
18	48	97	203	489	63	129	269	651	79	161	337	814
20	52	106	221	553	69	140	293	709	86	176	367	887
24	61	123	257	621	80	164	342	826	101	205	427	1033

NOM. PIPE SIZE (IN.)	REDUCERS	TEES, VALVES, DEAD-ENDS	REDUCERS	TEES, VALVES, DEAD-ENDS	REDUCERS	TEES, VALVES, DEAD-ENDS
	150psi		200psi		250psi	
3	------	56	------	74	------	93
4	21	67	29	90	36	112
6	49	95	66	127	82	159
8	51	123	69	164	86	205
10	50	149	66	198	83	248
12	51	174	68	231	85	289
14	51	198	68	264	84	330
16	50	221	67	295	84	369
18	50	245	66	326	83	408
20	49	266	66	355	82	444
24	93	310	124	414	155	517



TYPE 2 BEDDING

FLAT–BOTTOM TRENCH*. BACKFILL LIGHTLY CONSOLIDATED TO CENTERLINE OF PIPE.

TYPE 3 BEDDING

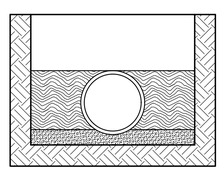
NOM. PIPE SIZE (IN.)	HORIZONTAL & VERTICAL UP (NON-ENCROACHING) BENDS — ELBOWS (DEGREES)											
	150psi				200psi				250psi			
	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90
3	2	4	9	21	3	6	12	28	3	7	15	35
4	3	5	11	25	3	7	14	34	4	8	18	42
6	4	7	15	36	3	6	12	28	6	12	25	60
8	5	9	19	46	6	12	25	62	8	15	32	77
10	5	11	23	56	7	15	31	74	9	18	38	93
12	6	13	27	65	8	17	36	86	11	21	45	108
14	7	15	30	74	10	19	41	98	12	24	51	123
16	8	16	34	82	11	22	45	109	13	27	57	137
18	9	18	37	90	12	24	50	120	15	30	62	150
20	10	19	41	98	13	26	54	131	16	32	68	163
24	11	23	47	113	15	30	63	151	19	38	78	189

NOM. PIPE SIZE (IN.)	VERTICAL DOWN (NON-ENCROACHING) BENDS — ELBOWS (DEGREES)											
	150psi				200psi				250psi			
	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90
3	4	7	15	36	5	10	20	48	6	12	25	60
4	4	9	18	44	6	12	24	58	7	14	30	73
6	6	12	26	62	8	16	34	82	10	20	43	103
8	8	16	33	80	10	21	44	106	13	26	55	133
10	9	19	40	96	13	26	53	128	16	32	67	161
12	11	22	47	113	15	30	62	150	18	37	78	188
14	13	26	53	128	17	34	71	171	21	43	89	214
16	14	29	59	144	19	38	79	191	24	48	99	239
18	16	32	66	159	21	42	88	211	26	53	109	264
20	17	34	72	173	23	46	95	230	28	57	119	288
24	20	40	83	201	26	53	111	268	33	67	139	335

NOM. PIPE SIZE (IN.)	VERTICAL UP (ENCROACHING) & COMBINED VERTICAL OFFSET (OVER OBJECT) — ELBOWS (DEGREES)											
	150psi				200psi				250psi			
	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90
3	3	7	17	41	5	10	22	55	6	13	28	70
4	4	9	20	50	6	13	27	67	7	16	34	84
6	6	13	29	71	8	18	39	95	11	23	49	119
8	8	17	37	91	11	23	50	122	14	30	63	153
10	10	21	45	110	14	28	60	147	17	36	76	184
12	12	25	53	128	16	33	70	171	20	42	88	215
14	13	28	60	146	18	38	80	195	23	48	100	244
16	15	32	67	163	21	42	90	218	26	53	112	272
18	17	35	74	179	23	47	99	239	29	59	123	300
20	18	38	80	195	25	51	107	260	31	64	134	326
24	21	44	93	225	29	59	124	301	36	74	155	376

NOM. PIPE SIZE (IN.)	VERTICAL DOWN (ENCROACHING) & COMBINED VERTICAL OFFSET (UNDER OBJECT) — ELBOWS (DEGREES)											
	150psi				200psi				250psi			
	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90	11 1/4	22 1/2	45	90
3	6	13	29	71	8	18	39	95	11	23	49	119
4	8	16	35	86	10	22	47	115	13	28	59	144
6	11	24	50	123	15	32	67	164	19	40	84	205
8	15	31	65	158	20	41	87	212	25	52	109	265
10	18	37	79	192	24	50	105	256	31	63	132	320
12	21	44	92	224	29	59	123	299	36	74	154	374
14	24	50	105	256	33	67	141	341	41	84	176	427
16	27	56	118	286	37	75	158	382	46	94	197	478
18	30	62	130	316	41	83	174	422	51	104	218	527
20	33	68	142	344	44	91	190	459	56	113	237	574
24	39	79	166	401	52	106	221	535	65	132	277	669

NOM. PIPE SIZE (IN.)	REDUCERS	TEES, VALVES, DEAD-ENDS	REDUCERS	TEES, VALVES, DEAD-ENDS	REDUCERS	TEES, VALVES, DEAD-ENDS
	150psi		200psi		250psi	
3	------	36	------	48	------	60
4	14	44	19	58	23	73
6	32	62	42	82	53	103
8	33	80	44	106	56	133
10	32	96	43	128	54	161
12	33	113	44	150	55	188
14	33	128	44	171	55	214
16	33	144	43	191	54	239
18	32	159	43	211	54	264
20	32	173	43	230	53	288
24	60	201	80	268	100	335



TYPE 3 BEDDING

PIPE BEDDED IN 4" MIN. LOOSE SOIL**. BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE.

* "FLAT–BOTTOM" IS DEFINED AS "UNDISTURBED EARTH".

** "LOOSE SOIL" IS DEFINED AS "NATIVE SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH".

MECHANICAL THRUST RESTRAINT REQUIREMENTS FOR DUCTILE IRON PIPE
TABLE OF MINIMUM LENGTHS (L) IN FEET TO BE RESTRAINED ON EACH SIDE OF FITTING

HORIZONTAL

Nominal Pipe Size (in.)	Test Pressure - 300 psi — Elbow (Degrees) 11.25	22.5	45	90	Reducers	Tees, Valves, Dead-ends
3	3	6	12	29	--------	48
4	4	7	15	35	19	57
6	5	10	21	49	42	80
8	7	13	27	64	44	105
10	8	15	32	76	42	125
12	9	18	37	89	44	147
14	10	20	42	100	43	167
16	12	23	47	113	43	188
18	13	25	51	124	43	208
20	14	27	56	135	43	228
24	16	31	65	156	79	265
30	19	37	77	185	111	316

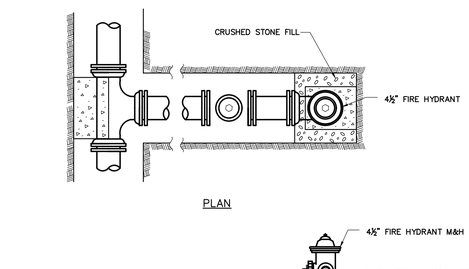
VERTICAL OFFSET

Nominal Pipe Size (in.)	Test Pressure - 300 psi — Elbow (Degrees) 11.25	22.5	45
3	5	9	19
4	6	11	22
6	8	15	31
8	10	20	40
10	12	23	48
12	14	27	57
14	16	31	64
16	18	35	72
18	19	39	80
20	21	42	87
24	24	49	101
30	29	58	121

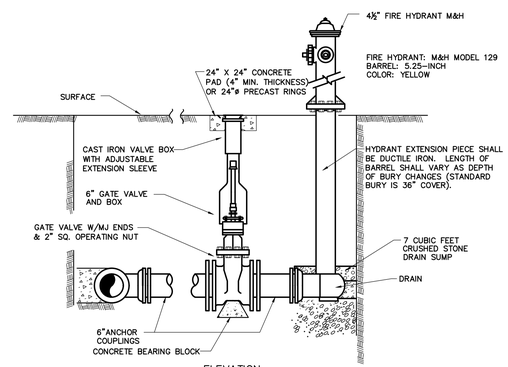
Note: Restrain one joint beyond the minimum length shown in the table for all lengths over 10 feet from the fitting.

COMMENTS AND ASSUMPTIONS:
The tabulated values shown were generated using the EBAA Iron, Inc. Computer Program.
Soil Type: Worst Case
MH Granular - For Elbows
ML - For Reducers, Tees, Valves, and Dead-Ends.
Trench Type: 3 (Pipe bedded in 4-inch minimum loose soil. Backfill lightly consolidated to top of pipe).
Depth of Cover to Top of Pipe: 3 feet.
Safety Factor: 1.5.

The values shown for the Reducers were based on a reduction from the nominal pipe size to a pipe one-size smaller.



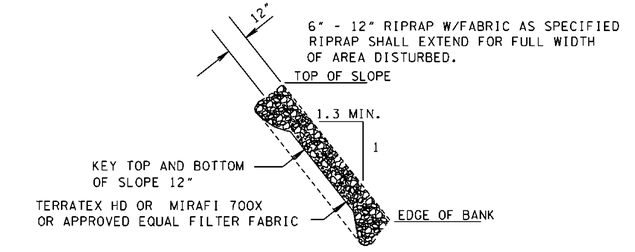
PLAN



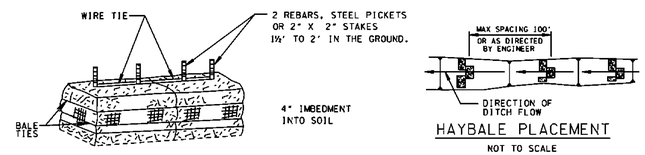
ELEVATION

NOTE:
BLOCK MAY BE POURED UNDER THE BEND WITH THE BEND STRAPPED TO ANCHOR IF MORE PRACTIBLE.

FIRE HYDRANT ASSEMBLY OR FLUSHING HYDRANT
NOT TO SCALE

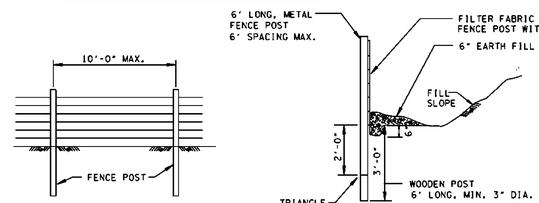


RIPRAP DETAIL
N.T.S.



HAYBALE PLACEMENT
NOT TO SCALE

EROSION CONTROL HAYBALES



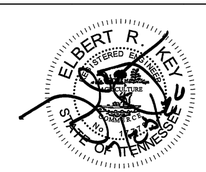
FRONT ELEVATION

SIDE ELEVATION

TYPICAL SILT FENCE
NOT TO SCALE

EROSION CONTROL DETAILS
NOT TO SCALE

SEALED BY



COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

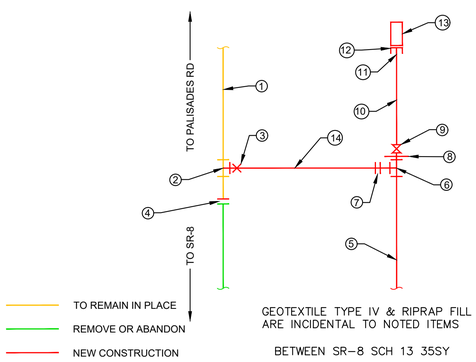
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETAILS

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

CTI PROJECT: C22007, DRAWING: C22007 REVISED C22007 DETAILS (RAINBOW) (900277v6/7728/26 5:54PM), LAYOUT: U3-24

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U3-24
CONST.		33021-3231-14	
PIN		124080.00	



GEOTEXTILE TYPE IV & RIPRAP FILL ARE INCIDENTAL TO NOTED ITEMS

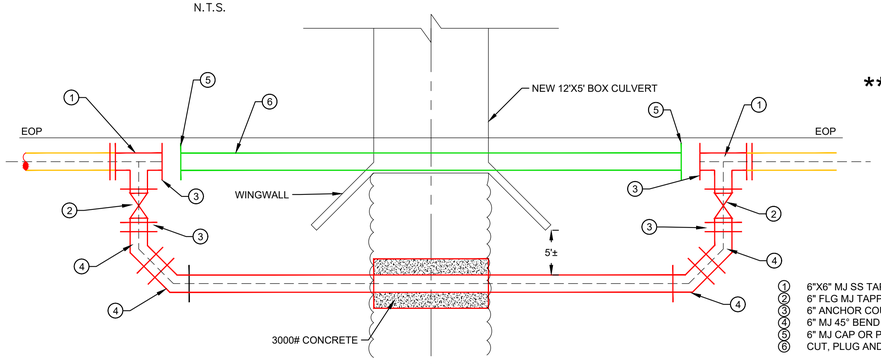
BETWEEN SR-8 SCH 13 35SY

SCHEDULE

1. EXISTING 2-INCH STEEL
2. 2-INCH TAPPING SADDLE & 2-INCH TAPPING VALVE
3. 2-INCH PIPE PACK JOINT COUPLING
4. CUT AND PLUG 2-INCH
5. 6-INCH DIP
6. 6-INCH TAPPED TEE W/2-INCH TAP
7. 2-INCH THD GATE VALVE
8. 6-INCH ANCHOR COUPLING
9. 6-INCH MJ GATE VALVE
10. ONE JOINT OF PIPE
11. JOINT RESTRAINT
12. 6-INCH MJ PLUG
13. 2 FT X 2 FT X 4 FT PRECAST CONCRETE ANCHOR
14. 2-INCH PVC SDR 17, CLASS 250

CONNECTION TO 2-INCH WATER

N.T.S.



NOTE:
CONTRACTOR PLACE 6oz FABRIC BELOW RIPRAP

1. 6"X6" MJ SS TAPPING SLEEVE (2 REQ'D)
2. 6" FLG MJ TAPPING VALVE (2 REQ'D)
3. 6" ANCHOR COUPLING OR FOSTER ADAPTER (4 REQ'D)
4. 6" MJ 45° BEND (4 REQ'D)
5. 6" MJ CAP OR PLUG (2 REQ'D)
6. CUT, PLUG AND ABANDON AND REMOVE

TO REMAIN IN PLACE
REMOVE OR ABANDON
NEW CONSTRUCTION

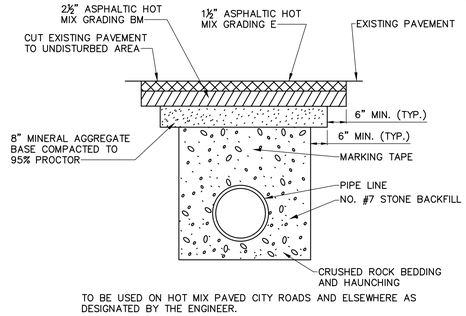
BRANCH CROSSING - PALISADES DRIVE

ITEM 795-13.05
PALISSADES RD STA 23+60±
N.T.S.

TO BE USED ON HOT MIX PAVED DRIVEWAYS AND PARKING AREAS AND ELSEWHERE AS DESIGNATED BY THE ENGINEER.

PAVEMENT REPLACEMENT DETAIL (ASPHALT DRIVEWAYS AND PARKING AREAS)

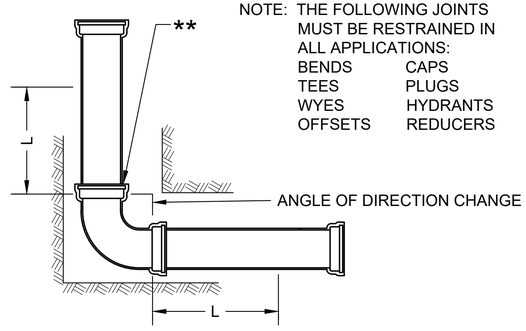
NOT TO SCALE



TO BE USED ON HOT MIX PAVED CITY ROADS AND ELSEWHERE AS DESIGNATED BY THE ENGINEER.

PAVEMENT REPLACEMENT DETAIL (CITY & COUNTY ROADS)

NOT TO SCALE



PLAN

NOTE: THE FOLLOWING JOINTS MUST BE RESTRAINED IN ALL APPLICATIONS:

BENDS	CAPS
TEES	PLUGS
WYES	HYDRANTS
OFFSETS	REDUCERS

** MECHANICAL JOINTS SHALL BE RESTRAINED WITH EBAA MEG-A-LUG SERIES 1100, UNI-FLANGE SERIES 1400, OR APPROVED EQUAL. PUSH-ON JOINTS SHALL BE RESTRAINED WITH EBBA MEG-A-LUG SERIES 1700, U.S. PIPE FIELD LOK 350 GASKET (WITH U.S. PIPE TYTON PIPE OR FITTINGS), AMERICAN DUCTILE IRON PIPE'S FAST GRIP GASKET (WITH STANDARD AMERICAN DUCTILE IRON FASTITE PIPE), OR APPROVED EQUAL.

RESTRAINED JOINT DETAIL

N.T.S.

COMBINED VERTICAL OBJECT (UNDER OBJECT)

N.T.S.

NOTES:

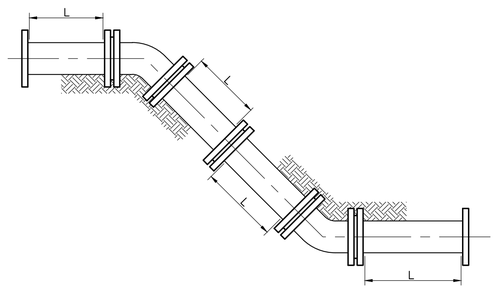
1. IF POLYETHYLENE-WRAPPED DUCTILE IRON PIPE IS INSTALLED, MULTIPLY THE RESTRAINED LENGTHS SHOWN IN THE TABLES BY:
   1.21 FOR HORIZONTAL AND VERTICAL UP (ENCROACHING AND NON-ENCROACHING) BENDS.
   1.43 FOR VERTICAL DOWN (ENCROACHING AND NON-ENCROACHING) BENDS, REDUCERS, TEES, VALVES, AND DEAD-ENDS.
2. THE RESTRAINED LENGTHS SHOWN FOR REDUCERS ARE BASED ON A REDUCTION OF ONE SIZE DOWN (I.E. 8 TO 6, 4 TO 3, ETC.). IF A REDUCTION GREATER THAN ONE SIZE DOWN IS NECESSARY, SEE THE ENGINEER FOR THE REQUIRED RESTRAINED LENGTH.
3. THE RESTRAINED LENGTHS SHOWN IN THE TABLE ARE BASED ON RESULTS FROM THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) THRUST RESTRAINT PROGRAM, ASSUMING A WORST CASE SOIL CONDITION FOR EACH BEDDING CONDITION AND DESIGN PRESSURE.

PAVING NOTES

1. COST OF SAW CUTTING, COMPACTING, MINERAL AGGREGATE, HOT MIX, ETC. TO BE INCLUDED IN THE UNIT PRICE FOR ASPHALT OR OTHER PAVEMENT REPLACEMENT IN THE BID SCHEDULE.
2. IT IS THE INTENTION OF THE OWNER TO INSTALL ALL LINES OUT OF PAVEMENT IF POSSIBLE, IN ROAD SHOULDERS OR DITCHES; IF LINE IS INSTALLED UNDER PAVEMENT FOR CONVENIENCE OF CONTRACTOR, NO SEPARATE PAYMENT WILL BE MADE FOR EXTRA PAVEMENT AND CRUSHED ROCK BACKFILL REQUIRED.
3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ROAD CUT PERMITS PRIOR TO CUTTING ROADWAY PAVEMENTS.

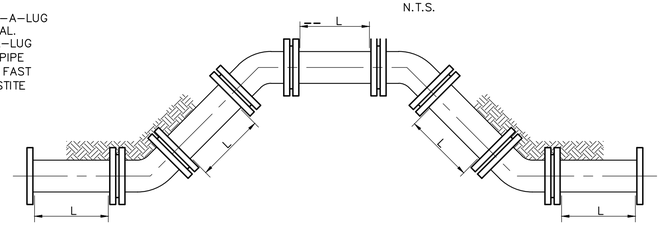
VERTICAL DOWN (NON-ENCROACHING)

N.T.S.



VERTICAL UP (NON-ENCROACHING)

N.T.S.

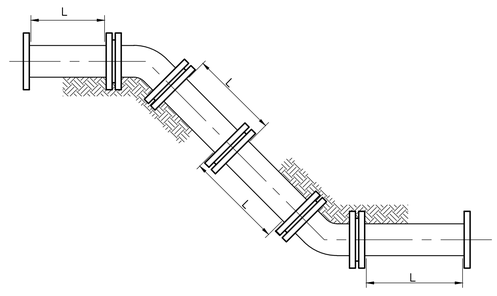


COMBINED VERTICAL OBJECT (OVER OBJECT)

N.T.S.

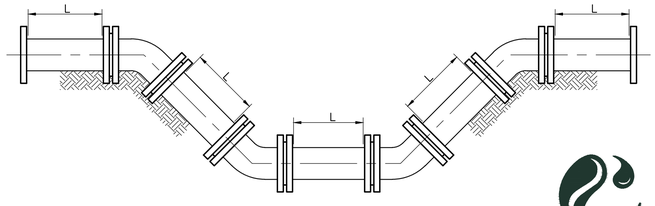
VERTICAL DOWN (ENCROACHING)

N.T.S.



VERTICAL UP (ENCROACHING)

N.T.S.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETAILS

CTIENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

DATE OF PRINT: 7/28/2026 6:52 PM

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-1

HAMILTON COUNTY WATER AND WASTEWATER TREATMENT AUTHORITY
SIGNAL MOUNTAIN
GRAVITY SEWER REHABILITATION

DRAWING INDEX

SHT	DWG	DESCRIPTION
1	U4-1	COVER SHEET
2	U4-2	GENERAL NOTES
3	U4-3	DRAWING INDEX / OVERALL PLAN
4	U4-4	PLAN SIGNAL MOUNTAIN GRAVITY SEWER REHABILITATION STA 00+00 THROUGH STA 13+00
5	U4-5	PLAN SIGNAL MOUNTAIN GRAVITY SEWER REHABILITATION STA 13+00 THROUGH STA 26+75
6	U4-6	PLAN SIGNAL MOUNTAIN GRAVITY SEWER REHABILITATION STA 26+75 THROUGH STA 37+43 STA 00+00 TO 06+75
7	U4-7	PROFILE SIGNAL MOUNTAIN GRAVITY SEWER REHABILITATION STA 00+00 THROUGH STA 13+00
8	U4-8	PROFILE SIGNAL MOUNTAIN GRAVITY SEWER REHABILITATION STA 13+00 THROUGH STA 26+75
9	U4-9	PROFILE SIGNAL MOUNTAIN GRAVITY SEWER REHABILITATION STA 26+75 THROUGH STA 37+43 STA 00+00 TO 06+75
10	U4-10	MH #28A RELOCATION AT MUSHROOM WAY
11	U4-11	PIPE SCHEDULE
12	U4-12	MANHOLE SCHEDULE
13	U4-13	TDOT STANDARD DETAILS SHEET 1 OF 2
14	U4-14	TDOT STANDARD DETAILS SHEET 2 OF 2
15	U4-15	CONSTRUCTION DETAILS SHEET 1 OF 2
16	U4-16	CONSTRUCTION DETAILS SHEET 2 OF 2

WWTA BOARD

ALICE CANNELLA, CHAIR
WAYNE BEHLAU, VICE-CHAIR
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STEVE LEACH, COMMISSIONER
MAX LOWE, COMMISSIONER

EXECUTIVE DIRECTOR

MICHAEL PATRICK, P.E.

ERIC BROOKS, P.E. CHIEF ENGINEER

THESE PLANS HAVE BEEN REVIEWED AND ARE APPROVED FOR RELEASE BY THE WWTA

ERIC BROOKS, P.E. CHIEF ENGINEER DATE

TDOT Item No.	Item Description	Unit	Quantity	
797-01.53	VENT PIPE ASSEMBLY	EACH	2	Footnote 18
797-04.60	8IN DIP REST JNT GAV SEWR 0FT-6FT	LF	50	Footnote 1
797-04.64	10IN DIP REST JNT GRAV SEWR 0FT-6FT DPTH	LF	50	Footnote 1
797-05.41	6IN DIP SERVICE LATERAL	LF	85	Footnote 22
797-05.45	10IN CURED IN PLACE PIPE (CIPP)	LF	583	Footnote 17
797-05.46	12IN CURED IN PLACE PIPE (CIPP)	LF	3,508	Footnote 17
797-05.49	CIPP LABORATORY TESTING	LS	1	Footnote 21
797-07.01	48IN MANHOLE 0FT-4FT DEPTH	EACH	3	Footnote 4
797-07.02	48IN MANHOLE 4FT-6FT DEPTH	EACH	2	Footnote 4
797-07.03	48IN MANHOLE, 6'-8' DEPTH	EACH	1	Footnote 4
797-07.56	MANHOLE DROP CONNECTION ASSEMBLY	EACH	2	Footnote 6
797-07.80	REMOVE SEWER MANHOLE	EACH	1	Footnote 20
797-11.10	48IN MANHOLE REHABILITATION	VF	85	Footnote 13
797-11.31	RETIRE IN PLACE EXISTING SEWER 8IN-14IN	LF	35	Footnote 9
797-11.38	BY-PASS PUMPING	LS	1	Footnote 8
797-11.39	TV INSPECTION	LF	8,182	Footnote 15
797-11.50	FRAME AND COVER (WATERTIGHT)	EACH	14	Footnote 23
797-40.01	CONCRETE ENCASEMENT	LF	105	Footnote 24

FOOTNOTES

1. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE EXCAVATION INCLUDING BUT NOT LIMITED TO BEDDING, BACKFILLING, THRUST BLOCKING, PIPE FUSION, APPURTENANCES, FLOWABLE FILL, MAINTAINING THE TRENCH, TESTING, CHECK DAMS, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE FOR GRAVITY SEWER LINES OR FORCE MAINS AS SPECIFIED ON THE PLANS. DUCTILE IRON PIPE GRAVITY SEWER LINES SHALL BE EPOXY LINED.

4. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY FOR INSTALLATION OF PRECAST MANHOLE BOTH PREFORMED BASE OR OPEN BOTTOM (DOGHOUSE), INCLUDING BUT NOT LIMITED TO VENT ASSEMBLY (WHERE REQUIRED), CRUSHED STONE, PIPE TO MANHOLE CONNECTORS, EXCAVATION, BACKFILL, BUTYL RESIN GASKET, MANHOLE STEPS, ASPHALTIC WATERPROOFING, FRAME AND COVER, AND TRAFFIC CONTROL.

6. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT, INCLUDING, BUT NOT LIMITED TO MACHINERY, TOOLS, OR APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBLIES AS DESCRIBED AND DETAILED IN THE PLANS AND SPECIFICATIONS.

8. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR INTERNAL OR EXTERNAL POINT REPAIRS AS SPECIFIED ON THE BID FORM.

9. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR RETIRE IN PLACE OR REMOVE ITEMS AS SPECIFIED ON THE BID FORM INCLUDING TRAFFIC CONTROL.

13. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE REHABILITATION OF MANHOLE BUT NOT LIMITED TO STRUCTURAL REPAIR, SEALING/COATING OF INTERIOR, AND TESTING.

15. INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, CLEANING OF SEWER LINE ROOT REMOVAL IF REQUIRED, SEWER FLOW CONTROL, TELEVISION INSPECTION, WRITTEN LOG, COPY OF INSPECTION DVD, AND ALL APPURTENANCES COMPLETE IN PLACE. THIS ITEM DESCRIPTION IS TO BE USED FOR PRE- AND POST-TELEVISION INSPECTION

17. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INSTALLATION OF CIPP INCLUDING BUT NOT LIMITED TO TESTING, REHABILITATION WORK, AND ANY INCIDENTAL ITEMS REQUIRED TO COMPLETE FOR SEWER LINES AS SPECIFIED ON THE PLANS. NO ADDITIONAL PAYMENT WILL BE MADE FOR BYPASS PUMPING, SPECIAL METHODS, MEANS, TECHNIQUES, OR EQUIPMENT NECESSARY FOR COMPLIANCE WITH PROJECT REQUIREMENTS. MEASUREMENT SHALL BE FROM CENTERLINE OF MANHOLE TO CENTERLINE OF MANHOLE.

18. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INSTALLATION OF VENT PIPE ASSEMBLY INCLUDING BUT NOT LIMITED TO EXCAVATION, BACKFILL, PIPE, FITTINGS, SUPPORTS, CONCRETE BASE OR PAD (WHERE REQUIRED), CONNECTIONS TO MANHOLE OR STRUCTURE, VENT CAP, COATINGS, CORROSION PROTECTION, TRAFFIC CONTROL, TESTING, AND ANY INCIDENTAL WORK NECESSARY TO COMPLETE THE VENT ASSEMBLY IN PLACE AS SHOWN ON THE PLANS.

20. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE REMOVAL OF EXISTING SEWER MANHOLE INCLUDING BUT NOT LIMITED TO DEMOLITION OF FRAME, COVER, RISERS, AND STRUCTURE; REMOVAL AND DISPOSAL OF ALL DEBRIS; DISCONNECTION OR PLUGGING OF EXISTING PIPES AS REQUIRED; BACKFILLING AND COMPACTION.

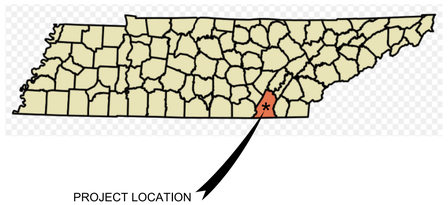
21. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE CIPP LABORATORY TESTING INCLUDING BUT NOT LIMITED TO SAMPLE COLLECTION, PREPARATION, SHIPPING, LABORATORY FEES, PHYSICAL PROPERTY TESTING, REPORTING, CERTIFICATION OF RESULTS.

22. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INSTALLATION OR REPLACEMENT OF SEWER SERVICE LATERAL INCLUDING BUT NOT LIMITED TO EXCAVATION, BEDDING, PIPE, FITTINGS, CONNECTION TO MAIN LINE OR MANHOLE, CLEANOUTS, BACKFILL, COMPACTION, SURFACE RESTORATION INCLUDING ASPHALT, CONCRETE, OR LANDSCAPING, TESTING, TRAFFIC CONTROL, AND ANY INCIDENTAL WORK NECESSARY TO COMPLETE THE SERVICE LATERAL IN PLACE AS SHOWN ON THE PLANS.

23. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INSTALLATION OF NEW MANHOLE WITH WATERTIGHT FRAME AND COVER INCLUDING BUT NOT LIMITED TO EXCAVATION, DEWATERING, BEDDING, BASE PREPARATION, PRECAST SECTIONS, CONES, RISERS, PIPE CONNECTIONS, BOOTS OR CONNECTORS, INTERNAL AND EXTERNAL SEALING, INSTALLATION OF WATERTIGHT FRAME AND COVER, GASKETS, SEALANTS, GROUTING, BACKFILL, COMPACTION, ASPHALT OR CONCRETE SURFACE RESTORATION, TRAFFIC CONTROL, TESTING, AND ANY INCIDENTAL WORK NECESSARY TO COMPLETE THE MANHOLE IN PLACE AS SHOWN ON THE PLANS AND ON MANHOLE SCHEDULE SHEET U4-12.

24. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE SEWER CONCRETE ENCASEMENT INCLUDING BUT NOT LIMITED TO EXCAVATION, BEDDING, FORMING, REINFORCEMENT (WHERE REQUIRED), CONCRETE PLACEMENT, FINISHING, CURING, PIPE SUPPORT AND ALIGNMENT, BACKFILL, COMPACTION, SURFACE RESTORATION INCLUDING ASPHALT OR CONCRETE, TRAFFIC CONTROL, AND ANY INCIDENTAL WORK NECESSARY TO COMPLETE THE ENCASEMENT IN PLACE AS SHOWN ON THE PLANS.

MAY 2026



B-DATE SET

R.O.W. PLANS

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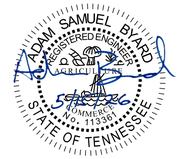

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Jacobs

WATER & WASTEWATER TREATMENT AUTHORITY ESTD 1993 WWTA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION
COVER SHEET

GENERAL NOTES TO CONTRACTOR

STANDARD UTILITY NOTES

(1) EXCEPT FOR EROSION AND SEDIMENT CONTROL ITEMS, NO ROADWAY OR BRIDGE ITEMS SHALL BE UTILIZED TO COMPENSATE FOR WORK METHODS OR MATERIALS ASSOCIATED WITH AND/OR SPECIFIED FOR THE UTILITY INSTALLATION, EVEN THOUGH THE SAME OR SIMILAR ROADWAY OR BRIDGE MATERIALS MAY HAVE BEEN CALLED FOR IN THE UTILITY SPECIFICATIONS OR DRAWINGS.

(2) ALL MATERIALS, METHODS, AND/OR INTEGRAL MATERIALS OUTLINED IN THE UTILITY SPECIFICATIONS OR DRAWINGS NECESSARY TO PROVIDE COMPLETE AND FUNCTIONAL INSTALLATION MUST BE INCLUDED IN THE UNIT PRICE FOR THE ASSOCIATED UTILITY WORK ITEM.

(3) THE CONTRACTOR MUST MAINTAIN ALL SERVICES DURING THE CONSTRUCTION OF THE RELOCATED FACILITY. ANY COSTS ASSOCIATED WITH INSTALLATION OF REQUIRED TEMPORARY SERVICE LINES DUE TO THE ROADWAY CONSTRUCTION SEQUENCE OF WORK (I.E., CUTS, FILLS, PHASING, ETC.) SHALL BE INCLUDED IN THE COST OF THE PERMANENT UTILITY ITEMS. (NOTE TO UTILITY: A SPECIFICTEMPORIZATION ITEM CAN BE INCLUDED IN THE PLANS IF IT IS A MAJOR ITEM OF WORK).

(4) IT SHALL BE THE RESPONSIBILITY OF THE PRIME CONTRACTOR'S SURVEYOR TO LAY OUT ALL THE FACILITIES BEING RELOCATED WITHIN THE CONTRACT.

(5) FOR BURIED UTILITIES, THE PRIME CONTRACTOR OR HIS SUBCONTRACTOR SHALL BE REQUIRED TO PROVIDE TO THE UTILITY UPON COMPLETION OF THE UTILITY'S RELOCATION WORK A SET OF AS-BUILT DRAWINGS FOR THEIR RECORDS. THESE AS-BUILT DRAWINGS SHOULD BE PREPARED AS THE JOB PROGRESSES TO ENSURE THEIR ACCURACY.

(6) WHERE EROSION CONTROL MEASURES ARE NEEDED FOR THE UTILITY RELOCATION WORK OCCURRING INSIDE OR OUTSIDE STATE RIGHT-OF-WAY, THE CONTRACTOR SHALL SUBMIT TO THE TDOT PROJECT SUPERVISOR FOR APPROVAL A PROPOSED EROSION AND SEDIMENT CONTROL PLAN PRIOR TO BEGINNING THE WORK. TDOT APROVAL MUST BE RECEIVED BEFORE THE EROSION CONTROL PAY ITEMS FOR ROADWAY CONSTRUCTION CAN BE USED FOR ANY ADDITIONAL EROSION CONTROL MEASURES REQUIRED FOR THE UTILITY RELOCATION WORK.

(7) DRIVEWAY, SIDEWALK AND ROADWAY TEMPORARY RESTORATION SHALL BE PART OF THE IN-PLACE COST OF PLACING THE UTILITY ITEM WITHIN THE ROW.

(8) ANY EXCAVATION OF THE STREAM CHANNEL AREA SHALL BE SEPARATED FROM FLOWING WATER AND ACCOMPLISHED DURING LOW FLOW CONDITIONS. THIS SHALL BE ACCOMPLISHED BY THE USE OF FLUMES, LINED DIVERSION CHANNEL WITH SANDBAG BERM, DIVERSION PIPE WITH SANDBAG DAM AT PIPE INLET, OR IN SOME CASES COFFERDAMS. ALTERNATIVELY, BASED ON FIELD CONDITIONS AND CONTRACTOR SELECTION, THE UTILITY RELOCATION MAY BE ACCOMPLISHED USING BORE TECHNOLOGY WITH NO STREAM CHANNEL IMPACTS.

DAMAGES TO EXISTING UTILITIES

(9) REPAIRS AND/OR REPLACEMENTS TO ANY UTILITIES DAMAGED BY CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO ADDITIONAL PAYMENT WILL BE ALLOWED.

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL ACCESS REQUIRED ON THE PROJECT.

2. ALL SPECIFICATIONS, DRAWINGS, AND DETAILS INCLUDED IN THE CONTRACT DOCUMENTS SHALL FULLY APPLY TO THE WORK WHETHER SPECIFICALLY REFERENCED OR NOT.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL STATE, LOCAL AND TDOT REQUIREMENTS FOR ALL TRAFFIC CONTROL ACTIVITIES. NO ADDITIONAL PAYMENT WILL BE MADE FOR THESE ACTIVITIES. COSTS ASSOCIATED WITH TRAFFIC CONTROL SHALL BE CONSIDERED INCIDENTAL TO OTHER BID ITEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL PERMITS AND ANY APPLICABLE WORK ZONE PERMIT REQUIREMENTS PER WWTA OR SURROUNDING AUTHORITIES.

4. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, SIZE, AND CONDITION OF ALL EXISTING UTILITIES LOCATED WITHIN THE CONSTRUCTION SITE. ANY CONFLICTS OR CONCERNS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER WITHIN 10 DAYS. NO RESPONSIBILITY IS ASSUMED BY THE OWNER OR ENGINEER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY ALL POTENTIAL UTILITY OWNERS WHOSE FACILITIES WILL BE AFFECTED TO DETERMINE UTILITY LOCATIONS. THE CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE CAUSED BY HIS OPERATIONS OR THOSE OF HIS AGENTS.

5. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL MANHOLES AND SEWER LINES.

6. CONTRACTOR IS RESPONSIBLE TO PROVIDE AND MAINTAIN ADEQUATE DEWATERING AND GROUNDWATER CONTROL.

7. CONTRACTOR SHALL COORDINATE WITH SIGNAL MOUNTAIN WATER UTILITY FOR ACCESS TO HYDRANTS FOR POTABLE WATER. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS AND PAYING FOR ALL FEES AND COST OF USAGE.

8. PRIOR TO BEGINNING WORK, CONTRACTOR SHALL VERIFY ALL DIMENSIONS.

9. ANY IMPROVEMENTS NECESSARY TO OBTAIN ACCESS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE CONSIDERED INCIDENTAL AND NO DIRECT PAYMENT WILL BE MADE. CONTRACTOR IS RESPONSIBLE FOR OBTAINING WRITTEN AND SIGNED RIGHT OF ENTRY AGREEMENTS FROM ALL LANDOWNERS OF PROPERTY THAT WILL BE USED OR IMPACTED BY THE PROJECT FOR ANY REASON. CONTRACTOR SHALL SUBMIT A RIGHT OF ENTRY AGREEMENT TO THE OWNER FOR REVIEW PRIOR TO USING IT FOR THE PROJECT. SUBMIT TO OWNER A COPY FOR ALL SIGNED RIGHT OF ENTRY AGREEMENTS. UPON COMPLETION OF WORK AND RESTORATION OF THE PROJECT SITE, CONTRACTOR SHALL OBTAIN A SIGNED CERTIFICATE OF PROPERTY RESTORATION FORM FROM ALL PROPERTY OWNERS FOR WHICH A RIGHT OF ENTRY AGREEMENT WAS SUBMITTED.

10. CONTRACTOR IS RESPONSIBLE FOR OBTAINING WRITTEN AGREEMENTS FROM LANDOWNERS OF PROPERTY THAT WILL BE USED FOR EQUIPMENT OR MATERIAL STORAGE AND STAGING. PROVIDE THE OWNER WITH A COPY OF THESE WRITTEN AGREEMENTS.

11. PLAN DIMENSIONS FOR SEWER LINES ARE FROM EXISTING ACCESS MANHOLE TO EXISTING ACCESS MANHOLE AND MAY DIFFER FROM BID FORM QUANTITIES, WHICH ARE BASED UPON ESTIMATED INSTALLED LINER LENGTHS THAT LINE THROUGH EXISTING MANHOLES AS NOTED ON PLANS.

12. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS DESCRIBED IN THE PERMITS CONTAINED IN THE SPECIFICATIONS.

13. BYPASS PUMPING:
13.1 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BYPASS PUMPING AS REQUIRED FOR THE PROJECT.

14. CONTRACTOR IS TO UTILIZE WATER CURING (OR UV AS ALTERNATE) FOR CIPP LINER; STEAM CURING WILL NOT BE ALLOWED UNLESS OTHERWISE SPECIFIED BY OWNER.

15. CONTRACTOR SHALL SAVE MANHOLE FRAMES AND COVERS AND RELOCATE THEM TO AN AGREED UPON LOCATION PER THE OWNER'S REQUEST.

16. CONTRACTOR IS RESPONSIBLE FOR ALL SITE RESTORATION AS REQUIRED.

17. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL TEMPORARY CONSTRUCTION EASEMENTS AS REQUIRED FOR THE PROJECT WORK.

18. CONTRACTOR SHALL LOCATE AND INSPECT MANHOLES PRIOR TO REHABILITATION. ENGINEER SHALL BE NOTIFIED OF ANY DROP MANHOLES PRIOR TO CONTRACTOR ORDERING MATERIALS.

19. CONTRACTOR IS RESPONSIBLE TO CONTROL STYRENE ODORS IN ACCORDANCE WITH NIOSH AND OSHA REGULATIONS DURING CURED-IN-PLACE PIPE INSTALLATION. SEE SPECIFICATION 33 01 30.70 FOR SPECIFIC ODOR CONTROL AND AIR QUALITY CONTROL MEASURES.

20. THE CONTRACTOR SHALL HOLD WWTA HARMLESS FOR ANY THIRD-PARTY INCONVENIENCE CREATED BY WORK OF HIS OWN FORCES OR THAT OF HIS AGENTS. ANY DAMAGES INCURRED SHALL BE THE CONTRACTOR'S FINANCIAL RESPONSIBILITY.

21. FOR SEGMENTS DESIGNATED FOR CIPP LINING, THE CONTRACTOR IS RESPONSIBLE TO VERIFY LOCATIONS OF SERVICE LATERALS, TO DETERMINE WHICH SERVICE LATERALS ARE ACTIVE, AND WHICH ARE ABANDONED. EACH SERVICE LATERAL THAT IS FOUND TO BE ACTIVE SHALL BE CUT OPEN. SERVICE LATERALS THAT ARE FOUND TO BE ABANDONED SHALL FIRST BE CONFIRMED BY THE ENGINEER AND WWTA, AND IF VERIFIED SHALL BE LINED THROUGH AND NOT CUT OPEN.

22. CONTRACTOR IS RESPONSIBLE TO INDICATE LOCATIONS OF ALL SERVICE LATERALS ON THE RECORD DRAWINGS WITH DIRECTION AND DISTANCE FROM UPSTREAM MANHOLE. EACH SERVICE LATERAL SHALL BE LABELED AS "CUT OPEN AFTER CIPP" OR "LINED THROUGH."

23. IF UTILITY RELOCATIONS ARE REQUIRED TO PERFORM THE WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY OWNER AND COORDINATE THE TEMPORARY OR PERMANENT RELOCATION. THE CONTRACTOR SHALL COORDINATE ANY RELOCATION WORK WITH VARIOUS UTILITY OWNERS SO AS NOT TO ADVERSELY AFFECT THE PROJECT SCHEDULE. WWTA WILL NOT BE HELD RESPONSIBLE FOR ANY DELAY OR DISRUPTIONS TO THE WORK SCHEDULE OF OTHER UTILITY OWNERS. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE OTHER ITEMS OF CONSTRUCTION.

GENERAL NOTES (CONTINUED)

24. UTILITY OWNERS ARE TO RESET, RELAY, OR ADJUST, AT THEIR OWN EXPENSE, POWER AND TELEPHONE LINES, POWER POLES, WATER AND GAS LINES, AND ALL OTHER FACILITIES INCLUDING METERS, VALVES, PITS, ETC., CONFLICTING WITH THE PROPOSED IMPROVEMENTS WITHIN THE EXISTING SEWER RIGHT-OF-WAY. ALL RELOCATED POLES, METERS, VALVES, ETC., ARE TO BE LOCATED BEHIND THE SIDEWALK OR ON THE RIGHT-OF-WAY LINE.

25. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITY OWNERS PRIOR TO SUBMITTING THEIR BID, SO THAT HE MAY DETERMINE THE EXTENT OF DELAYS THAT UTILITY RELOCATIONS AND/OR ADJUSTMENTS MAY HAVE UPON THE SCHEDULING OF WORK FOR THE PROJECT. SOME UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE OPERATIONS, WHILE SOME WORK MAY BE REQUIRED AROUND UTILITY FACILITIES THAT SHALL REMAIN IN PLACE. IT IS SPECIFIED AND AGREED THAT THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS OR INCONVENIENCE CAUSED BY UTILITY ADJUSTMENTS.

26. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY OWNERS PRIOR TO INTERRUPTING ANY GAS, WATER, ELECTRIC, OR SEWER SERVICES. THE CONTRACTOR SHALL ALSO NOTIFY THE AFFECTED UTILITY CUSTOMERS AT LEAST 24 HOURS BEFORE INTERRUPTING THE CUSTOMER'S SERVICE. WHERE INDIVIDUAL SERVICES ARE TO BE DISCONTINUED FOR MORE THAN 4 HOURS THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR PROVIDING TEMPORARY SERVICE SATISFACTORY TO THE AFFECTED CUSTOMER. THE REPAIR OR REPLACEMENT OF UTILITY COMPONENTS SHALL CONFORM TO ALL THE APPLICABLE REQUIREMENTS OF THE UTILITY OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THESE ACTIVITIES, AND COMPENSATION SHALL BE INCLUDED IN THE CONTRACT BID ITEMS.

27. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. SHOULD SPECIAL EQUIPMENT BE REQUIRED TO WORK OVER AND AROUND THE UTILITIES,THE CONTRACTOR SHALL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FROM FURNISHING SPECIAL EQUIPMENT SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

28. SHOULD ANY SANITARY SEWER FORCE MAINS BE ENCOUNTERED DURING THE CONSTRUCTION, THE CONTRACTOR SHALL STOP EXCAVATION IN THE AREA AND IMMEDIATELY NOTIFY WWTA.

29. THE OWNER MAKES NO REPRESENTATIONS ABOUT SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED WITHIN THE LIMITS OF THE PROJECT. THEREFORE, THE CONTRACTOR SHOULD SATISFY HIMSELF BY ON-SITE INSPECTIONS, CORE DRILLINGS, OR OTHER METHODS, OF THE SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED. THE RISK OF ENCOUNTERING AND CORRECTING UNFAVORABLE SUBSURFACE CONDITION SHALL BE BORNE BY THE CONTRACTOR. ANY PERMITS REQUIRED FOR SUBSURFACE INVESTIGATION(S) SHALL BE OBTAINED BY THE CONTRACTOR.

30. ALL UNSUITABLE MATERIAL, AS DETERMINED BY THE ENGINEER OR THROUGH TESTING, IS TO BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.

31. THE COST OF REMOVING, HAULING, AND DISPOSAL OF UNSUITABLE MATERIAL SHALL BE INCLUDED IN THE UNSUITABLE AND HAZARDOUS MATERIAL REMOVAL AND DISPOSAL PAY ITEM.

32 CONTRACTOR TO STAY WITHIN 20' PRESCRIPTIVE SEWER EASEMENT OR OBTAIN TEMPORARY CONSTRUCTION EASEMENT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-2

R.O.W.
PLANS

SECTION / DETAIL DESIGNATIONS

SECTION (LETTER) OR DETAIL (NUMERAL) DESIGNATION

DRAWING NUMBER (REPLACED WITH A LINE IF TAKEN AND SHOWN ON SAME SHEET)

ON DRAWING WHERE SECTION OR DETAIL IS TAKEN:
DRAWING NUMBER WHERE SHOWN

ON DRAWING WHERE SECTION IS SHOWN:
DRAWING NUMBER(S) WHERE TAKEN

ON DRAWING WHERE DETAIL IS SHOWN:
DRAWING NUMBER(S) WHERE TAKEN

SECTION
SCALE

DETAIL
SCALE

DRAWING TITLE
SCALE

ON DRAWING WHERE ONLY A TITLE IS REQUIRED WITH NO REFERENCE (e.g.: ELEVATIONS)

SECTION CALLOUT WHERE SECTION IS ON THE SAME SHEET AND CUT EXTENDS TO A FIXED LIMIT

SECTION CALLOUT WHERE SECTION IS ON ANOTHER SHEET AND CUT EXTENDS THROUGHOUT ENTIRE SHEET

GRID LINE INDICATOR

KEYNOTE NUMBER

REVISION / ADDENDA NUMBER

ABBREVIATIONS

B.O.P.	BOTTOM OF PIPE
CIPP	CURED-IN-PLACE PIPE
CIP	CAST IRON PIPE
CONC	CONCRETE
CONST.	CONSTRUCTION
DIP	DUCTILE IRON PIPE
EX.	EXISTING
LF	LINEAR FEET
MH	MANHOLE
PERM.	PERMANENT
PROP	PROPOSED
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
R.O.W.	RIGHT OF WAY
STA	STATION
UNK	UNKNOWN

SEALED BY

ADAM SAMUEL BYARD
REGISTERED ENGINEER
AGRICULTURE
NUMBER 113361
STATE OF TENNESSEE

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Jacobs

WATER & WASTEWATER TREATMENT AUTHORITY
ESTD 1993
WWTA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

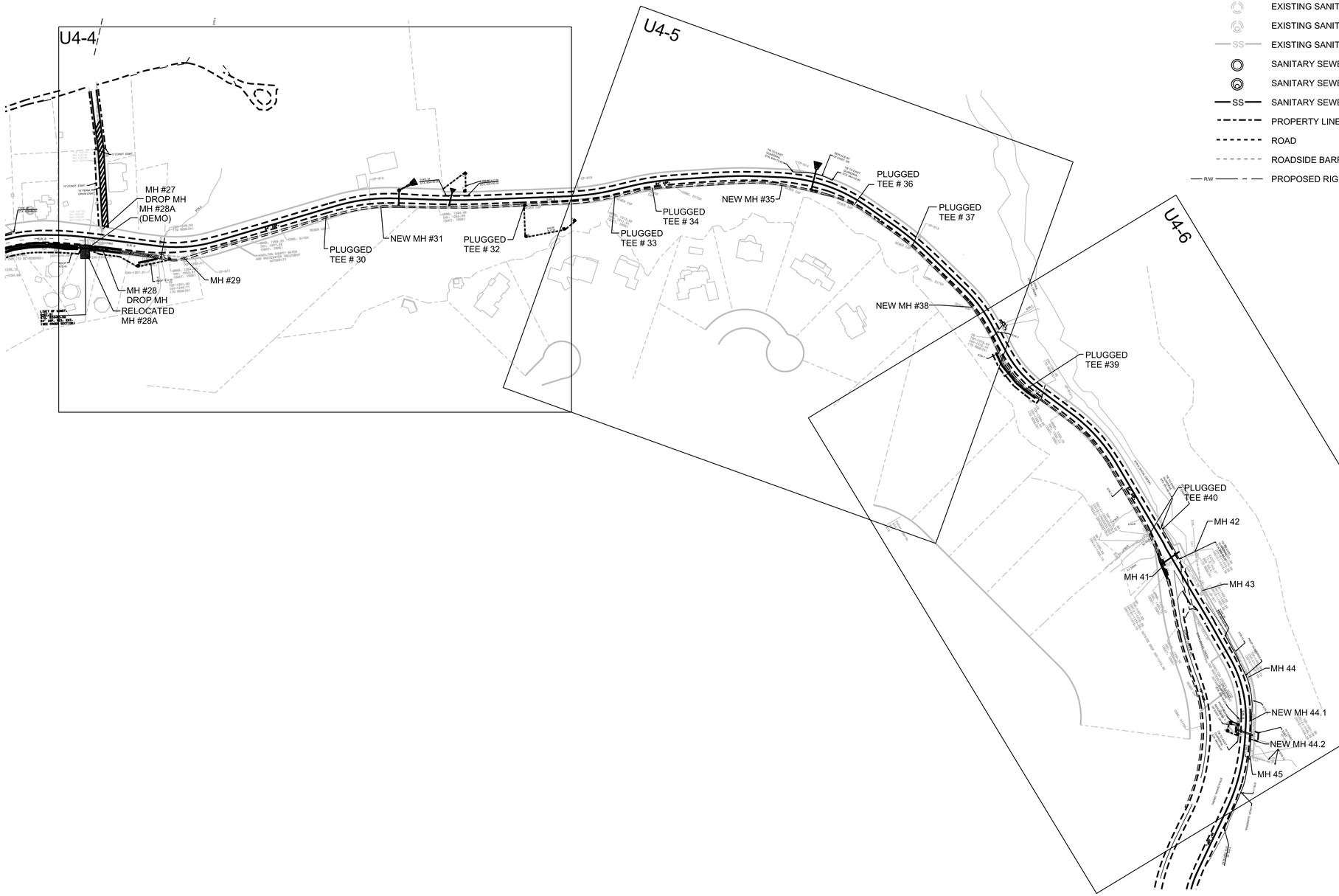
GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-3

LEGEND:

- MATCHLINE
- EXISTING DRAINAGE DITCH
- PROPOSED DRAINAGE STRUCTURE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER DROP MANHOLE
- SS — EXISTING SANITARY SEWER GRAVITY MAIN
- SANITARY SEWER MANHOLE
- SANITARY SEWER DROP MANHOLE
- SS — SANITARY SEWER LINE
- PROPERTY LINE
- ROAD
- ROADSIDE BARRIER
- R/W — PROPOSED RIGHT-OF-WAY

R.O.W. PLANS



OVERALL SEWER ALIGNMENT FOR REHABILITATION
1"= 1800'

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ESTD 1993
WWTA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

OVERALL PLAN

SCALE: 1"=50'

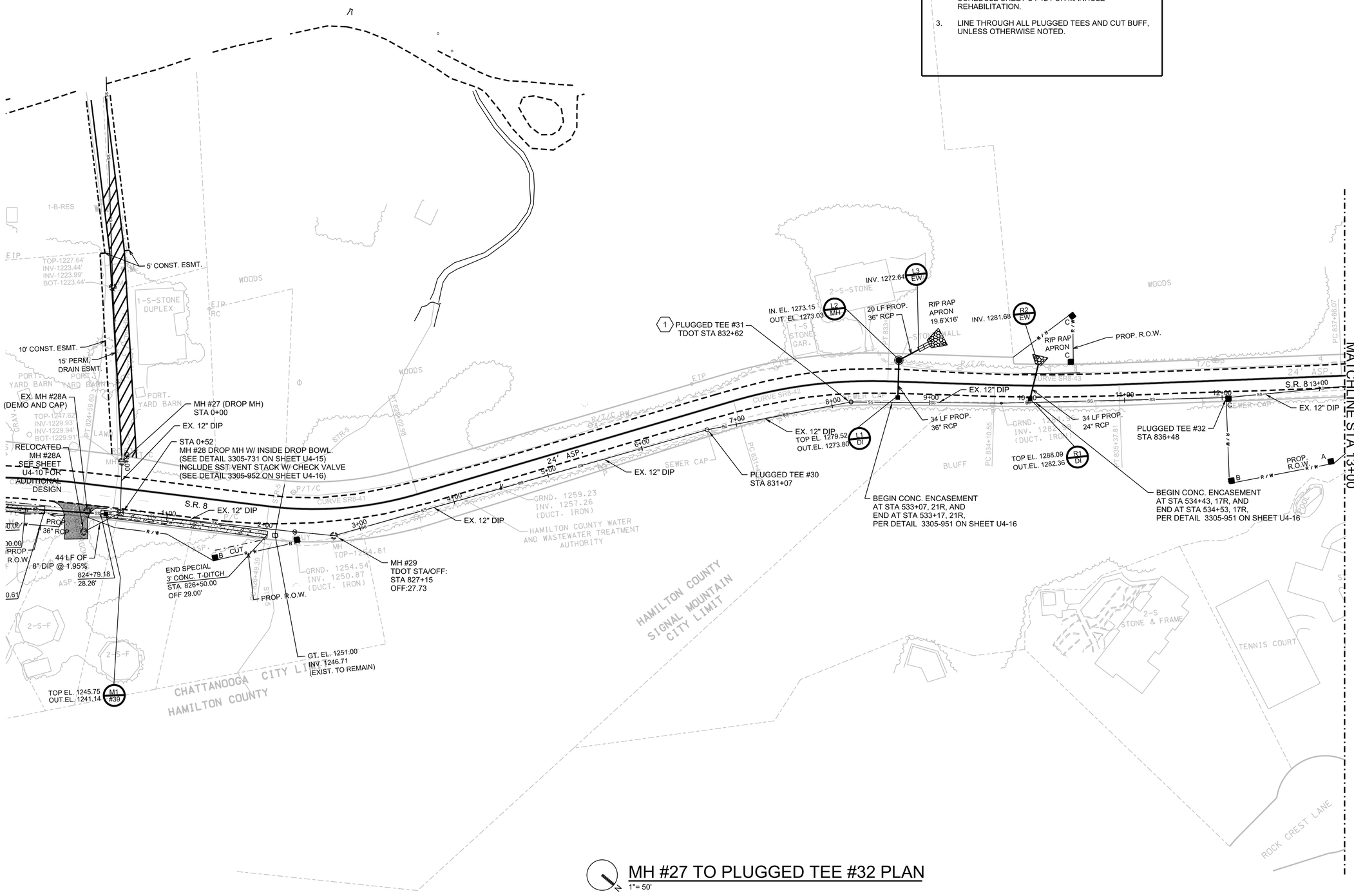
KEY NOTES

1. REMOVE PLUGGED TEE #31 AND SET NEW MANHOLE WITH MANHOLE STRAPS PER DETAIL 3305-954. PROTECT EXISTING 12-INCH PIPE.

GENERAL SHEET NOTES

1. ALL 12" DI PIPE TO BE REHABILITATED WITH CURED IN PLACE PIPE LINER PER SPECIFICATION 33 01 30.70B, UNLESS OTHERWISE NOTED. SEE PIPE SCHEDULE SHEET U4-11 FOR GRAVITY SEWER REHABILITATION.
2. ALL MANHOLES ARE TO BE REHABILITATED WITH TYPE 2 POLYMER RESIN-BASED LINER. SEE MANHOLE SCHEDULE SHEET U4-12 FOR MANHOLE REHABILITATION.
3. LINE THROUGH ALL PLUGGED TEES AND CUT BUFF, UNLESS OTHERWISE NOTED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-4



MH #27 TO PLUGGED TEE #32 PLAN
1"= 50'

R.O.W. PLANS

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WATER & WASTEWATER TREATMENT AUTHORITY
ESTD 1993
WWTA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

STA. 00+00 SR-8 TO
STA 13+00 SR-8

SCALE: 1'=50'

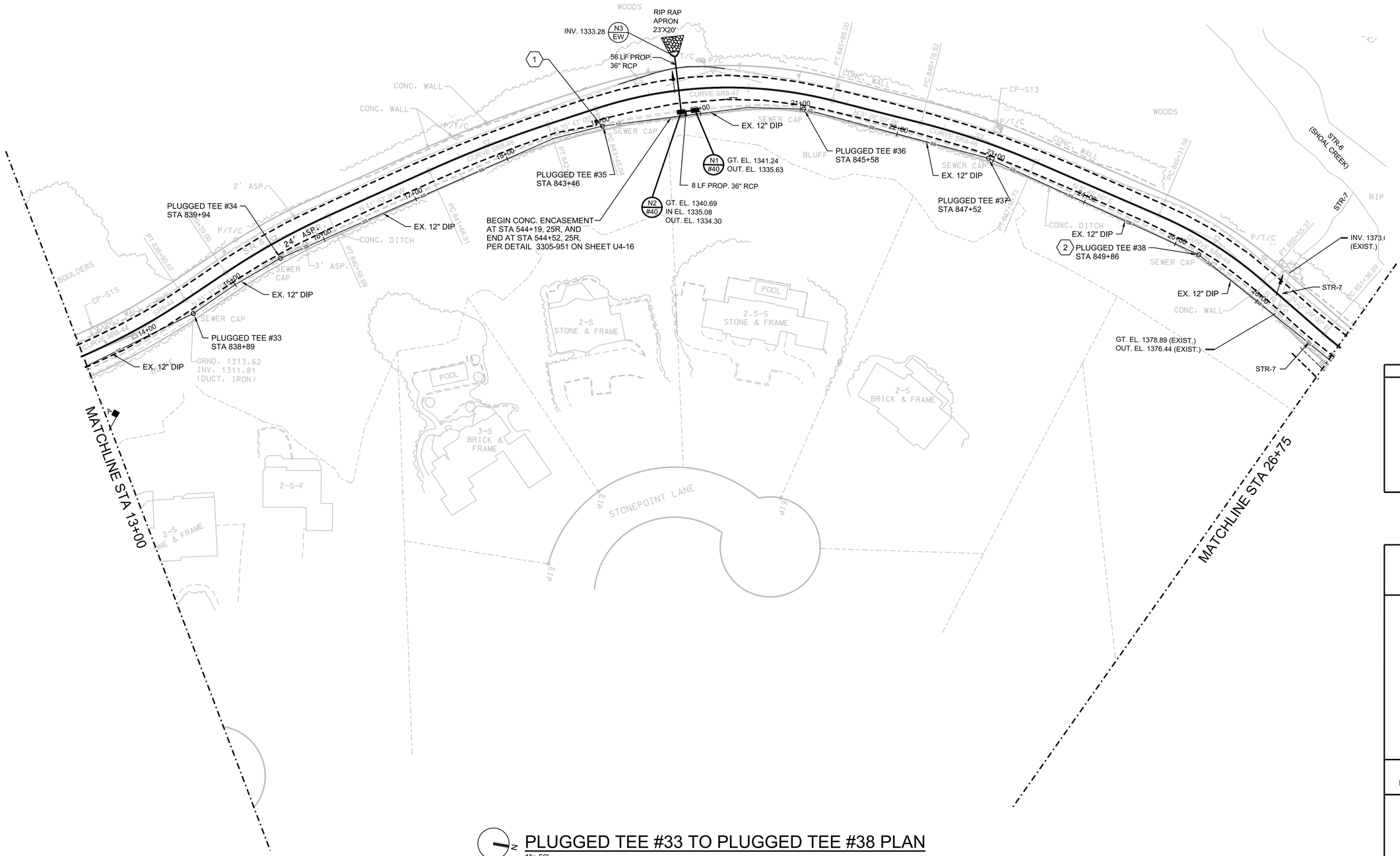
KEY NOTES

1. REMOVE PLUGGED TEE #35 AND SET NEW MANHOLE WITH MANHOLE STRAPS PER DETAIL 3305-954. PROTECT EXISTING 12-INCH PIPE.
2. REMOVE PLUGGED TEE #38 AND SET NEW MANHOLE WITH MANHOLE STRAPS PER DETAIL 3305-954. PROTECT EXISTING 12-INCH PIPE.

GENERAL SHEET NOTES

1. ALL 12" DI PIPE TO BE REHABILITATED WITH CURED IN PLACE PIPE LINER PER SPECIFICATION 33 01 30.70B, UNLESS OTHERWISE NOTED. SEE PIPE SCHEDULE SHEET U4-11 FOR GRAVITY SEWER REHABILITATION.
2. THERE ARE ZERO CONFLICTS ON THIS SHEET BETWEEN THE PROPOSED STORM DRAINAGE AND THE EXISTING SEWER ALIGNMENT.
3. LINE THROUGH ALL PLUGGED TEES AND CUT BUFF, UNLESS OTHERWISE NOTED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-5



PLUGGED TEE #33 TO PLUGGED TEE #38 PLAN

1"= 50'

R.O.W. PLANS

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ADAM SAMUEL BYARD REGISTERED ENGINEER AGRICULTURE No. 113361 STATE OF TENNESSEE

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WATER & WASTEWATER TREATMENT AUTHORITY ESTD 1993 WWTA

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

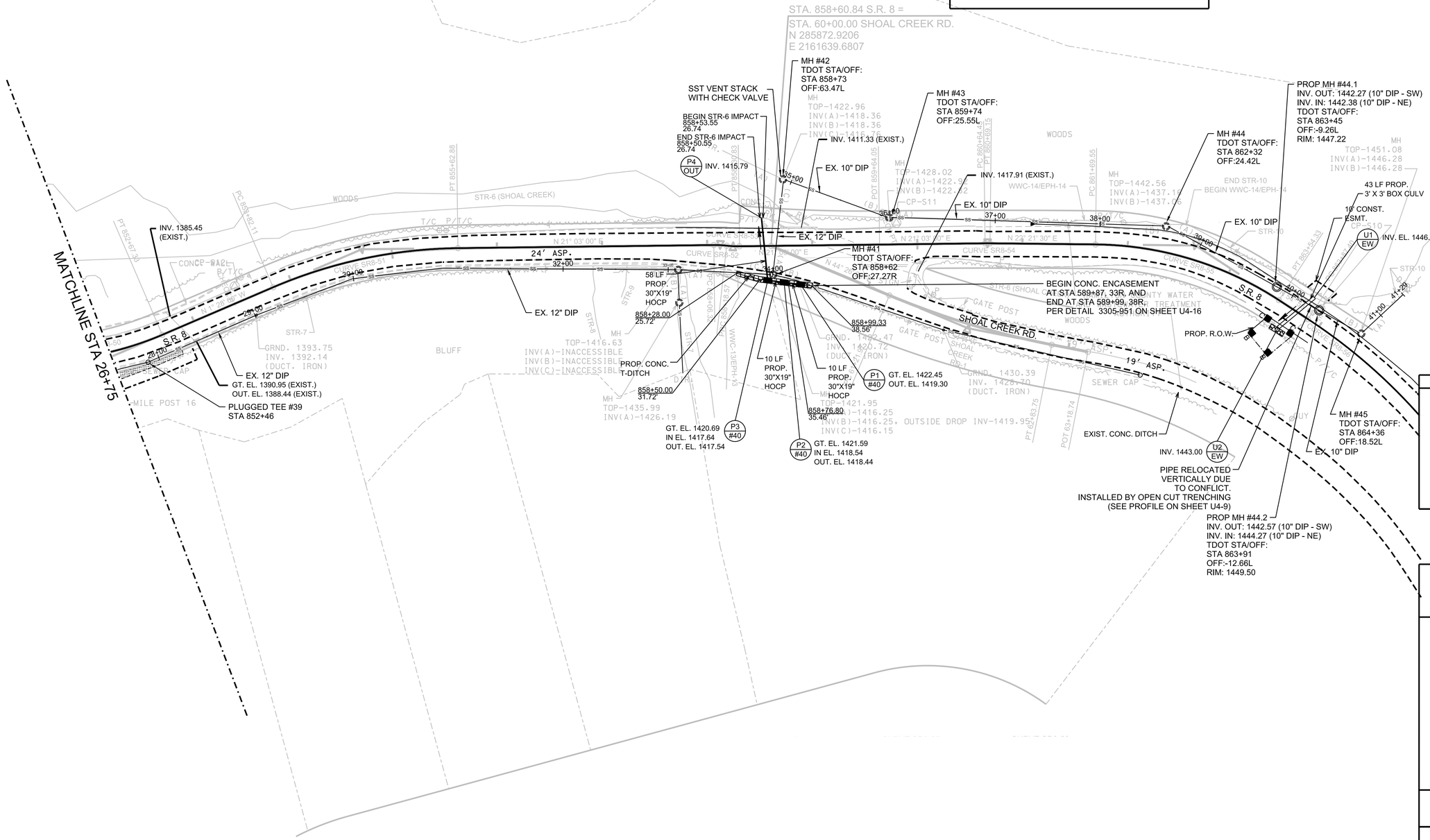
STA. 13+00 SR-8 TO STA 26+75 SR-8

SCALE: 1'=50'

GENERAL SHEET NOTES

1. ALL 12" DI AND 10" DI PIPE TO BE REHABILITATED WITH CURED IN PLACE PIPE LINER PER SPECIFICATION 33 01 30.70B, UNLESS OTHERWISE NOTED. SEE PIPE SCHEDULE SHEET U4-11 FOR GRAVITY SEWER REHABILITATION
2. ALL MANHOLES ARE TO BE REHABILITATED WITH TYPE 2 POLYMER RESIN-BASED LINER. SEE MANHOLE SCHEDULE SHEET U4-12 FOR MANHOLE REHABILITATION.
3. LINE THROUGH ALL PLUGGED TEES AND CUT BUFF, UNLESS OTHERWISE NOTED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-6



PLUGGED TEE #39 TO MH #45 PLAN

1"= 50'

R.O.W. PLANS

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

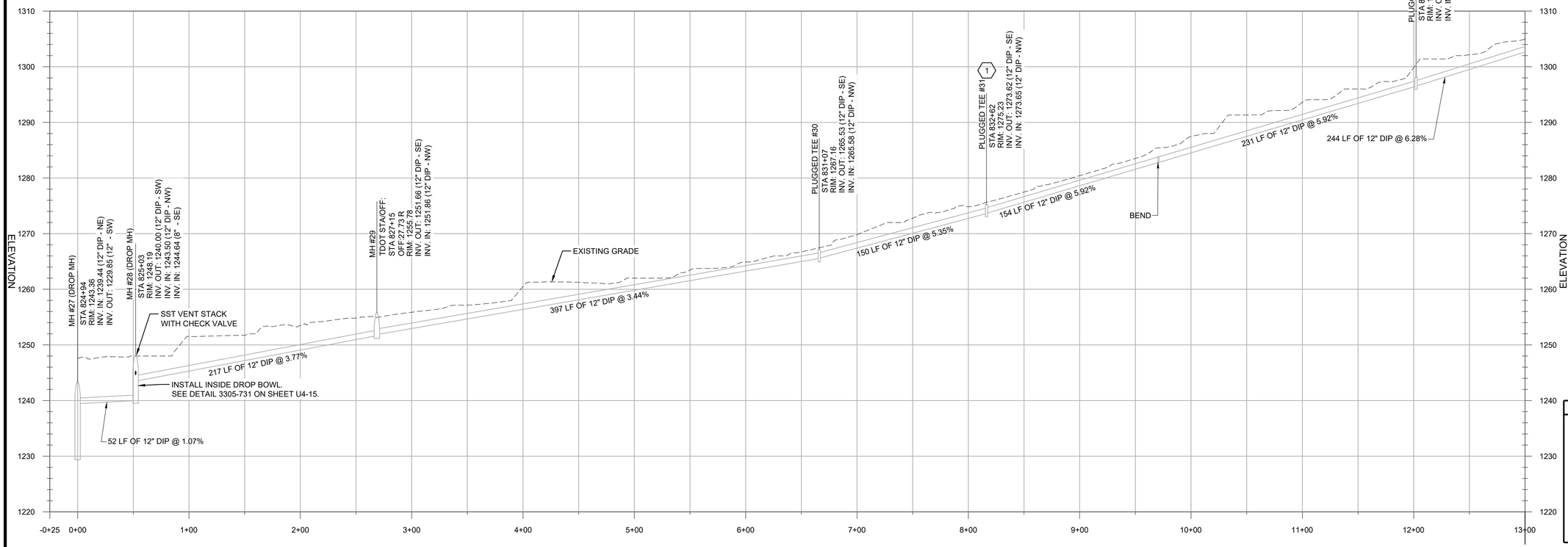
GRAVITY SEWER REHABILITATION

STA. 26+75 SR-8 TO STA 37+43 SR-8
STA. 00+00 SR-8 TO STA 06+75 SR-8

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-7

SIGNAL MOUNTAIN EXISTING GRAVITY SEWER PROFILE
TDOT SR 8 ROAD CENTERLINE STA 824+99.17 TO 836+42.80
PIPE CENTERLINE STA -0+25 TO 13+00
1"=10' HORIZONTAL
1"=2' VERTICAL



MATCHLINE STA 13+00

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GRAVITY SEWER REHABILITATION

STA. 824+99.17 SR-8 TO
STA 836+42.80 SR-8

SCALE: 1"=50'

KEY NOTES

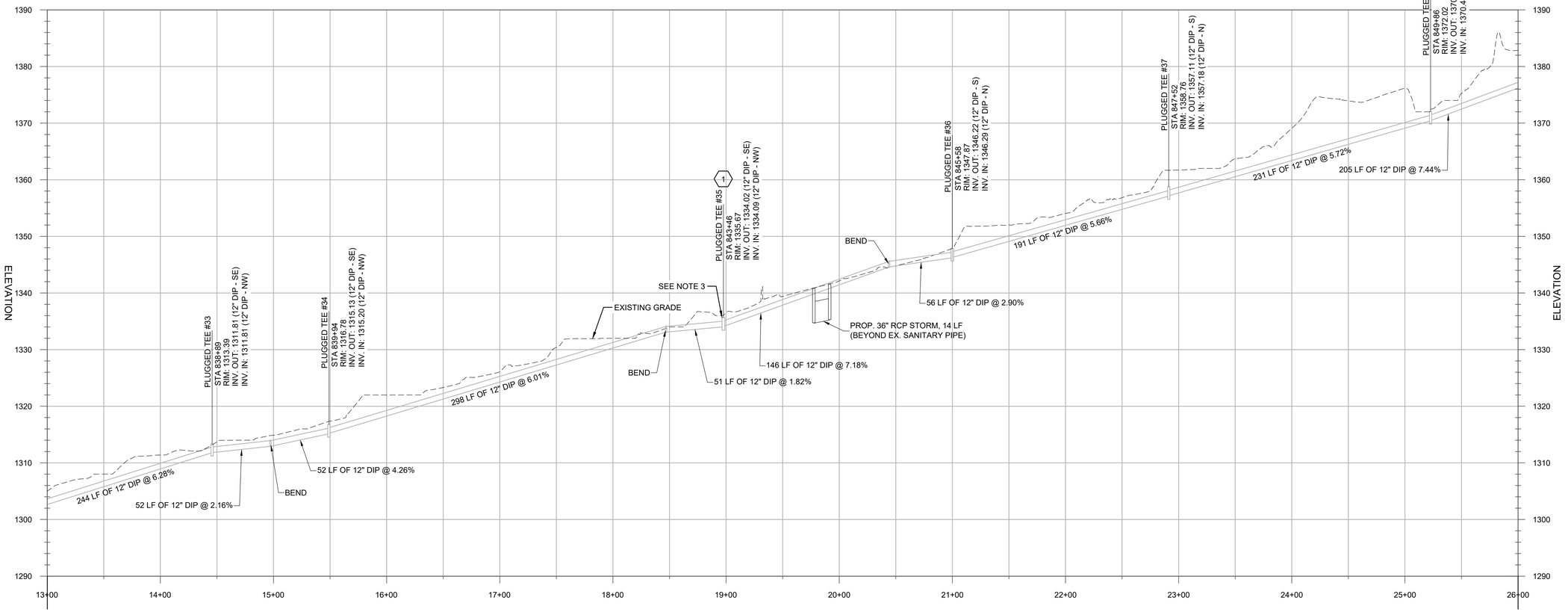
(1) REMOVE PLUGGED TEE #31 AND SET NEW MANHOLE WITH MANHOLE STRAPS PER DETAIL 3305-954. PROTECT EXISTING 12-INCH PIPE.

GENERAL NOTES

1. ALL 12" DI PIPE TO BE REHABILITATED WITH CURED IN PLACE PIPE LINER PER SPECIFICATION 33 01 30.70B, UNLESS OTHERWISE NOTED. SEE PIPE SCHEDULE SHEET U4-11 FOR GRAVITY SEWER REHABILITATION.
2. ALL MANHOLES ARE TO BE REHABILITATED WITH TYPE 2 POLYMER RESIN-BASED LINER. SEE MANHOLE SCHEDULE SHEET U4-12 FOR MANHOLE REHABILITATION.
3. THERE ARE ZERO CONFLICTS ON THIS SHEET BETWEEN THE PROPOSED STORM DRAINAGE AND THE EXISTING SEWER ALIGNMENT.
4. LINE THROUGH ALL PLUGGED TEES AND CUT AND BUFF, UNLESS OTHERWISE NOTED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-8

SIGNAL MOUNTAIN EXISTING GRAVITY SEWER PROFILE
TDOT SR 8 ROAD CENTERLINE STA 836+42.807 TO 850+63.40
PIPE CENTERLINE STA 13+00 TO 26+00
1"=10' HORIZONTAL
1"=2' VERTICAL



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DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

STA. 836+42.80 SR-8 TO
STA 850+63.40 SR-8

SCALE: 1"=50'

KEY NOTES

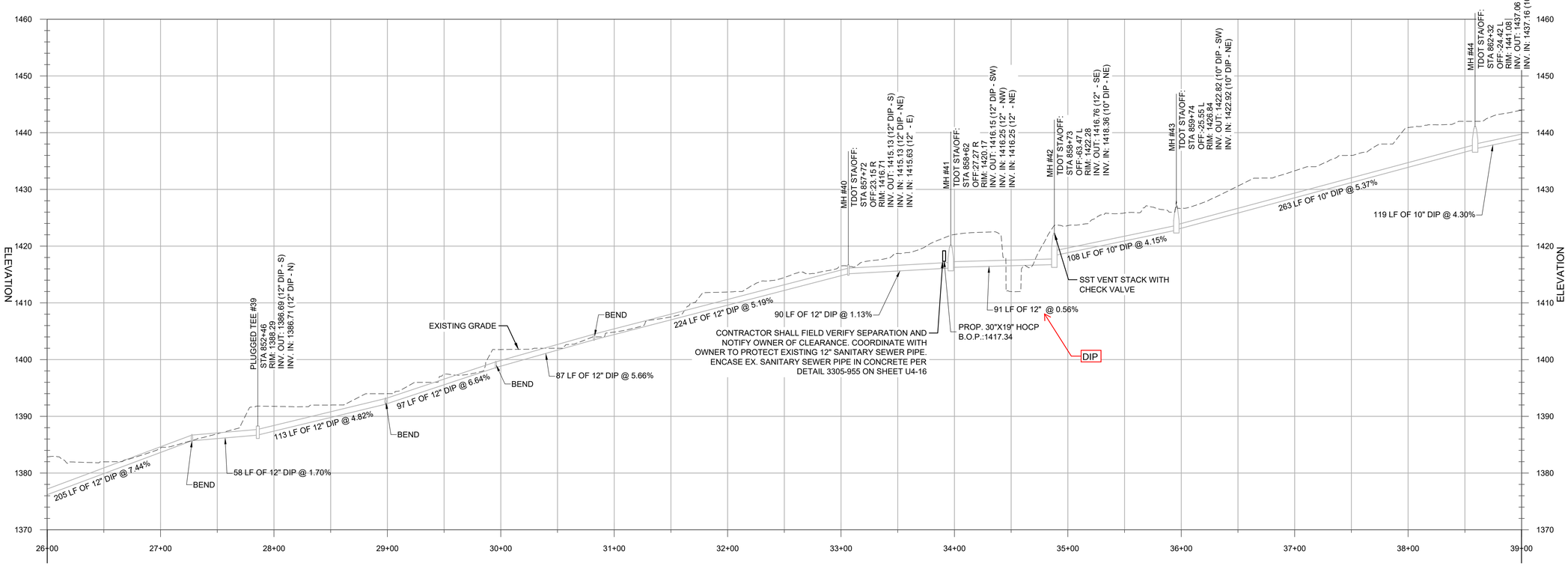
1. REMOVE PLUGGED TEE #35 AND SET NEW MANHOLE WITH MANHOLE STRAPS PER DETAIL 3305-954. PROTECT EXISTING 12-INCH PIPE.
2. REMOVE PLUGGED TEE #38 AND SET NEW MANHOLE WITH MANHOLE STRAPS PER DETAIL 3305-954. PROTECT EXISTING 12-INCH PIPE.

GENERAL NOTES

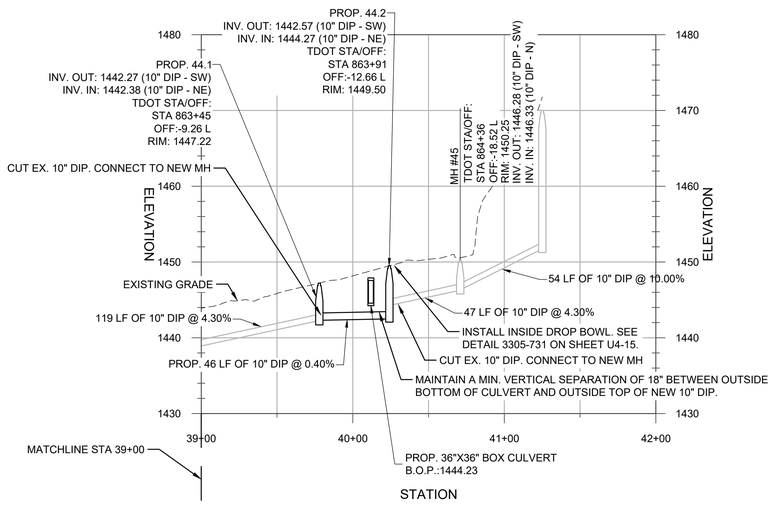
1. ALL 12" DI PIPE TO BE REHABILITATED WITH CURED IN PLACE PIPE LINER PER SPECIFICATION 33 01 30.70B, UNLESS OTHERWISE NOTED. SEE PIPE SCHEDULE SHEET U4-11 FOR GRAVITY SEWER REHABILITATION.
2. THERE ARE ZERO CONFLICTS ON THIS SHEET BETWEEN THE PROPOSED STORM DRAINAGE AND THE EXISTING SEWER ALIGNMENT.
3. LINE THROUGH ALL PLUGGED TEES, UNLESS OTHERWISE NOTED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-9

SIGNAL MOUNTAIN EXISTING GRAVITY SEWER PROFILE
TDOT SR 8 ROAD CENTERLINE STA 850+63.40 TO 862+66.40
PIPE CENTERLINE STA 26+00 TO 39+00
1"=10' HORIZONTAL
1"=2' VERTICAL



SIGNAL MOUNTAIN EXISTING GRAVITY SEWER PROFILE
TDOT SR 8 ROAD CENTERLINE STA 862+66.40 TO 864+35.67
PIPE CENTERLINE STA 39+00 TO 42+00
1"=10' HORIZONTAL
1"=2' VERTICAL



GENERAL NOTES

1. ALL 12" DI PIPE TO BE REHABILITATED WITH CURED IN PLACE PIPE LINER PER SPECIFICATION 33 01 30.70B, UNLESS OTHERWISE NOTED. SEE PIPE SCHEDULE SHEET U4-11 FOR GRAVITY SEWER REHABILITATION.
2. ALL MANHOLES ARE TO BE REHABILITATED WITH TYPE 2 POLYMER-BASED LINER. SEE MANHOLE SCHEDULE SHEET U4-12 FOR MANHOLE REHABILITATION.
3. LINE THROUGH ALL PLUGGED TEES, UNLESS OTHERWISE NOTED.

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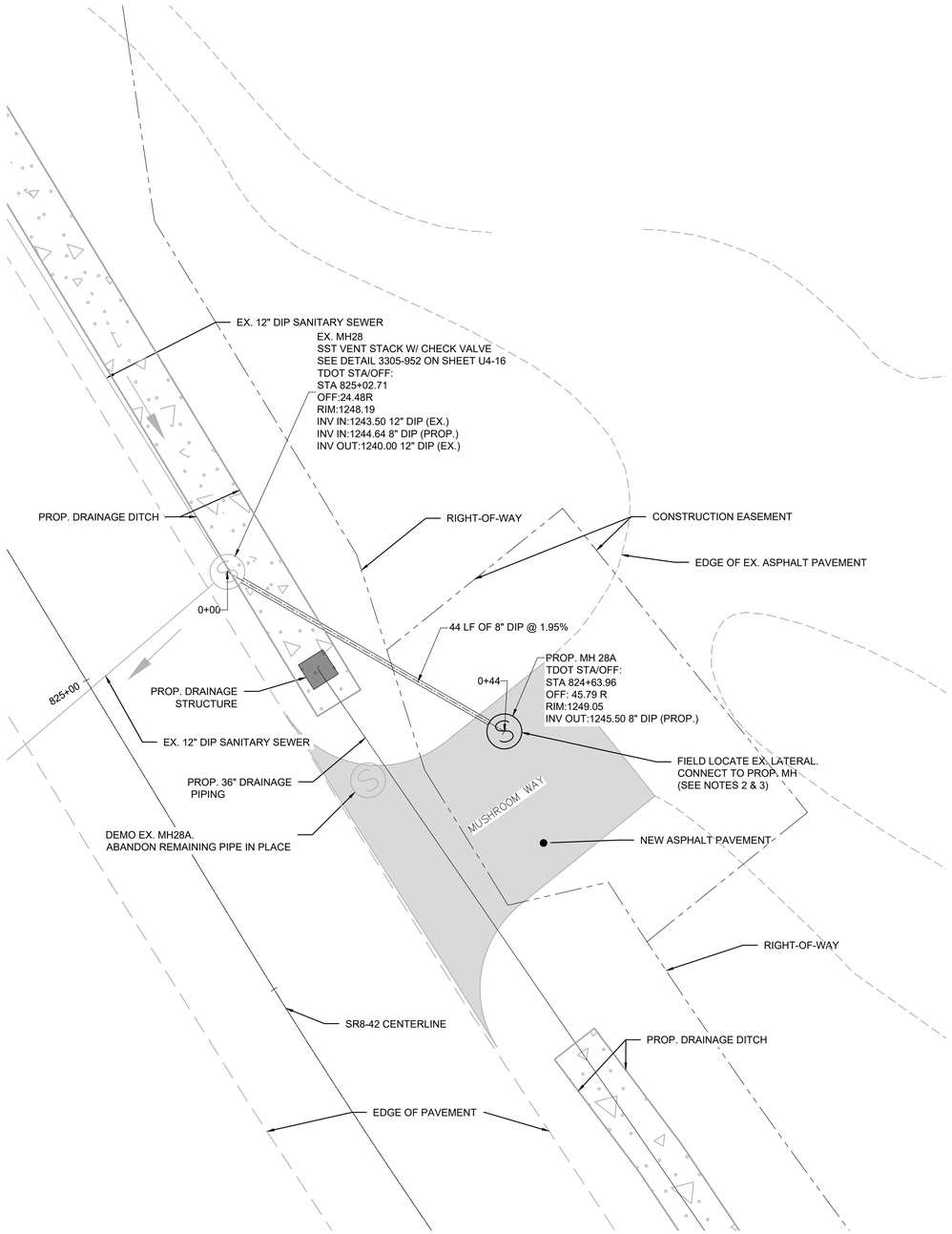
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

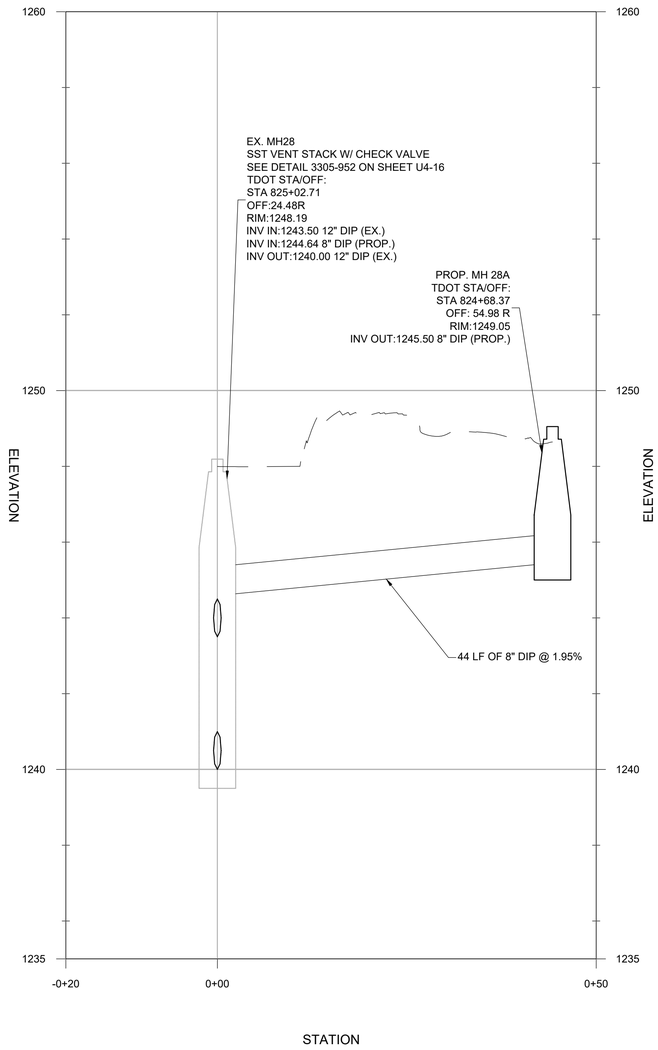
STA. 850+63.40 SR-8 TO
STA 864+35.67 SR-8

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-10



MH 28A-RELOCATION PROFILE
TDOT SR 8 ROAD CENTERLINE STA 824+99.17 TO 836+42.80
PIPE CENTERLINE STA -0+20 TO 0+50
1"=10' HORIZONTAL
1"=2' VERTICAL



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GRAVITY SEWER REHABILITATION

MH #28A RELOCATION AT MUSHROOM WAY

SCALE: 1"=10'

GENERAL NOTES

1. NEW MANHOLE TO BE REHABILITATED WITH TYPE 2 POLYMER-BASED LINER. SEE MANHOLE SCHEDULE SHEET U4-12 FOR MANHOLE REHABILITATION.
2. CONTRACTOR TO FIELD VERIFY ALIGNMENT FOR RELOCATION OF MH28A TO MAINTAIN ALL NECESSARY CONSTRUCTION ACTIVITIES WITHIN EXISTING ROW AND CONSTRUCTION EASEMENT.
3. EXTEND THE EXISTING SEWER LATERALS ON MUSHROOM WAY TO NEW MH28A.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-11

SIGNAL MOUNTAIN GRAVITY SEWER REHABILITATION PIPE SCHEDULE

No.	UPSTREAM MANHOLE	DOWNSTREAM MANHOLE	PIPE DIAMETER	PIPE LENGTH	MATERIAL	REHAB METHOD	CIPP LINE?	POINT REPAIR	SHEET NO.	LATERAL CONNECTIONS	NOTES
1	70301-27	70301-28	12	52	DIP	CIPP	Y		U4-4		FIELD VERIFY LATERAL CONNECTION
2	Ex. 70301-28A	70301-28	12	18	DIP		N		U4-4		ABANDON LINE IN PLACE
3	NEW 70301-28A	70301-28	8	43	DIP		N		U4-4		NEW PIPE SEGMENT
4	70301-28	70301-29	12	220	DIP	CIPP	Y		U4-4		FIELD VERIFY LATERAL CONNECTION
5	70301-29	70301-30	12	397	DIP	CIPP	Y		U4-4		FIELD VERIFY LATERAL CONNECTION
6	70301-30	70301-31	12	150	DIP	CIPP	Y		U4-4		
7	70301-31	70301-32	12	385	DIP	CIPP	Y		U4-4		
8	70301-32	70301-33	12	244	DIP	CIPP	Y		U4-5		
9	70301-33	70301-34	12	104	DIP	CIPP	Y		U4-5		
10	70301-34	70301-35	12	349	DIP	CIPP	Y		U4-5		
11	70301-35	70301-36	12	202	DIP	CIPP	Y		U4-5		
12	70301-36	70301-37	12	191	DIP	CIPP	Y		U4-5		
13	70301-37	70301-38	12	231	DIP	CIPP	Y		U4-5		
14	70301-38	70301-39	12	263	DIP	CIPP	Y		U4-6		
15	70301-39	70301-40	12	521	DIP	CIPP	Y		U4-6		
16	70301-40	70301-41	12	90	DIP	CIPP	Y		U4-6		
17	70301-41	70301-42	12	91	DIP	CIPP	Y		U4-6		
18	70301-42	70301-43	10	108	DIP	CIPP	Y		U4-6		
19	70301-43	70301-44	10	263	DIP	CIPP	Y		U4-6		
20	70301-44	70301-44.1	10	119	DIP	CIPP	Y		U4-6		
21	70301-44.1	70301-44.2	10	46	DIP	FULL REPLACE	N		U4-6		
22	70301-44.2	70301-45	10	47	DIP	CIPP	Y		U4-6		

1) RECONNECTION TO MANHOLES SHALL BE IN ACCORDANCE WITH DETAIL (3305-730) AS NECESSARY.

R.O.W.
PLANS

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

PIPE SCHEDULE

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-12

SIGNAL MOUNTAIN GRAVITY SEWER REHABILITATION MANHOLE SCHEDULE

No.	MANHOLE ID	SHEET NO.	PIPE DIAMETER (INCHES)	MANHOLE SHAPE	PROPOSED WORK ON MANHOLE	FRAME AND COVER	MANHOLE DIMENSIONS (FEET)	RIM ELEVATION (FEET)	INVERT ELEVATION (FEET)	MANHOLE DEPTH (VERTICAL FEET)	ADDITIONAL CONNECTIONS	NOTES
1	70301-27	U4-4	12	CIRCULAR	MODIFY	WATERTIGHT	4	1247.62	1229.91	17.71	NONE	DROP MANHOLE; FIELD VERIFY LATERAL CONNECTION
2	EX. 70301-28A	U4-4	12	CIRCULAR	REMOVE	NONE	4	1245.82	1242.97	2.85	YES	REMOVE MANHOLE
3	NEW 70301-28A	U4-4	8	CIRCULAR	NEW	WATERTIGHT	4	1250.01	1245.5	4.51	YES	NEW MANHOLE INSTALLATION PER STANDARD DETAIL SD-MH-1.
4	70301-28	U4-4	8/12	CIRCULAR	MODIFY	WATERTIGHT	4	1247.42	1240	7.42	YES	DROP MANHOLE; FIELD VERIFY LATERAL CONNECTION; ADD VENT STACK PER DETAIL 3305-953; INSTALL DROP BOWL PER DETAIL 3305-731
5	70301-29	U4-4	12	CIRCULAR	MODIFY	WATERTIGHT	4	1255.78	1251.66	4.12	YES	FIELD VERIFY CAPPED CONNECTION
6	70301-30	U4-4	12	N/A - PLUGGED TEE	NONE	NONE	1	1267.16	1265.53	1.63	NONE	LINE THROUGH PLUGGED TEE.
7	70301-31	U4-4	12	CIRCULAR	NEW	WATERTIGHT	4	1275.23	1273.62	1.61	NONE	REPLACE PLUGGED TEE WITH NEW MANHOLE. STRAP MANHOLE TOP PER DETAIL 3305-954
8	70301-32	U4-4	12	N/A - PLUGGED TEE	NONE	NONE	1	1298.08	1296.49	1.59	NONE	LINE THROUGH PLUGGED TEE.
9	70301-33	U4-5	12	N/A - PLUGGED TEE	NONE	NONE	1	1313.39	1311.81	1.58	NONE	LINE THROUGH PLUGGED TEE.
10	70301-34	U4-5	12	N/A - PLUGGED TEE	NONE	NONE	1	1316.78	1315.13	1.65	NONE	LINE THROUGH PLUGGED TEE.
11	70301-35	U4-5	12	CIRCULAR	NEW	WATERTIGHT	4	1335.67	1334.02	1.65	NONE	REPLACE PLUGGED TEE WITH NEW MANHOLE. STRAP MANHOLE TOP PER DETAIL 3305-954
12	70301-36	U4-5	12	N/A - PLUGGED TEE	NONE	NONE	1	1347.87	1346.22	1.65	NONE	LINE THROUGH PLUGGED TEE.
13	70301-37	U4-5	12	N/A - PLUGGED TEE	NONE	NONE	1	1358.76	1357.11	1.65	NONE	LINE THROUGH PLUGGED TEE.
14	70301-38	U4-5	12	CIRCULAR	NEW	WATERTIGHT	1	1372.02	1370.41	1.61	NONE	REPLACE PLUGGED TEE WITH NEW MANHOLE. STRAP MANHOLE TOP PER DETAIL 3305-954
15	70301-39	U4-6	12	N/A - PLUGGED TEE	NONE	NONE	4	1388.29	1386.69	1.60	NONE	LINE THROUGH PLUGGED TEE.
16	70301-40	U4-6	8/12	CIRCULAR	MODIFY	WATERTIGHT	4	1416.71	1415.13	1.58	YES	
17	70301-41	U4-6	12	CIRCULAR	NONE	WATERTIGHT	4	1420.17	1416.15	4.02	YES	WATERTIGHT FRAME AND COVER INSTALLED AND MANHOLE LINED IN PHASE 1
18	70301-42	U4-6	10/12	CIRCULAR	MODIFY	WATERTIGHT	4	1422.28	1416.76	5.52	YES	INSTALL VENT STACK PER DETAIL 3305-952
19	70301-43	U4-6	10	CIRCULAR	MODIFY	WATERTIGHT	4	1426.84	1422.82	4.02	NONE	
20	70301-44	U4-6	10	CIRCULAR	MODIFY	WATERTIGHT	4	1441.08	1437.06	4.02	NONE	
21	70301-44.1	U4-6	10	CIRCULAR	NEW	WATERTIGHT	4	1447.22	1442.27	4.95	NONE	NEW MANHOLE INSTALLATION PER STANDARD DETAIL SD-MH-1.
22	70301-44.2	U4-6	10	CIRCULAR	NEW	WATERTIGHT	4	1449.5	1442.57	6.93	NONE	NEW MANHOLE INSTALLATION PER STANDARD DETAIL SD-MH-1. INSTALL INSIDE DROP BOWL PER DETAIL 3305-731
23	70301-45	U4-6	10	CIRCULAR	MODIFY	WATERTIGHT	4	1450.25	1446.28	3.97	NONE	

NOTES

1. ALL NEW MANHOLES SHALL RECEIVE A WATER TIGHT FRAME AND COVER. ANY FRAME AND COVER REPLACEMENTS SHALL BE REPLACED WITH WATER TIGHT FRAME AND COVERS.
2. ALL MANHOLES SHALL RECEIVE MANHOLE LINER PER SPECIFICATION 33 01 80.83 UNLESS PREVIOUSLY LINED.

NOTES

1. ALL NEW MANHOLES SHALL RECEIVE A WATER TIGHT FRAME AND COVER. ANY FRAME AND COVER REPLACEMENTS SHALL BE REPLACED WITH WATER TIGHT FRAME AND COVERS.
2. ALL MANHOLES SHALL RECEIVE MANHOLE LINER PER SPECIFICATION 33 01 80.83 UNLESS PREVIOUSLY LINED.

R.O.W.

PLANS

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ESTD 1993
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

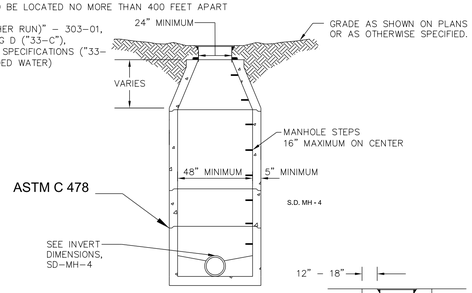
MANHOLE SCHEDULES

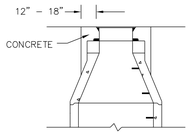
TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-13

NOTES

1. ALL MATERIALS, DESIGN, MANUFACTURE, PHYSICAL TEST REQUIREMENTS, FINISH, MARKING, INSPECTION, REJECTION, AND REPAIRS TO MEET ASTM C478 FOR PRECAST REINFORCED CONCRETE MANHOLE RISERS AND CONES EXCEPT AS MAY BE MODIFIED IN THESE SPECIFICATIONS.
2. SIZE AND LOCATE PIPE CUTOUTS AS REQUIRED.
3. MANHOLE STEPS – SEE DETAIL OF STANDARD MANHOLE STEPS. SD–MH–7.
4. END–OF–LINE MANHOLES THAT HAVE FUTURE EXTENSIONS AND THAT ARE LOCATED IN PAVEMENT SHALL BE BACKFILLED WITH FLOWABLE FILL OR 33–C* STONE (CRUSHER RUN). THE BACKFILL SHALL BE COMPACTED TO 6–INCH LIFTS, AND SHALL EXTEND TEN (10') FEET FROM THE MANHOLE ALONG EACH TRENCH.
5. A MAXIMUM OF ONE CONCRETE RING MAY BE USED FOR FINISHED GRADE ELEVATION ADJUSTMENT OF UP TO 6" ON NEW CONSTRUCTION.
6. FLAT TOP MANHOLES SHALL NOT BE USED.
7. ON STREET GRADES OF 5% OR MORE, RINGS MUST BE POURED IN PLACE ON PROPER GRADE FOR EVEN OR SMOOTH TRANSITION.
8. MANHOLES TO BE LOCATED NO MORE THAN 400 FEET APART

* "33–C (CRUSHER RUN)" – 303–01, TYPE A, GRADING D ("33–C"), TENNESSEE DOT SPECIFICATIONS ("33–P" WITHOUT ADDED WATER)



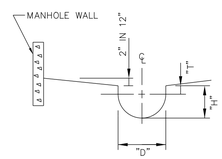


FRAME AND COVER AFTER PAVING

(SEE SD–MH–8)

STANDARD PRECAST CONCRETE MANHOLES

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY
SD–MH–1

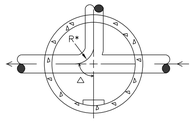


INVERT SECTION

TABLE I		
"D" INSIDE DIA. PIPE	"T" VERTICAL TANGENT	"H" HEIGHT OF H O TABLE
8"	2 1/2"	6 1/2"
10"	3"	8"
12"	3 1/2"	9 1/2"
15"	4 1/2"	12"
18"	5 1/2"	14 1/2"
21"	6 1/2"	17"
24"	7 1/2"	19 1/2"
30"	9"	24"
36"	11"	29"

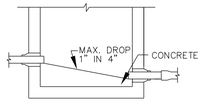
NOTE

"H" AND "T" DIMENSIONS APPLY AT BOTH THE UPSTREAM AND DOWNSTREAM EDGE OF MANHOLE. SEE TABLE 1

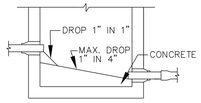


INVERT PLAN

TABLE II GOVERNING DIMENSIONS FOR MANHOLE INVERTS			
PIPE SIZE	Δ ANGLE	BASE DIA.	R*
8" THRU 12"	0 TO 90	4'	1'–6"
15"	0 TO 60	4'	1'–10"
15"	60 TO 90	4'	1'–10"
18"	0 TO 60	4'	2'–3"
18"	60 TO 90	4'	1'–10"
21"	0 TO 60	4'	2'–7"
21"	60 TO 90	5'	2'–4"
24"	0 TO 45	4'	3'–0"
24"	45 TO 90	5'	2'–3"
30"	0 TO 60	5'	3'–9"
30"	60 TO 90	6'	2'–8"
36"	0 TO 30	6'	4'–6"
36" & LARGER	0 TO 90	CAST IN PLACE MH BASE OR PRE–BED MH BASE & ELBOW UNITS.	



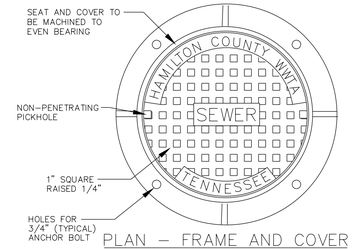
INVERT DETAIL
(WITH DROP LESS THAN 12")



INVERT DETAIL
(WITH DROP OF 12" TO LESS THAN 24")

STANDARD SIZE & INVERT DETAILS

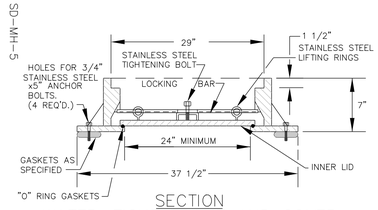
HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY
SD–MH–4



PLAN – FRAME AND COVER

ACHESON FOUNDRY (WATER–TIGHT) A–2624–71H OR APPROVED EQUAL

SD–MH–5



SECTION
WATER–TIGHT FRAME AND COVER

SPECIFIED MINIMUM WEIGHTS	
	WATER–TIGHT
COVER	190 LBS.
FRAME	400 LBS.
TOTAL	590 LBS.

NOTES

1. MANUFACTURER SHALL CERTIFY TRAFFIC BEARING CAPACITY OF FRAMES AND COVERS.
2. MANHOLES IN PAVED AREAS MAY NOT REQUIRE ANCHOR BOLTS.
3. BEARING SURFACES BETWEEN COVER AND FRAME SHALL BE MACHINED TO PREVENT ROCKING.
4. MANHOLES IN EASEMENTS REQUIRE ANCHOR BOLTS.
5. MANHOLES IN TRAFFIC AREAS REQUIRE 4000LB CONCRETE COLLAR
6. MANHOLES LOCATED IN OFFSITE EASEMENTS SHALL HAVE GREEN FIBERGLASS MARKERS

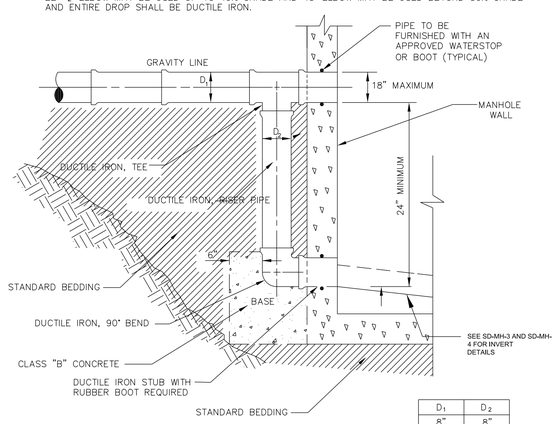
MANHOLE FRAME AND COVER SD–MH–5

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY

R.O.W. PLANS

NOTES

1. SET INLET FROM DROP TO MATCH CROWNS WITH OUTLET EXCEPT THAT MINIMUM FALL ACROSS MANHOLE INVERT MUST BE 3".
2. FOR DETAILS NOT SHOWN, SEE STANDARD MANHOLE DETAILS.
3. THE INCOMING LINE THE TEE, THE RISER PIPE, AND THE BEND SHALL BE CONSTRUCTED OF DUCTILE IRON.
4. ON GRAVITY LINE GRADES OF 12.5% OR GREATER, 11–¼° ELBOW MAY BE USED UP TO 24% GRADE; 22–½° ELBOW MAY BE USED UP TO 49% GRADE AND 45° ELBOW MAY BE USED BEYOND 50% GRADE AND ENTIRE DROP SHALL BE DUCTILE IRON.

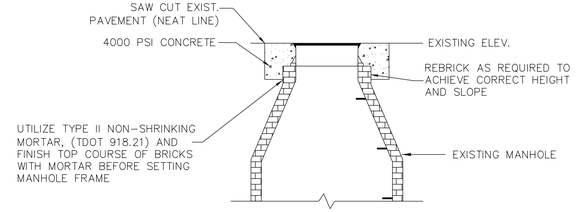


D_1	D_2
8"	8"
10"	8"
12"	10"
15"	12"
18"	12"

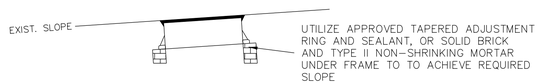
BASE NOTES:
1. MINIMUM DISTANCE BETWEEN BOTTOM OF DI AND MANHOLE BOTTOM IS 8".
2. AT MINIMUM THERE SHOULD BE 12 ½" TOTAL VERTICAL HEIGHT OF CONCRETE.
3. BASE NEEDS TO BE AT LEAST 36" WIDE FOR SUPPORT OF DI ELBOW.

STANDARD DROP MANHOLE

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY
SD–MH–6



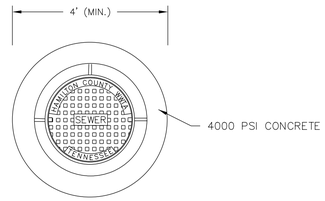
FRAME AND COVER AFTER PAVING



FRAME ON SLOPE

PLAN–FRAME AND COVER

ACHESON FOUNDRY (STANDARD) A–2024–81H
ACHESON FOUNDRY (WATER–TIGHT)A–2624–71H
OR APPROVED EQUAL



NOTES:

1. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THAT MORTAR AND OTHER CONSTRUCTION MATERIALS DO NOT DROP INTO MANHOLE OR SEWER LINES
2. CONTRACTOR SHALL MAINTAIN TRAFFIC BARRIERS AND STEEL PLATES AROUND MANHOLE UNTIL CONCRETE CURES

STANDARD DETAIL FOR RAISING MANHOLE FRAMES ON BRICK MANHOLES

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY
SD–MH–8A

SEALED BY



COORDINATES ARE NAD 83(2001), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

Jacobs

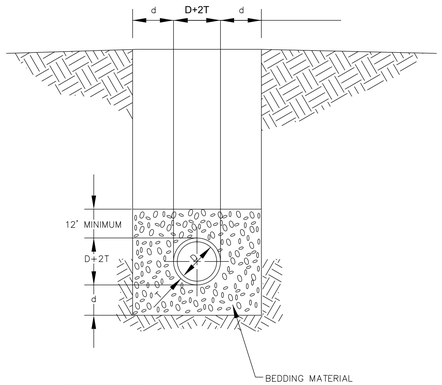
WATER & WASTEWATER TREATMENT AUTHORITY
ESTD 1993
WWTA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

TDOT STANDARD DETAILS
SHEET 1 OF 2

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-14



D	d
< 4"	4"
4–6"	6"
8"	6"
10"	8"
12"	8"
15"	8"
18"	8"
21"	10"
24"	10"

TRENCH BEDDING (CLASS "I", ASTM D 2321)

MATERIAL SHALL BE ½" or 57 STONE. PAYMENT FOR THE BEDDING SHALL BE INCLUDED IN THE UNIT PRICE BID PER LINEAR FOOT PIPE FOR VARIOUS TYPES, SIZES, AND DEPTHS LISTED IN THE BID SCHEDULE.

TYPICAL TRENCH AND BEDDING FOR GRAVITY AND FORCE MAIN

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY
SD–GEN–1

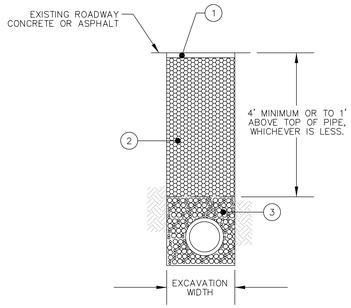
GENERAL REQUIREMENTS

1. ALL STREET CUTS MUST BE REPAIRED IMMEDIATELY AFTER BACKFILLING AND ACCORDING TO THIS STANDARD.
2. A ROAD CUT PERMIT AND AN APPROVED TRAFFIC CONTROL PLAN ARE REQUIRED FOR ALL CUTS IN STREETS.
3. WHERE LONGITUDINAL CUTS ARE MADE, THE OWNER RESERVES THE RIGHT TO REQUIRE ADDITIONAL RESURFACING BEYOND THE LIMITS OF THE REPAIR TO ENSURE THE PROPER RIDING CHARACTERISTICS AND THE STABILITY OF THE PAVEMENT.

DRAWING NOTES

1. 2" MINIMUM THICKNESS COLD MIX ASPHALT
   WHEN A TEMPORARY ASPHALT PATCH IS USED, IT SHALL BE PLACED IMMEDIATELY AFTER THE CRUSHED STONE BACKFILL IS PLACED.
2. MINERAL AGGREGATE BASE, TYPE A, GRADING D (33–P*)
   COMPACTED IN 8" LIFTS AND TO A DENSITY OF 95% STANDARD PROCTOR.
3. BEDDING MATERIAL – SEE SD–GEN–1

*LOCAL MUNICIPALITIES RULES FOR ROAD REPAIR MUST BE FOLLOWED



TEMPORARY PAVEMENT REPAIR

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY
SD–GEN–8

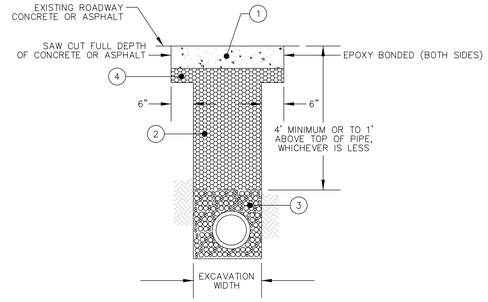
GENERAL REQUIREMENTS

1. ALL STREET CUTS MUST BE REPAIRED IMMEDIATELY AFTER BACKFILLING AND ACCORDING TO THIS STANDARD.
2. A ROAD CUT PERMIT AND AN APPROVED TRAFFIC CONTROL PLAN ARE REQUIRED FOR ALL CUTS IN STREETS.
3. WHERE LONGITUDINAL CUTS ARE MADE, THE OWNER RESERVES THE RIGHT TO REQUIRE ADDITIONAL RESURFACING BEYOND THE LIMITS OF THE REPAIR TO ENSURE THE PROPER RIDING CHARACTERISTICS AND THE STABILITY OF THE PAVEMENT.

DRAWING NOTES

1. CLASS "A" CONCRETE PAVEMENT (4,000 PSI MINIMUM), 8" MINIMUM THICKNESS, COARSE BROOM FINISH
   THE CONCRETE SHALL BE COLORED AND STAMPED TO MATCH THE ADJACENT CONCRETE AS REQUIRED.
2. FLOWABLE FILL
3. BEDDING MATERIAL – SEE SD–GEN–1
4. MINERAL AGGREGATE BASE, TYPE A, GRADING D (33–P*)
   COMPACTED TO A DENSITY OF 95% STANDARD PROCTOR. THE THICKNESS SHALL BE THE GREATER OF 4" OR THE EXISTING DEPTH OF BASE MATERIAL.

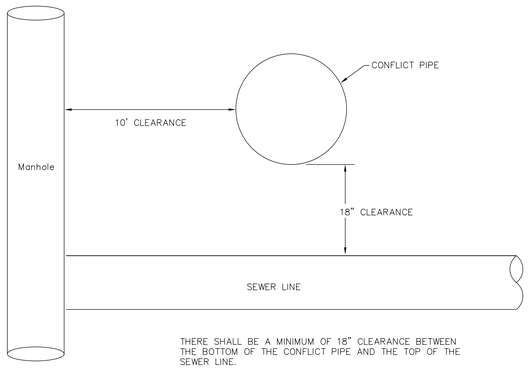
*LOCAL MUNICIPALITIES RULES FOR ROAD REPAIR MUST BE FOLLOWED



TRENCH WIDTH PAVEMENT REPAIR

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY
SD–GEN–9

R.O.W. PLANS



THERE SHALL BE A MINIMUM OF 18" CLEARANCE BETWEEN THE BOTTOM OF THE CONFLICT PIPE AND THE TOP OF THE SEWER LINE.

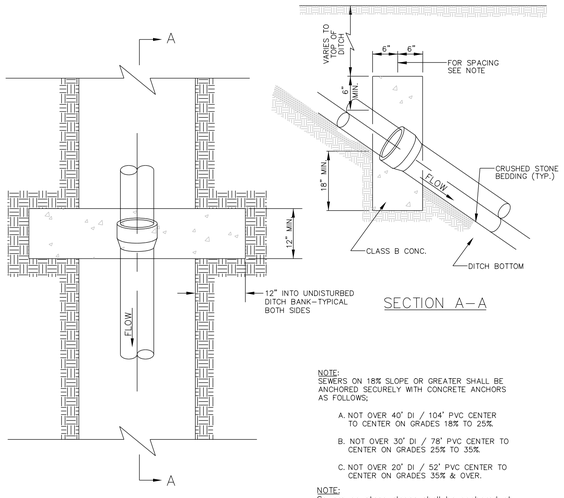
THERE SHALL BE A MINIMUM OF 10' CLEARANCE BETWEEN THE EDGE OF THE CONFLICT PIPE AND THE EDGE OF THE MANHOLE.

NOTES

1. FOR GRAVITY SYSTEMS, IF LESS THAN 18", USE DUCTILE IRON PIPE. DUCTILE IRON PIPE WILL EXTEND FROM MANHOLE TO MANHOLE, AND WILL NOT BE TRANSITIONED WITH MECHANICAL JOINTS.
2. IF PIPE IS COVERED BY 14' OR MORE, USE DUCTILE IRON PIPE. DUCTILE IRON PIPE WILL EXTEND FROM MANHOLE TO MANHOLE, AND WILL NOT BE TRANSITIONED WITH MECHANICAL JOINTS.

PIPE CROSSINGS

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY
SD–GEN–11



SECTION A–A

PLAN

NOTE:
SEWERS ON 18% SLOPE OR GREATER SHALL BE ANCHORED SECURELY WITH CONCRETE ANCHORS AS FOLLOWS:

A. NOT OVER 40' DI / 104' PVC CENTER TO CENTER ON GRADES 18% TO 25%
B. NOT OVER 30' DI / 78' PVC CENTER TO CENTER ON GRADES 25% TO 35%
C. NOT OVER 20' DI / 52' PVC CENTER TO CENTER ON GRADES 35% & OVER.

NOTE:
Sewers on steep slopes shall be anchored at manholes using an elbow as follows:

Slope of Incoming Line: (Percent Slope)	Ductile Elbow Required (Equivalent Angle)
18% to 24%	11¼°
24% to 50%	22½°
Greater than 50%	40°

CONCRETE ANCHOR BLOCK DETAIL FOR PIPES ON STEEP SLOPES

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY
SD–GEN–20

SEALED BY

ADAM SAMUEL BYARD
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
5/15/26

COORDINATES ARE NAD 83(2001), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

Jacobs

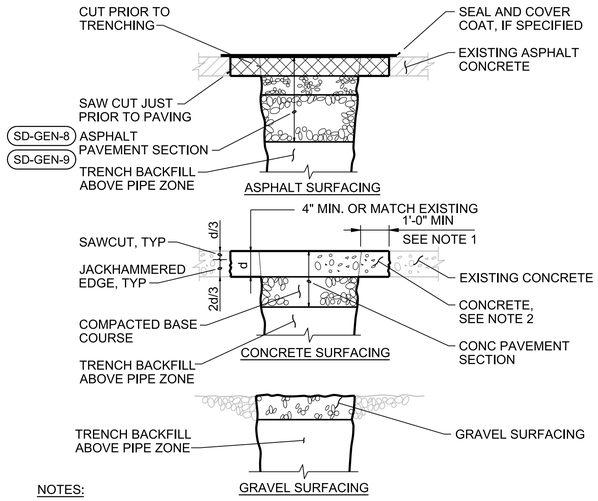
WATER & WASTEWATER TREATMENT AUTHORITY
ESTD 1993
WWTA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

TDOT STANDARD DETAILS
SHEET 2 OF 2

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-15



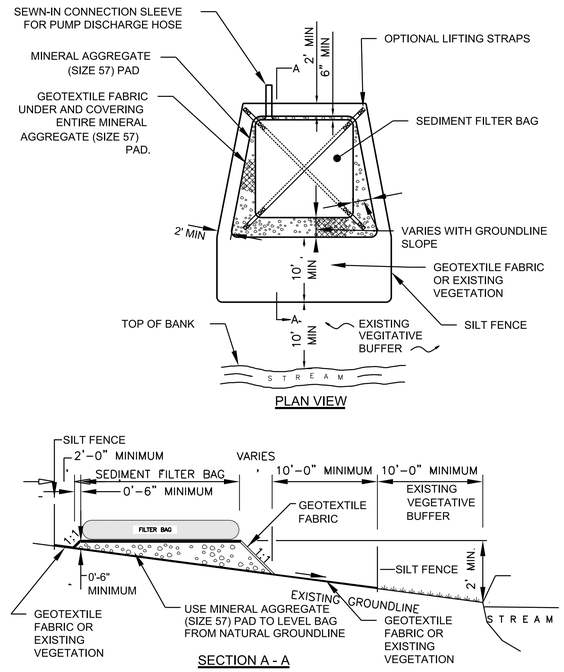
NOTES:

1. IF LOCATION OF TRENCH SAW CUT IS WITHIN 2 FEET OF AN EXISTING JOINT OR EDGE OF CONCRETE, REPLACE ENTIRE CONCRETE TO THE JOINT OR EDGE.
2. CONSTRUCT JOINTS ACROSS NEW CONCRETE TO MATCH EXISTING JOINT TYPES AND LOCATIONS.
3. DIMENSIONS AND DETAILS ABOVE ARE MINIMUM REQUIREMENTS. PAVEMENT REMOVAL AND REPLACEMENT SHALL BE PERFORMED IN ACCORDANCE WITH DETAILS AND SPECIFICATIONS OF THE AUTHORITY HAVING JURISDICTION, SEE ASPHALT PAVING, CONCRETE PAVING, AND TRENCH BACKFILL SPECIFICATIONS.

PAVEMENT RESTORATION

NTS

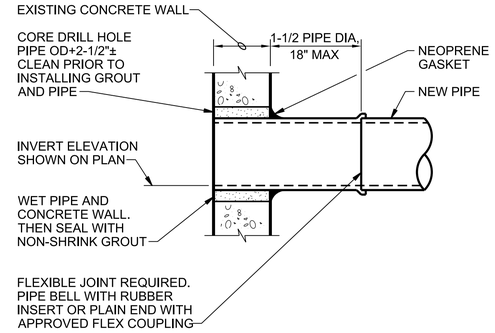
3123-115



DEWATERING PRACTICES

NTS

3125-131



PIPE CONNECTION

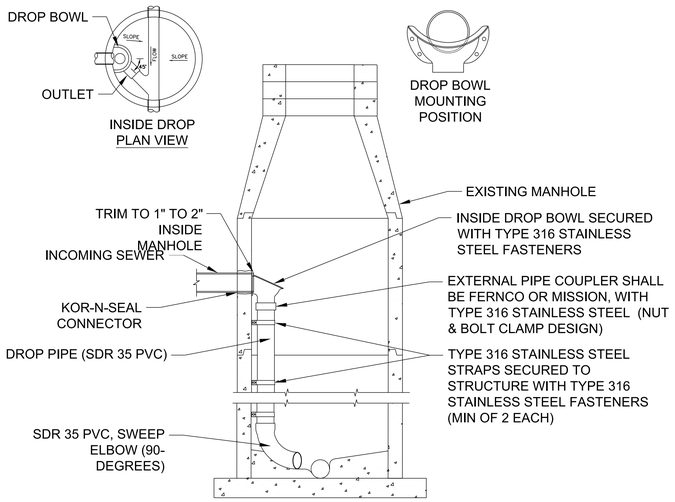
NTS

3305-730

R.O.W. PLANS

NOTES:

1. MOUNTING DIMENSIONS OF INSIDE DROP BOWL AS REQUIRED BY THE MANUFACTURER.
2. SWEEPING ELBOW INVERT AT BOTTOM OF DROP SHALL NOT BE MORE THAN 2" ABOVE INVERT OF MANHOLE.

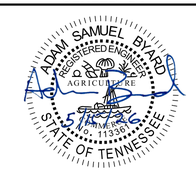


INSIDE DROP BOWL DETAIL

NTS

3305-731

SEALED BY



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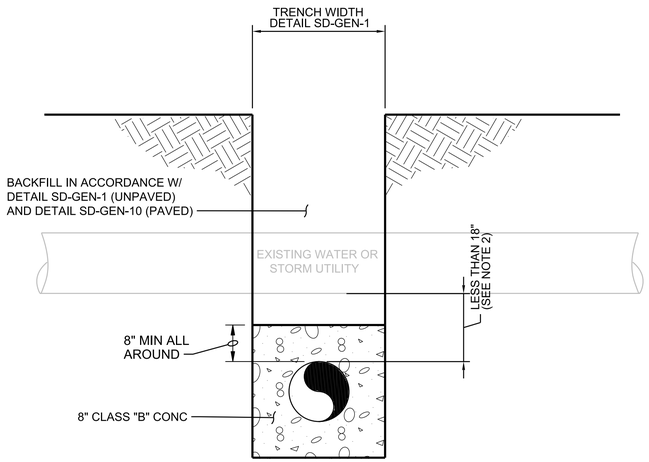
WATER & WASTEWATER TREATMENT AUTHORITY
ESTD 1993
WWTA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

CONSTRUCTION DETAILS
SHEET 1 OF 2

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-16



NOTES:

1. CLASS "B" CONCRETE IS TO BE POURED 36 HOURS BEFORE PLACING BACKFILL.

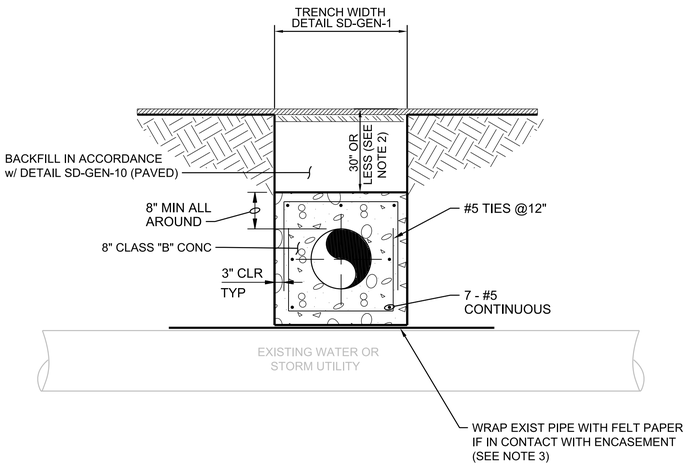
2. CONCRETE ENCASEMENTS ARE NEEDED FOR UTILITY SEPARATIONS OF LESS THAN 18-INCHES. THE MINIMUM THICKNESS OF THE CONCRETE ENCASEMENT IS 8-INCHES BEYOND THE PIPE THICKNESS. WHERE THE CONCRETE ENCASEMENT IS IN CONTACT WITH AN EXISTING PIPE, WRAP THE EXISTING PIPE WITH FELT PAPER TO ACT AS A BOND BREAKER.

3. IF THE CONCRETE ENCASEMENT IS WITHIN 30-INCHES OF FINAL GRADE WITHIN PAVEMENT, THE ENCASEMENT SHALL BE REINFORCED PER DETAIL 3305-951.

4. WHEN CONCRETE ENCASEMENTS ARE NEEDED FOR UTILITY SEPARATIONS THE CONCRETE ENCASEMENT MUST EXTEND 10 FT IN EITHER DIRECTION FOR A TOTAL OF 20 FT.

CONCRETE PIPE ENCASEMENT

3305-950



NOTES:

1. CLASS "B" CONCRETE IS TO BE POURED 36 HOURS BEFORE PLACING BACKFILL.

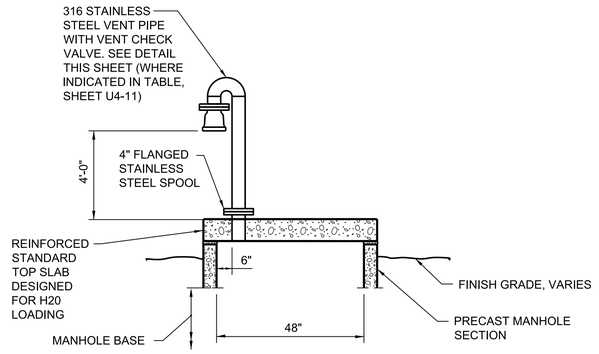
2. REINFORCED CONCRETE ENCASEMENTS ARE NEEDED FOR UTILITY SEPARATIONS OF LESS THAN 18-INCHES AND WITHIN 30-INCHES OF FINAL GRADE WITHIN PAVEMENT.

3. WHERE THE CONCRETE ENCASEMENT IS IN CONTACT WITH AN EXISTING PIPE, WRAP TOP OF EXISTING PIPE WITH FELT PAPER TO ACT AS A BOND BREAKER.

4. WHEN CONCRETE ENCASEMENTS ARE NEEDED FOR UTILITY SEPARATIONS THE CONCRETE ENCASEMENT MUST EXTEND 10 FT IN EITHER DIRECTION FOR A TOTAL OF 20 FT OR AS SPECIFIED ON PLANS.

REINFORCED CONCRETE PIPE ENCASEMENT

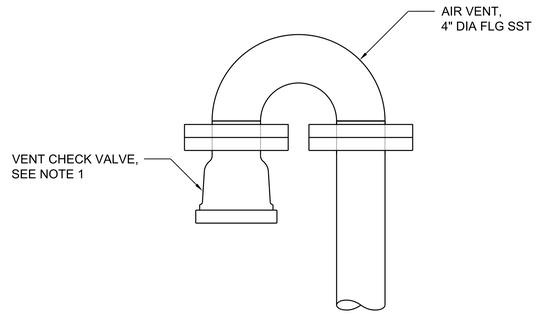
3305-951



NOTE: WHERE EXISTING MANHOLES ARE VENTED, PROVIDE MANHOLE VENT IN ACCORDANCE WITH DETAILS THIS SHEET.

SST VENT STACK WITH CHECK VALVE

3305-952

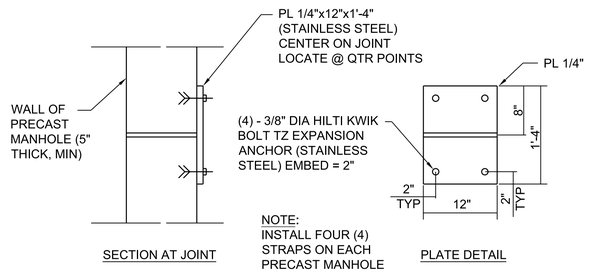


NOTES:

1. VENT CHECK VALVE SHALL HAVE A 316 SST BODY WITH A FLANGED CONN, SST MACHINED SEAT W/ POSITIVE SEAL, HIGH DENSITY POLYETHYLENE FLOAT AND CAP W/ 316 SST SCREEN BOLTED THROUGH CAP TO THE BODY USING 316 SST ANCHORS, MAX LEAKAGE OF 400 GALLONS PER DAY DURING SUBMERGENCE,MANUFACTURED BY WAGER COMPANY, 1700 SERIES OR APPROVED EQUAL.

MANHOLE VENT WITH CHECK VALVE

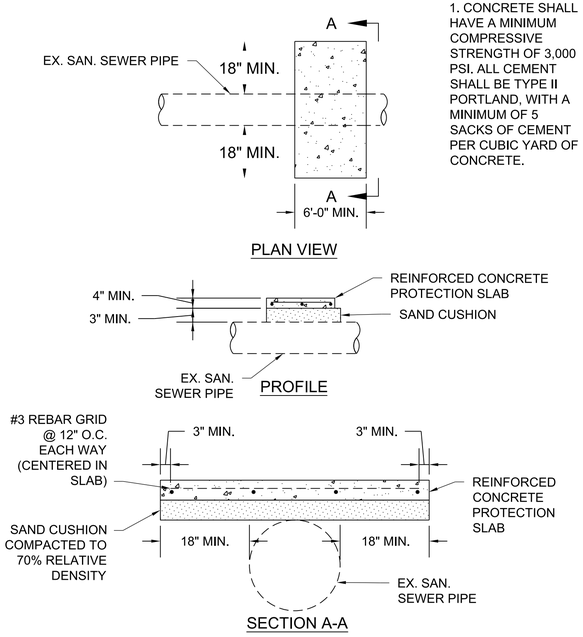
3305-953



NOTE:
INSTALL FOUR (4) STRAPS ON EACH PRECAST MANHOLE JOINT

MANHOLE STRAP DETAIL

3305-954



1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI. ALL CEMENT SHALL BE TYPE II PORTLAND, WITH A MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.

REINFORCED CONCRETE PROTECTION SLAB OVER EXISTING PIPE

3305-955

R.O.W. PLANS

SEALED BY

ADAM SAMUEL BYARD
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE

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Jacobs

WATER & WASTEWATER TREATMENT AUTHORITY
ESTD 1993
WWTA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

CONSTRUCTION DETAILS
SHEET 2 OF 2

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-1

HAMILTON COUNTY WATER AND WASTEWATER TREATMENT AUTHORITY
SIGNAL MOUNTAIN
GRAVITY SEWER REHABILITATION

DRAWING INDEX

SHT	DWG	DESCRIPTION
1	U4-1	COVER SHEET
2	U4-2	GENERAL NOTES
3	U4-3	DRAWING INDEX / OVERALL PLAN
4	U4-4	PLAN SIGNAL MOUNTAIN GRAVITY SEWER REHABILITATION STA 00+00 THROUGH STA 13+00
5	U4-5	PLAN SIGNAL MOUNTAIN GRAVITY SEWER REHABILITATION STA 13+00 THROUGH STA 26+75
6	U4-6	PLAN SIGNAL MOUNTAIN GRAVITY SEWER REHABILITATION STA 26+75 THROUGH STA 37+43 STA 00+00 TO 06+75
7	U4-7	PROFILE SIGNAL MOUNTAIN GRAVITY SEWER REHABILITATION STA 00+00 THROUGH STA 13+00
8	U4-8	PROFILE SIGNAL MOUNTAIN GRAVITY SEWER REHABILITATION STA 13+00 THROUGH STA 26+75
9	U4-9	PROFILE SIGNAL MOUNTAIN GRAVITY SEWER REHABILITATION STA 26+75 THROUGH STA 37+43 STA 00+00 TO 06+75
10	U4-10	MH #28A RELOCATION AT MUSHROOM WAY
11	U4-11	PIPE SCHEDULE
12	U4-12	MANHOLE SCHEDULE
13	U4-13	TDOT STANDARD DETAILS SHEET 1 OF 2
14	U4-14	TDOT STANDARD DETAILS SHEET 2 OF 2
15	U4-15	CONSTRUCTION DETAILS SHEET 1 OF 2
16	U4-16	CONSTRUCTION DETAILS SHEET 2 OF 2

TDOT Item No.	Item Description	Unit	Quantity	
797-01.53	VENT PIPE ASSEMBLY	EACH	2	Footnote 18
797-04.60	8IN DIP REST JNT GAV SEWR 0FT-6FT	LF	50	Footnote 1
797-04.64	10IN DIP REST JNT GRAV SEWR 0FT-6FT DPTH	LF	50	Footnote 1
797-05.41	6IN DIP SERVICE LATERAL	LF	85	Footnote 22
797-05.45	10IN CURED IN PLACE PIPE (CIPP)	LF	583	Footnote 17
797-05.46	12IN CURED IN PLACE PIPE (CIPP)	LF	3,508	Footnote 17
797-05.49	CIPP LABORATORY TESTING	LS	1	Footnote 21
797-07.01	48IN MANHOLE 0FT-4FT DEPTH	EACH	3	Footnote 4
797-07.02	48IN MANHOLE 4FT-6FT DEPTH	EACH	2	Footnote 4
797-07.03	48IN MANHOLE, 6'-8' DEPTH	EACH	1	Footnote 4
797-07.56	MANHOLE DROP CONNECTION ASSEMBLY	EACH	2	Footnote 6
797-07.80	REMOVE SEWER MANHOLE	EACH	1	Footnote 20
797-11.10	48IN MANHOLE REHABILITATION	VF	85	Footnote 13
797-11.31	RETIRE IN PLACE EXISTING SEWER 8IN-14IN	LF	35	Footnote 9
797-11.38	BY-PASS PUMPING	LS	1	Footnote 8
797-11.39	TV INSPECTION	LF	8,182	Footnote 15
797-11.50	FRAME AND COVER (WATERTIGHT)	EACH	14	Footnote 23
797-40.01	CONCRETE ENCASEMENT	LF	105	Footnote 24

FOOTNOTES

1. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE EXCAVATION INCLUDING BUT NOT LIMITED TO BEDDING, BACKFILLING, THRUST BLOCKING, PIPE FUSION, APPURTENANCES, FLOWABLE FILL, MAINTAINING THE TRENCH, TESTING, CHECK DAMS, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE FOR GRAVITY SEWER LINES OR FORCE MAINS AS SPECIFIED ON THE PLANS. DUCTILE IRON PIPE GRAVITY SEWER LINES SHALL BE EPOXY LINED.

4. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY FOR INSTALLATION OF PRECAST MANHOLE BOTH PREFORMED BASE OR OPEN BOTTOM (DOGHOUSE), INCLUDING BUT NOT LIMITED TO VENT ASSEMBLY (WHERE REQUIRED), CRUSHED STONE, PIPE TO MANHOLE CONNECTORS, EXCAVATION, BACKFILL, BUTYL RESIN GASKET, MANHOLE STEPS, ASPHALTIC WATERPROOFING, FRAME AND COVER, AND TRAFFIC CONTROL.

6. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT, INCLUDING, BUT NOT LIMITED TO MACHINERY, TOOLS, OR APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBLIES AS DESCRIBED AND DETAILED IN THE PLANS AND SPECIFICATIONS.

8. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR INTERNAL OR EXTERNAL POINT REPAIRS AS SPECIFIED ON THE BID FORM.

9. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR RETIRE IN PLACE OR REMOVE ITEMS AS SPECIFIED ON THE BID FORM INCLUDING TRAFFIC CONTROL.

13. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE REHABILITATION OF MANHOLE BUT NOT LIMITED TO STRUCTURAL REPAIR, SEALING/COATING OF INTERIOR, AND TESTING.

15. INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, CLEANING OF SEWER LINE ROOT REMOVAL IF REQUIRED, SEWER FLOW CONTROL, TELEVISION INSPECTION, WRITTEN LOG, COPY OF INSPECTION DVD, AND ALL APPURTENANCES COMPLETE IN PLACE. THIS ITEM DESCRIPTION IS TO BE USED FOR PRE- AND POST-TELEVISION INSPECTION

17. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INSTALLATION OF CIPP INCLUDING BUT NOT LIMITED TO TESTING, REHABILITATION WORK, AND ANY INCIDENTAL ITEMS REQUIRED TO COMPLETE FOR SEWER LINES AS SPECIFIED ON THE PLANS. NO ADDITIONAL PAYMENT WILL BE MADE FOR BYPASS PUMPING, SPECIAL METHODS, MEANS, TECHNIQUES, OR EQUIPMENT NECESSARY FOR COMPLIANCE WITH PROJECT REQUIREMENTS. MEASUREMENT SHALL BE FROM CENTERLINE OF MANHOLE TO CENTERLINE OF MANHOLE.

18. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INSTALLATION OF VENT PIPE ASSEMBLY INCLUDING BUT NOT LIMITED TO EXCAVATION, BACKFILL, PIPE, FITTINGS, SUPPORTS, CONCRETE BASE OR PAD (WHERE REQUIRED), CONNECTIONS TO MANHOLE OR STRUCTURE, VENT CAP, COATINGS, CORROSION PROTECTION, TRAFFIC CONTROL, TESTING, AND ANY INCIDENTAL WORK NECESSARY TO COMPLETE THE VENT ASSEMBLY IN PLACE AS SHOWN ON THE PLANS.

20. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE REMOVAL OF EXISTING SEWER MANHOLE INCLUDING BUT NOT LIMITED TO DEMOLITION OF FRAME, COVER, RISERS, AND STRUCTURE; REMOVAL AND DISPOSAL OF ALL DEBRIS; DISCONNECTION OR PLUGGING OF EXISTING PIPES AS REQUIRED; BACKFILLING AND COMPACTION.

21. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE CIPP LABORATORY TESTING INCLUDING BUT NOT LIMITED TO SAMPLE COLLECTION, PREPARATION, SHIPPING, LABORATORY FEES, PHYSICAL PROPERTY TESTING, REPORTING, CERTIFICATION OF RESULTS.

22. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INSTALLATION OR REPLACEMENT OF SEWER SERVICE LATERAL INCLUDING BUT NOT LIMITED TO EXCAVATION, BEDDING, PIPE, FITTINGS, CONNECTION TO MAIN LINE OR MANHOLE, CLEANOUTS, BACKFILL, COMPACTION, SURFACE RESTORATION INCLUDING ASPHALT, CONCRETE, OR LANDSCAPING, TESTING, TRAFFIC CONTROL, AND ANY INCIDENTAL WORK NECESSARY TO COMPLETE THE SERVICE LATERAL IN PLACE AS SHOWN ON THE PLANS.

23. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INSTALLATION OF NEW MANHOLE WITH WATERTIGHT FRAME AND COVER INCLUDING BUT NOT LIMITED TO EXCAVATION, DEWATERING, BEDDING, BASE PREPARATION, PRECAST SECTIONS, CONES, RISERS, PIPE CONNECTIONS, BOOTS OR CONNECTORS, INTERNAL AND EXTERNAL SEALING, INSTALLATION OF WATERTIGHT FRAME AND COVER, GASKETS, SEALANTS, GROUTING, BACKFILL, COMPACTION, ASPHALT OR CONCRETE SURFACE RESTORATION, TRAFFIC CONTROL, TESTING, AND ANY INCIDENTAL WORK NECESSARY TO COMPLETE THE MANHOLE IN PLACE AS SHOWN ON THE PLANS AND ON MANHOLE SCHEDULE SHEET U4-12.

24. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE SEWER CONCRETE ENCASEMENT INCLUDING BUT NOT LIMITED TO EXCAVATION, BEDDING, FORMING, REINFORCEMENT (WHERE REQUIRED), CONCRETE PLACEMENT, FINISHING, CURING, PIPE SUPPORT AND ALIGNMENT, BACKFILL, COMPACTION, SURFACE RESTORATION INCLUDING ASPHALT OR CONCRETE, TRAFFIC CONTROL, AND ANY INCIDENTAL WORK NECESSARY TO COMPLETE THE ENCASEMENT IN PLACE AS SHOWN ON THE PLANS.

WWTA BOARD

ALICE CANNELLA, CHAIR
WAYNE BEHLAU, VICE-CHAIR
BILL MCGRIFF, COMMISSIONER
WALKER JONES, COMMISSIONER
JACK KRUSEI, COMMISSIONER
DOUG FISHER, COMMISSIONER
DARIAN COLLINS, COMMISSIONER
JAY BELL, COMMISSIONER
LESLIE SLAY, COMMISSIONER
MATTHEW JUSTICE, COMMISSIONER
STEVE LEACH, COMMISSIONER
MAX LOWE, COMMISSIONER

EXECUTIVE DIRECTOR

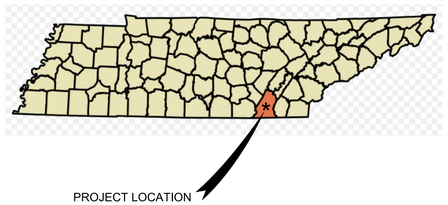
MICHAEL PATRICK, P.E.

ERIC BROOKS, P.E. CHIEF ENGINEER

THESE PLANS HAVE BEEN REVIEWED AND ARE APPROVED FOR RELEASE BY THE WWTA

ERIC BROOKS, P.E. CHIEF ENGINEER DATE

MAY 2026



B-DATE SET

R.O.W.
PLANS

SEALED BY

COORDINATES ARE NAD 83(2001), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

Jacobs

WATER & WASTEWATER TREATMENT AUTHORITY ESTD 1993 WWTA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

COVER SHEET

GENERAL NOTES TO CONTRACTOR

STANDARD UTILITY NOTES

(1) EXCEPT FOR EROSION AND SEDIMENT CONTROL ITEMS, NO ROADWAY OR BRIDGE ITEMS SHALL BE UTILIZED TO COMPENSATE FOR WORK METHODS OR MATERIALS ASSOCIATED WITH AND/OR SPECIFIED FOR THE UTILITY INSTALLATION, EVEN THOUGH THE SAME OR SIMILAR ROADWAY OR BRIDGE MATERIALS MAY HAVE BEEN CALLED FOR IN THE UTILITY SPECIFICATIONS OR DRAWINGS.

(2) ALL MATERIALS, METHODS, AND/OR INTEGRAL MATERIALS OUTLINED IN THE UTILITY SPECIFICATIONS OR DRAWINGS NECESSARY TO PROVIDE COMPLETE AND FUNCTIONAL INSTALLATION MUST BE INCLUDED IN THE UNIT PRICE FOR THE ASSOCIATED UTILITY WORK ITEM.

(3) THE CONTRACTOR MUST MAINTAIN ALL SERVICES DURING THE CONSTRUCTION OF THE RELOCATED FACILITY. ANY COSTS ASSOCIATED WITH INSTALLATION OF REQUIRED TEMPORARY SERVICE LINES DUE TO THE ROADWAY CONSTRUCTION SEQUENCE OF WORK (I.E., CUTS, FILLS, PHASING, ETC.) SHALL BE INCLUDED IN THE COST OF THE PERMANENT UTILITY ITEMS. (NOTE TO UTILITY: A SPECIFICTEMPORIZATION ITEM CAN BE INCLUDED IN THE PLANS IF IT IS A MAJOR ITEM OF WORK).

(4) IT SHALL BE THE RESPONSIBILITY OF THE PRIME CONTRACTOR'S SURVEYOR TO LAY OUT ALL THE FACILITIES BEING RELOCATED WITHIN THE CONTRACT.

(5) FOR BURIED UTILITIES, THE PRIME CONTRACTOR OR HIS SUBCONTRACTOR SHALL BE REQUIRED TO PROVIDE TO THE UTILITY UPON COMPLETION OF THE UTILITY'S RELOCATION WORK A SET OF AS-BUILT DRAWINGS FOR THEIR RECORDS. THESE AS-BUILT DRAWINGS SHOULD BE PREPARED AS THE JOB PROGRESSES TO ENSURE THEIR ACCURACY.

(6) WHERE EROSION CONTROL MEASURES ARE NEEDED FOR THE UTILITY RELOCATION WORK OCCURRING INSIDE OR OUTSIDE STATE RIGHT-OF-WAY, THE CONTRACTOR SHALL SUBMIT TO THE TDOT PROJECT SUPERVISOR FOR APPROVAL A PROPOSED EROSION AND SEDIMENT CONTROL PLAN PRIOR TO BEGINNING THE WORK. TDOT APROVAL MUST BE RECEIVED BEFORE THE EROSION CONTROL PAY ITEMS FOR ROADWAY CONSTRUCTION CAN BE USED FOR ANY ADDITIONAL EROSION CONTROL MEASURES REQUIRED FOR THE UTILITY RELOCATION WORK.

(7) DRIVEWAY, SIDEWALK AND ROADWAY TEMPORARY RESTORATION SHALL BE PART OF THE IN-PLACE COST OF PLACING THE UTILITY ITEM WITHIN THE ROW.

(8) ANY EXCAVATION OF THE STREAM CHANNEL AREA SHALL BE SEPARATED FROM FLOWING WATER AND ACCOMPLISHED DURING LOW FLOW CONDITIONS. THIS SHALL BE ACCOMPLISHED BY THE USE OF FLUMES, LINED DIVERSION CHANNEL WITH SANDBAG BERM, DIVERSION PIPE WITH SANDBAG DAM AT PIPE INLET, OR IN SOME CASES COFFERDAMS. ALTERNATIVELY, BASED ON FIELD CONDITIONS AND CONTRACTOR SELECTION, THE UTILITY RELOCATION MAY BE ACCOMPLISHED USING BORE TECHNOLOGY WITH NO STREAM CHANNEL IMPACTS.

DAMAGES TO EXISTING UTILITIES

(9) REPAIRS AND/OR REPLACEMENTS TO ANY UTILITIES DAMAGED BY CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO ADDITIONAL PAYMENT WILL BE ALLOWED.

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL ACCESS REQUIRED ON THE PROJECT.

2. ALL SPECIFICATIONS, DRAWINGS, AND DETAILS INCLUDED IN THE CONTRACT DOCUMENTS SHALL FULLY APPLY TO THE WORK WHETHER SPECIFICALLY REFERENCED OR NOT.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL STATE, LOCAL AND TDOT REQUIREMENTS FOR ALL TRAFFIC CONTROL ACTIVITIES. NO ADDITIONAL PAYMENT WILL BE MADE FOR THESE ACTIVITIES. COSTS ASSOCIATED WITH TRAFFIC CONTROL SHALL BE CONSIDERED INCIDENTAL TO OTHER BID ITEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL PERMITS AND ANY APPLICABLE WORK ZONE PERMIT REQUIREMENTS PER WWTA OR SURROUNDING AUTHORITIES.

4. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, SIZE, AND CONDITION OF ALL EXISTING UTILITIES LOCATED WITHIN THE CONSTRUCTION SITE. ANY CONFLICTS OR CONCERNS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER WITHIN 10 DAYS. NO RESPONSIBILITY IS ASSUMED BY THE OWNER OR ENGINEER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY ALL POTENTIAL UTILITY OWNERS WHOSE FACILITIES WILL BE AFFECTED TO DETERMINE UTILITY LOCATIONS. THE CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE CAUSED BY HIS OPERATIONS OR THOSE OF HIS AGENTS.

5. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL MANHOLES AND SEWER LINES.

6. CONTRACTOR IS RESPONSIBLE TO PROVIDE AND MAINTAIN ADEQUATE DEWATERING AND GROUNDWATER CONTROL.

7. CONTRACTOR SHALL COORDINATE WITH SIGNAL MOUNTAIN WATER UTILITY FOR ACCESS TO HYDRANTS FOR POTABLE WATER. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS AND PAYING FOR ALL FEES AND COST OF USAGE.

8. PRIOR TO BEGINNING WORK, CONTRACTOR SHALL VERIFY ALL DIMENSIONS.

9. ANY IMPROVEMENTS NECESSARY TO OBTAIN ACCESS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE CONSIDERED INCIDENTAL AND NO DIRECT PAYMENT WILL BE MADE. CONTRACTOR IS RESPONSIBLE FOR OBTAINING WRITTEN AND SIGNED RIGHT OF ENTRY AGREEMENTS FROM ALL LANDOWNERS OF PROPERTY THAT WILL BE USED OR IMPACTED BY THE PROJECT FOR ANY REASON. CONTRACTOR SHALL SUBMIT A RIGHT OF ENTRY AGREEMENT TO THE OWNER FOR REVIEW PRIOR TO USING IT FOR THE PROJECT. SUBMIT TO OWNER A COPY FOR ALL SIGNED RIGHT OF ENTRY AGREEMENTS. UPON COMPLETION OF WORK AND RESTORATION OF THE PROJECT SITE, CONTRACTOR SHALL OBTAIN A SIGNED CERTIFICATE OF PROPERTY RESTORATION FORM FROM ALL PROPERTY OWNERS FOR WHICH A RIGHT OF ENTRY AGREEMENT WAS SUBMITTED.

10. CONTRACTOR IS RESPONSIBLE FOR OBTAINING WRITTEN AGREEMENTS FROM LANDOWNERS OF PROPERTY THAT WILL BE USED FOR EQUIPMENT OR MATERIAL STORAGE AND STAGING. PROVIDE THE OWNER WITH A COPY OF THESE WRITTEN AGREEMENTS.

11. PLAN DIMENSIONS FOR SEWER LINES ARE FROM EXISTING ACCESS MANHOLE TO EXISTING ACCESS MANHOLE AND MAY DIFFER FROM BID FORM QUANTITIES, WHICH ARE BASED UPON ESTIMATED INSTALLED LINER LENGTHS THAT LINE THROUGH EXISTING MANHOLES AS NOTED ON PLANS.

12. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS DESCRIBED IN THE PERMITS CONTAINED IN THE SPECIFICATIONS.

13. BYPASS PUMPING:
13.1 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BYPASS PUMPING AS REQUIRED FOR THE PROJECT.

14. CONTRACTOR IS TO UTILIZE WATER CURING (OR UV AS ALTERNATE) FOR CIPP LINER; STEAM CURING WILL NOT BE ALLOWED UNLESS OTHERWISE SPECIFIED BY OWNER.

15. CONTRACTOR SHALL SAVE MANHOLE FRAMES AND COVERS AND RELOCATE THEM TO AN AGREED UPON LOCATION PER THE OWNER'S REQUEST.

16. CONTRACTOR IS RESPONSIBLE FOR ALL SITE RESTORATION AS REQUIRED.

17. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL TEMPORARY CONSTRUCTION EASEMENTS AS REQUIRED FOR THE PROJECT WORK.

18. CONTRACTOR SHALL LOCATE AND INSPECT MANHOLES PRIOR TO REHABILITATION. ENGINEER SHALL BE NOTIFIED OF ANY DROP MANHOLES PRIOR TO CONTRACTOR ORDERING MATERIALS.

19. CONTRACTOR IS RESPONSIBLE TO CONTROL STYRENE ODORS IN ACCORDANCE WITH NIOSH AND OSHA REGULATIONS DURING CURED-IN-PLACE PIPE INSTALLATION. SEE SPECIFICATION 33 01 30.70 FOR SPECIFIC ODOR CONTROL AND AIR QUALITY CONTROL MEASURES.

20. THE CONTRACTOR SHALL HOLD WWTA HARMLESS FOR ANY THIRD-PARTY INCONVENIENCE CREATED BY WORK OF HIS OWN FORCES OR THAT OF HIS AGENTS. ANY DAMAGES INCURRED SHALL BE THE CONTRACTOR'S FINANCIAL RESPONSIBILITY.

21. FOR SEGMENTS DESIGNATED FOR CIPP LINING, THE CONTRACTOR IS RESPONSIBLE TO VERIFY LOCATIONS OF SERVICE LATERALS, TO DETERMINE WHICH SERVICE LATERALS ARE ACTIVE, AND WHICH ARE ABANDONED. EACH SERVICE LATERAL THAT IS FOUND TO BE ACTIVE SHALL BE CUT OPEN. SERVICE LATERALS THAT ARE FOUND TO BE ABANDONED SHALL FIRST BE CONFIRMED BY THE ENGINEER AND WWTA, AND IF VERIFIED SHALL BE LINED THROUGH AND NOT CUT OPEN.

22. CONTRACTOR IS RESPONSIBLE TO INDICATE LOCATIONS OF ALL SERVICE LATERALS ON THE RECORD DRAWINGS WITH DIRECTION AND DISTANCE FROM UPSTREAM MANHOLE. EACH SERVICE LATERAL SHALL BE LABELED AS "CUT OPEN AFTER CIPP" OR "LINED THROUGH."

23. IF UTILITY RELOCATIONS ARE REQUIRED TO PERFORM THE WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY OWNER AND COORDINATE THE TEMPORARY OR PERMANENT RELOCATION. THE CONTRACTOR SHALL COORDINATE ANY RELOCATION WORK WITH VARIOUS UTILITY OWNERS SO AS NOT TO ADVERSELY AFFECT THE PROJECT SCHEDULE. WWTA WILL NOT BE HELD RESPONSIBLE FOR ANY DELAY OR DISRUPTIONS TO THE WORK SCHEDULE OF OTHER UTILITY OWNERS. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE OTHER ITEMS OF CONSTRUCTION.

GENERAL NOTES (CONTINUED)

24. UTILITY OWNERS ARE TO RESET, RELAY, OR ADJUST, AT THEIR OWN EXPENSE, POWER AND TELEPHONE LINES, POWER POLES, WATER AND GAS LINES, AND ALL OTHER FACILITIES INCLUDING METERS, VALVES, PITS, ETC., CONFLICTING WITH THE PROPOSED IMPROVEMENTS WITHIN THE EXISTING SEWER RIGHT-OF-WAY. ALL RELOCATED POLES, METERS, VALVES, ETC., ARE TO BE LOCATED BEHIND THE SIDEWALK OR ON THE RIGHT-OF-WAY LINE.

25. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITY OWNERS PRIOR TO SUBMITTING THEIR BID, SO THAT HE MAY DETERMINE THE EXTENT OF DELAYS THAT UTILITY RELOCATIONS AND/OR ADJUSTMENTS MAY HAVE UPON THE SCHEDULING OF WORK FOR THE PROJECT. SOME UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE OPERATIONS, WHILE SOME WORK MAY BE REQUIRED AROUND UTILITY FACILITIES THAT SHALL REMAIN IN PLACE. IT IS SPECIFIED AND AGREED THAT THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS OR INCONVENIENCE CAUSED BY UTILITY ADJUSTMENTS.

26. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY OWNERS PRIOR TO INTERRUPTING ANY GAS, WATER, ELECTRIC, OR SEWER SERVICES. THE CONTRACTOR SHALL ALSO NOTIFY THE AFFECTED UTILITY CUSTOMERS AT LEAST 24 HOURS BEFORE INTERRUPTING THE CUSTOMER'S SERVICE. WHERE INDIVIDUAL SERVICES ARE TO BE DISCONTINUED FOR MORE THAN 4 HOURS THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR PROVIDING TEMPORARY SERVICE SATISFACTORY TO THE AFFECTED CUSTOMER. THE REPAIR OR REPLACEMENT OF UTILITY COMPONENTS SHALL CONFORM TO ALL THE APPLICABLE REQUIREMENTS OF THE UTILITY OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THESE ACTIVITIES, AND COMPENSATION SHALL BE INCLUDED IN THE CONTRACT BID ITEMS.

27. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. SHOULD SPECIAL EQUIPMENT BE REQUIRED TO WORK OVER AND AROUND THE UTILITIES,THE CONTRACTOR SHALL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FROM FURNISHING SPECIAL EQUIPMENT SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

28. SHOULD ANY SANITARY SEWER FORCE MAINS BE ENCOUNTERED DURING THE CONSTRUCTION, THE CONTRACTOR SHALL STOP EXCAVATION IN THE AREA AND IMMEDIATELY NOTIFY WWTA.

29. THE OWNER MAKES NO REPRESENTATIONS ABOUT SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED WITHIN THE LIMITS OF THE PROJECT. THEREFORE, THE CONTRACTOR SHOULD SATISFY HIMSELF BY ON-SITE INSPECTIONS, CORE DRILLINGS, OR OTHER METHODS, OF THE SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED. THE RISK OF ENCOUNTERING AND CORRECTING UNFAVORABLE SUBSURFACE CONDITION SHALL BE BORNE BY THE CONTRACTOR. ANY PERMITS REQUIRED FOR SUBSURFACE INVESTIGATION(S) SHALL BE OBTAINED BY THE CONTRACTOR.

30. ALL UNSUITABLE MATERIAL, AS DETERMINED BY THE ENGINEER OR THROUGH TESTING, IS TO BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.

31. THE COST OF REMOVING, HAULING, AND DISPOSAL OF UNSUITABLE MATERIAL SHALL BE INCLUDED IN THE UNSUITABLE AND HAZARDOUS MATERIAL REMOVAL AND DISPOSAL PAY ITEM.

32 CONTRACTOR TO STAY WITHIN 20' PRESCRIPTIVE SEWER EASEMENT OR OBTAIN TEMPORARY CONSTRUCTION EASEMENT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-2

R.O.W.
PLANS

SECTION / DETAIL DESIGNATIONS

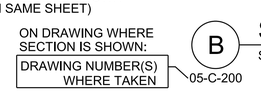
SECTION (LETTER) OR DETAIL (NUMERAL) DESIGNATION

DRAWING NUMBER (REPLACED WITH A LINE IF TAKEN AND SHOWN ON SAME SHEET)

ON DRAWING WHERE SECTION OR DETAIL IS TAKEN:

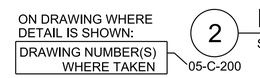


ON DRAWING WHERE SECTION IS SHOWN:
DRAWING NUMBER(S) WHERE TAKEN



SECTION
SCALE

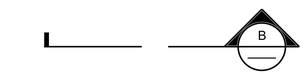
ON DRAWING WHERE DETAIL IS SHOWN:
DRAWING NUMBER(S) WHERE TAKEN



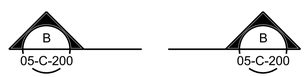
DETAIL
SCALE

DRAWING TITLE
SCALE

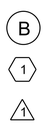
ON DRAWING WHERE ONLY A TITLE IS REQUIRED WITH NO REFERENCE (e.g.: ELEVATIONS)



SECTION CALLOUT WHERE SECTION IS ON THE SAME SHEET AND CUT EXTENDS TO A FIXED LIMIT



SECTION CALLOUT WHERE SECTION IS ON ANOTHER SHEET AND CUT EXTENDS THROUGHOUT ENTIRE SHEET



GRID LINE INDICATOR

KEYNOTE NUMBER

REVISION / ADDENDA NUMBER

ABBREVIATIONS

B.O.P.	BOTTOM OF PIPE
CIPP	CURED-IN-PLACE PIPE
CIP	CAST IRON PIPE
CONC	CONCRETE
CONST.	CONSTRUCTION
DIP	DUCTILE IRON PIPE
EX.	EXISTING
LF	LINEAR FEET
MH	MANHOLE
PERM.	PERMANENT
PROP	PROPOSED
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
R.O.W.	RIGHT OF WAY
STA	STATION
UNK	UNKNOWN

SEALED BY

COORDINATES ARE NAD 83(2001), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

Jacobs

WATER & WASTEWATER TREATMENT AUTHORITY
ESTD 1993
WWTA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

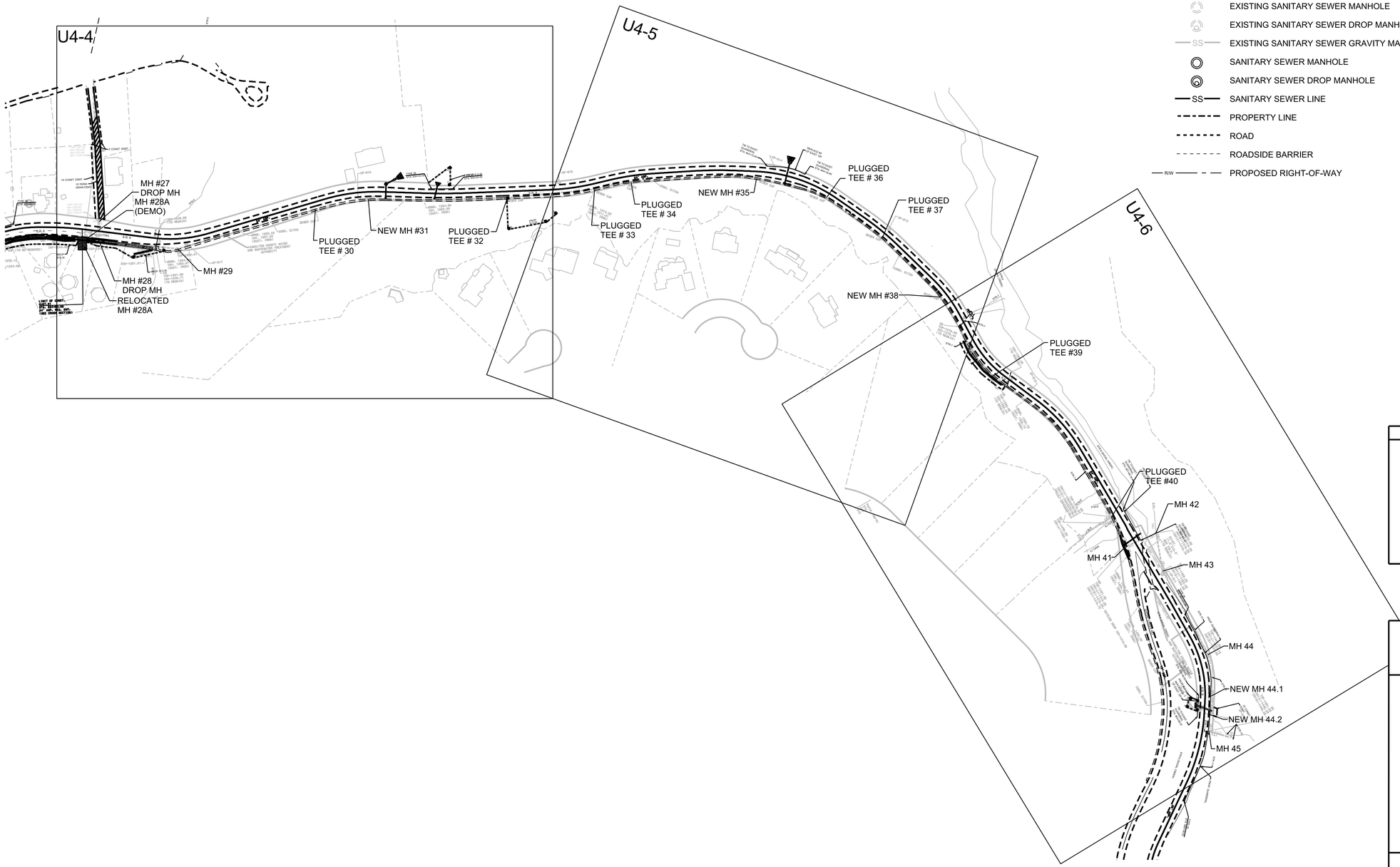
GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-3

LEGEND:

- MATCHLINE
- EXISTING DRAINAGE DITCH
- PROPOSED DRAINAGE STRUCTURE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER DROP MANHOLE
- SS — EXISTING SANITARY SEWER GRAVITY MAIN
- SANITARY SEWER MANHOLE
- SANITARY SEWER DROP MANHOLE
- SS — SANITARY SEWER LINE
- PROPERTY LINE
- ROAD
- ROADSIDE BARRIER
- R/W — PROPOSED RIGHT-OF-WAY

R.O.W. PLANS



OVERALL SEWER ALIGNMENT FOR REHABILITATION
1"= 1800'

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

OVERALL PLAN

SCALE: 1'=50'

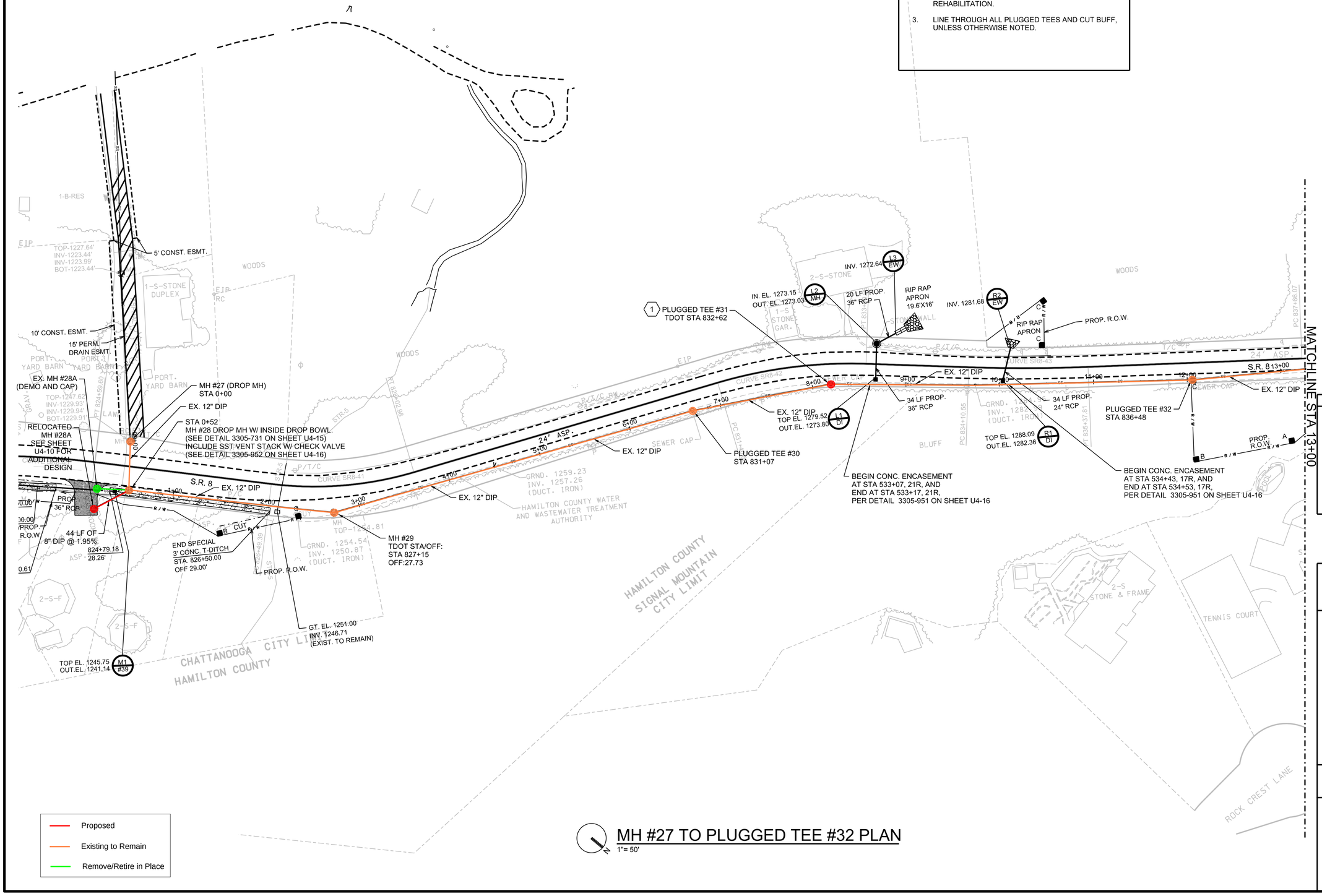
KEY NOTES

1. REMOVE PLUGGED TEE #31 AND SET NEW MANHOLE WITH MANHOLE STRAPS PER DETAIL 3305-954. PROTECT EXISTING 12-INCH PIPE.

GENERAL SHEET NOTES

1. ALL 12" DI PIPE TO BE REHABILITATED WITH CURED IN PLACE PIPE LINER PER SPECIFICATION 33 01 30.70B, UNLESS OTHERWISE NOTED. SEE PIPE SCHEDULE SHEET U4-11 FOR GRAVITY SEWER REHABILITATION.
2. ALL MANHOLES ARE TO BE REHABILITATED WITH TYPE 2 POLYMER RESIN-BASED LINER. SEE MANHOLE SCHEDULE SHEET U4-12 FOR MANHOLE REHABILITATION.
3. LINE THROUGH ALL PLUGGED TEES AND CUT BUFF, UNLESS OTHERWISE NOTED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-4



MH #27 TO PLUGGED TEE #32 PLAN

1"= 50'

R.O.W. PLANS

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

STA. 00+00 SR-8 TO
STA 13+00 SR-8

SCALE: 1'=50'

KEY NOTES

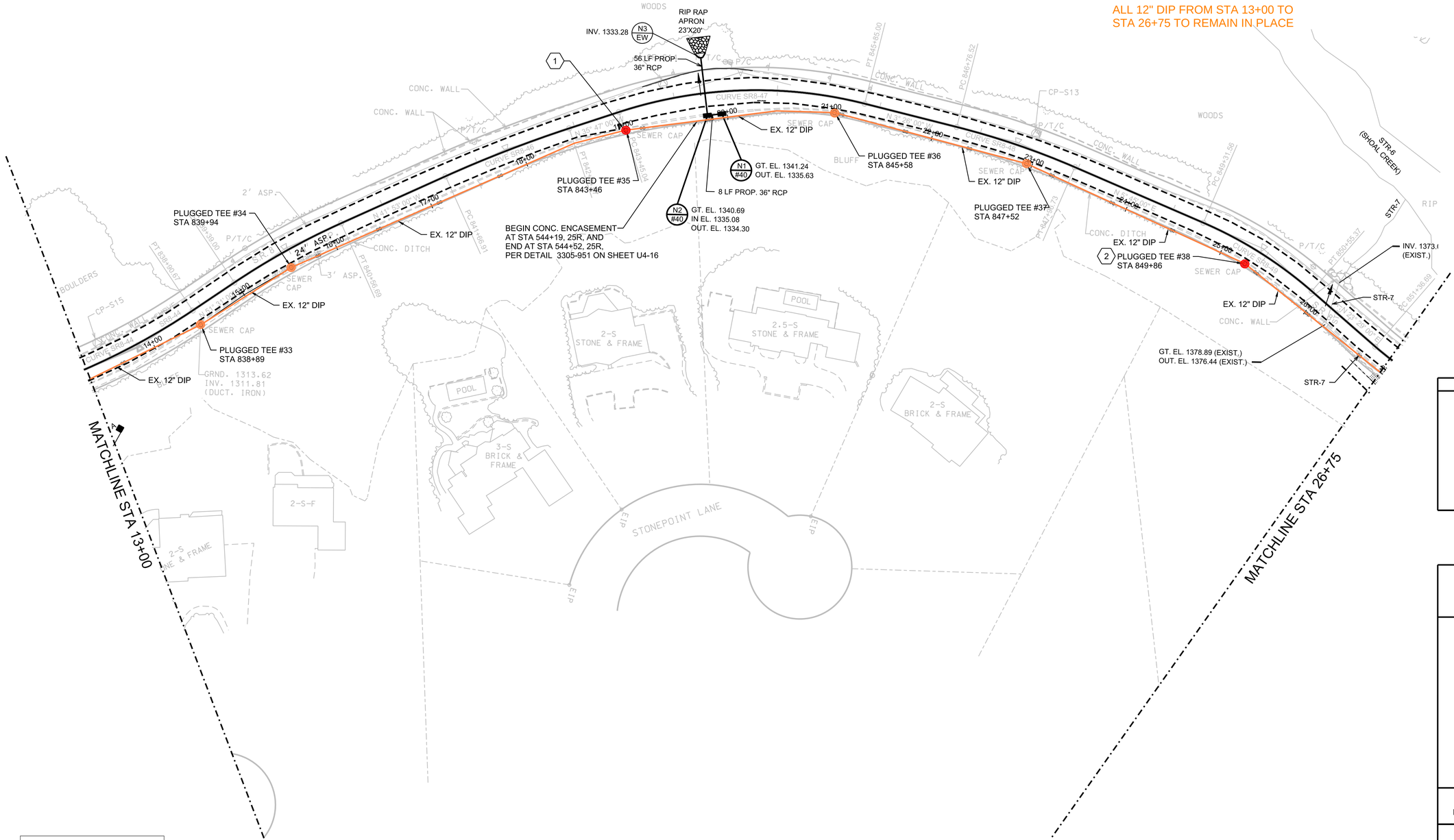
1. REMOVE PLUGGED TEE #35 AND SET NEW MANHOLE WITH MANHOLE STRAPS PER DETAIL 3305-954. PROTECT EXISTING 12-INCH PIPE.
2. REMOVE PLUGGED TEE #38 AND SET NEW MANHOLE WITH MANHOLE STRAPS PER DETAIL 3305-954. PROTECT EXISTING 12-INCH PIPE.

GENERAL SHEET NOTES

1. ALL 12" DI PIPE TO BE REHABILITATED WITH CURED IN PLACE PIPE LINER PER SPECIFICATION 33 01 30.70B, UNLESS OTHERWISE NOTED. SEE PIPE SCHEDULE SHEET U4-11 FOR GRAVITY SEWER REHABILITATION.
2. THERE ARE ZERO CONFLICTS ON THIS SHEET BETWEEN THE PROPOSED STORM DRAINAGE AND THE EXISTING SEWER ALIGNMENT.
3. LINE THROUGH ALL PLUGGED TEES AND CUT BUFF, UNLESS OTHERWISE NOTED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-5

ALL 12" DIP FROM STA 13+00 TO STA 26+75 TO REMAIN IN PLACE



≈ PLUGGED TEE #33 TO PLUGGED TEE #38 PLAN
1"= 50'

R.O.W. PLANS

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

STA. 13+00 SR-8 TO STA 26+75 SR-8

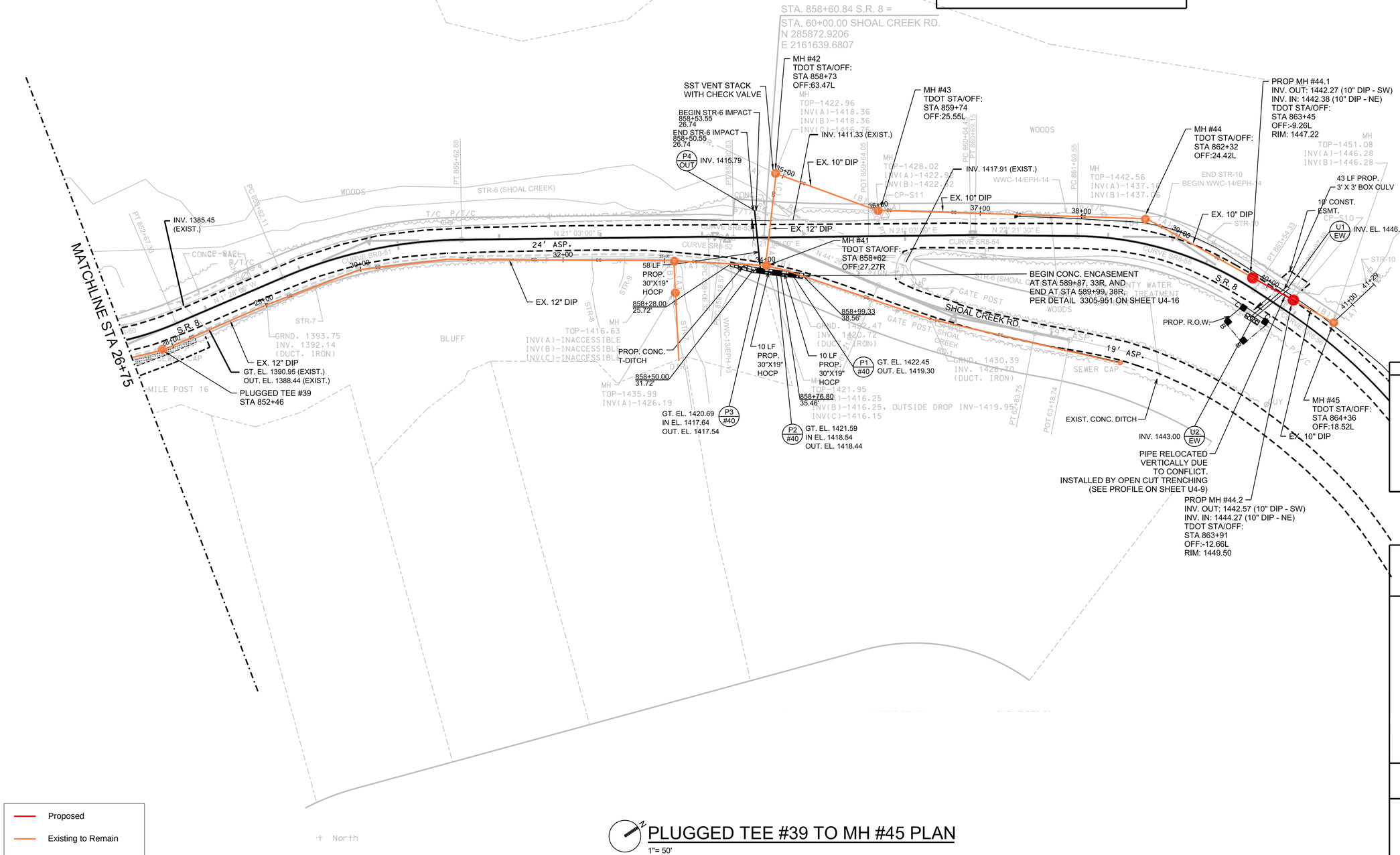
SCALE: 1"=50'

PERMIT DRAWING SET

GENERAL SHEET NOTES

1. ALL 12" DI AND 10" DI PIPE TO BE REHABILITATED WITH CURED IN PLACE PIPE LINER PER SPECIFICATION 33 01 30.70B, UNLESS OTHERWISE NOTED. SEE PIPE SCHEDULE SHEET U4-11 FOR GRAVITY SEWER REHABILITATION
2. ALL MANHOLES ARE TO BE REHABILITATED WITH TYPE 2 POLYMER RESIN-BASED LINER. SEE MANHOLE SCHEDULE SHEET U4-12 FOR MANHOLE REHABILITATION.
3. LINE THROUGH ALL PLUGGED TEES AND CUT BUFF, UNLESS OTHERWISE NOTED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-6



Proposed

Existing to Remain

Remove/Retire in Place

PLUGGED TEE #39 TO MH #45 PLAN

1"= 50'

R.O.W. PLANS

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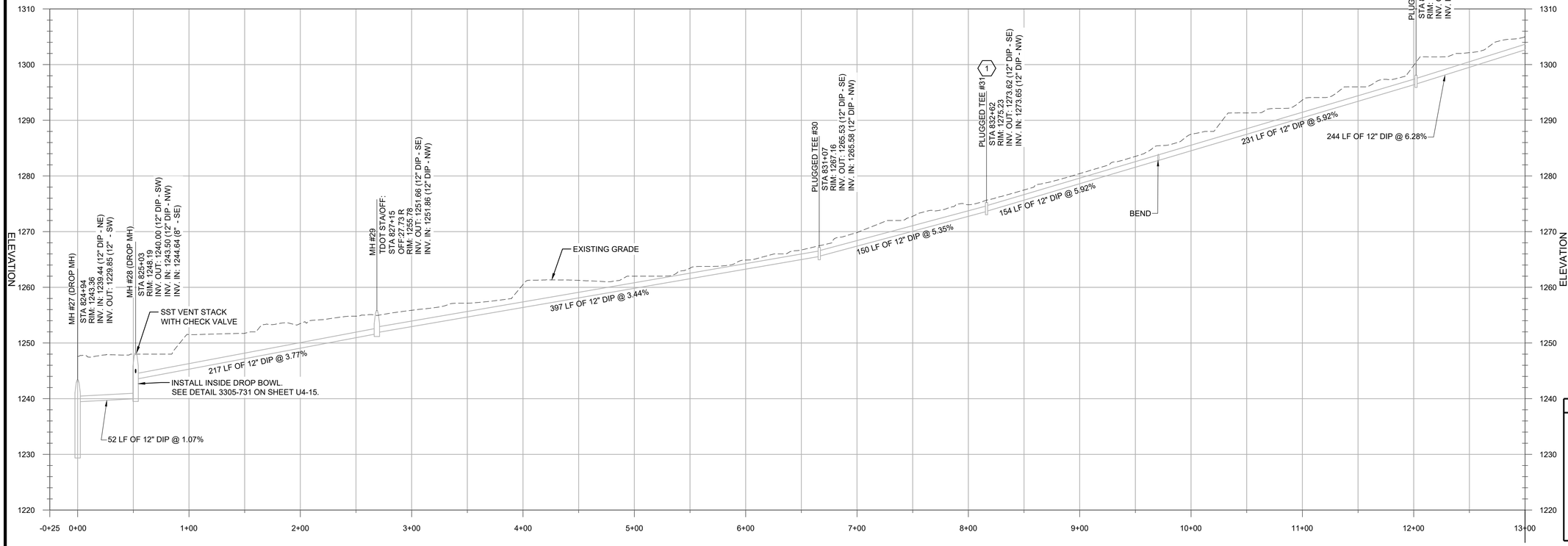
GRAVITY SEWER REHABILITATION

STA. 26+75 SR-8 TO STA 37+43 SR-8
STA. 00+00 SR-8 TO STA 06+75 SR-8

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-7

SIGNAL MOUNTAIN EXISTING GRAVITY SEWER PROFILE
TDOT SR 8 ROAD CENTERLINE STA 824+99.17 TO 836+42.80
PIPE CENTERLINE STA -0+25 TO 13+00
1"=10' HORIZONTAL
1"=2' VERTICAL



MATCHLINE STA 13+00

KEY NOTES

1. REMOVE PLUGGED TEE #31 AND SET NEW MANHOLE WITH MANHOLE STRAPS PER DETAIL 3305-954. PROTECT EXISTING 12-INCH PIPE.

GENERAL NOTES

1. ALL 12" DI PIPE TO BE REHABILITATED WITH CURED IN PLACE PIPE LINER PER SPECIFICATION 33 01 30.70B, UNLESS OTHERWISE NOTED. SEE PIPE SCHEDULE SHEET U4-11 FOR GRAVITY SEWER REHABILITATION.
2. ALL MANHOLES ARE TO BE REHABILITATED WITH TYPE 2 POLYMER RESIN-BASED LINER. SEE MANHOLE SCHEDULE SHEET U4-12 FOR MANHOLE REHABILITATION.
3. THERE ARE ZERO CONFLICTS ON THIS SHEET BETWEEN THE PROPOSED STORM DRAINAGE AND THE EXISTING SEWER ALIGNMENT.
4. LINE THROUGH ALL PLUGGED TEES AND CUT AND BUFF, UNLESS OTHERWISE NOTED.

R.O.W.
PLANS

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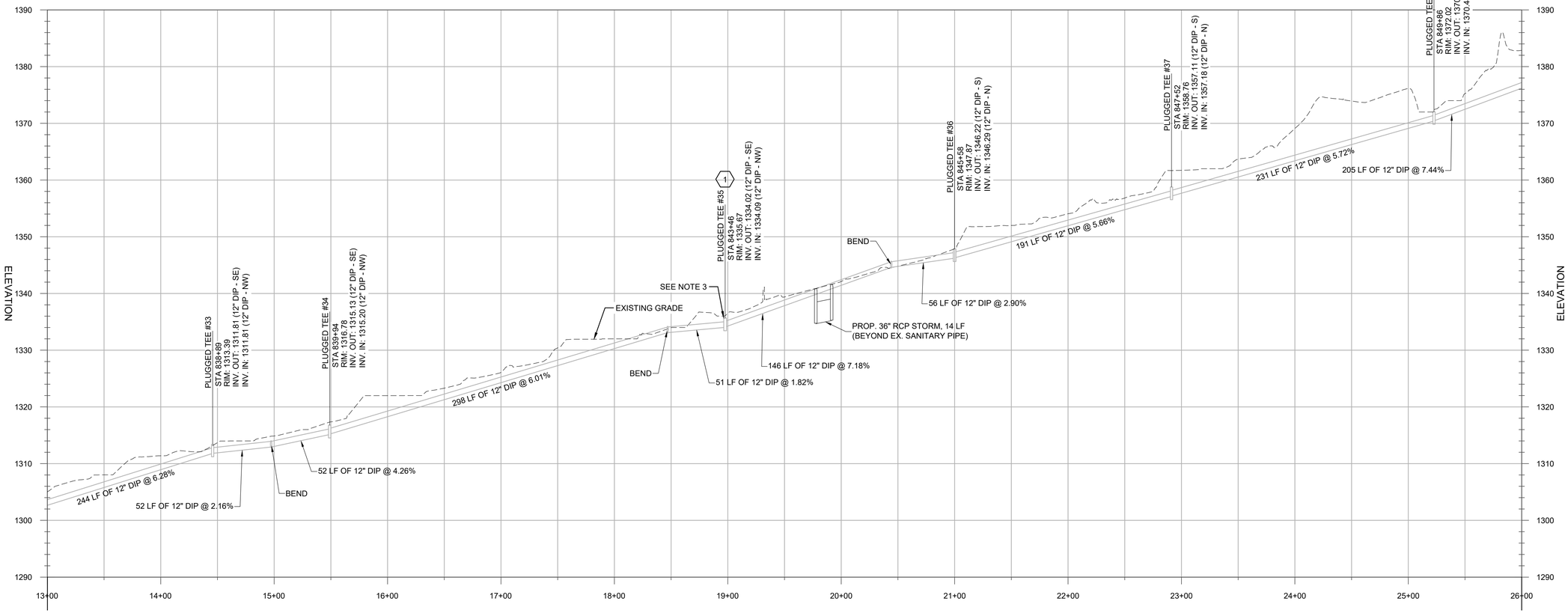
GRAVITY SEWER REHABILITATION

STA. 824+99.17 SR-8 TO
STA 836+42.80 SR-8

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-8

SIGNAL MOUNTAIN EXISTING GRAVITY SEWER PROFILE
TDOT SR 8 ROAD CENTERLINE STA 836+42.807 TO 850+63.40
PIPE CENTERLINE STA 13+00 TO 26+00
1"=10' HORIZONTAL
1"=2' VERTICAL



MATCHLINE STA 13+00

MATCHLINE STA 26+00

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GRAVITY SEWER REHABILITATION

STA. 836+42.80 SR-8 TO
STA 850+63.40 SR-8

SCALE: 1"=50'

KEY NOTES

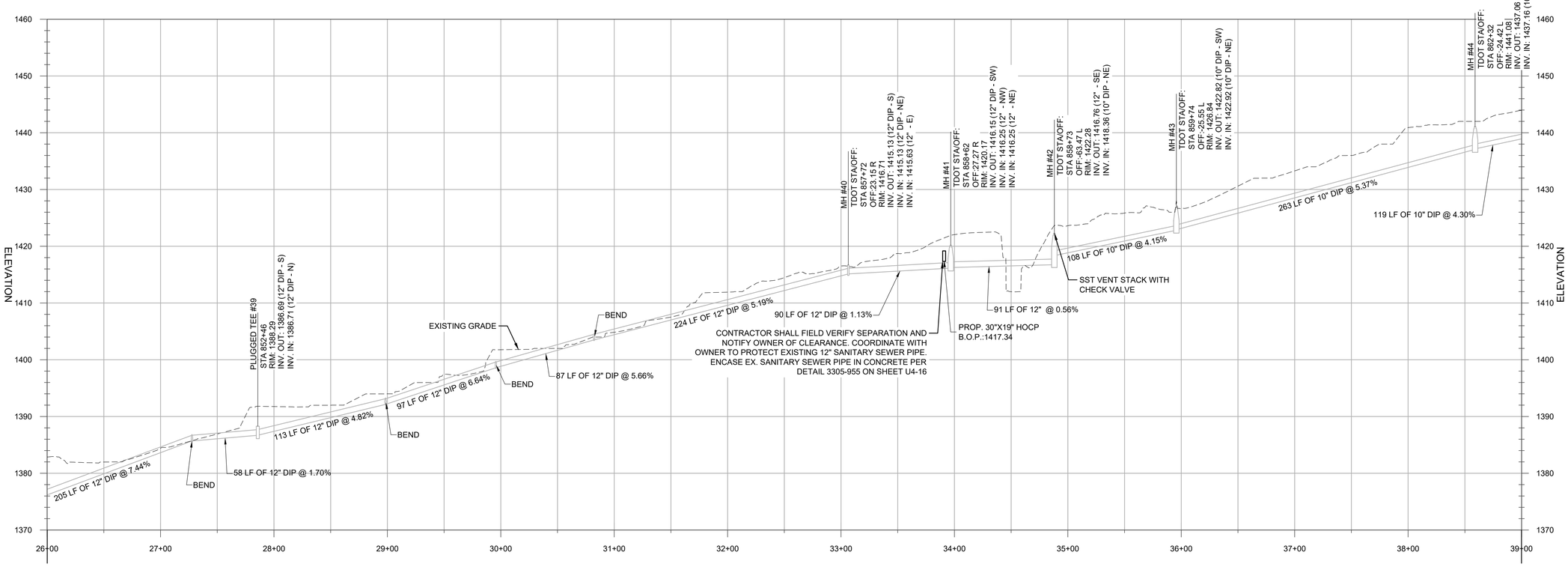
1. REMOVE PLUGGED TEE #35 AND SET NEW MANHOLE WITH MANHOLE STRAPS PER DETAIL 3305-954. PROTECT EXISTING 12-INCH PIPE.
2. REMOVE PLUGGED TEE #38 AND SET NEW MANHOLE WITH MANHOLE STRAPS PER DETAIL 3305-954. PROTECT EXISTING 12-INCH PIPE.

GENERAL NOTES

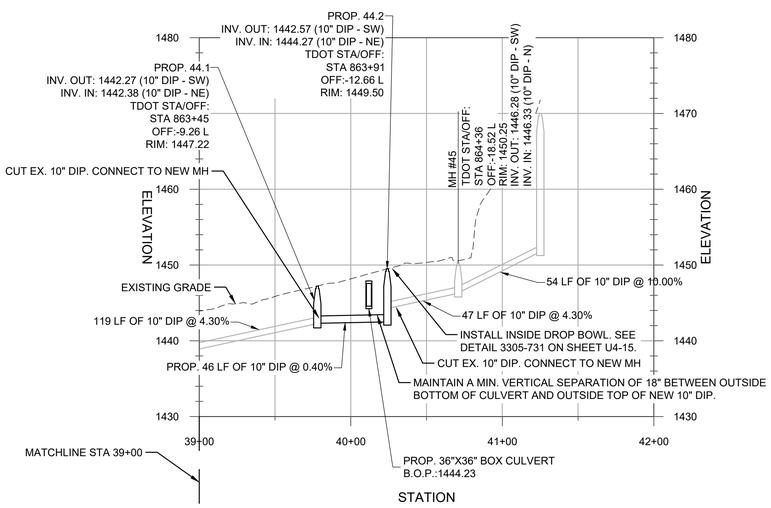
1. ALL 12" DI PIPE TO BE REHABILITATED WITH CURED IN PLACE PIPE LINER PER SPECIFICATION 33 01 30.70B, UNLESS OTHERWISE NOTED. SEE PIPE SCHEDULE SHEET U4-11 FOR GRAVITY SEWER REHABILITATION.
2. THERE ARE ZERO CONFLICTS ON THIS SHEET BETWEEN THE PROPOSED STORM DRAINAGE AND THE EXISTING SEWER ALIGNMENT.
3. LINE THROUGH ALL PLUGGED TEES, UNLESS OTHERWISE NOTED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-9

SIGNAL MOUNTAIN EXISTING GRAVITY SEWER PROFILE
TDOT SR 8 ROAD CENTERLINE STA 850+63.40 TO 862+66.40
PIPE CENTERLINE STA 26+00 TO 39+00
1"=10' HORIZONTAL
1"=2' VERTICAL



SIGNAL MOUNTAIN EXISTING GRAVITY SEWER PROFILE
TDOT SR 8 ROAD CENTERLINE STA 862+66.40 TO 864+35.67
PIPE CENTERLINE STA 39+00 TO 42+00
1"=10' HORIZONTAL
1"=2' VERTICAL



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GRAVITY SEWER REHABILITATION

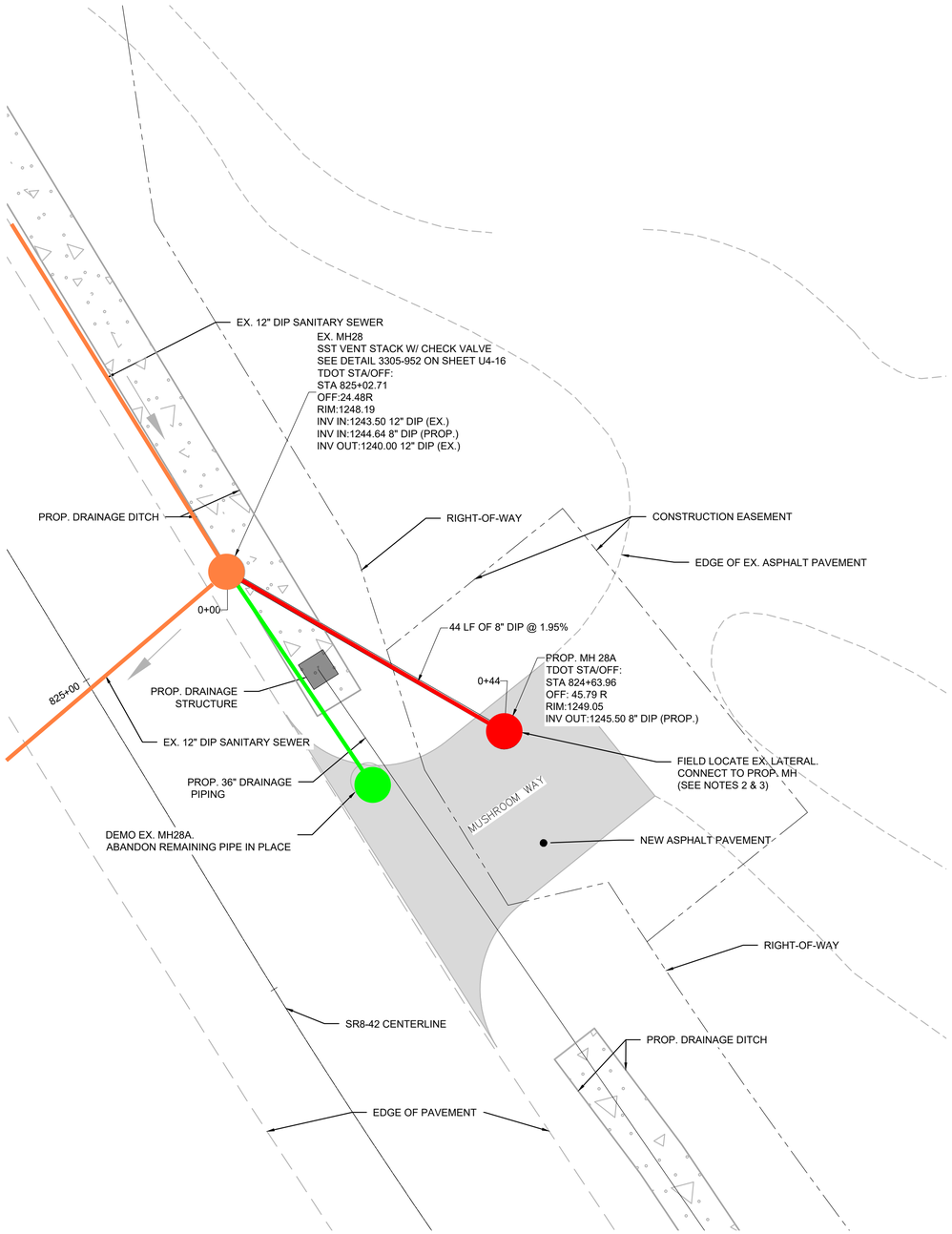
STA. 850+63.40 SR-8 TO
STA 864+35.67 SR-8

SCALE: 1"=50'

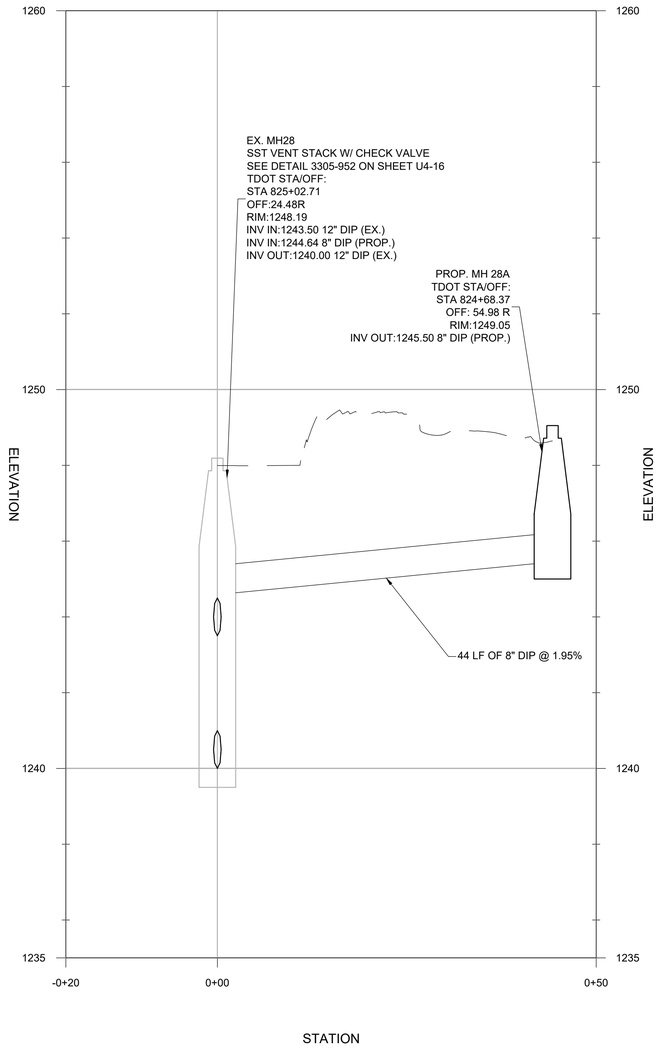
GENERAL NOTES

1. ALL 12" DI PIPE TO BE REHABILITATED WITH CURED IN PLACE PIPE LINER PER SPECIFICATION 33 01 30.70B, UNLESS OTHERWISE NOTED. SEE PIPE SCHEDULE SHEET U4-11 FOR GRAVITY SEWER REHABILITATION.
2. ALL MANHOLES ARE TO BE REHABILITATED WITH TYPE 2 POLYMER-BASED LINER. SEE MANHOLE SCHEDULE SHEET U4-12 FOR MANHOLE REHABILITATION.
3. LINE THROUGH ALL PLUGGED TEES, UNLESS OTHERWISE NOTED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-10



MH 28A-RELOCATION PROFILE
TDOT SR 8 ROAD CENTERLINE STA 824+99.17 TO 836+42.80
PIPE CENTERLINE STA -0+20 TO 0+50
1"=10' HORIZONTAL
1"=2' VERTICAL



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GRAVITY SEWER REHABILITATION

MH #28A RELOCATION AT MUSHROOM WAY

SCALE: 1"=10'

GENERAL NOTES

1. NEW MANHOLE TO BE REHABILITATED WITH TYPE 2 POLYMER-BASED LINER. SEE MANHOLE SCHEDULE SHEET U4-12 FOR MANHOLE REHABILITATION.
2. CONTRACTOR TO FIELD VERIFY ALIGNMENT FOR RELOCATION OF MH28A TO MAINTAIN ALL NECESSARY CONSTRUCTION ACTIVITIES WITHIN EXISTING ROW AND CONSTRUCTION EASEMENT.
3. EXTEND THE EXISTING SEWER LATERALS ON MUSHROOM WAY TO NEW MH28A.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-11

SIGNAL MOUNTAIN GRAVITY SEWER REHABILITATION PIPE SCHEDULE

No.	UPSTREAM MANHOLE	DOWNSTREAM MANHOLE	PIPE DIAMETER	PIPE LENGTH	MATERIAL	REHAB METHOD	CIPP LINE?	POINT REPAIR	SHEET NO.	LATERAL CONNECTIONS	NOTES
1	70301-27	70301-28	12	52	DIP	CIPP	Y		U4-4		FIELD VERIFY LATERAL CONNECTION
2	Ex. 70301-28A	70301-28	12	18	DIP		N		U4-4		ABANDON LINE IN PLACE
3	NEW 70301-28A	70301-28	8	43	DIP		N		U4-4		NEW PIPE SEGMENT
4	70301-28	70301-29	12	220	DIP	CIPP	Y		U4-4		FIELD VERIFY LATERAL CONNECTION
5	70301-29	70301-30	12	397	DIP	CIPP	Y		U4-4		FIELD VERIFY LATERAL CONNECTION
6	70301-30	70301-31	12	150	DIP	CIPP	Y		U4-4		
7	70301-31	70301-32	12	385	DIP	CIPP	Y		U4-4		
8	70301-32	70301-33	12	244	DIP	CIPP	Y		U4-5		
9	70301-33	70301-34	12	104	DIP	CIPP	Y		U4-5		
10	70301-34	70301-35	12	349	DIP	CIPP	Y		U4-5		
11	70301-35	70301-36	12	202	DIP	CIPP	Y		U4-5		
12	70301-36	70301-37	12	191	DIP	CIPP	Y		U4-5		
13	70301-37	70301-38	12	231	DIP	CIPP	Y		U4-5		
14	70301-38	70301-39	12	263	DIP	CIPP	Y		U4-6		
15	70301-39	70301-40	12	521	DIP	CIPP	Y		U4-6		
16	70301-40	70301-41	12	90	DIP	CIPP	Y		U4-6		
17	70301-41	70301-42	12	91	DIP	CIPP	Y		U4-6		
18	70301-42	70301-43	10	108	DIP	CIPP	Y		U4-6		
19	70301-43	70301-44	10	263	DIP	CIPP	Y		U4-6		
20	70301-44	70301-44.1	10	119	DIP	CIPP	Y		U4-6		
21	70301-44.1	70301-44.2	10	46	DIP	FULL REPLACE	N		U4-6		
22	70301-44.2	70301-45	10	47	DIP	CIPP	Y		U4-6		

1) RECONNECTION TO MANHOLES SHALL BE IN ACCORDANCE WITH DETAIL (3305-730) AS NECESSARY.

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DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

PIPE SCHEDULE

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-12

SIGNAL MOUNTAIN GRAVITY SEWER REHABILITATION MANHOLE SCHEDULE

No.	MANHOLE ID	SHEET NO.	PIPE DIAMETER (INCHES)	MANHOLE SHAPE	MANHOLE TYPE	MANHOLE DIMENSIONS (FEET)	RIM ELEVATION (FEET)	INVERT ELEVATION (FEET)	MANHOLE DEPTH (VERTICAL FEET)	ADDITIONAL CONNECTIONS	REHABILITATION TYPE	NOTES
1	70301-27	U4-4	12	CIRCLE	TYPICAL	4	1247.62	1229.91	17.71	NONE	C	DROP MANHOLE; FIELD VERIFY LATERAL CONNECTION
2	EX. 70301-28A	U4-4	12	CIRCLE	TYPICAL	4	1245.82	1242.97	2.85	YES		REMOVE MANHOLE
3	NEW 70301-28A	U4-4	8	CIRCLE	TYPICAL*	4	1250.01	1245.5	4.51	YES	A	NEW MANHOLE INSTALLATION PER STANDARD DETAIL SD-MH-1.
4	70301-28	U4-4	8/12	CIRCLE	TYPICAL	4	1247.42	1240	7.42	YES	C	DROP MANHOLE; FIELD VERIFY LATERAL CONNECTION; ADD VENT STACK PER DETAIL 3305-953; INSTALL DROP CONNECTION PER DETAIL 3305-956
5	70301-29	U4-4	12	CIRCLE	TYPICAL	4	1255.78	1251.66	4.12	YES	C	FIELD VERIFY CAPPED CONNECTION
6	70301-30	U4-4	12	CIRCLE	PLUGGED TEE	1	1267.16	1265.53	1.63	NONE		LINE THROUGH PLUGGED TEE.
7	70301-31	U4-4	12	CIRCLE	TYPICAL*	4	1275.23	1273.62	1.61	NONE	C	REPLACE PLUGGED TEE WITH NEW MANHOLE. STRAP MANHOLE TOP PER DETAIL 3305-954
8	70301-32	U4-4	12	CIRCLE	PLUGGED TEE	1	1298.08	1296.49	1.59	NONE		LINE THROUGH PLUGGED TEE.
9	70301-33	U4-5	12	CIRCLE	PLUGGED TEE	1	1313.39	1311.81	1.58	NONE		LINE THROUGH PLUGGED TEE.
10	70301-34	U4-5	12	CIRCLE	PLUGGED TEE	1	1316.78	1315.13	1.65	NONE		LINE THROUGH PLUGGED TEE.
11	70301-35	U4-5	12	CIRCLE	TYPICAL*	4	1335.67	1334.02	1.65	NONE	C	REPLACE PLUGGED TEE WITH NEW MANHOLE. STRAP MANHOLE TOP PER DETAIL 3305-954
12	70301-36	U4-5	12	CIRCLE	PLUGGED TEE	1	1347.87	1346.22	1.65	NONE		LINE THROUGH PLUGGED TEE.
13	70301-37	U4-5	12	CIRCLE	PLUGGED TEE	1	1358.76	1357.11	1.65	NONE		LINE THROUGH PLUGGED TEE.
14	70301-38	U4-5	12	CIRCLE	TYPICAL*	1	1372.02	1370.41	1.61	NONE	C	REPLACE PLUGGED TEE WITH NEW MANHOLE. STRAP MANHOLE TOP PER DETAIL 3305-954
15	70301-39	U4-6	12	CIRCLE	PLUGGED TEE	4	1388.29	1386.69	1.60	NONE		LINE THROUGH PLUGGED TEE.
16	70301-40	U4-6	8/12	CIRCLE	TYPICAL	4	1416.71	1415.13	1.58	YES	C	
17	70301-41	U4-6	12	CIRCLE	TYPICAL	4	1420.17	1416.15	4.02	YES		WATERTIGHT FRAME AND COVER INSTALLED AND MANHOLE LINED IN PHASE 1
18	70301-42	U4-6	10/12	CIRCLE	TYPICAL	4	1422.28	1416.76	5.52	YES	C	INSTALL VENT STACK PER DETAIL 3305-953
19	70301-43	U4-6	10	CIRCLE	TYPICAL	4	1426.84	1422.82	4.02	NONE	B	
20	70301-44	U4-6	10	CIRCLE	TYPICAL	4	1441.08	1437.06	4.02	NONE	B	
21	70301-44.1	U4-6	10	CIRCLE	TYPICAL*	4	1447.22	1442.27	4.95	NONE	A	NEW MANHOLE INSTALLATION PER STANDARD DETAIL SD-MH-1.
22	70301-44.2	U4-6	10	CIRCLE	TYPICAL*	4	1449.5	1442.57	6.93	NONE	A	NEW MANHOLE INSTALLATION PER STANDARD DETAIL SD-MH-1. INSTALL DROP CONNECTION PER DETAIL 3305-956
23	70301-45	U4-6	10	CIRCLE	TYPICAL	4	1450.25	1446.28	3.97	NONE	B	

*NEWLY INSTALLED MANHOLE

REHAB TYPE	DESCRIPTION
A	INSTALL MANHOLE LINER PER SPECIFICATION 33 01 80.83
B	INSTALL MANHOLE LINER PER SPECIFICATION 33 01 80.83 AND 33 01 30.84; REPLACE FRAME AND COVER PER WWTA STANDARD DETAIL, SD-MH-5A
C	INSTALL MANHOLE LINER PER SPECIFICATION 33 01 80.83 AND 33 01 30.84; INSTALL WATERTIGHT FRAME AND COVER PER WWTA STANDARD DETAIL, SD-MH-5B

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

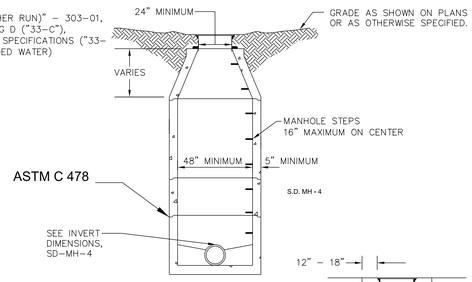
MANHOLE SCHEDULES

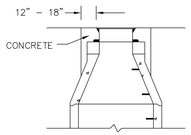
TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-13

NOTES

1. ALL MATERIALS, DESIGN, MANUFACTURE, PHYSICAL TEST REQUIREMENTS, FINISH, MARKING, INSPECTION, REJECTION, AND REPAIRS TO MEET ASTM C478 FOR PRECAST REINFORCED CONCRETE MANHOLE RISERS AND CONES EXCEPT AS MAY BE MODIFIED IN THESE SPECIFICATIONS.
2. SIZE AND LOCATE PIPE CUTOUTS AS REQUIRED.
3. MANHOLE STEPS – SEE DETAIL OF STANDARD MANHOLE STEPS. SD–MH–7.
4. END–OF–LINE MANHOLES THAT HAVE FUTURE EXTENSIONS AND THAT ARE LOCATED IN PAVEMENT SHALL BE BACKFILLED WITH FLOWABLE FILL OR 33–C* STONE (CRUSHER RUN). THE BACKFILL SHALL BE COMPACTED TO 6–INCH LIFTS, AND SHALL EXTEND TEN (10') FEET FROM THE MANHOLE ALONG EACH TRENCH.
5. A MAXIMUM OF ONE CONCRETE RING MAY BE USED FOR FINISHED GRADE ELEVATION ADJUSTMENT OF UP TO 6" ON NEW CONSTRUCTION.
6. FLAT TOP MANHOLES SHALL NOT BE USED.
7. ON STREET GRADES OF 5% OR MORE, RINGS MUST BE POURED IN PLACE ON PROPER GRADE FOR EVEN OR SMOOTH TRANSITION.
8. MANHOLES TO BE LOCATED NO MORE THAN 400 FEET APART

* "33–C (CRUSHER RUN)" – 303–01, TYPE A, GRADING D ("33–C"), TENNESSEE DOT SPECIFICATIONS ("33–P" WITHOUT ADDED WATER)



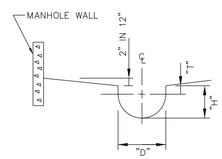


FRAME AND COVER AFTER PAVING

(SEE SD–MH–8)

STANDARD PRECAST CONCRETE MANHOLES

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY
SD–MH–1

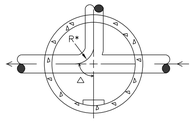


INVERT SECTION

TABLE I		
"D" INSIDE DIA. PIPE	"T" VERTICAL TANGENT	"H" HEIGHT OF H O TABLE
8"	2 1/2"	6 1/2"
10"	3"	8"
12"	3 1/2"	9 1/2"
15"	4 1/2"	12"
18"	5 1/2"	14 1/2"
21"	6 1/2"	17"
24"	7 1/2"	19 1/2"
30"	9"	24"
36"	11"	29"

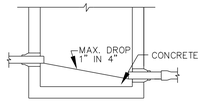
NOTE

"H" AND "T" DIMENSIONS APPLY AT BOTH THE UPSTREAM AND DOWNSTREAM EDGE OF MANHOLE. SEE TABLE 1

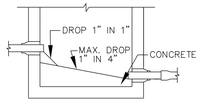


INVERT PLAN

TABLE II GOVERNING DIMENSIONS FOR MANHOLE INVERTS			
PIPE SIZE	Δ ANGLE	BASE DIA.	R*
8" THRU 12"	0 TO 90	4'	1'–6"
15"	0 TO 60	4'	1'–10"
15"	60 TO 90	4'	1'–10"
18"	0 TO 60	4'	2'–3"
18"	60 TO 90	4'	1'–10"
21"	0 TO 60	4'	2'–7"
21"	60 TO 90	5'	2'–4"
24"	0 TO 45	4'	3'–0"
24"	45 TO 90	5'	2'–3"
30"	0 TO 60	5'	3'–9"
30"	60 TO 90	6'	2'–8"
36"	0 TO 30	6'	4'–6"
36" & LARGER	0 TO 90	CAST IN PLACE MH BASE OR PRE–BED MH BASE & ELBOW UNITS.	



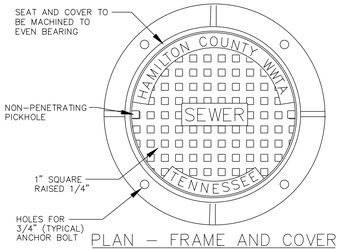
INVERT DETAIL
(WITH DROP LESS THAN 12")



INVERT DETAIL
(WITH DROP OF 12" TO LESS THAN 24")

STANDARD SIZE & INVERT DETAILS

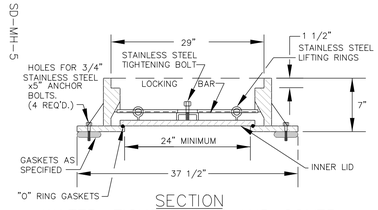
HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY
SD–MH–4



PLAN – FRAME AND COVER

ACHESON FOUNDRY (WATER–TIGHT) A–2624–71H OR APPROVED EQUAL

SD–MH–5



SECTION
WATER–TIGHT FRAME AND COVER

SPECIFIED MINIMUM WEIGHTS	
	WATER–TIGHT
COVER	190 LBS.
FRAME	400 LBS.
TOTAL	590 LBS.

NOTES

1. MANUFACTURER SHALL CERTIFY TRAFFIC BEARING CAPACITY OF FRAMES AND COVERS.
2. MANHOLES IN PAVED AREAS MAY NOT REQUIRE ANCHOR BOLTS.
3. BEARING SURFACES BETWEEN COVER AND FRAME SHALL BE MACHINED TO PREVENT ROCKING.
4. MANHOLES IN EASEMENTS REQUIRE ANCHOR BOLTS.
5. MANHOLES IN TRAFFIC AREAS REQUIRE 4000LB CONCRETE COLLAR
6. MANHOLES LOCATED IN OFFSITE EASEMENTS SHALL HAVE GREEN FIBERGLASS MARKERS

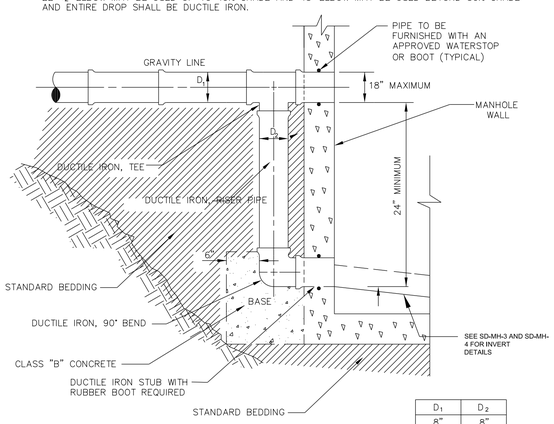
MANHOLE FRAME AND COVER SD–MH–5

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY

R.O.W. PLANS

NOTES

1. SET INLET FROM DROP TO MATCH CROWNS WITH OUTLET EXCEPT THAT MINIMUM FALL ACROSS MANHOLE INVERT MUST BE 3".
2. FOR DETAILS NOT SHOWN, SEE STANDARD MANHOLE DETAILS.
3. THE INCOMING LINE THE TEE, THE RISER PIPE, AND THE BEND SHALL BE CONSTRUCTED OF DUCTILE IRON.
4. ON GRAVITY LINE GRADES OF 12.5% OR GREATER, 11–¼° ELBOW MAY BE USED UP TO 24% GRADE; 22–½° ELBOW MAY BE USED UP TO 49% GRADE AND 45° ELBOW MAY BE USED BEYOND 50% GRADE AND ENTIRE DROP SHALL BE DUCTILE IRON.

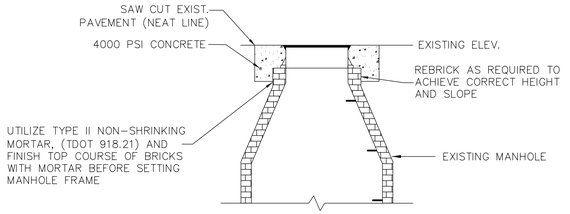


D_1	D_2
8"	8"
10"	8"
12"	10"
15"	12"
18"	12"

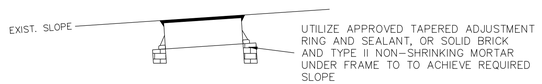
BASE NOTES:
1. MINIMUM DISTANCE BETWEEN BOTTOM OF DI AND MANHOLE BOTTOM IS 8".
2. AT MINIMUM THERE SHOULD BE 12 ½" TOTAL VERTICAL HEIGHT OF CONCRETE.
3. BASE NEEDS TO BE AT LEAST 36" WIDE FOR SUPPORT OF DI ELBOW.

STANDARD DROP MANHOLE

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY
SD–MH–6



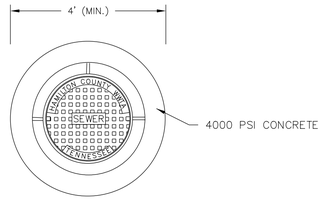
FRAME AND COVER AFTER PAVING



FRAME ON SLOPE

PLAN–FRAME AND COVER

ACHESON FOUNDRY (STANDARD) A–2024–81H
ACHESON FOUNDRY (WATER–TIGHT)A–2624–71H
OR APPROVED EQUAL



NOTES:

1. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THAT MORTAR AND OTHER CONSTRUCTION MATERIALS DO NOT DROP INTO MANHOLE OR SEWER LINES
2. CONTRACTOR SHALL MAINTAIN TRAFFIC BARRIERS AND STEEL PLATES AROUND MANHOLE UNTIL CONCRETE CURES

STANDARD DETAIL FOR RAISING MANHOLE FRAMES ON BRICK MANHOLES

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY
SD–MH–8A

SEALED BY

COORDINATES ARE NAD 83(2001), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

Jacobs

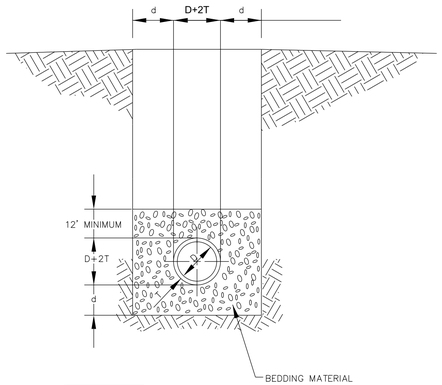
WATER & WASTEWATER TREATMENT AUTHORITY
ESTD 1993
WWTA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

TDOT STANDARD DETAILS
SHEET 1 OF 2

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-14



D	d
< 4"	4"
4–6"	6"
8"	6"
10"	8"
12"	8"
15"	8"
18"	8"
21"	10"
24"	10"

TRENCH BEDDING (CLASS "I", ASTM D 2321)

MATERIAL SHALL BE ½" or 57 STONE. PAYMENT FOR THE BEDDING SHALL BE INCLUDED IN THE UNIT PRICE BID PER LINEAR FOOT PIPE FOR VARIOUS TYPES, SIZES, AND DEPTHS LISTED IN THE BID SCHEDULE.

TYPICAL TRENCH AND BEDDING FOR GRAVITY AND FORCE MAIN

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY
SD–GEN–1

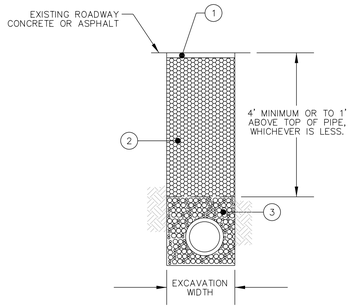
GENERAL REQUIREMENTS

1. ALL STREET CUTS MUST BE REPAIRED IMMEDIATELY AFTER BACKFILLING AND ACCORDING TO THIS STANDARD.
2. A ROAD CUT PERMIT AND AN APPROVED TRAFFIC CONTROL PLAN ARE REQUIRED FOR ALL CUTS IN STREETS.
3. WHERE LONGITUDINAL CUTS ARE MADE, THE OWNER RESERVES THE RIGHT TO REQUIRE ADDITIONAL RESURFACING BEYOND THE LIMITS OF THE REPAIR TO ENSURE THE PROPER RIDING CHARACTERISTICS AND THE STABILITY OF THE PAVEMENT.

DRAWING NOTES

1. 2" MINIMUM THICKNESS COLD MIX ASPHALT
   WHEN A TEMPORARY ASPHALT PATCH IS USED, IT SHALL BE PLACED IMMEDIATELY AFTER THE CRUSHED STONE BACKFILL IS PLACED.
2. MINERAL AGGREGATE BASE, TYPE A, GRADING D (33–P*)
   COMPACTED IN 8" LIFTS AND TO A DENSITY OF 95% STANDARD PROCTOR.
3. BEDDING MATERIAL – SEE SD–GEN–1

*LOCAL MUNICIPALITIES RULES FOR ROAD REPAIR MUST BE FOLLOWED



TEMPORARY PAVEMENT REPAIR

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY
SD–GEN–8

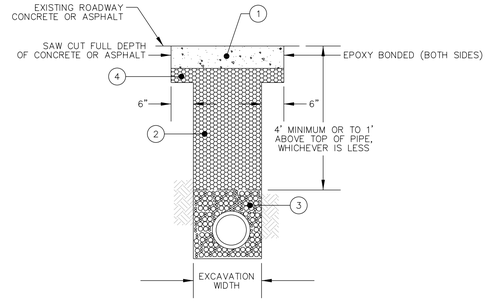
GENERAL REQUIREMENTS

1. ALL STREET CUTS MUST BE REPAIRED IMMEDIATELY AFTER BACKFILLING AND ACCORDING TO THIS STANDARD.
2. A ROAD CUT PERMIT AND AN APPROVED TRAFFIC CONTROL PLAN ARE REQUIRED FOR ALL CUTS IN STREETS.
3. WHERE LONGITUDINAL CUTS ARE MADE, THE OWNER RESERVES THE RIGHT TO REQUIRE ADDITIONAL RESURFACING BEYOND THE LIMITS OF THE REPAIR TO ENSURE THE PROPER RIDING CHARACTERISTICS AND THE STABILITY OF THE PAVEMENT.

DRAWING NOTES

1. CLASS "A" CONCRETE PAVEMENT (4,000 PSI MINIMUM), 8" MINIMUM THICKNESS, COARSE BROOM FINISH
   THE CONCRETE SHALL BE COLORED AND STAMPED TO MATCH THE ADJACENT CONCRETE AS REQUIRED.
2. FLOWABLE FILL
3. BEDDING MATERIAL – SEE SD–GEN–1
4. MINERAL AGGREGATE BASE, TYPE A, GRADING D (33–P*)
   COMPACTED TO A DENSITY OF 95% STANDARD PROCTOR. THE THICKNESS SHALL BE THE GREATER OF 4" OR THE EXISTING DEPTH OF BASE MATERIAL.

*LOCAL MUNICIPALITIES RULES FOR ROAD REPAIR MUST BE FOLLOWED



TRENCH WIDTH PAVEMENT REPAIR

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY
SD–GEN–9

R.O.W. PLANS

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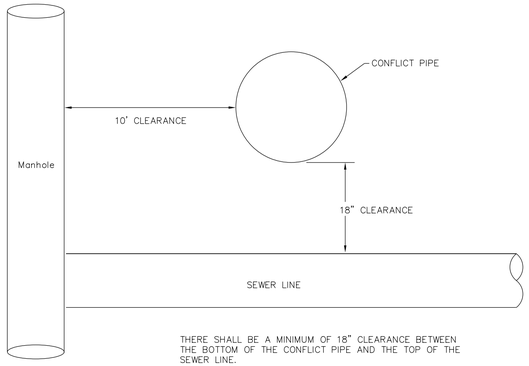
Jacobs

WATER & WASTEWATER TREATMENT AUTHORITY ESTD 1993 WWTA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

TDOT STANDARD DETAILS
SHEET 2 OF 2



THERE SHALL BE A MINIMUM OF 18" CLEARANCE BETWEEN THE BOTTOM OF THE CONFLICT PIPE AND THE TOP OF THE SEWER LINE.

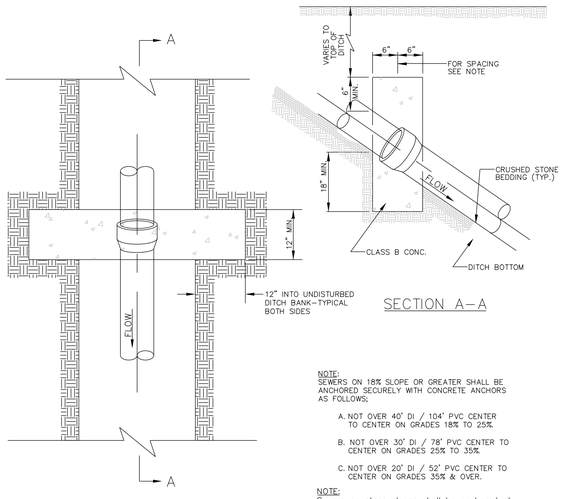
THERE SHALL BE A MINIMUM OF 10' CLEARANCE BETWEEN THE EDGE OF THE CONFLICT PIPE AND THE EDGE OF THE MANHOLE.

NOTES

1. FOR GRAVITY SYSTEMS, IF LESS THAN 18", USE DUCTILE IRON PIPE. DUCTILE IRON PIPE WILL EXTEND FROM MANHOLE TO MANHOLE, AND WILL NOT BE TRANSITIONED WITH MECHANICAL JOINTS.
2. IF PIPE IS COVERED BY 14' OR MORE, USE DUCTILE IRON PIPE. DUCTILE IRON PIPE WILL EXTEND FROM MANHOLE TO MANHOLE, AND WILL NOT BE TRANSITIONED WITH MECHANICAL JOINTS.

PIPE CROSSINGS

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY
SD–GEN–11



SECTION A–A

PLAN

NOTE:
SEWERS ON 18% SLOPE OR GREATER SHALL BE ANCHORED SECURELY WITH CONCRETE ANCHORS AS FOLLOWS:

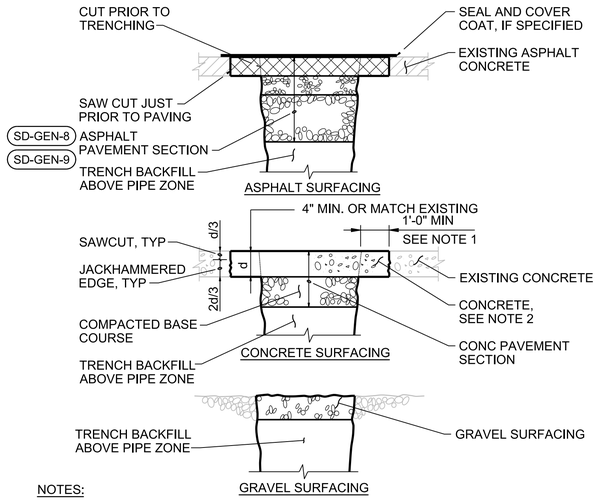
A. NOT OVER 40' DI / 104' PVC CENTER TO CENTER ON GRADES 18% TO 23%.
B. NOT OVER 30' DI / 78' PVC CENTER TO CENTER ON GRADES 23% TO 35%.
C. NOT OVER 20' DI / 52' PVC CENTER TO CENTER ON GRADES 35% & OVER.

NOTE:
Sewers on steep slopes shall be anchored at manholes using an elbow as follows:

Slope of Incoming Line: (Percent Slope)	Ductile Elbow Required (Equivalent Angle)
18% to 24%	11¼°
24% to 50%	22½°
Greater than 50%	40°

CONCRETE ANCHOR BLOCK DETAIL FOR PIPES ON STEEP SLOPES

HAMILTON COUNTY WATER & WASTEWATER TREATMENT AUTHORITY
SD–GEN–20



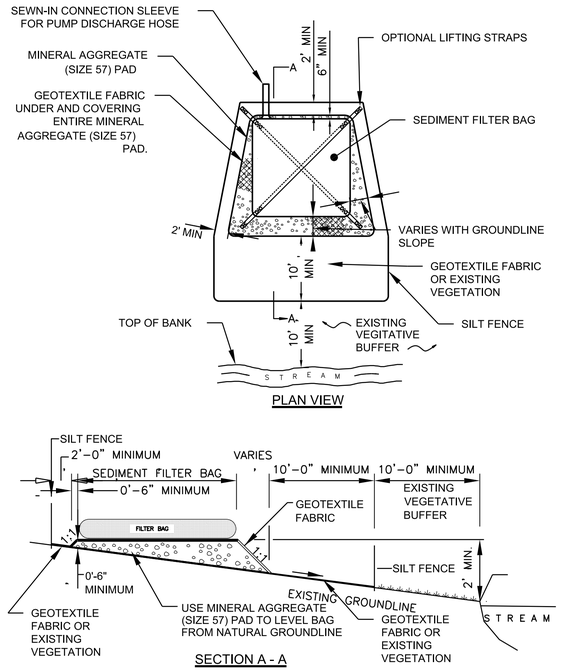
NOTES:

1. IF LOCATION OF TRENCH SAW CUT IS WITHIN 2 FEET OF AN EXISTING JOINT OR EDGE OF CONCRETE, REPLACE ENTIRE CONCRETE TO THE JOINT OR EDGE.
2. CONSTRUCT JOINTS ACROSS NEW CONCRETE TO MATCH EXISTING JOINT TYPES AND LOCATIONS.
3. DIMENSIONS AND DETAILS ABOVE ARE MINIMUM REQUIREMENTS. PAVEMENT REMOVAL AND REPLACEMENT SHALL BE PERFORMED IN ACCORDANCE WITH DETAILS AND SPECIFICATIONS OF THE AUTHORITY HAVING JURISDICTION, SEE ASPHALT PAVING, CONCRETE PAVING, AND TRENCH BACKFILL SPECIFICATIONS.

PAVEMENT RESTORATION

NTS

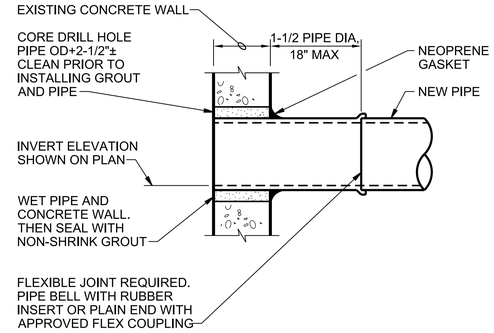
3123-115



DEWATERING PRACTICES

NTS

3125-131



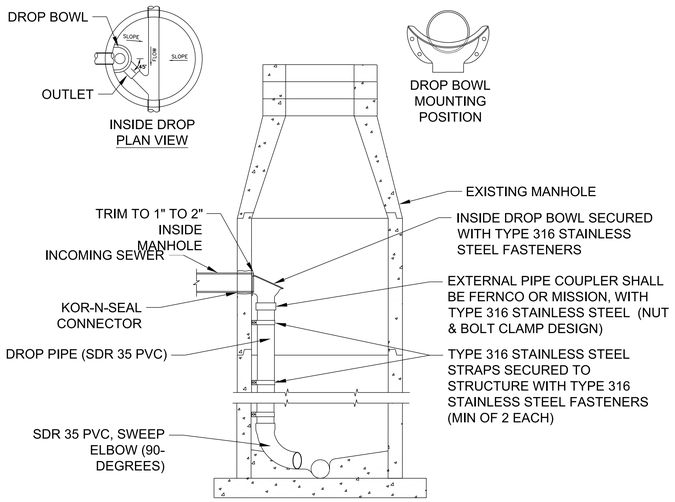
PIPE CONNECTION

NTS

3305-730

NOTES:

1. MOUNTING DIMENSIONS OF INSIDE DROP BOWL AS REQUIRED BY THE MANUFACTURER.
2. SWEEPING ELBOW INVERT AT BOTTOM OF DROP SHALL NOT BE MORE THAN 2" ABOVE INVERT OF MANHOLE.



INSIDE DROP BOWL DETAIL

NTS

3305-731

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-15

R.O.W. PLANS

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COORDINATES ARE NAD 83(2001), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

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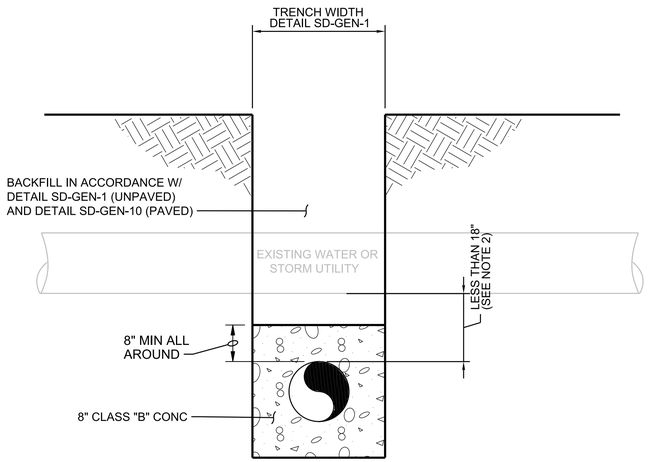
WATER & WASTEWATER TREATMENT AUTHORITY ESTD 1993 WWTA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

CONSTRUCTION DETAILS
SHEET 1 OF 2

TYPE	YEAR	PROJECT NO.	SHEET NO.
P S & E	2026	STP-8(52)	U4-16



NOTES:

1. CLASS "B" CONCRETE IS TO BE POURED 36 HOURS BEFORE PLACING BACKFILL.

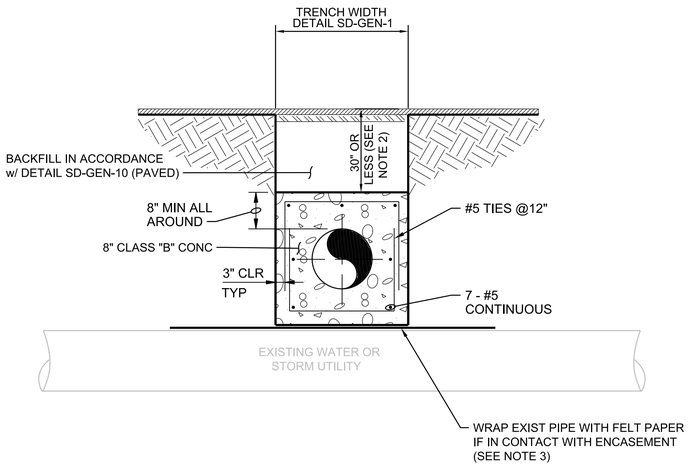
2. CONCRETE ENCASEMENTS ARE NEEDED FOR UTILITY SEPARATIONS OF LESS THAN 18-INCHES. THE MINIMUM THICKNESS OF THE CONCRETE ENCASEMENT IS 8-INCHES BEYOND THE PIPE THICKNESS. WHERE THE CONCRETE ENCASEMENT IS IN CONTACT WITH AN EXISTING PIPE, WRAP THE EXISTING PIPE WITH FELT PAPER TO ACT AS A BOND BREAKER.

3. IF THE CONCRETE ENCASEMENT IS WITHIN 30-INCHES OF FINAL GRADE WITHIN PAVEMENT, THE ENCASEMENT SHALL BE REINFORCED PER DETAIL 3305-951.

4. WHEN CONCRETE ENCASEMENTS ARE NEEDED FOR UTILITY SEPARATIONS THE CONCRETE ENCASEMENT MUST EXTEND 10 FT IN EITHER DIRECTION FOR A TOTAL OF 20 FT.

CONCRETE PIPE ENCASEMENT

3305-950



NOTES:

1. CLASS "B" CONCRETE IS TO BE POURED 36 HOURS BEFORE PLACING BACKFILL.

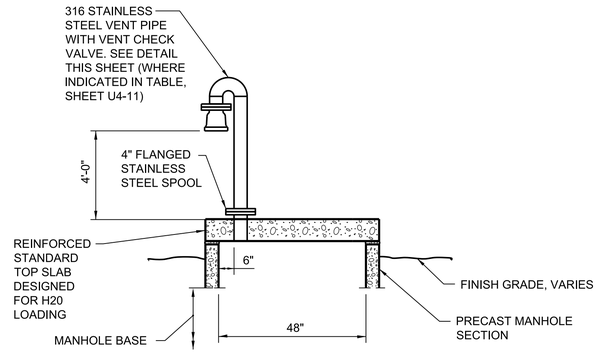
2. REINFORCED CONCRETE ENCASEMENTS ARE NEEDED FOR UTILITY SEPARATIONS OF LESS THAN 18-INCHES AND WITHIN 30-INCHES OF FINAL GRADE WITHIN PAVEMENT.

3. WHERE THE CONCRETE ENCASEMENT IS IN CONTACT WITH AN EXISTING PIPE, WRAP TOP OF EXISTING PIPE WITH FELT PAPER TO ACT AS A BOND BREAKER.

4. WHEN CONCRETE ENCASEMENTS ARE NEEDED FOR UTILITY SEPARATIONS THE CONCRETE ENCASEMENT MUST EXTEND 10 FT IN EITHER DIRECTION FOR A TOTAL OF 20 FT OR AS SPECIFIED ON PLANS.

REINFORCED CONCRETE PIPE ENCASEMENT

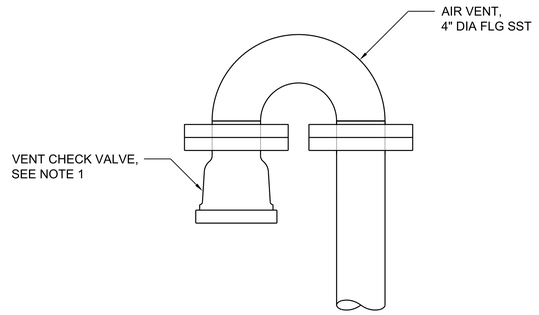
3305-951



NOTE: WHERE EXISTING MANHOLES ARE VENTED, PROVIDE MANHOLE VENT IN ACCORDANCE WITH DETAILS THIS SHEET.

SST VENT STACK WITH CHECK VALVE

3305-952

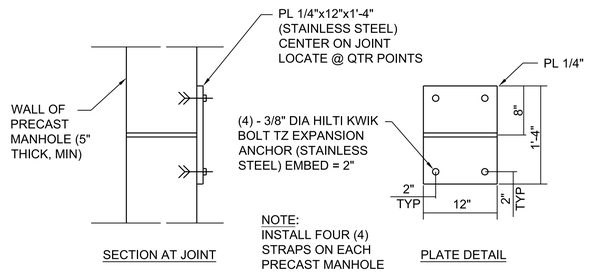


NOTES:

1. VENT CHECK VALVE SHALL HAVE A 316 SST BODY WITH A FLANGED CONN, SST MACHINED SEAT W/ POSITIVE SEAL, HIGH DENSITY POLYETHYLENE FLOAT AND CAP W/ 316 SST SCREEN BOLTED THROUGH CAP TO THE BODY USING 316 SST ANCHORS, MAX LEAKAGE OF 400 GALLONS PER DAY DURING SUBMERGENCE,MANUFACTURED BY WAGER COMPANY, 1700 SERIES OR APPROVED EQUAL.

MANHOLE VENT WITH CHECK VALVE

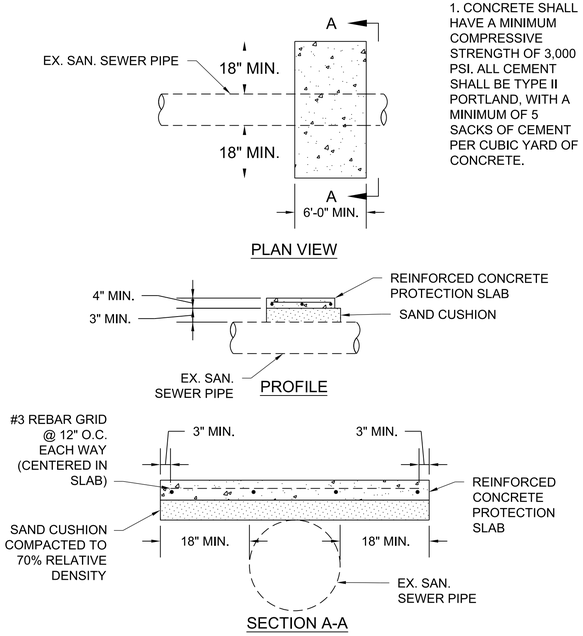
3305-953



NOTE:
INSTALL FOUR (4) STRAPS ON EACH PRECAST MANHOLE JOINT

MANHOLE STRAP DETAIL

3305-954



1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI. ALL CEMENT SHALL BE TYPE II PORTLAND, WITH A MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.

REINFORCED CONCRETE PROTECTION SLAB OVER EXISTING PIPE

3305-955

R.O.W. PLANS

SEALED BY

COORDINATES ARE NAD 83(2001), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

Jacobs

WATER & WASTEWATER TREATMENT AUTHORITY
ESTD 1993
WWTA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRAVITY SEWER REHABILITATION

CONSTRUCTION DETAILS
SHEET 2 OF 2

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-01

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00

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U5-06	ELECTRIC UTILITY RELOCATION STA. 760+50 TO STA. 773+50
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U5-08	ELECTRIC UTILITY RELOCATION STA. 786+50 TO STA. 799+50
U5-09	ELECTRIC UTILITY RELOCATION STA. 799+50 TO STA. 812+50
U5-10	ELECTRIC UTILITY RELOCATION STA. 812+50 TO STA. 825+50
U5-11	ELECTRIC UTILITY RELOCATION STA. 825+50 TO STA. 838+50
U5-12	ELECTRIC UTILITY RELOCATION STA. 838+50 TO STA. 851+50
U5-13	ELECTRIC UTILITY RELOCATION STA. 851+50 TO STA. 864+50
U5-14	ELECTRIC UTILITY RELOCATION STA. 864+50 TO STA. 877+50
U5-15	ELECTRIC UTILITY RELOCATION STA. 877+50 TO STA. 890+50
U5-16	ELECTRIC UTILITY RELOCATION STA. 890+50 TO STA. 898+23.78
U5-17	ELECTRIC UTILITY RELOCATION PALISADES ROAD
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U5-21	CONSTRUCTION DETAILS

ESTIMATED QUANTITIES

	ITEM NO.	TDOT DESCRIPTION	UTILITY UNIT DESCRIPTION	UNIT	QUANTITY	PERCENT UTILITY	PERCENT PROJECT
(1)	790-01.01	POLE 30FT CLASS 2 WOOD	30-2 WP	EACH	2	0%	100%
	790-01.03	POLE 30FT CLASS 4 WOOD	30-4 WP	EACH	1	0%	100%
	790-04.09	POLE 45FT CLASS H2 METAL	45-H2 SP	EACH	1	0%	100%
	790-06.08	POLE 55FT CLASS H2 METAL	55-H2 SP	EACH	1	0%	100%
	790-07.08	POLE 60FT CLASS H2 METAL	60-H2 SP	EACH	2	0%	100%
	790-08.06	POLE 65FT CLASS H4 METAL	65-H4 SP	EACH	1	0%	100%
(2)	790-21.07	1Ø PRIMARY LG ANGLE 15KV	ACA4F	EACH	1	0%	100%
	790-21.08	1Ø DEADEND 15KV	A5	EACH	1	0%	100%
	790-25.01	3Ø CROSSARM SGL 15KV	UC1FGA	EACH	2	0%	100%
	790-30.03	SECONDARY ASSEMBLIES DEADEND	J6	EACH	2	0%	100%
	790-30.04	SECONDARY ASSEMBLIES MISC	J10	EACH	2	0%	100%
	790-31.11	SERVICE CONDUCTOR 2 AL TRIPLEX	#2 TRIPLEX	LF	110	0%	100%
	790-32.29	DN GUY HVY CONST - PREFORM	12M	EACH	10	0%	100%
	790-32.30	OH GUY HVY CONST - PREFORM	12M-SG	EACH	6	0%	100%
	790-33.16	ROCK ANCHOR TRIPLE EYE	24M-R	EACH	4	0%	100%
	790-33.26	SCREW TYPE ANCHOR 28,000LB	24M	EACH	4	0%	100%
	790-36.01	SWITCH-900A-UNDERSLUNG	900A-USD	EACH	1	0%	100%
	790-36.05	TRANSFER SECONDARY		EACH	2	0%	100%
	790-36.06	TRANSFER LIGHT		EACH	2	0%	100%
	790-36.14	TRANSFER CONDUCTOR		EACH	28	0%	100%
	790-60.01	1Ø FUSE CUTOUT XARM MOUNT 15KV	M5-9	EACH	2	0%	100%
	790-65.04	LIGHTNING ARRESTER POLE MTD 9 KV	M5-6	EACH	1	0%	100%
	790-65.20	LIGHTNING ARRESTER 3PH 46 KV	46KV-LA	EACH	2	0%	100%
	790-68.01	POLE GROUND ROD TYPE	M2-11	EACH	7	0%	100%
	790-68.13	SGL PHASE MOUNTING BRACKET - FIBERGLASS	M5-22	EACH	2	0%	100%
	790-71.03	SGL ARM LINE POST INS NO OHGW 46KV MAX	T8FGA	EACH	1	0%	100%
			T1FGA	EACH	2	0%	100%
	790-71.04	DBL ARM LINE POST INS NO OHGW 46KV MAX	T2FGA	EACH	1	0%	100%
(3)	790-98.01	REMOVE WIRE		LF	115	0%	100%
(4)	790-98.02	REMOVE POLES		EACH	7	0%	100%
(5)	790-98.03	REMOVE FRAMING / ASSOCIATED APPARATUS		EACH	51	0%	100%
	790-98.20	TREE AND BRUSH REMOVAL OFF ROW		LS	1	0%	100%

FOOTNOTES:

1. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION INCLUDING BUT NOT LIMITED TO SETUP, TRAFFIC CONTROL, DIGGING HOLE, FILLING HOLE, BLASTING, BUTT WRAP OR SINGLE GROUND ROD, MGNV, NUMBERING POLE.

2. ASSEMBLIES OF SIMILAR CONSTRUCTION BUT DIFFERING ONLY IN USE OF EPOXY VS. PORCELAIN INSULATORS OR FIBERGLASS VS. WOOD CROSSARMS OR LACK OF NEUTRAL ASSEMBLY SHOULD BE GROUPED WITHIN THE SAME ITEM.

3. INCLUDES DROP WIRE, OH GUYS, MAINLINE WIRE.

4. INCLUDES MAINLINE POLES, SERVICE POLES,STUB POLES.

5. INCLUDES CROSSARMS, TRANSFORMERS, SWITCHES, ETC.

UTILITY INFORMATION

ELECTRIC POWER BOARD OF CHATTANOOGA
10 WEST M.L. KING BLVD.
CHATTANOOGA, TENNESSEE 37402
CONTACT: BRAD SMITH
PHONE: 423 648 3324
EMAIL: SMITHJB@EPB.NET

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
LICENSE NO.
STATE OF TENNESSEE
04-27-2026

ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM
SCALE	DATE
NONE	04.27.2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
ESTIMATED QUANTITES AND DRAWING INDEX

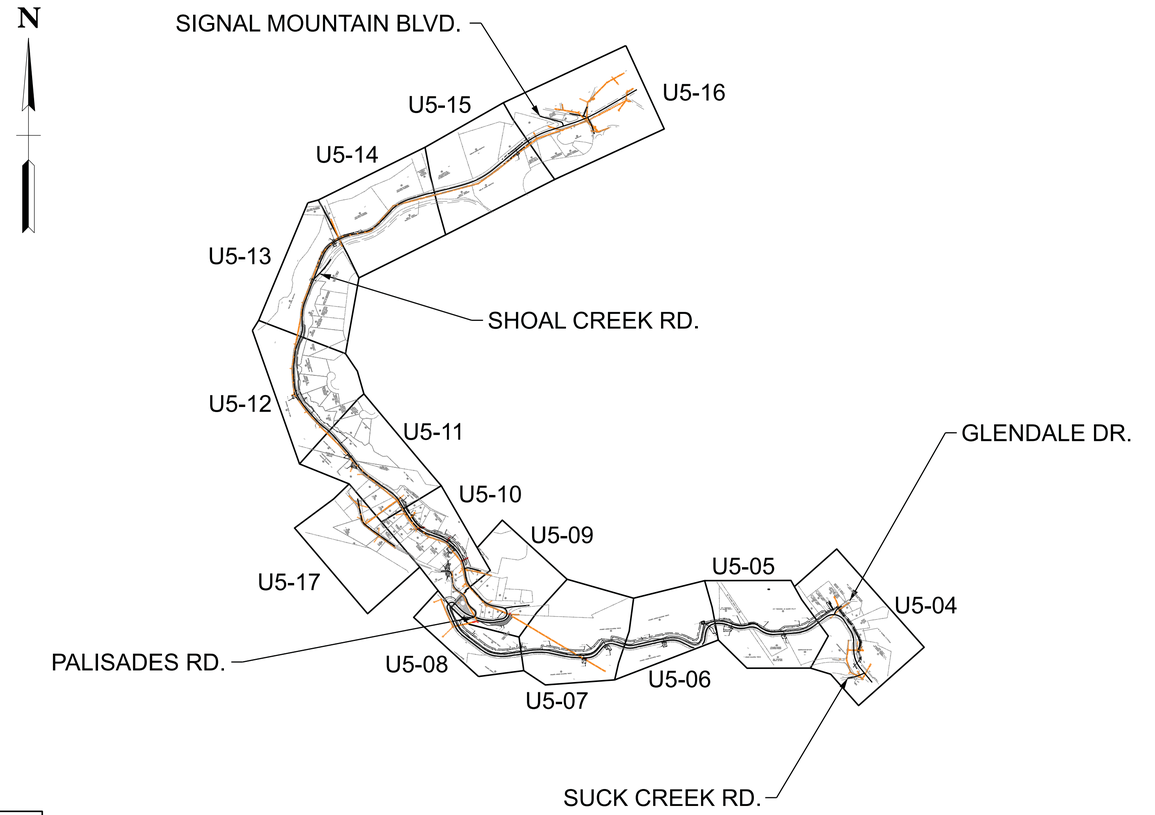
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-02

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00

HAMILTON COUNTY

STATE ROUTE 8 (US-127) FROM STATE ROUTE 27 (LM 13.96) TO PALISADES DRIVE (LM 17.01)



LEGEND

	EXISTING TO REMAIN 3PH POWER
	EXISTING TO REMAIN 1PH POWER
	PROPOSED SERVICE
	EXISITNG TO REMAIN SERVICE
	REMOVAL SERVICE
	EXISTING TO REMAIN LIGHTING CIRCUIT
	EXISTING TO REMAIN TRANSFORMER
	PROPOSED DOWNGUY/ANCHOR
	EXISTING TO REMAIN DOWNGUY/ANCHOR
	REMOVAL DOWNGUY/ANCHOR
GUY	PROPOSED SPAN GUY
GUY	REMOVAL SPAN GUY
	PROPOSED POLE
	EXISTING TO REMAIN POLE
	REMOVAL POLE

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
04-27-2026

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
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SCALE	DATE
NONE	04.27.2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
VICINITY MAP AND LEGEND

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-03

33021-3231-14 HAMILTON COUNTY
PIN#:124080.00

GENERAL CONSTRUCTION NOTES

1. THE FOLLOWING INFORMATION APPLIES TO THE UTILITY CONTRACTOR RESPONSIBLE FOR THE RELOCATION OF THE ELECTRICAL FACILITIES ALONG THIS PROJECT, AS WELL AS THE CONTRACTOR RESPONSIBLE FOR THE CLEARING/CUTTING OF REQUIRED AREAS OUTSIDE OF THE TDOT RIGHT-OF-WAY WHEN REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL FACILITIES ALONG THIS PROJECT.

2. ANY DEVIATION OF THE CONDITIONS LISTED MUST BE APPROVED BY THE UTILITY PRIOR TO THE DEVIATION TAKING PLACE ON THE PROJECT. FAILURE BY THE UTILITY CONTRACTOR OR SUBCONTRACTORS TO FOLLOW THESE CONDITIONS AS LISTED WILL RESULT IN REFUSAL OF ACCEPTANCE BY THE UTILITY OWNER TO ACCEPT THE PROJECT AT IT'S COMPLETION UNTIL SUCH TIME AS ANY DEFICIENCIES ARE CORRECTED TO THE SATISFACTION OF THE UTILITY.

3. ALL WORK SHALL BE DONE IN A SAFE, THOROUGH AND WORKMAN-LIKE MANNER IN ACCORDANCE WITH THE PLAN SHEETS, CONSTRUCTION DETAILS AND TECHNICAL SPECIFICATIONS AS WELL AS ANY AND ALL APPLICABLE SAFETY CODES, INCLUDING, BUT NOT LIMITED TO, THE NATIONAL ELECTRICAL SAFETY CODE (NESC), AND ANY OTHER STATE AND LOCAL CODES THAT ARE REQUIRED FOR THE TYPE OF UTILITY RELOCATION THAT IS BEING PERFORMED AS PART OF THIS CONTRACT.

4. THE UTILITY CONTRACTOR SHALL EXERCISE ALL STANDARD SAFETY PRACTICES WHEN WORKING ON ENERGIZED ELECTRICAL LINES (e.g, RUBBER GOODS INSPECTIONS, GROUNDING OF LINES AND VEHICLES / EQUIPMENT, TOOL INSPECTIONS, ADEQUATE SUPERVISION, ETC.).

5. THE UTILITY CONTRACTOR SHALL BEAR THE RESPONSIBILITY FOR THE SAFETY OF ITS EMPLOYEES AND SHALL ENSURE THAT THEY ABIDE BY ALL STATE, FEDERAL AND LOCAL REGULATIONS REGARDING SAFE WORK PRACTICES. IF SUCH REGULATIONS ARE VIOLATED, THE UTILITY OWNER SHALL MAINTAIN THE RIGHT TO STOP WORK ON THEIR FACILITIES UNTIL SUCH CONDITIONS ARE CORRECTED.

6. IN GENERAL, THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS, METHODS, AND/OR INTEGRAL MATERIALS OUTLINED IN THE UTILITY CONSTRUCTION DRAWINGS AND THE TECHNICAL SPECIFICATIONS THAT ARE NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION OF THE UTILITY FACILITIES BEING RELOCATED.

7. THE ELECTRICAL FACILITIES ALONG THIS PROJECT OPERATE AT A NOMINAL PHASE-TO-PHASE VOLTAGE RATING OF 12.47KV AND 46KV. ALL WORK DONE BY THE UTILITY CONTRACTOR IS TO BE PERFORMED WHILE THE EXISTING FACILITIES ARE ENERGIZED, REQUIRING THE UTILITY CONTRACTOR TO USE PROPER HOT LINE WORKING TECHNIQUES. THE UTILITY OPERATES A 24-HOUR/365-DAY CONTROL CENTER THROUGH WHICH THE UTILITY CONTRACTOR SHALL COORDINATE ALL REQUESTS FOR CAUTION ORDERS AND CLEARANCE REQUESTS FOR TRANSFORMERS OR TAPS.

8. UTILITY CONSTRUCTION DRAWINGS ARE INCLUDED AS PART OF THE DRAWING PACKET AND MUST BE ADHERED TO DURING ALL PHASES OF CONSTRUCTION.

9. ALL MATERIALS TO BE USED BY THE UTILITY CONTRACTOR ON THE PROJECT MUST BE NEW MATERIALS AND MUST BE APPROVED BY THE UTILITY OWNER PRIOR TO PURCHASE OR USE. A PROPOSED LIST OF MATERIALS SHALL BE SUBMITTED TO THE UTILITY OWNER AS NOTED IN THE TECHNICAL SPECIFICATIONS FOR THE PROJECT. NO MATERIAL SUBSTITUTIONS ARE ALLOWED WITHOUT THE PRIOR CONSENT OF THE UTILITY OWNER. STORAGE LOCATION OF MATERIALS ON THE PROJECT SITE MUST BE A SECURE ENVIRONMENT. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR ANY LOST, STOLEN OR DAMAGED MATERIALS ON THE PROJECT.

10. THE UTILITY CONTRACTOR IS REQUIRED TO MAINTAIN COMMUNICATION WITH THE UTILITY OWNER'S CONTROL CENTER USING TELEPHONE COMMUNICATIONS. THE UTILITY CONTRACTOR MUST CONTACT THE CONTROL CENTER BY 5PM (EST) THE DAY BEFORE THEY BEGIN WORK ON THE PROJECT IN ORDER TO OBTAIN ANY CAUTION ORDERS AND TO INFORM THE UTILITY WHAT PORTION OF THE WORK IS GOING TO BE DONE. CAUTION ORDERS MUST BE RELEASED AT THE END OF EACH WORKDAY.

11. THE UTILITY CONTRACTOR IS TO PERFORM ALL REQUIRED WORK IN SUCH A MANNER AS TO NOT CAUSE UNINTENTIONAL OUTAGES TO THE CUSTOMERS ALONG THE PROJECT. ALL PLANNED OUTAGES MUST BE HANDLED IN ACCORDANCE WITH SECTION 01 1113E "SUMMARY OF WORK" IN THE CONSTRUCTION TECHNICAL SPECIFICATIONS. LARGE SCALE OUTAGES ARE NOT ALLOWED.

12. IF FIELD CONDITIONS ARISE WHICH PREVENT THE CONSTRUCTION ON THE PROJECT FROM PROCEEDING AS DESIGNED, THE UTILITY CONTRACTOR WILL COORDINATE WITH THE UTILITY OWNER / ENGINEER TO RESOLVE THE ISSUES SO THAT CONSTRUCTION CAN CONTINUE.

13. TO DECREASE THE POTENTIAL FOR OUTAGES, THE UTILITY CONTRACTOR SHALL NOT HAVE MORE THAN ONE (1) MILE OF ELECTRICAL LINE LAID OUT UNDERCONSTRUCTION WITH TEMPORARY LAYOUT ARMS AT ANY ONE TIME.

14. THE UTILITY CONTRACTOR SHALL COMPLY WITH ALL TDOT REGULATIONS, PERMITS AND TRAFFIC CONTROL GUIDELINES AS REQUIRED.

15. THE LOCATIONS OF EXISTING UTILITIES SHOWN WITHIN THESE DRAWINGS ARE BASED ON INFORMATION PROVIDED BY TDOT, AND SHALL BE VERIFIED BY THE UTILITY CONTRACTOR PRIOR TO CONSTRUCTION. THE UTILITY CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES AND REQUEST THAT THE UTILITY OWNERS PROPERLY LOCATE AND MARK THEIR PERSPECTIVE UTILITY ON THE GROUND.

16. THE UTILITY CONTRACTOR SHALL REQUEST UTILITY LOCATIONS A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO BEGINNING ANY CONSTRUCTION IN THE AREA OF THE UTILITIES IN QUESTION.

17. THE TDOT PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE EXISTING UNDERGROUND UTILITIES. THE PRIME CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY EXISTING UTILITY OWNER PRIOR TO DIGGING. IN THE EVENT THAT THERE IS ANY DAMAGE TO OR INTERRUPTION OF EXISTING FACILITIES, THE PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ANY COST INCURRED FROM THE EVENT.

18. SOME EXISTING UTILITIES CAN BE LOCATED BY CALLING TENNESSEE ONE-CALL SYSTEMS, INC. AT "811".

19. THE UTILITY CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THE PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND EXISTING UTILITIES, THE UTILITY CONTRACTOR SHALL BE REQUIRED TO FURNISH THE EQUIPMENT NECESSARY TO COMPLETE THE WORK.

20. THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY ITS EMPLOYEES IN AREAS OUTSIDE OF TDOT ROW ALONG THE LENGTH OF THE PROJECT. THE UTILITY CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR RESOLVING ALL COMPLAINTS THAT MAY ARISE FROM ITS ACTIVITIES, AND SHALL PROMPTLY REPORT SUCH COMPLAINTS TO THE UTILITY OWNER AS TO WHETHER OR NOT IT HAS BEEN RESOLVED.

21. GROUND AND AERIAL INSPECTION OF INSTALLED FACILITIES ONCE COMPLETED SHALL BE THE RESPONSIBILITY OF THE UTILITY CONTRACTOR. ANY CORRECTIONS THAT ARE REQUIRED SHALL BE DONE DURING THE CONSTRUCTION OF THE PROJECT AND VERIFIED BY THE UTILITY OWNER / ENGINEER. THE UTILITY OWNER WILL HAVE INSPECTORS ON-SITE TO VERIFY SAFETY AND QUALITY OF WORK IS CONSISTENT WITH UTILITY OWNER'S STANDARDS.

22. WHILE SOME WORK MAY ONLY BE REQUIRED "AROUND" OTHER UTILITY FACILITIES, SOME WORK MAY NEED TO BE DONE CONCURRENTLY WITH THE OPERATIONS OF OTHER UTILITY CONTRACTORS. IT IS THE RESPONSIBILITY OF THE TDOT PRIME CONTRACTOR TO ENSURE THAT ALL UTILITY COORDINATION BE ADDRESSED DURING THE CONSTRUCTION OF THE PROJECT.

23. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL FACILITIES INDICATED WITHIN THESE DRAWINGS AT "FINAL GRADE" AS SHOWN. ANY TEMPORARY INSTALLATIONS THAT ARE NOT SPECIFICALLY NOTED WITHIN THESE DRAWINGS AND THAT ARE NOT ADDRESSED AND COORDINATED PRIOR TO CONSTRUCTION OF THE PROJECT WILL BE THE RESPONSIBILITY OF THE TDOT PRIME CONTRACTOR.

24. CONSTRUCTION OF RELOCATED FACILITIES IS NOT CONSIDERED TO BE COMPLETE UNTIL THE UTILITY CONTRACTOR HAS ENERGIZED THE LINES AT THE FINAL OPERATING VOLTAGE IN ACCORDANCE WITH EPB SPECIFICATIONS.

25. PERSONNEL CHANGES ARE TO BE KEPT TO A MINIMUM DURING THE CONSTRUCTION OF THE PROJECT AS TO REDUCE UNFAMILIAR PERSONNEL TO BE WORKING ON THE FACILITIES OF THE UTILITY OWNER.

26. THE TDOT PRIME CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL UTILITY FACILITIES THAT ARE TO BE RELOCATED WITHIN THE PROJECT.

27. WHERE EROSION CONTROL MEASURES ARE NEEDED FOR THE UTILITY WORK OCCURING OUTSIDE THE STATE RIGHT-OF-WAY, THE UTILITY CONTRACTOR SHALL SUBMIT A PROPOSED EROSION AND SEDIMENT CONTROL PLAN TO THE TDOT PROJECT SUPERVISOR FOR APPROVAL PRIOR TO BEGINNING WORK.

28. THE DISTANCES THAT ARE SHOWN ON THE DRAWINGS ARE HORIZONTAL DISTANCES ONLY, AND DO NOT ALLOW FOR ANY CHANGES IN ELEVATION THAT EXIST ALONG THE PROJECT.

29. ALL OIL-FILLED EQUIPMENT, INCLUDING RECLOSERS AND TRANSFORMERS, SHALL BE PROVIDED BY THE UTILITY OWNER. THE LABOR COST, AND MINOR MATERIALS REQUIRED TO INSTALLL THESE UNITS SHALL BE INCLUDED IN THE BID FROM THE UTILITY CONTRACTOR. LEAKING OIL-FILLED EQUIPMENT WILL BE PLACED IN HAZARDOUS MATERIAL BAGS UNTIL THE UTILITY OWNER CAN PICK THE EQUIPMENT UP FROM THE PROJECT SITE.

30. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL TANGENT STRUCTURES ARE PROPERLY ALIGNED AFTER SETTING ANGLE POLES OR STRUCTURES. AT JUNCTION POLES AND OTHER CONTROL LOCATIONS, THE PROPOSED POLE LOCATION SHALL NOT BE FARTHER THAN TWENTY-FOUR (24) INCHES FROM THE EXISTING POLE WITHOUT APPROVAL FROM THE UTILITY OWNER. THE UTILITY CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE BACK AND/OR FORWARD SPAN TANGENT POLE ALIGNMENT.

31. POLE DRILLING IS TO BE INCLUDED IN THE LABOR AND MATERIAL COST FOR THE POLE.

32. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR CHECKING AND ENSURING THE PROPER PHASE ROTATION OF ALL THREE-PHASE MOTORS, ALONG WITH VOLTAGE AND PHASING TO OTHER LOADS, BEFORE AND AFTER CONSTRUCTION OF NEW FACILITIES. THE UTILITY CONTRACTOR SHALL MAINTAIN EXISTING PHASE CONNECTIONS FOR ALL CONDUCTORS, TRANSFORMERS, ETC. UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR WITH THE CONSENT OF THE UTILITY OWNER / ENGINEER.

33. LOCKNUTS SHALL BACK UP ALL NUTS ON THREADED BOLTS SUCH AS MACHINE BOLTS, DOUBLE ARMING BOLTS, UPSET BOLTS, INSULATOR PINS, ETC. EXISTENCE OF LOCKNUTS WILL BE CLOSELY EXAMINED BY THE UTILITY OWNER DURING CONSTRUCTION. BOLTS SHALL NOT EXTEND MORE THAN TWO (2) INCHES FROM NUTS.

34. BULLDOG TYPE GRIPS SHALL NOT BE USED FOR PULLING DOWNGUYS.

35. THE UTILITY CONTRACTOR SHALL INSTALL ALL DOWNGUYS AT LENGTHS AS INDICATED ON THE DRAWINGS UNLESS OTHERWISE DISCUSSED WITH AND APPROVED BY THE UTILITY OWNER / ENGINEER.

36. THE UTILITY CONTRACTOR SHALL INSTALL FIBERGLASS INSULATOR GUYLINKS ON ALL DOWNGUYS WITHIN TWO (2) FEET OF PRIMARY CONDUCTORS.

37. WHEN WOOD POLES ARE BEING UTILITIZED, THE UTILITY CONTRACTOR MUST INSPECT AND TEST ALL POLES BEFORE CLIMBING.

38. ANCHORS THAT ARE TO BE RETIRED SHALL HAVE THE ROD UNSCREWED AND REMOVED, OR BE CUT OFF AT LEAST EIGHTEEN (18) INCHES BELOW FINAL GRADE.

39. ALL GROUND RODS TO BE REMOVED SHALL BE PULLED, NOT CUT OFF.

40. ALL MOUNTING HARDWARE REQUIRED FOR INSTALLING NEW TRANSFORMERS SHALL BE INCLUDED IN THE UNIT FOR THE TRANSFORMER AS INDICATED BY THE TDOT STANDARD ITEM NUMBER FOR THOSE UNITS. IN ADDITION, THE UTILITY CONTRACTOR WILL BE REQUIRED TO CHANGE OUT ALL EXISTING PORCELIAN LIGHTNING ARRESTORS WITH POLYMER ARRESTORS.

41. GUY MARKERS ARE TO BE INSTALLED ON ALL NEW AND EXISTING-TO-REMAIN DOWN GUYS REQUIRED FOR THE PROJECT.

42. CONDUCTOR SPLICING SHALL BE KEPT TO A MINIMUM. THERE SHALL BE NO MORE THAN ONE SPLICE PER SPAN PER CONDUCTOR, AND NO SPLICES ARE ALLOWED CLOSER THAN TEN (10) FEET FROM ANY SUPPORT.

43. THE DESIGN ENGINEER WILL PROVIDE ALL STAKING DATA, DESIGN TENSION AND SAG DATA AS REQUIRED.

44. THE UTILITY CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER AND/OR DESIGN ENGINEER FOR VERIFICATION OF ALL POLE STAKING LOCATIONS PRIOR TO ANY POLE INSTALLATION ON THE PROJECT.

45. THE UTILITY CONTRACTOR SHALL PROVIDE THE UTILTY OWNER WITH ONE (1) SET OF CLEAN, CLEARLY MARKED "AS-BUILT" DRAWINGS AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL REFLECT ANY AND ALL CHANGES THAT WERE MADE TO THE FACILITIES DURING CONSTRUCTION.

46. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONSTRUCTION DRAWINGS AND TECHNICAL SPECIFICATIONS FOR THE RELOCATION OF FACILITIES PRIOR TO BIDDING THE PROJECT. ANY QUESTIONS CONCERNING INFORMATION SHOWN IN THE CONTRACT DOCUMENTS SHALL BE ADDRESSED TO THE UTILITY OWNER / ENGINEER PRIOR TO BIDDING ON THE PROJECT.

47. ALL INSTALLED POLES SHALL HAVE A POLE TAG TO EPB SPECIFICATIONS WITH AN ASSIGNED POLE NUMBER ON THE TAG AFFIXED TO THE POLE. COORDINATE WITH EPB ON POLE TAGGING.

48. ALL WOOD POLES SHALL HAVE "SOFT" CCA TREATMENT DENOTED AS CCA-ET OR CCA CLAW.

49. ALL PRIMARY AND SECONDARY CONDUCTORS, CONNECTORS, JUMPERS, ETC. SHALL BE THOROUGHLY WIRE BRUSH CLEANED OF FOREIGN MATTER. AN OXIDATION INHIBITOR, AS APPROVED BY THE UTILITY OWNER, SHALL BE APPLIED TO WIRE ENDS. CONDUCTOR SHALL BE LAID STRAIGHT BEFORE CONNECTING AND/OR INSTALLING ANY CONNECTOR OR CLAMP.

50. UTILITY CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTING EACH REEL OF CONDUCTOR FOR THE PROJECT. ANY DAMAGE TO THE CONDUCTOR SHALL BE REMOVED AND SPLICED AS REQUIRED. ALL CONDUCTOR SHALL BE PROTECTED FROM EQUIPMENT OR VEHICLE TRAFFIC WHILE BEING INSTALLED.

51. ROLLERS AND BLOCKS SHALL BE INSPECTED PRIOR TO INSTALLATION OF CONDUCTOR TO PREVENT BINDING OR ANY OTHER DAMAGE DURING STRINGING.

CLEARING AND TRIMMING

1. UTILITY CONTRACTOR SHALL PROVIDE ALL NECESSARY TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CUT, TRIM, AND/OR REMOVE REQUIRED TREES IN AREAS OUTSIDE OF TDOT RIGHT-OF-WAY AS INDICATED ON THE DRAWINGS. DEBRIS RESULTING FROM SUCH WORK SHALL BE DISPOSED OF DAILY FROM THE PROJECT SITE. DEBRIS SHALL INCLUDE BUT NOT BE LIMITED TO BRUSH, WOOD, LIMBS, LOGS AND LEAVES.

2. UTILITY CONTRACTOR SHALL PERFORM ALL WORK TO THE SATISFACTION OF THE UTILITY OWNER AND IN ACCORDANCE WITH ALL FEDERAL, STATE, COUNTY, MUNICIPAL AND OTHER LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THE WORK BEING PERFORMED, AS WELL AS WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE Z133.1 AND A300.

3. TREE TRIMMING SHALL BE DONE IN ACCORDANCE WITH THE UTILITY OWNER'S VEGETATION MANAGEMENT CONTRACTOR POLICY MANUAL. A REPRESENTATIVE OF THE VEGETATION MANAGEMENT DEPARTMENT FOR EPB WILL BE AVAILABLE TO ASSIST AND PROVIDE DETAILED INFORMATION.

4. ALL GROWTH SHALL BE CLEARED WITHIN THREE (3) FEET OF ALL SERVICE CONDUCTORS WITH THE USE OF LATERAL PRUNING ONLY, UNLESS OTHERWISE INSTRUCTED BY THE UTILITY OWNER.

5. ALL STRUCTRES SHALL BE CLEARED WITHIN A TEN (10) FOOT RADIUS OF THE STRUCTURE. ALL DOWN GUYS, ANCHORS, SPAN GUYS, ETC. SHALL BE CLEARED WITHIN A FIVE (5) FOOT RADIUS OF THE STRUCTURE.

6. FOR ALL TREES THAT ARE CUT, THE UTILITY CONTRACTOR SHALL ENSURE THAT THE TREES ARE CUT FLUSH WITH THE GROUND.

7. UTILITY CONTRACTOR SHALL PERFORM ALL WORK IN A REASONABLE, SAFE AND SECURE FASHION TO COMPLY, AT A MINIMUM, WITH ALL SAFETY AND SECURITY REQUIREMENTS OF ALL GOVERNMENT AUTHORITIES AND TO PERFORM THE WORK IN SUCH A MATTER AS TO PREVENT ACCIDENTS TO THE PUBLIC OR ANY DAMAGE TO PROPERTY.

8. ALL WORK IS TO BE DONE WHILE THE FACILITIES ARE ENERGIZED, AND THEREFORE, THE UTILITY CONTRACTOR SHALL GUARD AGAINST INTERFERENCE WITH THE NORMAL OPERATION OF THE ELECTRICAL FACILITIES TO ENSURE THERE IS NO DAMAGE TO ENERGIZED CIRCUITS.

9. THE UTILITY OWNER WILL PROVIDE A REPRESENTATIVE OF THE VEGETATION MANAGEMENT DEPARTMENT FOR EPB TO SUPERVISE ANY NECESSARY TREE TRIMMING, IN ORDER TO ENSURE THAT THE WORK IS BEING DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY OWNER AS WELL AS THE CUSTOMERS THAT ARE AFFECTED.

10. UTILITY CONTRACTOR SHAL BE REQUIRED TO MEET WITH THE ARBORIST ASSIGNED TO THE PROJECT BY THE UTILITY OWNER FOR THE FACILITIES THAT ARE BEING RELOCATED PRIOR TO ANY TREE TRIMMING OFF OF STATE RIGHT-OF-WAY ALONG THE PROJECT.

CAUTION AND LINE CLEARANCE ORDERS

1. ALL CAUTION ORDERS SHALL BE REQUESTED AND ISSUED THROUGH THE UTILITY OWNER'S CONTROL CENTER BY CALLING THE CONTROL CENTER. EPB TO PROVIDE THE CALL CENTER PRIVATE # TO THE UTILITY CONTRACTOR FOR THE PROJECT.

2. CAUTION ORDERS WILL ONLY BE ISSUED FROM AN EPB CONTROL CENTER EMPLOYEE. ALL CREW SUPERVISORS AND TEAM LEADS WILL NEED TO ATTEND EPB CAUTION AND CLEARANCES TRAINING TO BE CONDUCTED BY EPB.

3. UTILITY CONTRACTOR SHALL PROIVDE THE FOLLOWING INFORMATION WHEN REQUESTING A CAUTION ORDER:
   - -NAME OF EMPLOYEE IN-CHARGE
   - -COMPANY NAME
   - -CELL PHONE NUMBER
   - -POLE NUMBER

4. ONCE THE CAUTION ORDER IS REQUESTED, THE UTILITY CONTRACTOR SHALL VERIFY TO THE CONTROL CENTER THAT THE INFORMATION PROVIDED IS CORRECT. ONCE THE INFORMATION IS VERIFIED, THE CONTROL CENTER WILL PROCESS THE CAUTION ORDER. THE CONTROL CENTER WILL THEN PROVIDE THE CONTRACTOR WITH A CAUTION ORDER NUMBER. THE UTILITY CONTRACTOR MUST CONFIRM RECEIPT OF THE NUMBER BEFORE THE PROCESS IS COMPLETE.

5. WHEN A CAUTION ORDER IS RELEASED, THE UTILITY CONTRACTOR SHALL CONTACT THE CONTROL CENTER VIA TELEPHONE AND USING THEIR VEHICLE NUMBER FOR CONFIRMATION. THE UTILITY CONTRACTOR MUST REQUEST RELEASE OF THE CAUTION ORDER BY PROVIDING THE CONTROL CENTER THE NUMBER ASSIGNED TO THE CAUTION ORDER, AND THAT THE POLE TOP IS BACK IN THE NORMAL POSITION WITH THE TAG REMOVED. ONCE THE CONTROL CENTER VERIFIES ALL OF THE INFORMATION, THEY WILL PROCESS THE RELEASE OF THE CAUTION ORDER. ONCE THE CAUTION ORDER IS RELEASED, THE UTILITY CONTRACTOR MUST ACKNOWLEDGE AND CONFIRM THE RELEASE.

6. CAUTION ORDERS MUST BE RELEASED WHEN CREWS LEAVE THE WORK LOCATION DURING LUNCH BREAK LASTING MORE THAN ONE (1) HOUR.

7. NO CAUTION ORDERS CAN BE EXTENDED BEYOND ONE WORKING DAY.

8. IN THE EVENT OF INCLIMATE WEATHER, THE CONTROL CENTER WILL CONTACT THE UTILITY CONTRACTOR AND REQUEST THE RELEASE OF ANY CAUTION ORDERS THAT ARE IN EFFECT. IF THREE (3) ATTEMPTS ARE MADE TO CONTACT THE UTILITY CONTRACTOR, AND THEY FAIL TO RESPOND, THE UTILTY'S OPERATIONS SUPERVISOR WILL BE NOTIFIED IMMEDIATELY.

9. LINE CLEARANCE ORDERS WILL BE ISSUED TO A DESIGNATED UTILITY CONTRACTOR REPRESENTATIVE. CLOSE COMMUNICATION AND COORDINATION WITH THIS EPB EMPLOYEE IS CRITICAL. ALL LINE CLEARANCE ORDERS WILL BE ASSIGNED A NUMBER AND WILL FOLLOW THE SAME GUIDELINES FOR RELEASE AS CAUTION ORDERS.

10. ALL DISTRIBUTION AND TRANSMISSION LINE CLEARANCE ORDERS MUST BE REQUESTED THREE (3) WORKING DAYS PRIOR TO THE DAY THEY ARE NEEDED.

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 23031
STATE OF TENNESSEE
04-27-2026

ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM
SCALE	NONE
DATE	04.27.2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-04

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00

N

S.R. 27 (SUCK CREEK RD.)

5' CONC. SIDEWALK

GRAVEL

740

745

11' ASP.

GRAV.

CITY OF CHATTANOOGA

MOWED GRASS (DISK GOLF COURSE)

DISC GOLF TEE

S.R. 8

MATCH LINE STA. 747+50 SEE SHT. NO. U5-05

5' CONC. SW

C&G

DIR.

P.V.C.

1-S-B

APARTMENTS

GRAV.

48"RCP (TO BE REMOVED)

APPROX. PRES. R.O.W.

PROP. R.O.W.

CUT

MOBILE HOME

APPROX. PRES. R.O.W.

34' ASP.

MANHOLE NOT FOUND

WOODS

CH. LINK FENCE W/ BOLLARD

SIGN

LAWN

1-S-BL (LOCAL NO. 1)

1-S-B BUS.

GLENDALE DR.

10' CONST. ESMT.

38"X24" RCP (TO BE REMOVED)

PROP. R.O.W.

10' CONST. ESMT.

SIGNAL MOUNTAIN CEMENT COMPANY, LP

53"X34" RCP (TO BE REMOVED) INV-760.55

PROP. PERM. DRAIN ESMT.

1-S-BL VACANT

60"X38" RCP (TO BE REMOVED)

36"X24" CMP

60"X38" RCP (TO BE REMOVED)

BARBARA O. HAMRICK (HENRY OWENS & INEZ OWENS LIFE ESTATE)

MICHAEL R. HARRISON & NANCY E. HARRISON

J. E. EDMONDS, TRUSTEE U/A J. E. EDMONDS REVOCABLE LIVING TRUST

VICTOR GLENN WHITE

PRICILLA E. ROBERTS, ET AL

SIGNAL MOUNTAIN CEMENT HOURLY EMPLOYEES REAL ESTATE TRUST, INC

NO ELECTRIC UTILITY RELOCATION THIS SHEET

Know what's **below.** **Call 811** before you dig.

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 126651
STATE OF TENNESSEE

04-27-2026

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM
SCALE	1"=50'
DATE	04.27.2026

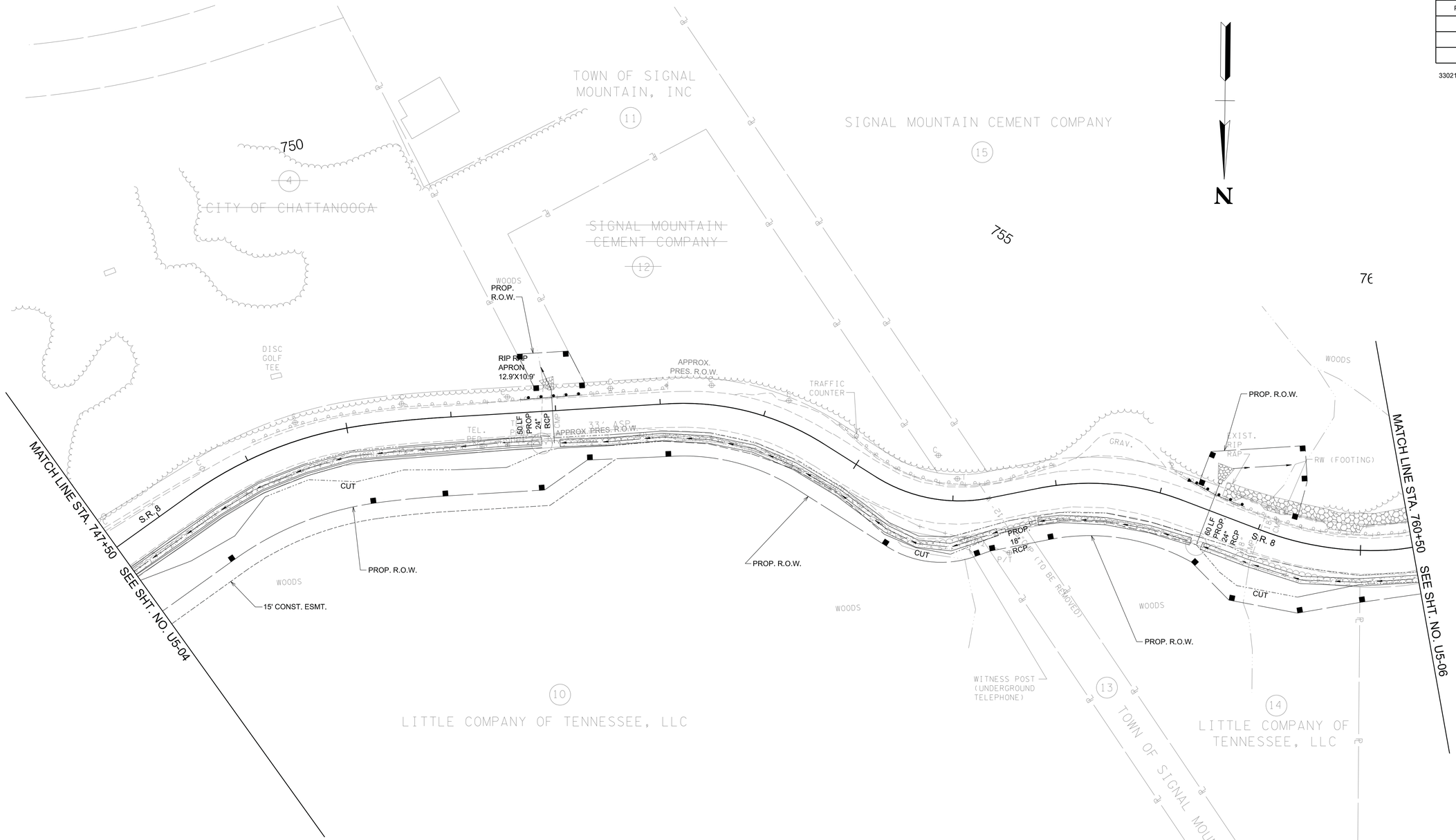
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
BEGIN PROJ. TO STA. 747+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-05

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



NO ELECTRIC UTILITY RELOCATION THIS SHEET

Know what's **below.**
Call 811 before you dig.

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 23055
STATE OF TENNESSEE

04-27-2026

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM
SCALE	DATE
1"=50'	04.27.2026

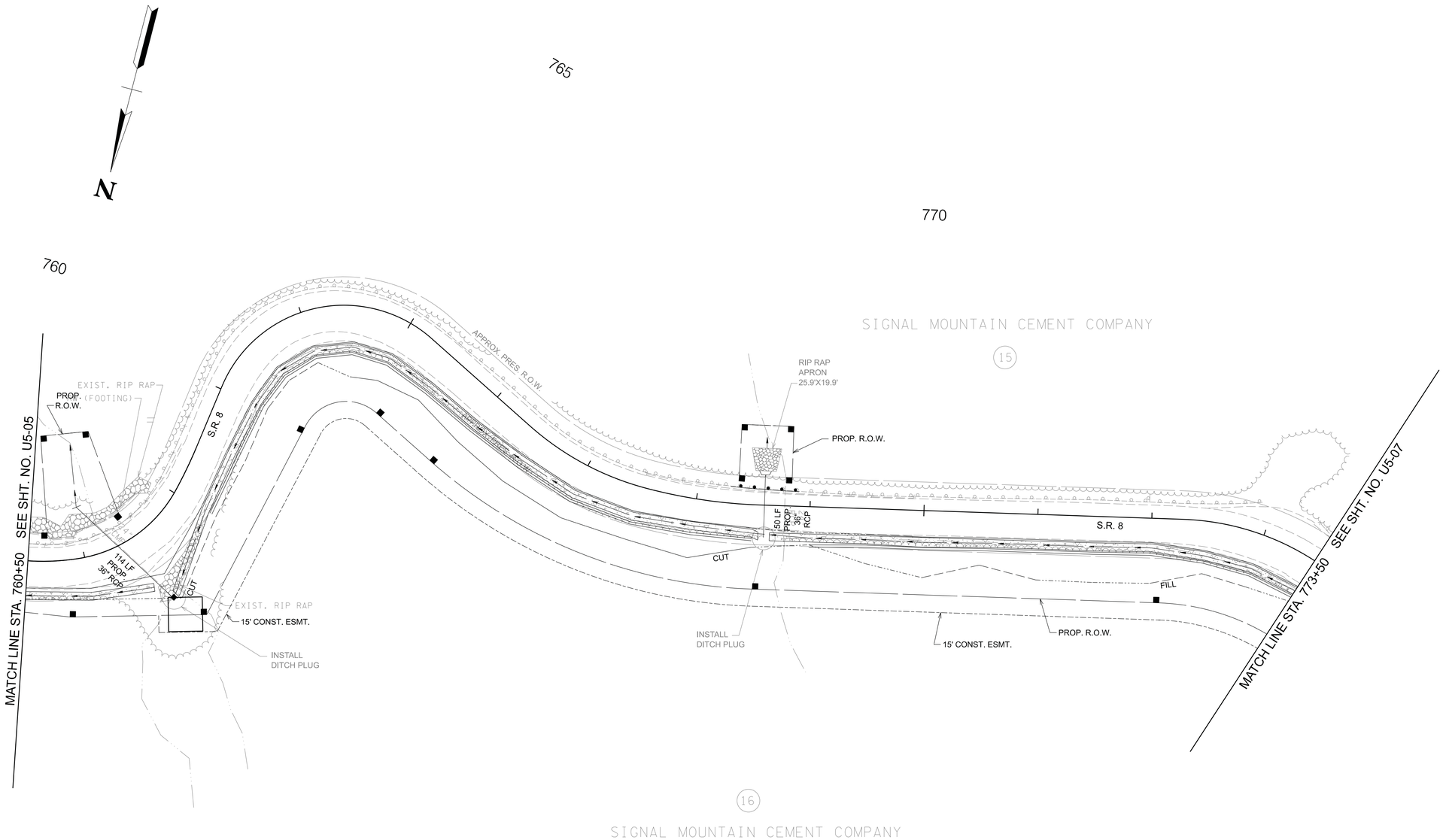
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 747+50 STA. 760+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-06

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



NO ELECTRIC UTILITY
RELOCATION THIS SHEET

811
Know what's below.
Call 811 before you dig.

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
NO. 23
STATE OF TENNESSEE
04-27-2026

ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM
SCALE	DATE
1"=50'	04.27.2026

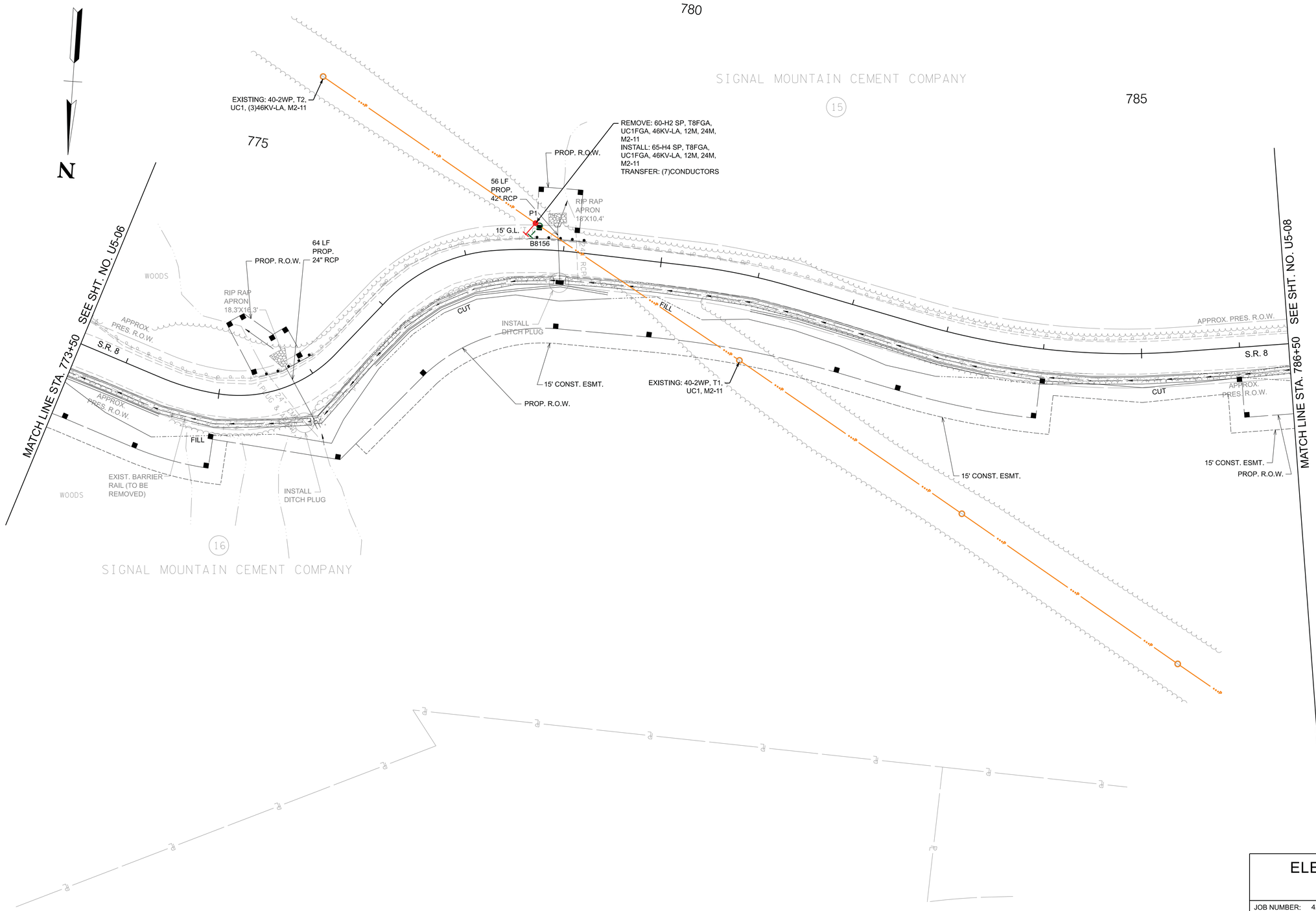
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 760+50 TO STA.773.50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-07

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



Know what's below. Call 811 before you dig.

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 23005
STATE OF TENNESSEE
04-27-2026

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM
SCALE	1"=50'
DATE	04.27.2026

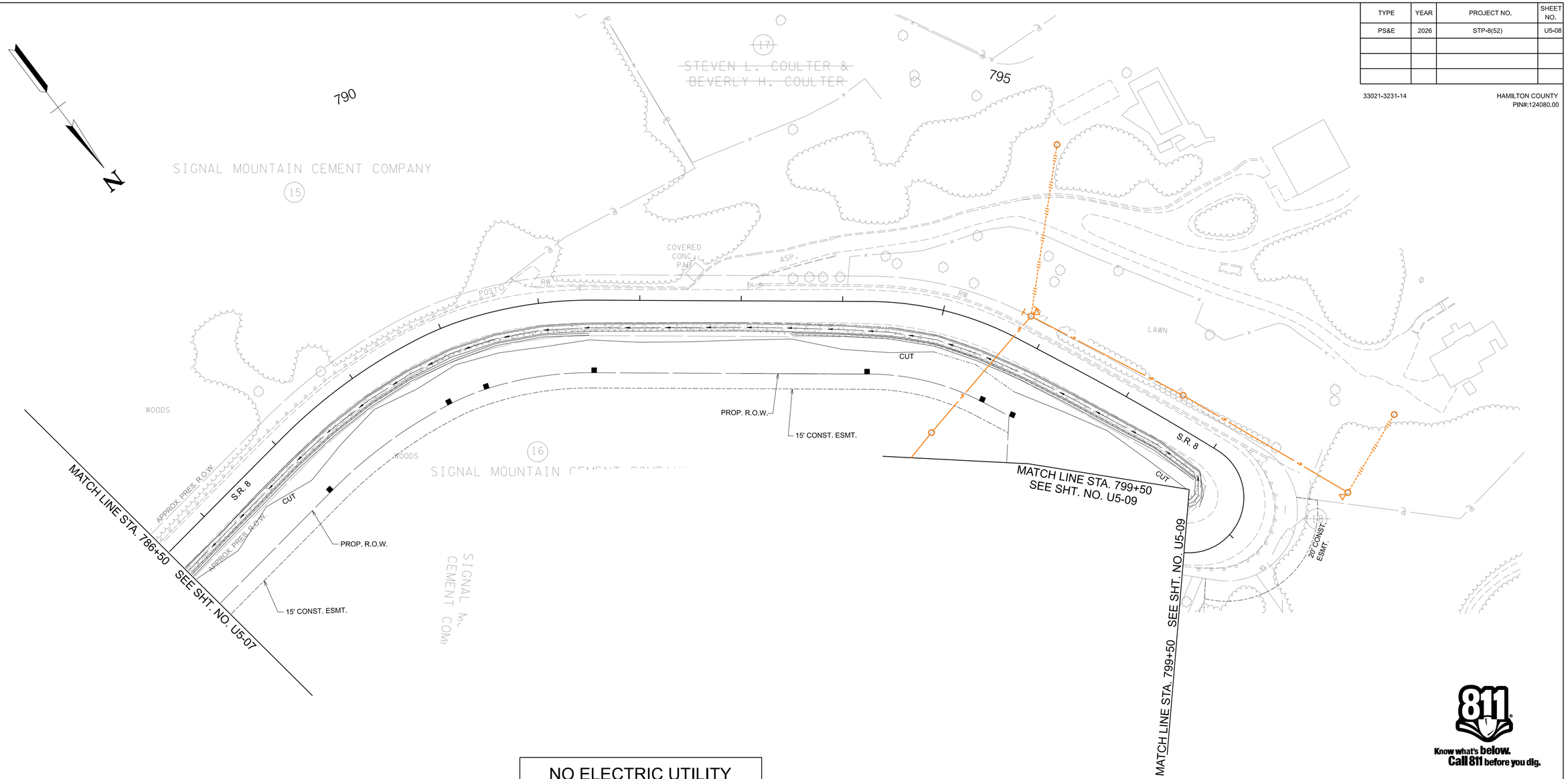
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 773+50 TO STA. 786+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-08

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



NO ELECTRIC UTILITY
RELOCATION THIS SHEET

811
Know what's below.
Call 811 before you dig.

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 2365
STATE OF TENNESSEE
04-27-2026

ELECTRIC POWER BOARD
OF CHATTANOOGA

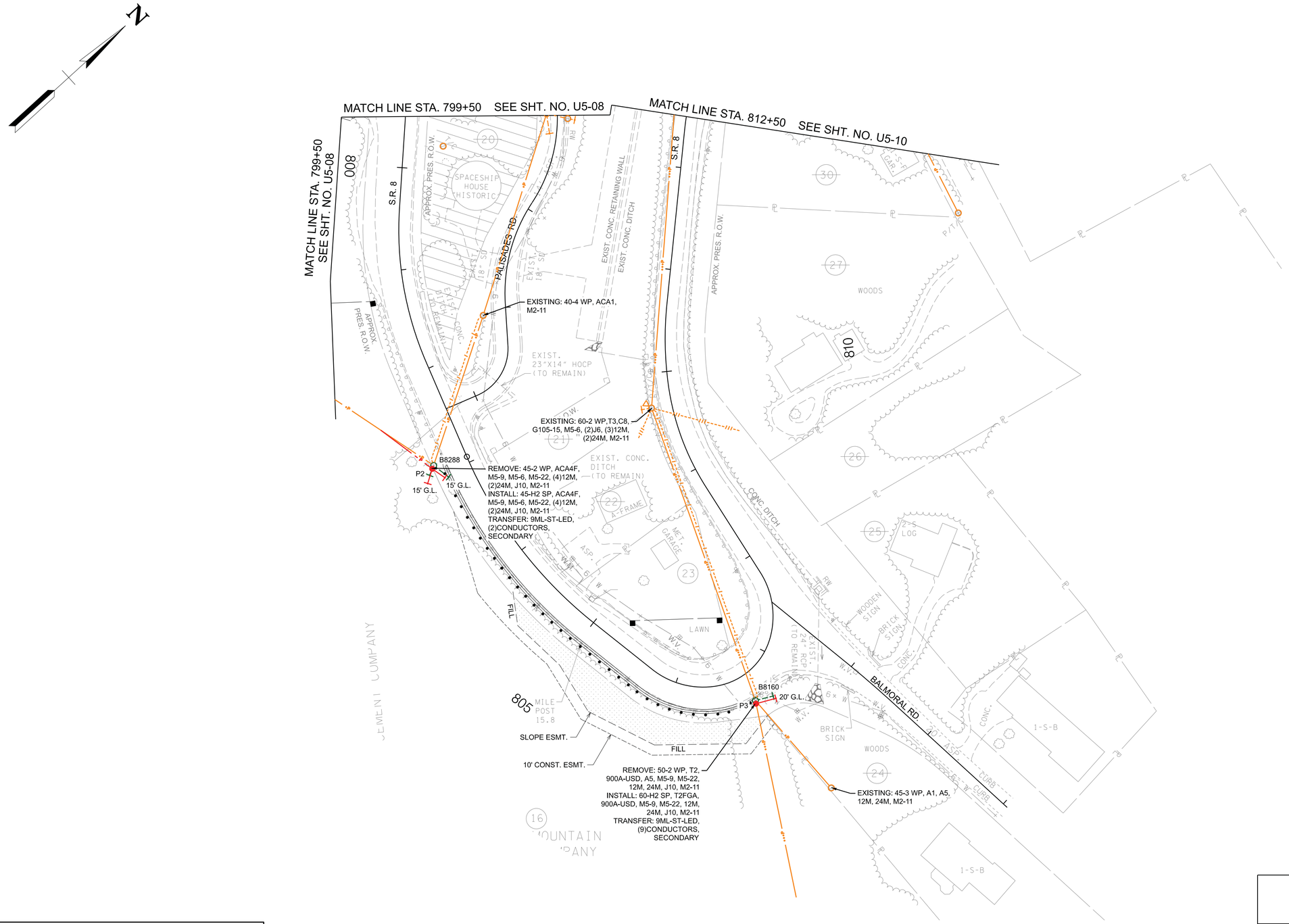
JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM
SCALE	1"=50'
DATE	04.27.2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 786+50 TO STA. 799+50

TYPE	YEAR	PROJECT NO. PIN#:124080.00	SHEET NO.
PS&E	2026	STP-8(52)	U5-09

33021-3231-14 HAMILTON COUNTY



LEGEND

HISTORIC PROPERTY (NATIONAL REGISTER BOUNDARY)

811 Know what's below. Call 811 before you dig.

JEFF L. MEADOW REGISTERED ENGINEER AGRICULTURE STATE OF TENNESSEE

04-27-2026

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM
SCALE	1"=50'
DATE	04.27.2026

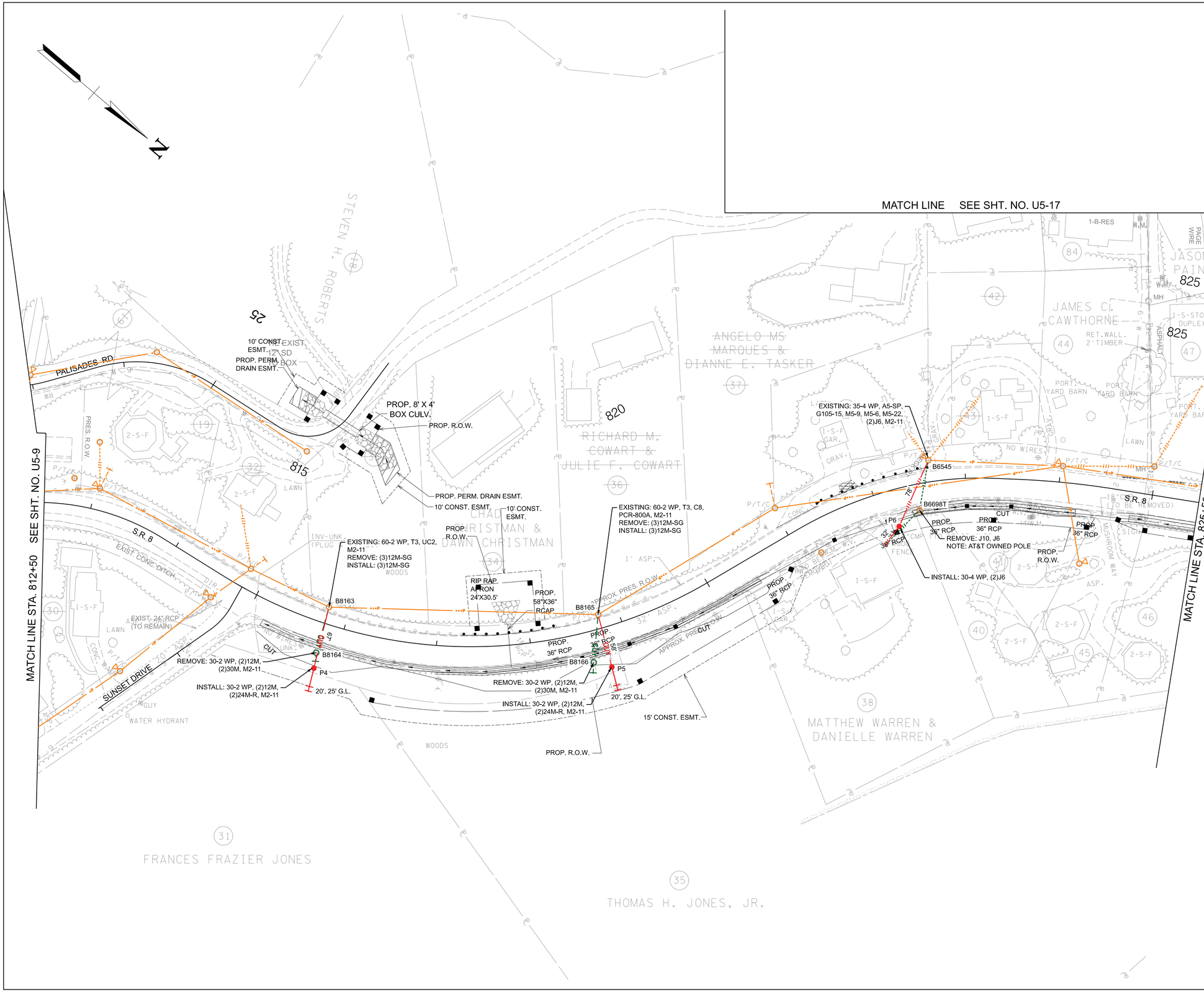
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 799+50 TO STA. 812+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-10

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



Know what's below. Call 811 before you dig.

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
04-27-2026

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM
SCALE	1"=50'
DATE	04.27.2026

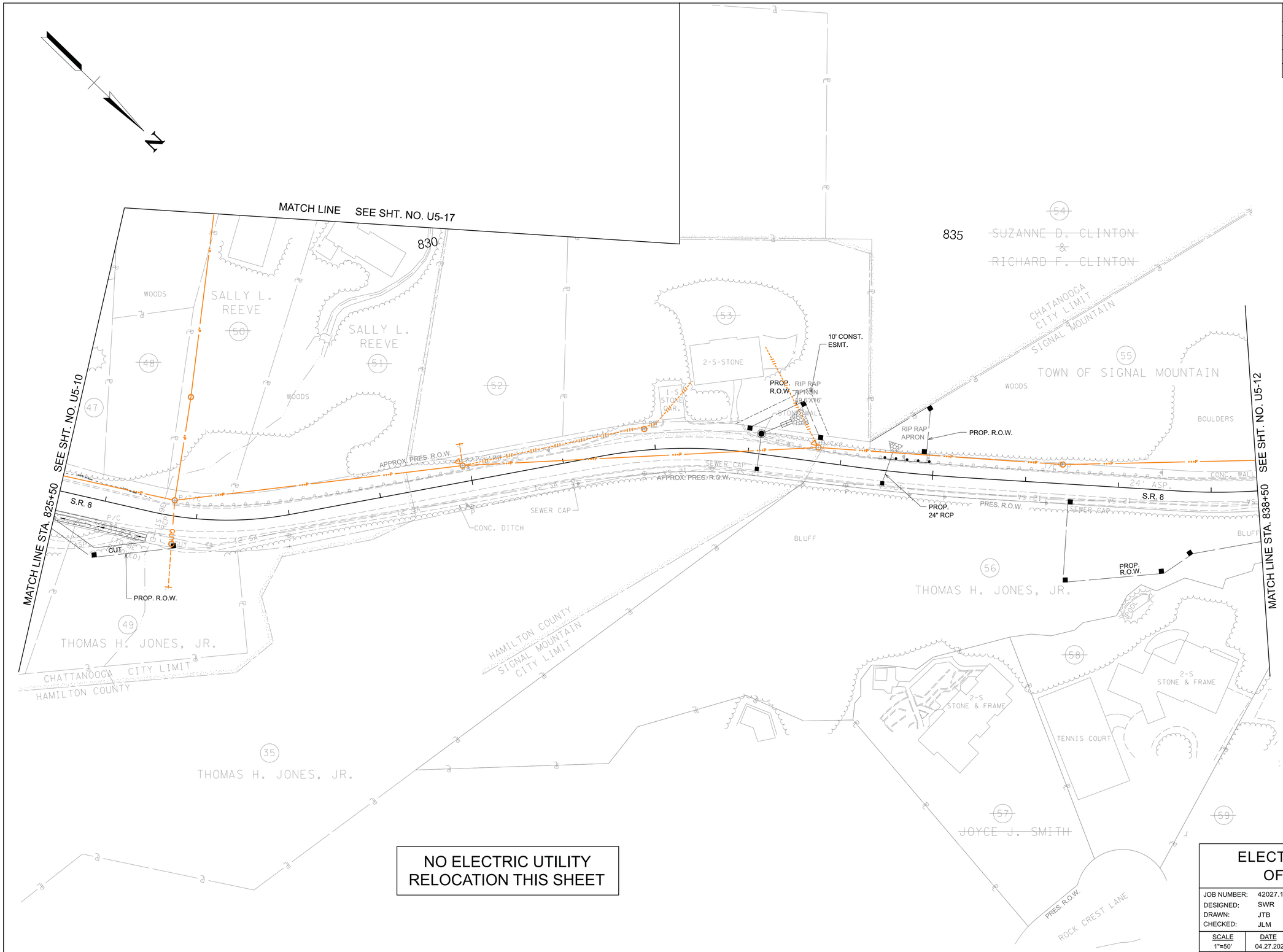
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 812+50 TO STA. 825+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-11

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



NO ELECTRIC UTILITY RELOCATION THIS SHEET

811 Know what's below. Call 811 before you dig.

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
04-27-2026

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM
SCALE	1"=50'
DATE	04.27.2026

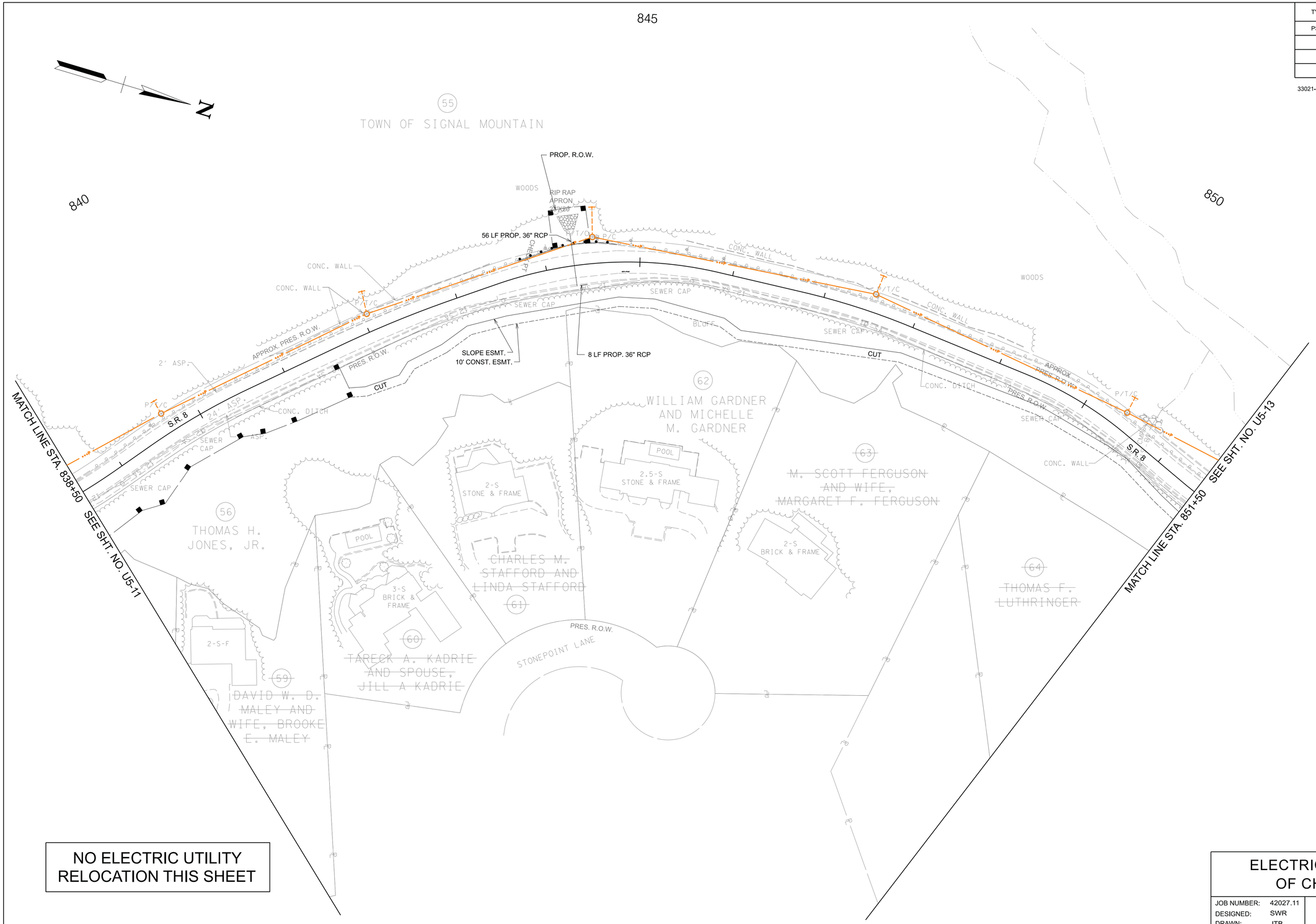
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 825+50 TO STA. 838+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-12

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



NO ELECTRIC UTILITY RELOCATION THIS SHEET

811 Know what's below. Call 811 before you dig.

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 2002
STATE OF TENNESSEE
04-27-2026

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM
SCALE	1"=50'
DATE	04.27.2026

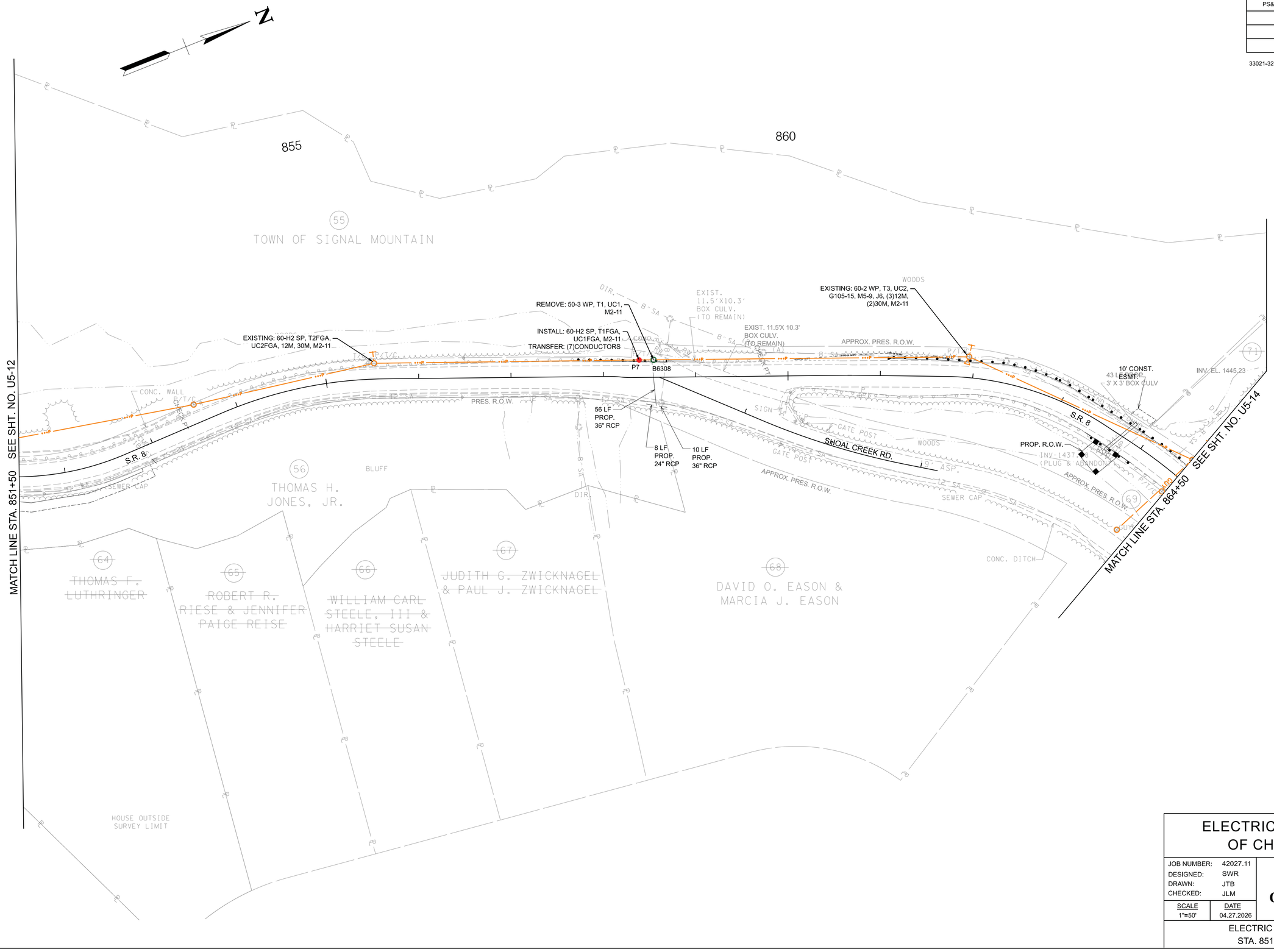
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 838+50 TO STA. 851+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-13

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



Know what's **below.**
Call 811 before you dig.

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 2020
STATE OF TENNESSEE

04-27-2026

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM
SCALE	1"=50'
DATE	04.27.2026

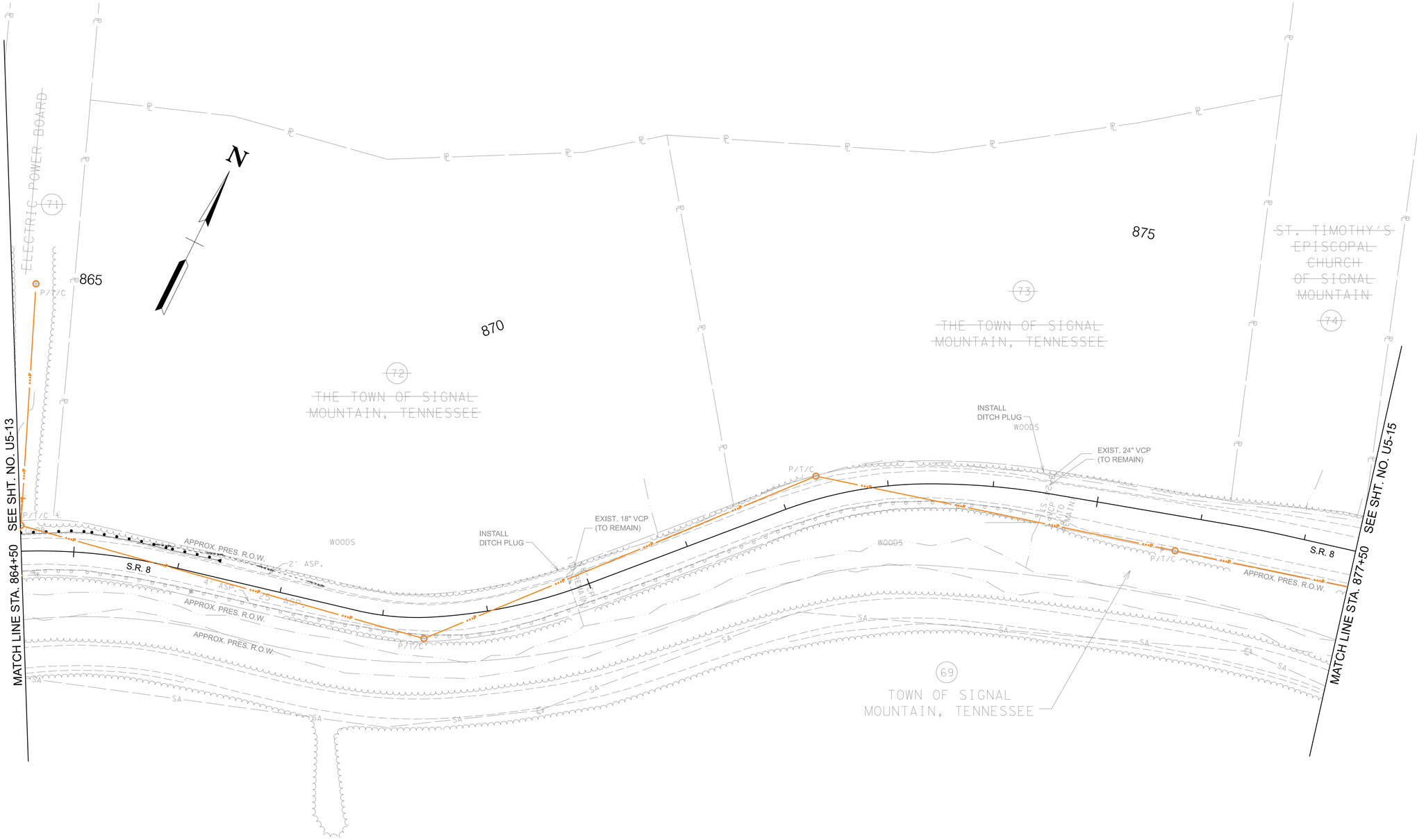
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 851+50 TO STA. 864+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-14

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



NO ELECTRIC UTILITY RELOCATION THIS SHEET

811 Know what's below. Call 811 before you dig.

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
04-27-2026

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM
SCALE	1"=50'
DATE	04.27.2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 864+50 TO STA. 877+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-15

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00

N

880

885

890

75

ST. TIMOTHY'S EPISCOPAL CHURCH OF SIGNAL MOUNTAIN

76

TOWN OF SIGNAL MOUNTAIN

MATCH LINE STA. 877+50 SEE SHT. NO. U5-14

SEE SHT. NO. U5-16 MATCH LINE STA. 890+50

S.R. 8

APPROX. PRES. R.O.W.

INSTALL DITCH PLUG

INSTALL DITCH PLUG

INSTALL 8 DITCH PLUG

WOODS

18" RCP TO REMAIN

24" RCP TO REMAIN

P/T/C

FW

SA

69

TOWN OF SIGNAL MOUNTAIN, TENNESSEE

77

TOWN OF SIGNAL MOUNTAIN

79

BENJAMIN F. NOWLIN, JR. & JUDY H. NOWLIN

2-S-B APARTMENTS

11' ASP.

33'

72 LF 24" RCP TO REMAIN

24" RCP TO REMAIN

P8

B4341

RIP RAP AT OUTFALL 10'X10'

SIGN

PROP. R.O.W.

EXISTING: 50-H2 SP, T1, 46KV-LA, M2-11

INSTALL: 55-H2 SP, T1FGA, 46KV-LA, M2-11
TRANSFER: (3)CONDUCTORS

REMOVE: 50-2 CONCRETE, T1FGA, 46KV-LA, M2-11

811 Know what's below. Call 811 before you dig.

JEFF L. MEADOW
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
No. 27
STATE OF TENNESSEE

04-27-2026

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM
SCALE	1"=50'
DATE	04.27.2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 877+50 TO STA. 890+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-16

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



NO ELECTRIC UTILITY RELOCATION THIS SHEET

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
04-27-2026

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM
SCALE	1"=50'
DATE	04.27.2026

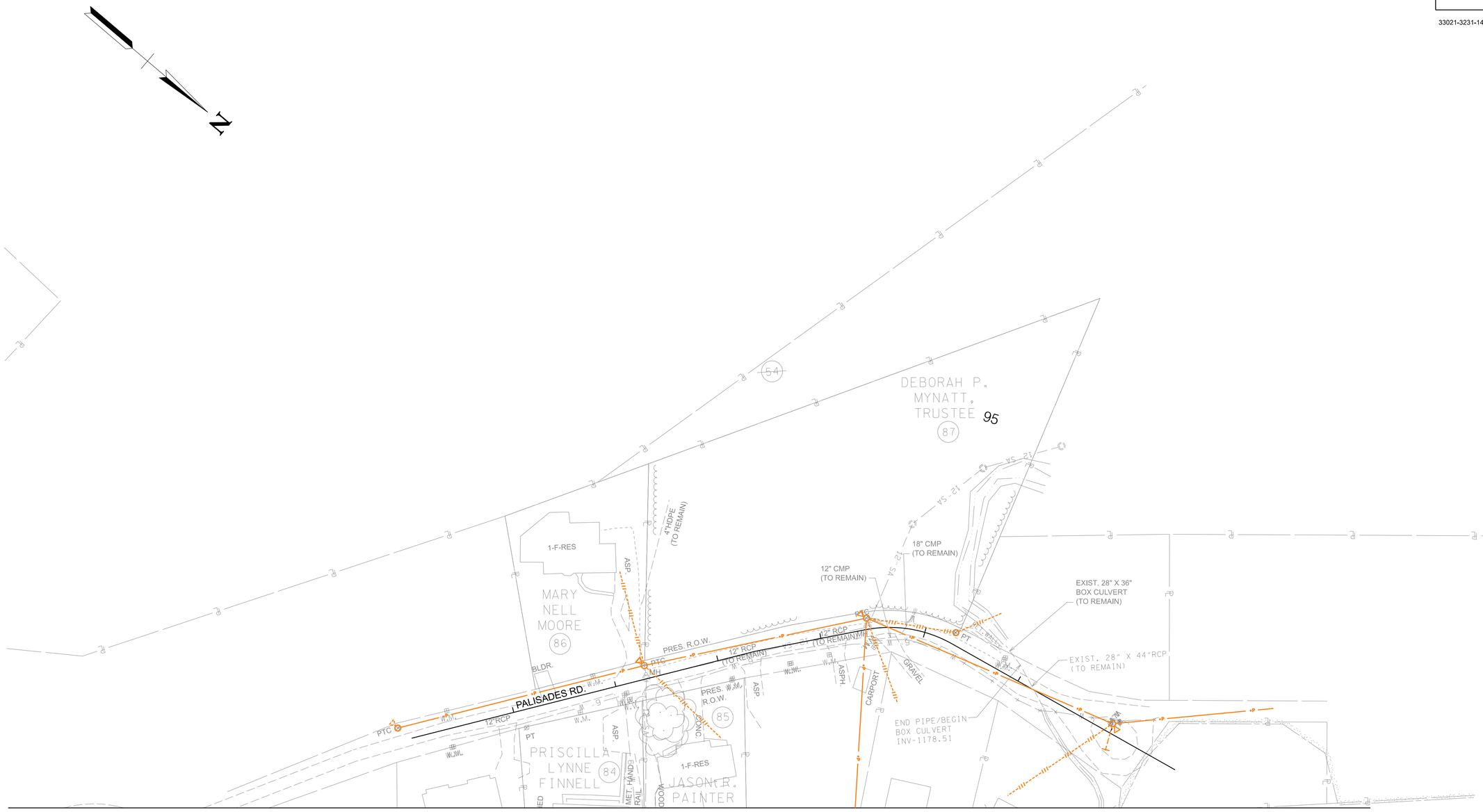
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 890+50 TO STA. 898+23.78

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-17

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



MATCH LINE SEE SHT. NO'S. U5-10 & U5-11

NO ELECTRIC UTILITY
RELOCATION THIS SHEET

Know what's below.
Call 811 before you dig.

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 22
STATE OF TENNESSEE

04-27-2026

ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM
SCALE	DATE
1"=50'	04.27.2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
PALISADES ROAD

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-18

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00

INSTALLATION POLE LOCATIONS

POLE NO.	POLE COORDINATES		INSIDE ANCHOR COORDINATES		OUTSIDE ANCHOR COORDINATES	
	NORTHING	EASTING	NORTHING	EASTING	NORTHING	EASTING
P1	281316.12	2164899.86			281328.02	2164908.99
P2	281779.07	2163600.55	281766.11	2163608.1	281782.31	2163615.2
P3	281858.29	2163983			281876.07	2163992.16
P4	282526.81	2163461.88	282535.73	2163479.78	282535.73	2163479.78
P5	282767.5	2163255.68	282783.9	2163267.12	282788	2163269.98
P6	282903.37	2162943.73				
P7	285859.33	2161614.14				
P8	287363.3	2164063.55				

CONDUCTOR INSTALLS

SHEET NUMBER(S)	FROM	TO	WIRE SIZE	CIRCUIT LENGTH (LF)	TOTAL LENGTH (LF)
U5-10	B6545	RES	#2 TRIPLEX	110	110

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 2020
STATE OF TENNESSEE

04-27-2026

ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM
SCALE	DATE
NONE	04.27.2026

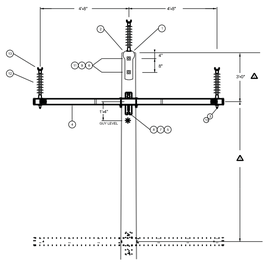
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
POLE LOCATIONS AND CONDUCTOR INSTALLS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-19

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



GENERAL NOTES:

1. DISTANCE SHALL BE SPECIFIED BY ENGINEERING PER REQUIREMENT OF A-4079.
2. ANGLES IN EXCESS OF 2 DEGREES MUST MEET REQUIREMENTS OF A-4290 FOR CONDUCTOR SIZE REQUIRED.
3. WHERE 46/12KV, SPACING IS ADEQUATE AND EXTRA CLEARANCE IS NEEDED TO ROLL FROM FLAT-TO-VERTICAL FRAMING IN LONG SPANS (> 350') SPACING MAY BE INCREASED TO 6'-4".
4. MAXIMUM VERTICAL SPAN (V.S.) FOR THIS STRUCTURE IS:

CONDUCTOR SIZE	V.S. MIN ANGLE	V.S. MAX ANGLE
1033.5 AL	300	250
795 AL	350	300
565.5 AL	450	400

BILL OF MATERIAL

	QTY	DESCRIPTION	ITEM	CU
1.	1	BRACKET • POLE TOP • POST INSULATOR (TRANSM)	I5118	T1FPGA
2.	1	STUD • LINE POST • 3/4" X 1 3/4"	I6115	
3.	2	STUD • LINE POST • 3/4" X 1"	I5117	
4.	1	CROSSARM • FIBERGLASS • 10'-0" HEAVY DUTY WITH GAIN	I5808	
5.	2	BOLT • MACH • GALV • SHSN • 5/8" X 16"	I5640	
6.	1	BOLT • OVAL EYE • 1" X 16"	I5554	
7.	2	WASHER • CURVED • 4" SQ • 13/16" HOLE • GALV STEEL	I5333	
8.	1	NUT • LOCKNUT • 3/4"	I6351	
9.	2	WASHER • CURVED • 2" SQ • 13/16" HOLE • MALLEABLE IRON	I5336	
10.	2	WASHER • SQ FLAT • 4" SQ • 13/16" HOLE • GALV STEEL	I5337	
11.	1	BOLT • MACH • GALV • SHSN • 5/8" X 12"	I5640	
12.	1	BOLT • OVAL EYE • 5/8" X 9"	I5553	
13.	1	NUT • OVAL EYE • 5/8"	I5568	
14.	1	INSL • SUSP • POLYMER • 15KV • 115000LB • CLEVIS EYE	I5757	
15.	1	GROUND • #2 CU WITH ROD		
16.	6	CLEVIS • SHACKLE • ANCHOR • 5/8"	I5429A	
17.	1	INSL • SUSP • POLYMER • 15KV • 15000LB • CLEVIS EYE	I5133	
	1	SWITCH • DISC • 15KV 900A • UNDERSLUNG WITH LB HOOKS	I5881	
18.	1	ARRESTER-DIST-10KV-4KSUL BASE BRKT-MET OXIDE-PLYMR (FOR N.C. POINT)	I5246	
	6	ARRESTER-DIST-10KV-4KSUL BASE BRKT-MET OXIDE-PLYMR (FOR N.O. POINT)		
19.	30	JUMPER • SAME SIZE AS CONDUCTOR	SPECIFY	
20.	2	LINK • EXTENSION • 12" FIBERGLASS • 15000 LBS	I5557	
20.	6	CLAMP • D.E. • ST. LINE • W/O SOCKET (TO SUIT)	SPECIFY	
21.	6	CONNECTOR • TERMINAL PAD • 2 HOLE PAD (TO SUIT)	SPECIFY	
22.	2	CLAMP • D.E. (TO SUIT)	SPECIFY	
23.	1	SIGN • FIBER OPTIC ID TAG ASSY • HOLDER W/PRINTED TAG	M0956	
24.	1	TIES • STRAP PLASTIC • BLACK • LENGTH=13.39"	I5321	

NO	DATE	BY	REVISION

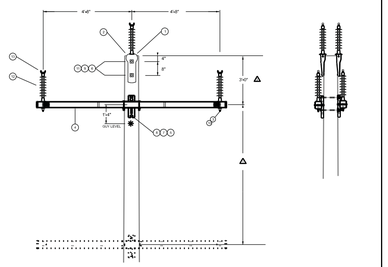
APPROVED:

T1 TRANSMISSION
FIBERGLASS 10' SINGLE ARM
0-2 DEG. ANGLE

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY

NO. T1FGA



GENERAL NOTES:

1. DISTANCE SHALL BE SPECIFIED BY ENGINEERING PER REQUIREMENT OF A-4079.
2. ANGLES IN EXCESS OF 7 DEGREES MUST MEET REQUIREMENTS OF A-4290 FOR CONDUCTOR SIZE REQUIRED.
3. WHERE 46/12KV, SPACING IS ADEQUATE AND EXTRA CLEARANCE IS NEEDED TO ROLL FROM FLAT-TO-VERTICAL FRAMING IN LONG SPANS (> 350') SPACING MAY BE INCREASED TO 6'-4".
4. MAXIMUM VERTICAL SPAN (V.S.) FOR THIS STRUCTURE IS:

CONDUCTOR SIZE	V.S. MIN ANGLE	V.S. MAX ANGLE
1033.5 AL	800	500
795 AL	700	600
565.5 AL	900	800

BILL OF MATERIAL

	QTY	DESCRIPTION	ITEM	CU
1.	2	BRACKET • POLE TOP • POST INSULATOR (TRANSM)	I5118	T2FPGA
2.	2	STUD • LINE POST • 3/4" X 1 3/4"	I6115	
3.	4	STUD • LINE POST • 3/4" X 1"	I5117	
4.	2	CROSSARM • FIBERGLASS • 10'-0" HEAVY DUTY WITH GAIN	I5808	
5.	2	BOLT • MACH • GALV • SHSN • 5/8" X 16"	I5640	
6.	1	BOLT • DOUBLE ARMING • 5/8" X 22"	I5697	
7.	14	WASHER • SQ FLAT • 4" SQ • 13/16" HOLE • GALV STEEL	I5337	
8.	-	NOT USED		
9.	4	WASHER • CURVED • 3" SQ • 13/16" HOLE • MALLEABLE IRON	I5336	
10.	12	NUT • LOCKNUT • 5/8"	I5397	
11.	2	NUT • LOCKNUT • 5/8"	I5392	
12.	1	NUT • OVAL EYE • 5/8"	I5366	
13.	5	NUT • OVAL EYE • 1/2"	I5368	
14.	1	GROUND • #2 CU WITH ROD		
15.	6	CLEVIS • SHACKLE • ANCHOR • 5/8"	I5429A	
16.	6	INSL • SUSP • POLYMER • 15KV • 15000LB • CLEVIS EYE	I5133	
17.	3	SWITCH • DISC • 15KV 900A • UNDERSLUNG WITH LB HOOKS	I5881	
18.	1	ARRESTER-DIST-10KV-4KSUL BASE BRKT-MET OXIDE-PLYMR (FOR N.C. POINT)	I5246	
	6	ARRESTER-DIST-10KV-4KSUL BASE BRKT-MET OXIDE-PLYMR (FOR N.O. POINT)		
19.	30	JUMPER • SAME SIZE AS CONDUCTOR	SPECIFY	
20.	2	LINK • EXTENSION • 12" FIBERGLASS • 15000 LBS	I5557	
20.	6	CLAMP • D.E. • ST. LINE • W/O SOCKET (TO SUIT)	SPECIFY	
21.	6	CONNECTOR • TERMINAL PAD • 2 HOLE PAD (TO SUIT)	SPECIFY	
22.	2	CLAMP • D.E. (TO SUIT)	SPECIFY	
23.	1	SIGN • FIBER OPTIC ID TAG ASSY • HOLDER W/PRINTED TAG	M0956	
24.	1	TIES • STRAP PLASTIC • BLACK • LENGTH=13.39"	I5321	

NO	DATE	BY	REVISION

APPROVED:

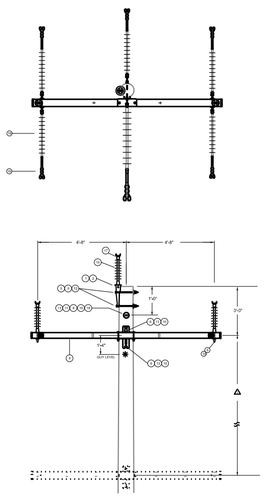
T2 TRANSMISSION
FIBERGLASS 10' DOUBLE ARM
2-7 DEG. ANGLE

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY

NO. T2FGA

FOR USE ON STEEL OR CONCRETE POLES ONLY



GENERAL NOTES:

1. DISTANCE SHALL BE SPECIFIED BY ENGINEERING PER REQUIREMENT OF A-4079.
2. ANGLE STRUCTURES MUST MEET REQUIREMENTS OF A-4290 (FIBERGLASS DEARM).
3. WHERE 46/12KV SPACING IS ADEQUATE AND EXTRA CLEARANCE IS NEEDED TO ROLL FROM FLAT TO VERTICAL FRAMING IN LNG SPANS (>350'), SPACING MAY BE INCREASED TO 6'-4".
4. AT PULL POINTS W/ FIBERGLASS ARM ASSEMBLY TEMPORARILY STRAINED IN ONE DIRECTION AR AT SINGLE DEADENDS, THE FIBERGLASS ARM SHOULD BE ON THE BACK SIDE OF THE POLE (OPPOSITE TO THE CONDUCTOR STRAIN).

BILL OF MATERIAL

	QTY	DESCRIPTION	ITEM	CU
1.	1	BRACKET • POLE TOP • POST INSULATOR (TRANSM)	I5118	I1CSPGA
2.	1	STUD • LINE POST • 3/4" X 1 3/4"	I6115	
3.	1	STUD • LINE POST • 3/4" X 1"	I5117	
4.	1	CROSSARM • FIBERGLASS • 10'-0" HEAVY DUTY WITH GAIN	I5808	
5.	1	BOLT • MACH • GALV • SHSN • 5/8" X 16"	I5640	
6.	2	BOLT • MACH • GALV • SHSN • 3/4" X 18"	I5645	
7.	3	NOT USED	-	-
8.	1	BOLT • EYE • SHOULDER 2" X 14"	I6420	
9.	3	NUT • LOCKNUT • 5/8"	I5392	
10.	2	NUT • LOCKNUT • 3/4"	I5393	
11.	1	NUT • OVAL EYE • 3/4"	I5395	
12.	1	BOLT • EYE • SHOULDER 2" X 11"	I5116	
13.	2	NUT • LOCKNUT • 3/4"	I5394	
14.	1	WASHER • SQ FLAT • 4" SQ • 13/16" HOLE • GALV STEEL	I5337	
15.	2	WASHER • CURVED • 3" SQ • 13/16" HOLE • MALLEABLE IRON	I5333	
16.	1	NOT USED	-	-
17.	1	WASHER • CURVED • 2" SQ • 13/16" HOLE • MALLEABLE IRON	I5336	
18.	1	WASHER • SQ FLAT • 4" SQ • 13/16" HOLE • GALV STEEL	I5337	
19.	1	INSL • SUSP • POLYMER • 15KV • 115000 LB • CLEVIS EYE	I5757	
20.	1	CLAMP • LINE POST (TO SUIT)	SPECIFY	
21.	1	CLAMP • D.E. • ST. LINE • W/O SOCKET (TO SUIT)	SPECIFY	

NO	DATE	BY	REVISION

APPROVED:

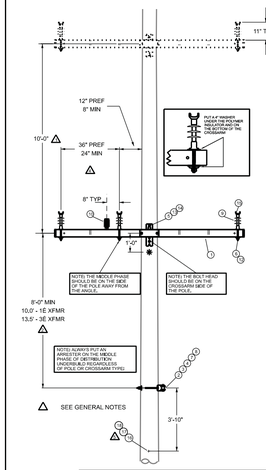
T8 TRANSMISSION
HORIZONTAL DOUBLE DEADEND
WITH FIBERGLASS CROSSARM

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY

NO. T8FGA

FOR USE ON STEEL OR CONCRETE POLES ONLY



SEE GENERAL NOTES

GENERAL NOTES:

1. 10' PREFERRED MINIMUM, ENGINEERING TO SPECIFY SEPARATION FOR LONG SPANS (> 300') PER REQUIREMENTS OF A-4079.
2. 8' PREFERRED MINIMUM, SEE A-4385 TO DECREASE 9FOR SHORT SPANS) OR INCREASE (FOR LONG SPANS: > 300'), ALLOW 10' FOR A SINGLE PHASE TRANSFORMER AND 13.5' FOR A THREE PHASE TRANSFORMER BANK.
3. UNDERBUILD CROSSARM ASSEMBLY VERTICAL SPAN (V.S.) LIMITS:

CONDUCTOR SIZE	V.S. MIN ANGLE	V.S. MAX ANGLE
336 AL	575	525
556 AL	400	360
795 AL	300	275
1033 AL	250	225
MAX ANGLE *	2 DEG.	

* REFER TO A-4290 FOR MAXIMUM LINE ANGLES TO TURN ON INSULATORS.

4. MAXIMUM SPAN LENGTH:

HORIZONTAL SEPARATION (IN)	MAX SPAN (FT) (ON ANGLES UP TO 45 DEG)
36	450
30**	350
24	200

** OUTSIDE PHASE MAY BE MOVED 6" TOWARD MIDDLE PHASE (TO GET CLEARANCE TO FIGERGLASS GUY STRAIN INSULATORS.)

5. INSTALL EYE BOLT AND FIBER TAG TO RESERVE LOCATION FOR FUTURE FIBER OPTIC CABLE.

BILL OF MATERIAL

	QTY	DESCRIPTION	ITEM	CU
1.	1	CROSSARM • FIBERGLASS • 10'-0" HEAVY DUTY W/ GAIN	I5808	I3CSPGA
2.	1	BOLT • MACH • GALV • SHSN • 5/8" X 12"	I5588	
3.	1	WASHER • CURVED • 3" SQ • 13/16" HOLE • MALLEABLE IRON	I5336	
4.	1	NUT • LOCKNUT • 5/8"	I5392	
5.	2	BOLT • MACH • GALV • SHSN • 5/8" X 16"	I5595	
6.	3	STUD • LINE POST • 3/4" X 7"	I5017	
7.	3	CLEVIS • SECONDARY (NO INS)	I5425	
8.	1	INSL • SPOOL • SECONDARY • PORC • GRAY	I5144	
9.	3	INSL • POST TYPE • 15KV VERT • POLYMER • CITOP	I5180	
10.	1	ARRESTER • DIST • 10KV • INSUL BASE BRKT • METAL OXIDE • POV	I5245	GAL10MOV
11.	1	STUD • LINE POST • 3/4" X 15"	I5116	
12.	6	WASHER • SQ FLAT • 4" SQ • 13/16" HOLE • GALV STEEL	I5337	
13.	2	WASHER • CURVED • 4" SQ • 13/16" HOLE • MALLEABLE IRON	I5333	
14.	2	NUT • LOCKNUT • 3/4"	I5391	
15.	3	CLAMP • LINE POST (TO SUIT)	SPECIFY	
16.	1	BOLT • EYE • OVAL • 5/8" X 14"	I5693	
17.	1	SIGN • FIBER OPTIC ID TAG ASSY • HOLDER W/PRINTED TAG	M0956	
18.	1	TIES • STRAP PLASTIC • BLACK • LENGTH=13.39"	I5321	

NO	DATE	BY	REVISION

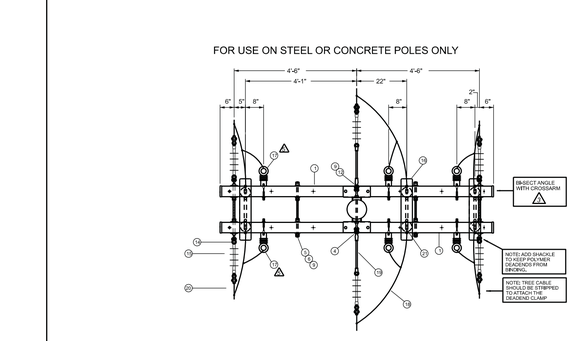
APPROVED:

UC1-FG DISTRIBUTION UNDERBUILD
ON 46KV STEEL OR CONCRETE POLE
SINGLE 10' FIBERGLASS ARM
ALL CONDUCTOR SIZES

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY

NO. A-5912 UC1FGA



GENERAL NOTES

1. THIS DISTANCE IS VALID FOR THE HORIZONAL SPANS (H.S.) (& THE ASSOCIATED RUILING SPANS) LISTED BELOW;

MAX H.S.	RUILING SPAN
300	n = 200
450	201 - 325
900	>325'

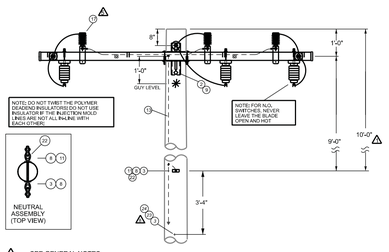
MINIMUM DISTANCE ALLOWED: 7'-6"
USE THE FOLLOWING RULE FOR INCREASING/DECREASING SEPARATION DISTANCE:
1' PER 50' OF (INCREASING/DECREASING) SPAN LENGTH.

FOR CASES WHERE THE MINIMUM DISTANCE CANNOT BE OBTAINED SEE A-4385.

2. MAXIMUM CONDUCTOR SIZE FOR THIS STRUCTURE IS 1033.5 AL.
3. FOR MAXIMUM ANGLE THAT CAN BE TURNED ON DOUBLE DEADENDS SEE A-4290. BI-SECT THE ANGLE WITH THE ARM OR USE ONLY ½ OF THE ALLOWABLE ANGLE SHOWN IN A-4290, (i.e. THE ARM MAY BE BACKING UP A STRAIGHT SECTION OF LARGE CONDUCTOR AND A SMALLER CONDUCTOR PULLS OF THE BACK SIDE AT AN ANGLE.) MAX BI ½ THE ALLOWABLE ANGLE PER SIDE.
4. CROSSARM ASSEMBLY LIMITS: MAX. VERTICAL SPAN (V.S.) (TOTAL-BOTH SIDES).

CONDUCTOR SIZE	1033 AL	795 AL	556 AL	336 AL
MAX. ANGLE (DEG)	450	600	900	1500

5. INSTALL (3) ARRESTERS ON THE SOURCE SIDE FOR NORMALLY CLOSED SWITHCES. INSTALL (6) ARRESTERS FOR NORMALLY OPEN SWITHCES. (CU = DAL10MOV)
6. MAXIMUM RUILING SPAN = 500' FOR 556.5 AL AND 300' FOR 1033.5 AL. FOR 1033.5 AL RUILING SPANS 350' AND ABOVE, SUBSTITUTE THE DOUBLE 10' HEAVY DUTY ARMS WITH DOUBLE HEAVY DUTY DEAD END ARMS, CALL FOR DC10DFGDE.
7. INSTALL EYE BOLT AND FIBER TAG TO RESERVE LOCATION FOR FUTURE FIBER OPTIC CABLE.



SEE GENERAL NOTES

BILL OF MATERIAL

	QTY	DESCRIPTION	ITEM	CU
1.	2	CROSSARM • FIBERGLASS• 10'-0" HEAVY DUTY WITH GAIN	I5808	
2.	1	BOLT• MACH • GALV • SHSN • ½" X 16"	I5648	
3.	2	BOLT • OVAL EYE• ½" X 12"	I5602	
4.	1	BOLT • OVAL EYE • ½" X 16"	I5554	
5.	4	BOLT • DOUBLE ARMING • ½" X 22"	I5697	
6.	14	WASHER • SQ FLAT • 4" SQ • 13/16" HOLE • GALV STEEL	I5337	
7.	-	NOT USED		
8.	4	WASHER • CURVED • 3" SQ • 13/16" HOLE • MALLEABLE IRON	I5336	
9.	12	NUT • LOCKNUT • ½"	I5397	
10.	2	NUT • LOCKNUT • ½"	I5392	
11.	1	NUT • OVAL EYE • ½"	I5366	
12.	5	NUT • OVAL EYE • ½"	I5368	
13.	1	GROUND • #2 CU WITH ROD		
14.	6	CLEVIS • SHACKLE • ANCHOR • ½"	I5429A	
15.	6	INSL • SUSP • POLYMER • 15KV • 15000LB • CLEVIS EYE	I5133	
16.	3	SWITCH • DISC • 15KV 900A • UNDERSLUNG WITH LB HOOKS	I5881	
17.	1	ARRESTER-DIST-10KV-4KSUL BASE BRKT-MET OXIDE-PLYMR (FOR N.C. POINT)	I5246	
	6	ARRESTER-DIST-10KV-4KSUL BASE BRKT-MET OXIDE-PLYMR (FOR N.O. POINT)		
18.	30	JUMPER • SAME SIZE AS CONDUCTOR	SPECIFY	
19.	2	LINK • EXTENSION • 12" FIBERGLASS • 15000 LBS	I5557	
20.	6	CLAMP • D.E. • ST. LINE • W/O SOCKET (TO SUIT)	SPECIFY	
21.	6	CONNECTOR • TERMINAL PAD • 2 HOLE PAD (TO SUIT)	SPECIFY	
22.	2	CLAMP • D.E. (TO SUIT)	SPECIFY	
23.	1	SIGN • FIBER OPTIC ID TAG ASSY • HOLDER W/PRINTED TAG	M0956	
24.	1	TIES • STRAP PLASTIC • BLACK • LENGTH=13.39"	I5321	

NO	DATE	BY	REVISION

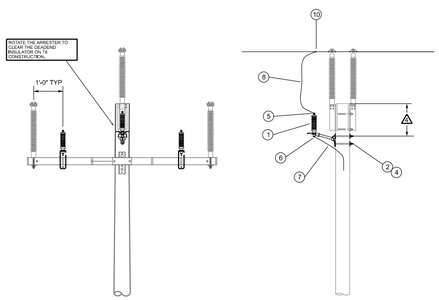
APPROVED:

C8 FRAMING WITH 10' FIBERGLASS CROSSARMS
AND (3) 900 AMP USD

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY

NO. A-6027 900A-USD



GENERAL NOTES:

1. USE #2 SD CU EXTERNAL GROUND OR USE INTERNAL GROUND PROVIDED ON CONCRETE POLES. (STEEL POLE HAVE GROUND LUGS AT SEVERAL DIFFERENT LEVELS (2', 6', 10', 14', 18' FROM THE TOP) FOR GROUND LEAD ATTACHMENTS)
2. ARRESTER MIDDLE PHASE ON CROSSARM UNDERBUILD, ARRESTER ALL PHASES ON VERTICAL UNDERBUILD, ARRESTER ALL PHASES ON BUCKARM UNDERBUILD WHERE 2 DIFFERENT PHASES ARE IN THE MIDDLE (POLE)POSITION
3. FOR 46KV ARRESTERS USE THE FOLLOWING CENTERBOLT CONNECTORS;

CONDUCTOR SIZE	ARRESTER LEAD	BIN #	CU
1/0 AL/CU - 4/0AL/CU	1/0 AL	A0114	TCPG1B24
1/0 AL - 4/0AL	1/0 AL	A0203	TCPG1B08
336 - 1033AL	1/0 AL	A0111	TCPG1B13

4. TYPICAL LOCATION OF ARRESTER, PREDRILLED HOLES ARE PROVIDED ON CONCRETE POLES AT 20' & 28' FROM THE POLE TOP, (10' AND 24' FROM THE TOP ON STEEL POLES,
5. FOR 4KV AND 12KV ARRESTERS USE THE FOLLOWING CENTERBOLT CONNECTORS:

CONDUCTOR SIZE	ARRESTER LEAD	BIN #	CU
1/0 AL/CU - 4/0AL/CU	#6 WPCU	A0114	DCPG1B24
336 - 1033AL	#6 WPCU	A0114	DCPG1B13

BILL OF MATERIAL

	QTY	DESCRIPTION	ITEM	CU
1.	3	ARRESTER • DIST • 36KV • INSUL BASE BRKT • METAL OXIDE • POV	H1368	
2.	2	BOLT • MACH • GALV• SHSN• ½" X 12"	I0588	
3.	1	BRACKET • CO & ARR 24" FIBERGLASS • SINGLE PHASE	I0476	
4.	2	WASHER • CURVED • 3" SQ • 11/16"IF HOLE • MALLEABLE IRON	I0336	
5.	3	TERMINAL • END • HYLUG • #1/0 CU • 1PH PAD (3/8" STUD)	M0052	
6.	3	TERMINAL • END • HYLUG • #2 CU • 1PH PAD (5/16" STUD)	M0046	
7.	9	WIRE • CU SDB • #2 (7)STRAND	J0380	
8.	9	COND • BARE • OVERHEAD • AL • #1/0 AWG • 7 STRAND	J0104	
9.	1	GROUND • #2 CU • W/ROD	-	TCGWR
10.	3	CONN TO SUIT	-	- /1

*ALL ARE GRND

NO	DATE	BY	REVISION

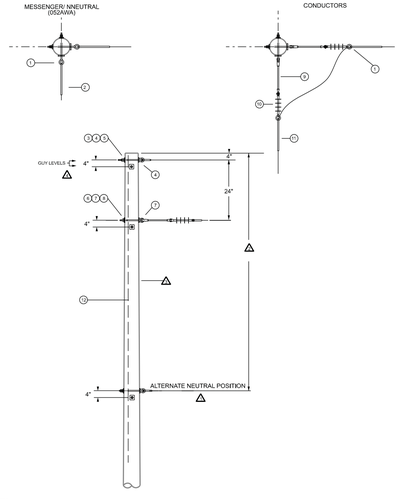
APPROVED:

46KV LIGHTNING ARRESTERS

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY

NO. A- 46KV-LA



GENERAL NOTES:

1. ALTERNATE LOCATION FOR NEUTRAL IF NEUTRAL IN NOT TO BE INSTALLED IN MESSENGER POSITION, SPECIFY DM1/4P (QTY); 2) FOR THIS 1 UNIT 4" SUSP INSULATOR W/ EYE BOLT ASSEMBLY.
2. 10' FOR 45' POLE; IF FOR 40' POLE WHEN NEUTRAL IS FRAMED IN ALTERNATE POSITION.
3. USE CLASS 2 POLE MINIMUM FOR ANY DEADEND POLE FRAMED FOR AERIAL CABLE.
4. GUYING FOR GSAWA MESSENGER GUY FOR 10,000 LBS (6000 X 1.65). ALL GUY ATTACHMENTS ARE TO BE LOCATED AT OR NEAR THE MESSENGER ATTACHMENTS, FOR DEADENDS THIS WILL REQUIRE (2) 12M GUYS AND (1) 24M ANCHOR FOR NORMAL LEAD-TO-HEIGHT RATIOS, IN AREAS SUCH AS THE MOUNTAINS WHERE ANCHORS ARE SET SHALLOW DUE TO UNDERLYING ROCK OR WHERE ROCK ANCHORS ARE USED, DESIGN FOR 1 GUY PER 24M ANCHOR WITH A MINIMUM ANCHOR SPACING OF APPROX. 3 FT.

BILL OF MATERIAL

	QTY	DESCRIPTION	ITEM	CU
1.	4	CLEVIS • THIMBLE • LARGE • FOR PREFORMED DEADENDS	I6348	CNCWP
2.	2	HDWG CABLE - DEADEND - PREFORMED - FOR GSAWA MESSENGER	I3445	
3.	2	BOLT • EYE • OVAL • 5/8" X 12"	I3546	
4.	4	WASHER • CURVED • 4" SQ • 13/16" HOLE • GALV STEEL	I3333	
5.	2	NUT • LOCKNUT • 5/8"	I6391	
6.	2	BOLT • EYE • OVAL • 5/8" X 12"	I3602	
7.	4	WASHER • CURVED • 3" SQ • 13/16" HOLE • MALLEABLE IRON	I5336	
8.	2	NUT • LOCKNUT • 5/8"	I6392	
9.	2	LINK • EXTENSION • 12" FIBERGLASS • 15000 LBS	I5557	
10.	2	INSL • SUSP • POLYMER • 15KV • 115000 LB • CLEVIS EYE	I5133	
11.	2	HDWG CABLE - DEADEND - PREFORMED (TO SUIT CONDUCTOR)	SPECIFY	
12.	1	GROUND 'S' COMPLETE	SPECIFY	

NO	DATE	BY	REVISION

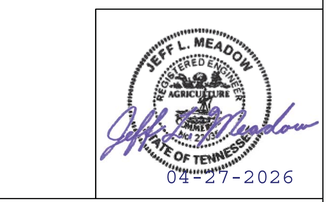
APPROVED:

ACA4F DISTRIBUTION
SINGLE PHASE AERIAL CABLE
DOUBLE DEADEND

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY

NO. ACA4F

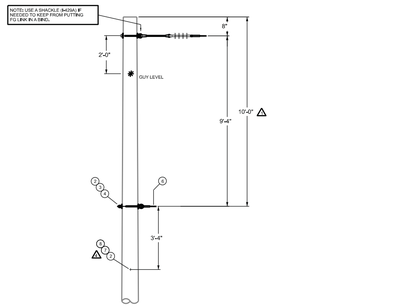


ELECTRIC POWER BOARD
OF CHATTANOOGA

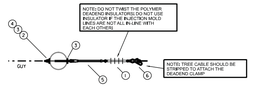
JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM
SCALE	NONE
DATE	04.27.2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
CONSTRUCTION DETAILS



△ SEE GENERAL NOTES



△ GENERAL NOTES:

1. THIS DISTANCE IS BASED ON A 45' JOINT USE POLE AND IS VALID FOR SPANS UP TO 450'.
(MIN. DISTANCE ALLOWED: 7'-6" AT A MAX. HORIZONTAL SPAN OF 300')
USE THE FOLLOWING RULE FOR INCREASING/DECREASING SEPARATION DISTANCE:
1' PER 50' OF (INCREASING/DECREASING) SPAN LENGTH.

   FOR CASES WHERE THE MINIMUM DISTANCE CANNOT BE OBTAINED SEE A-4384.

2. MAXIMUM CONDUCTOR SIZE FOR THIS STRUCTURE IS 4/0AL/ACSR.

3. INSTALL ARRESTER IF NO ARRESTERED DEVICES SUCH AS A TRANSFORMER ARE AT THE STRUCTURE.

4. INSTALL EYE BOLT AND FIBER TAG TO RESERVE LOCATION FOR FUTURE FIBER OPTIC CABLE.

BILL OF MATERIAL

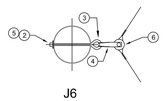
	QTY	DESCRIPTION	ITEM	CU
1.	1	INSL - SUSP - POLYMER - 15KV - 15000 LB - CLEVIS EYE	I0133	DA5
2.	4	BOLT - EYE - OVAL - ¾" x 12"	I0692	
3.	4	WASHER - CURVED - 2" SQ - 13/16" HOLE - MALLEABLE IRON	I0339	
4.	2	NUT - LOCKNUT - ¾"	I0392	
5.	1	LINK - EXTENSION - 12" FIBERGLASS - 15000 LBS	I0857	
6.	2	CLAMP - DJE, ST. LINE - W/O SOCKET (TO SUIT)	SPECIFY	
7.	1	SIGN - FIBER OPTIC ID TAG ASSY - HOLDER W/PRINTED TAG	M0056	
8.	1	TIES - STRAP PLASTIC - BLACK - LENGTH=13.38"	I0321	

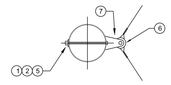
NO	DATE	BY	REVISION	APPROVED:

A5 DISTRIBUTION SINGLE PHASE SMALL CONDUCTOR DEADEND

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY	NO. A-4547	A5





NOTE:
FOR SIDED STEEL POLES USE FLAT WASHERS.

BILL OF MATERIAL

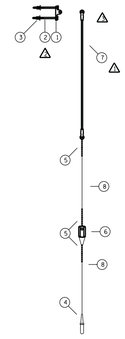
	DESCRIPTION	J6	J10
1.	BOLT - MACHINE - ½" X REQUIRED LENGTH		1
2.	WASHER - SQ FLAT - 3" SQ - 13/16" HOLE - GALV STEEL		
3.	BOLT - EYE - OVAL - ¾" X REQUIRED LENGTH	1	
4.	CLEVIS - SECONDARY SWINGING (NO INS)	1	
5.	LOCKNUT- ¾"	1	1
6.	INSL - SPOOL - SECONDARY	1	1
7.	BRACKET - CLEVIS		1
8.	WASHER - CURVED - 3" SQ - 13/16" HOLE - MALLEABLE IRON	1	1

NO	DATE	BY	REVISION	APPROVED:

NEUTRAL AND SECONDARY ASSEMBLIES

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY	NO. A-	J6, J10



△ SEE GENERAL NOTES

GENERAL NOTES
1. TO SPECIFY ADDITIONAL LINKS USE:
   DIG54WF8, TIG54WF8 FOR 54" FG LINKS.
   DIG144WF8,TIG144WF8 FOR 144" LINKS.

   THESE ASSEMBLIES FOR ADDITIONAL LINKS INCLUDE THE FIGURE 8 STEEL LINKS (ITEM I0370) USED TO CONNECT FG LINKS TOGETHER.

   FOR GUIDELINES IN SPECIFYING OR INSTALLING GUY INSULATORS SEE DWGS A-4538 AND A-4539.

   FOR FIGURE 2 ASSEMBLY WITH 144" LINK (INSTEAD OF 54") SPECIFY: DGD12PFL -OR- TGD12PFL.

2. USE 3/4" BOLTS WHEN ATTACHING ANY GUY HOOK OR POLE EYE PLATE TO POLE.

3. DO NOT PLACE ANY FG LINKS IN A BIND, USE EITHER A SHACKLE CLEVIS (ITEM I0429A) OR A DOUBLE 90° CLEVIS (ITEM I0345) TO CONNECT FG LINK TO POLE EYE PLATE (ITEM I0424), AS NEEDED.

BILL OF MATERIAL

#	QTY	DESCRIPTION	ITEM	CU
1	1	ATTACHMENTS-GUY-POLE EYE PLATE	I0424	DGD12PF
2	2	BOLT-MACH-GALV-SHSN-3/4"X14"	I0641	-OR-
3	2	WASHER-CURVED-4"SQ-13/16" HOLE-MALLEABLE IRON	I0333	TGD12PF
4	1	DEADEND-AUTOMATIC-BAIL RIGID-3/8" STEEL STRAND	I0405	
5	3	DEADEND-PREFORMED-GUY,STEEL STRAND 3/8"	I0454	
6	1	INSL-GUY STRAIN-12000 LBS- 4" PORC-BROWN OR GRAY	I0142	
7	1	INSL-GUY STRAIN-21000 LBS- 54" FIBERGLASS	I0860	
8	35'	WIRE-GUY-GALV,STEEL-3/8" (7) STRAND (12M)	I0822	

(55' OF GUY WIRE IN TGD12PF)

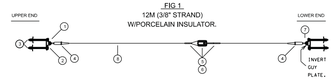
NO	DATE	BY	REVISION	APPROVED:

STANDARD GUY ASSEMBLY 12M (3/8") GALV. DOWN GUY

DISTRIBUTION STANDARDS & DESIGN

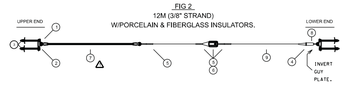
DATE	DRAWN BY	CHECKED BY	NO. A-3090	12M

FIG 1.
12M (3/8" STRAND)
W/PORCELAIN INSULATOR.



#	QTY	DESCRIPTION	ITEM	CU
1	2	ATTACHMENTS-GUY-POLE EYE PLATE	I0424	DGS12P
2	4	BOLT-MACH-GALV-SHSN-3/4"X14"	I0641	-OR-
3	4	WASHER-CURVED-4"SQ-13/16" HOLE-MALLEABLE IRON	I0333	TGS12P
4	2	DEADEND-AUTOMATIC-BAIL RIGID-3/8" STEEL STRAND	I0405	
5	2	DEADEND-PREFORMED-GUY,STEEL STRAND 3/8"	I0454	
6	1	INSL-GUY STRAIN-12000 LBS- 4" PORC-BROWN OR GRAY	I0142	
7	2	CLEVIS-SHACKLE-ANCHOR 1/2"	I0429A	
8	△	WIRE-GUY-GALV,STEEL-3/8" (7) STRAND (12M)	I0822	

FIG 2
12M (3/8" STRAND)
W/PORCELAIN & FIBERGLASS INSULATORS.



#	QTY	DESCRIPTION	ITEM	CU
1	2	ATTACHMENTS-GUY-POLE EYE PLATE	I0424	DGS12P
2	4	BOLT-MACH-GALV-SHSN-3/4"X14"	I0641	-OR-
3	4	WASHER-CURVED-4"SQ-13/16" HOLE-MALLEABLE IRON	I0333	TGS12P
4	1	DEADEND-AUTOMATIC-BAIL RIGID-3/8" STEEL STRAND	I0405	
5	3	DEADEND-PREFORMED-GUY, STEEL STRAND 3/8"	I0454	
6	1	INSL-GUY STRAIN-12000 LBS- 4" PORC-BROWN OR GRAY	I0142	
7	1	INSL-GUY STRAIN-21000 LBS- 54" FIBERGLASS	I0860	
8	1	CLEVIS-SHACKLE-ANCHOR 1/2"	I0429A	
9	△	WIRE-GUY-GALV.STEEL-3/8" (7) STRAND (12M)	I0822	

△ GENERAL NOTES
1. TO SPECIFY ADDITIONAL LINKS USE:
   DIG54WF8, TIG54WF8 FOR 54" FG LINKS.
   DIG144WF8,TIG144WF8 FOR 144" LINKS.

   THESE ASSEMBLES FOR ADDITIONAL LINKS INCLUDE THE FIGURE 8 STEEL LINK (ITEM I0370) USED TO CONNECT FG LINKS TOGETHER.

   FOR GUIDELINES IN SPECIFYING OR INSTALLING GUY INSULATORS SEE DWGS A-4538 AND A-4539.

   FOR FIGURE 2 ASSEMBLY WITH 144" LINK (INSTEAD OF 54") SPECIFY: DGD12PFL -OR- DGS12PFL.

2. USE 3/4" BOLTS WHEN ATTACHING ANY GUY HOOK OR POLE EYE PLATE TO POLE.

3. DO NOT PLACE ANY FG LINKS IN A BIND, USE EITHER A SHACKLE CLEVIS (ITEM I0429A) OR A DOUBLE 90° CLEVIS (ITEM I0345) TO CONNECT FG LINK TO POLE EYE PLATE (ITEM I0424), AS NEEDED.

4. SPECIFY THE LENGTH OF THE SPAN GUY WHEN USING THIS ASSEMBLY.

NO	DATE	BY	REVISION	APPROVED:

STANDARD GUY ASSEMBLY 12M (3/8") GALV. SPAN GUY

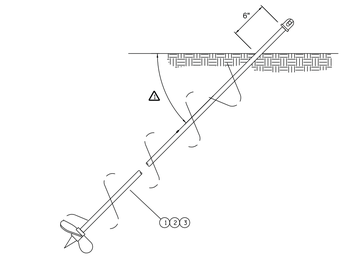
DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY	NO. A-3093	12M-SG

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-20

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



GENERAL NOTES:

△ 1. THIS ANGLE DETERMINED BY ATTACHMENT POINT OF GUY ON POLE, ANCHOR ROD SHOULD BE INLINE WITH GUY WIRE.

BILL OF MATERIAL

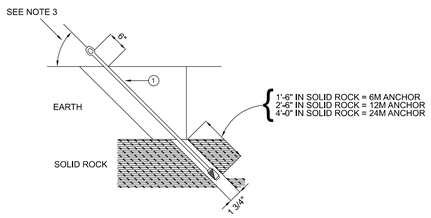
	SIZE 12M	24M	36M	DESCRIPTION	ITEM
1	1			ANCHOR - SCREW TYPE - 8" DIA. WITH 1" X 7'-0" TWINEYE ROD	I0833A
	-			12MUB, 12,000# RATING IN CLASS 5 SOIL	
2	-	1		ANCHOR - SCREW TYPE - 14" DIA. WITH 1" X 7'-0" TRIPLEYE ROD	I0890
		-		24MUB, 24,000LB RATING IN CLASS 5 SOIL	
3	-	-	1	ANCHOR - SCREW TYPE - 10" & 12" DOUBLE WITH TRIPLEYE ADAPTER	I0891
			-	36MUB, 36,000LB RATING IN CLASS 5 SOIL	

NO	DATE	BY	REVISION	APPROVED:

ANCHOR ASSEMBLIES 12M, 24M, 36M ANCHORS

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY	NO. A-3090	12M,24M,36M



GENERAL NOTES
1. DO NOT ANCHOR TO ANY BOULDER MEASURING LESS THAN 5 FT IN TWO DIRECTIONS AT RIGHT ANGLES TO EACH OTHER.

2. IN CRUMBLY ROCK USE CONCRETE TO GROUT ANCHOR.

3. THIS ANGLE DETERMINED BY ATTACHMENT POINT OF GUY ON POLE. ANCHOR ROD SHOULD BE IN LINE WITH GUY WIRE.

BILL OF MATERIAL

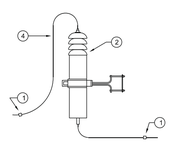
#	QTY	DESCRIPTION	B/N
1	1	ANCHOR , ROCK 1 3/4" WITH ⅞ X 30" TRIPLEYE ROD	I834
	1	ANCHOR , ROCK 1 3/4" WITH ⅞ X 53" TRIPLEYE ROD	I838
	1	ANCHOR , ROCK 1 3/4" WITH ⅞ X 72" TRIPLEYE ROD	I839
	1	ANCHOR , ROCK 1 3/4" WITH ⅞ X 96" TRIPLEYE ROD	I837

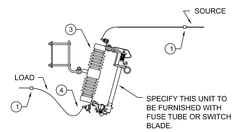
NO	DATE	BY	REVISION	APPROVED:

ANCHOR ASSEMBLIES ROCK ANCHOR

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY	NO. A-3090	24M-R





BILL OF MATERIAL

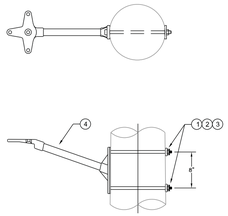
	DESCRIPTION	M5-6	M5-9
1.	CLAMP - HOT LINE	2	2
2.	ARRESTOR - 10KV - 8.4KV MCOV	1	
3.	CUTOUT - SINGLE PHASE - 15KV		1
4.	WIRE - #6 S.D.CU	6	10

NO	DATE	BY	REVISION	APPROVED:

MISCELLANEOUS PRIMARY ASSEMBLIES

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY	NO. A-	M5-6, M5-9



BILL OF MATERIAL

	QTY	DESCRIPTION	ITEM	CU
1.	2	BOLT, MACHINE, 5/8" X REQUIRED LENGTH		
2.	2	WASHER, CURVED, 3" X 3" X 1/4", 13/16" HOLE		
3.	2	LOCKNUT, 5/8"		
4.	1	SINGLE PHASE MOUNTING BRACKET, FIBERGLASS		

NO	DATE	BY	REVISION	APPROVED:

SINGLE PHASE STANDOFF BRACKET

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY	NO. A-	M5-22

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
04-27-2026

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

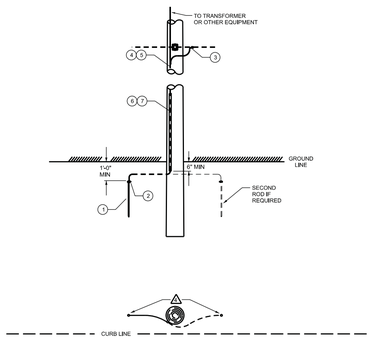
SCALE	DATE
NONE	04.27.2026

ELECTRIC UTILITY RELOCATION
CONSTRUCTION DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U5-21

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



GENERAL NOTES:

1. A STATIC WIRE OR AERIAL CABLE MESSENGER (IF PRESENT) SHOULD BE BONDED TO THE POLE GROUND.
2. GROUND WIRE TO BE INSTALLED ON ROAD SIDE OF POLE AWAY FROM ON COMING TRAFFIC AND SHOULD CLEAR ALL HARDWARE BY 2" MIN. AND SHALL BE STAPLED TO MAINTAIN POSITION.
3. STAPLES ON GROUND WIRE SHALL BE 2'-0" APART, EXCEPT FOR A DISTANCE OF 8'-0" FROM TOP OF POLE WHERE THEY SHALL BE 6" APART. THE ½" CONDUIT WILL BE SECURED WITH THE LARGE STAPLES (#7) ABOUT EVERYY 2'-0" ALSO.
4. RODS SHALL BE DRIVEN IN FIRM EARTH OUTSIDE OF THE POLE EXCAVATION.

BILL OF MATERIAL

	QTY	DESCRIPTION	ITEM	CU
1.	1	ROD - GROUND - COPPERWELD - ⅝"X 8 FT	I0526	DGB
2.	1	CONN - GR CLAMP - ROD - ⅝" CW ROD TO 2STR-8SOL CU	I0389	
3.	1	CONN - PG CLAMP - 1 BOLT - 336-1/0 ALIACSR -1/0-8 ALCU	A0117	
4.	½ #	STAPLE - GR. WIRE 1½"X ½"X ½" GALV.	I0380	
5.	8#	WIRE - #6 SOL DEAD - SOFT BARE CU	J0017	
6.	10'	CONDUIT - PVC TYPE 40 - 10' LENGTH - ½"	M0539	
7.	5	STAPLE - GR. MOULD (WOOD) 3"X 1⅛"X⅜" GALV	I0379	

NO	DATE	BY	REVISION

GROUND ASSEMBLY
TYPE "B"

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY	NO. A-2994	M2-11

APPROVED:

JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
04-27-2026

ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JLM
SCALE	DATE
NONE	04.27.2026

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
CONSTRUCTION DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-01

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00

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U5-02	VICINITY MAP AND LEGEND
U5-03	GENERAL NOTES
U5-04	ELECTRIC UTILITY RELOCATION BEGIN PROJ. TO STA. 747+50
U5-05	ELECTRIC UTILITY RELOCATION STA. 747+50 TO STA. 760+50
U5-06	ELECTRIC UTILITY RELOCATION STA. 760+50 TO STA. 773+50
U5-07	ELECTRIC UTILITY RELOCATION STA. 773+50 TO STA. 786+50
U5-08	ELECTRIC UTILITY RELOCATION STA. 786+50 TO STA. 799+50
U5-09	ELECTRIC UTILITY RELOCATION STA. 799+50 TO STA. 812+50
U5-10	ELECTRIC UTILITY RELOCATION STA. 812+50 TO STA. 825+50
U5-11	ELECTRIC UTILITY RELOCATION STA. 825+50 TO STA. 838+50
U5-12	ELECTRIC UTILITY RELOCATION STA. 838+50 TO STA. 851+50
U5-13	ELECTRIC UTILITY RELOCATION STA. 851+50 TO STA. 864+50
U5-14	ELECTRIC UTILITY RELOCATION STA. 864+50 TO STA. 877+50
U5-15	ELECTRIC UTILITY RELOCATION STA. 877+50 TO STA. 890+50
U5-16	ELECTRIC UTILITY RELOCATION STA. 890+50 TO STA. 898+23.78
U5-17	ELECTRIC UTILITY RELOCATION PALISADES ROAD
U5-18	POLE LOCATIONS AND CONDUCTOR INSTALLATION
U5-19	CONSTRUCTION DETAILS
U5-20	CONSTRUCTION DETAILS
U5-21	CONSTRUCTION DETAILS

ESTIMATED QUANTITIES

	ITEM NO.	TDOT DESCRIPTION	UTILITY UNIT DESCRIPTION	UNIT	QUANTITY	PERCENT UTILITY	PERCENT PROJECT
(1)	790-01.01	POLE 30FT CLASS 2 WOOD	30-2 WP	EACH	2	0%	100%
	790-01.03	POLE 30FT CLASS 4 WOOD	30-4 WP	EACH	1	0%	100%
	790-04.09	POLE 45FT CLASS H2 METAL	45-H2 SP	EACH	1	0%	100%
	790-06.08	POLE 55FT CLASS H2 METAL	55-H2 SP	EACH	1	0%	100%
	790-07.08	POLE 60FT CLASS H2 METAL	60-H2 SP	EACH	2	0%	100%
	790-08.06	POLE 65FT CLASS H4 METAL	65-H4 SP	EACH	1	0%	100%
(2)	790-21.07	1Ø PRIMARY LG ANGLE 15KV	ACA4F	EACH	1	0%	100%
	790-21.08	1Ø DEADEND 15KV	A5	EACH	1	0%	100%
	790-25.01	3Ø CROSSARM SGL 15KV	UC1FGA	EACH	2	0%	100%
	790-30.03	SECONDARY ASSEMBLIES DEADEND	J6	EACH	2	0%	100%
	790-30.04	SECONDARY ASSEMBLIES MISC	J10	EACH	2	0%	100%
	790-31.11	SERVICE CONDUCTOR 2 AL TRIPLEX	#2 TRIPLEX	LF	110	0%	100%
	790-32.29	DN GUY HVY CONST - PREFORM	12M	EACH	10	0%	100%
	790-32.30	OH GUY HVY CONST - PREFORM	12M-SG	EACH	6	0%	100%
	790-33.16	ROCK ANCHOR TRIPLE EYE	24M-R	EACH	4	0%	100%
	790-33.26	SCREW TYPE ANCHOR 28,000LB	24M	EACH	4	0%	100%
	790-36.01	SWITCH-900A-UNDERSLUNG	900A-USD	EACH	1	0%	100%
	790-36.05	TRANSFER SECONDARY		EACH	2	0%	100%
	790-36.06	TRANSFER LIGHT		EACH	2	0%	100%
	790-36.14	TRANSFER CONDUCTOR		EACH	28	0%	100%
	790-60.01	1Ø FUSE CUTOUT XARM MOUNT 15KV	M5-9	EACH	2	0%	100%
	790-65.04	LIGHTNING ARRESTER POLE MTD 9 KV	M5-6	EACH	1	0%	100%
	790-65.20	LIGHTNING ARRESTER 3PH 46 KV	46KV-LA	EACH	2	0%	100%
	790-68.01	POLE GROUND ROD TYPE	M2-11	EACH	7	0%	100%
	790-68.13	SGL PHASE MOUNTING BRACKET - FIBERGLASS	M5-22	EACH	2	0%	100%
	790-71.03	SGL ARM LINE POST INS NO OHGW 46KV MAX	T8FGA	EACH	1	0%	100%
			T1FGA	EACH	2	0%	100%
	790-71.04	DBL ARM LINE POST INS NO OHGW 46KV MAX	T2FGA	EACH	1	0%	100%
(3)	790-98.01	REMOVE WIRE		LF	115	0%	100%
(4)	790-98.02	REMOVE POLES		EACH	7	0%	100%
(5)	790-98.03	REMOVE FRAMING / ASSOCIATED APPARATUS		EACH	51	0%	100%
	790-98.20	TREE AND BRUSH REMOVAL OFF ROW		LS	1	0%	100%

FOOTNOTES:

1. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION INCLUDING BUT NOT LIMITED TO SETUP, TRAFFIC CONTROL, DIGGING HOLE, FILLING HOLE, BLASTING, BUTT WRAP OR SINGLE GROUND ROD, MGNV, NUMBERING POLE.

2. ASSEMBLIES OF SIMILAR CONSTRUCTION BUT DIFFERING ONLY IN USE OF EPOXY VS. PORCELAIN INSULATORS OR FIBERGLASS VS. WOOD CROSSARMS OR LACK OF NEUTRAL ASSEMBLY SHOULD BE GROUPED WITHIN THE SAME ITEM.

3. INCLUDES DROP WIRE, OH GUYS, MAINLINE WIRE.

4. INCLUDES MAINLINE POLES, SERVICE POLES,STUB POLES.

5. INCLUDES CROSSARMS, TRANSFORMERS, SWITCHES, ETC.

UTILITY INFORMATION

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10 WEST M.L. KING BLVD.
CHATTANOOGA, TENNESSEE 37402
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ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JEB
SCALE	DATE
NONE	12.9.22

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
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ELECTRIC UTILITY RELOCATION
ESTIMATED QUANTITES AND DRAWING INDEX

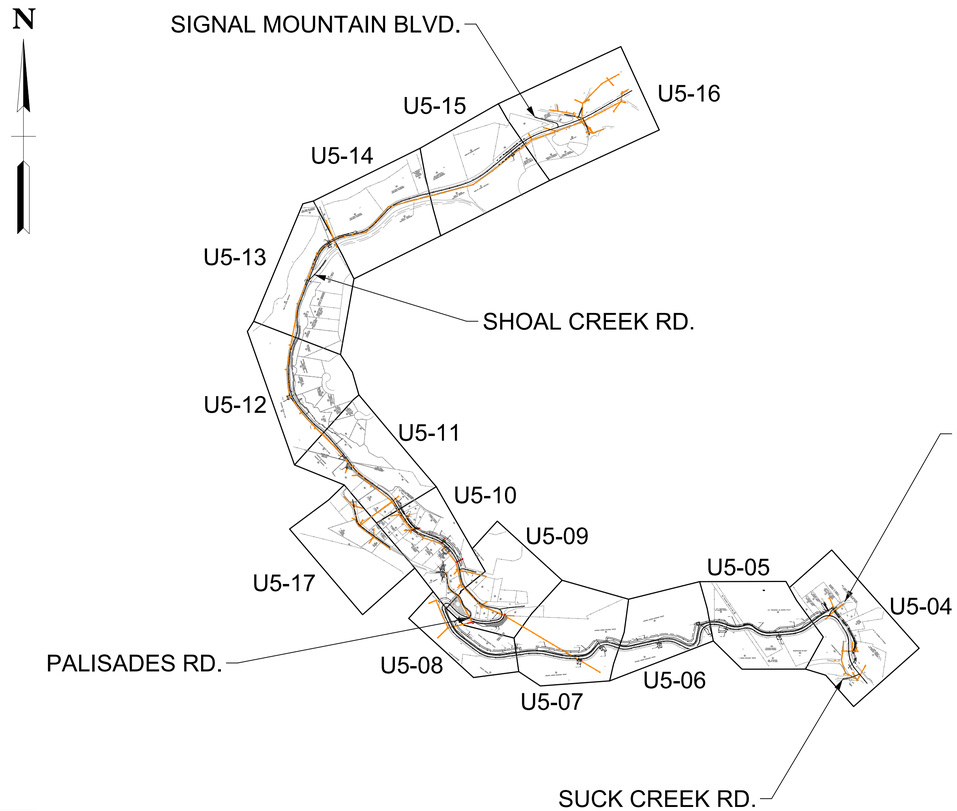
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-02

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00

HAMILTON COUNTY

STATE ROUTE 8 (US-127) FROM STATE ROUTE 27 (LM 13.96) TO PALISADES DRIVE (LM 17.01)



LEGEND

+++P	EXISTING TO REMAIN 3PH POWER
+P	EXISTING TO REMAIN 1PH POWER
PROPOSED SERVICE	PROPOSED SERVICE
EXISITNG TO REMAIN SERVICE	EXISITNG TO REMAIN SERVICE
REMOVAL SERVICE	REMOVAL SERVICE
EXISTING TO REMAIN LIGHTING CIRCUIT	EXISTING TO REMAIN LIGHTING CIRCUIT
△	EXISTING TO REMAIN TRANSFORMER
PROPOSED DOWNGUY/ANCHOR	PROPOSED DOWNGUY/ANCHOR
EXISTING TO REMAIN DOWNGUY/ANCHOR	EXISTING TO REMAIN DOWNGUY/ANCHOR
REMOVAL DOWNGUY/ANCHOR	REMOVAL DOWNGUY/ANCHOR
GUY	PROPOSED SPAN GUY
GUY	REMOVAL SPAN GUY
●	PROPOSED POLE
○	EXISTING TO REMAIN POLE
○	REMOVAL POLE

ELECTRIC POWER BOARD
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ELECTRIC UTILITY RELOCATION
VICINITY MAP AND LEGEND

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-03

33021-3231-14 HAMILTON COUNTY
PIN#:124080.00

GENERAL CONSTRUCTION NOTES

1. THE FOLLOWING INFORMATION APPLIES TO THE UTILITY CONTRACTOR RESPONSIBLE FOR THE RELOCATION OF THE ELECTRICAL FACILITIES ALONG THIS PROJECT, AS WELL AS THE CONTRACTOR RESPONSIBLE FOR THE CLEARING/CUTTING OF REQUIRED AREAS OUTSIDE OF THE TDOT RIGHT-OF-WAY WHEN REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL FACILITIES ALONG THIS PROJECT.

2. ANY DEVIATION OF THE CONDITIONS LISTED MUST BE APPROVED BY THE UTILITY PRIOR TO THE DEVIATION TAKING PLACE ON THE PROJECT. FAILURE BY THE UTILITY CONTRACTOR OR SUBCONTRACTORS TO FOLLOW THESE CONDITIONS AS LISTED WILL RESULT IN REFUSAL OF ACCEPTANCE BY THE UTILITY OWNER TO ACCEPT THE PROJECT AT IT'S COMPLETION UNTIL SUCH TIME AS ANY DEFICIENCIES ARE CORRECTED TO THE SATISFACTION OF THE UTILITY.

3. ALL WORK SHALL BE DONE IN A SAFE, THOROUGH AND WORKMAN-LIKE MANNER IN ACCORDANCE WITH THE PLAN SHEETS, CONSTRUCTION DETAILS AND TECHNICAL SPECIFICATIONS AS WELL AS ANY AND ALL APPLICABLE SAFETY CODES, INCLUDING, BUT NOT LIMITED TO, THE NATIONAL ELECTRICAL SAFETY CODE (NESC), AND ANY OTHER STATE AND LOCAL CODES THAT ARE REQUIRED FOR THE TYPE OF UTILITY RELOCATION THAT IS BEING PERFORMED AS PART OF THIS CONTRACT.

4. THE UTILITY CONTRACTOR SHALL EXERCISE ALL STANDARD SAFETY PRACTICES WHEN WORKING ON ENERGIZED ELECTRICAL LINES (e.g. RUBBER GOODS INSPECTIONS, GROUNDING OF LINES AND VEHICLES / EQUIPMENT, TOOL INSPECTIONS, ADEQUATE SUPERVISION, ETC.).

5. THE UTILITY CONTRACTOR SHALL BEAR THE RESPONSIBILITY FOR THE SAFETY OF ITS EMPLOYEES AND SHALL ENSURE THAT THEY ABIDE BY ALL STATE, FEDERAL AND LOCAL REGULATIONS REGARDING SAFE WORK PRACTICES. IF SUCH REGULATIONS ARE VIOLATED, THE UTILITY OWNER SHALL MAINTAIN THE RIGHT TO STOP WORK ON THEIR FACILITIES UNTIL SUCH CONDITIONS ARE CORRECTED.

6. IN GENERAL, THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS, METHODS, AND/OR INTEGRAL MATERIALS OUTLINED IN THE UTILITY CONSTRUCTION DRAWINGS AND THE TECHNICAL SPECIFICATIONS THAT ARE NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION OF THE UTILITY FACILITIES BEING RELOCATED.

7. THE ELECTRICAL FACILITIES ALONG THIS PROJECT OPERATE AT A NOMINAL PHASE-TO-PHASE VOLTAGE RATING OF 12.47KV AND 46KV. ALL WORK DONE BY THE UTILITY CONTRACTOR IS TO BE PERFORMED WHILE THE EXISTING FACILITIES ARE ENERGIZED, REQUIRING THE UTILITY CONTRACTOR TO USE PROPER HOT LINE WORKING TECHNIQUES. THE UTILITY OPERATES A 24-HOUR/365-DAY CONTROL CENTER THROUGH WHICH THE UTILITY CONTRACTOR SHALL COORDINATE ALL REQUESTS FOR CAUTION ORDERS AND CLEARANCE REQUESTS FOR TRANSFORMERS OR TAPS.

8. UTILITY CONSTRUCTION DRAWINGS ARE INCLUDED AS PART OF THE DRAWING PACKET AND MUST BE ADHERED TO DURING ALL PHASES OF CONSTRUCTION.

9. ALL MATERIALS TO BE USED BY THE UTILITY CONTRACTOR ON THE PROJECT MUST BE NEW MATERIALS AND MUST BE APPROVED BY THE UTILITY OWNER PRIOR TO PURCHASE OR USE. A PROPOSED LIST OF MATERIALS SHALL BE SUBMITTED TO THE UTILITY OWNER AS NOTED IN THE TECHNICAL SPECIFICATIONS FOR THE PROJECT. NO MATERIAL SUBSTITUTIONS ARE ALLOWED WITHOUT THE PRIOR CONSENT OF THE UTILITY OWNER. STORAGE LOCATION OF MATERIALS ON THE PROJECT SITE MUST BE A SECURE ENVIRONMENT. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR ANY LOST, STOLEN OR DAMAGED MATERIALS ON THE PROJECT.

10. THE UTILITY CONTRACTOR IS REQUIRED TO MAINTAIN COMMUNICATION WITH THE UTILITY OWNER'S CONTROL CENTER USING TELEPHONE COMMUNICATIONS. THE UTILITY CONTRACTOR MUST CONTACT THE CONTROL CENTER BY 5PM (EST) THE DAY BEFORE THEY BEGIN WORK ON THE PROJECT IN ORDER TO OBTAIN ANY CAUTION ORDERS AND TO INFORM THE UTILITY WHAT PORTION OF THE WORK IS GOING TO BE DONE. CAUTION ORDERS MUST BE RELEASED AT THE END OF EACH WORKDAY.

11. THE UTILITY CONTRACTOR IS TO PERFORM ALL REQUIRED WORK IN SUCH A MANNER AS TO NOT CAUSE UNINTENTIONAL OUTAGES TO THE CUSTOMERS ALONG THE PROJECT. ALL PLANNED OUTAGES MUST BE HANDLED IN ACCORDANCE WITH SECTION 01 1113E "SUMMARY OF WORK" IN THE CONSTRUCTION TECHNICAL SPECIFICATIONS. LARGE SCALE OUTAGES ARE NOT ALLOWED.

12. IF FIELD CONDITIONS ARISE WHICH PREVENT THE CONSTRUCTION ON THE PROJECT FROM PROCEEDING AS DESIGNED, THE UTILITY CONTRACTOR WILL COORDINATE WITH THE UTILITY OWNER / ENGINEER TO RESOLVE THE ISSUES SO THAT CONSTRUCTION CAN CONTINUE.

13. TO DECREASE THE POTENTIAL FOR OUTAGES, THE UTILITY CONTRACTOR SHALL NOT HAVE MORE THAN ONE (1) MILE OF ELECTRICAL LINE LAID OUT UNDERCONSTRUCTION WITH TEMPORARY LAYOUT ARMS AT ANY ONE TIME.

14. THE UTILITY CONTRACTOR SHALL COMPLY WITH ALL TDOT REGULATIONS, PERMITS AND TRAFFIC CONTROL GUIDELINES AS REQUIRED.

15. THE LOCATIONS OF EXISTING UTILITIES SHOWN WITHIN THESE DRAWINGS ARE BASED ON INFORMATION PROVIDED BY TDOT, AND SHALL BE VERIFIED BY THE UTILITY CONTRACTOR PRIOR TO CONSTRUCTION. THE UTILITY CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES AND REQUEST THAT THE UTILITY OWNERS PROPERLY LOCATE AND MARK THEIR PERSPECTIVE UTILITY ON THE GROUND.

16. THE UTILITY CONTRACTOR SHALL REQUEST UTILITY LOCATIONS A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO BEGINNING ANY CONSTRUCTION IN THE AREA OF THE UTILITIES IN QUESTION.

17. THE TDOT PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE EXISTING UNDERGROUND UTILITIES. THE PRIME CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY EXISTING UTILITY OWNER PRIOR TO DIGGING. IN THE EVENT THAT THERE IS ANY DAMAGE TO OR INTERRUPTION OF EXISTING FACILITIES, THE PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ANY COST INCURRED FROM THE EVENT.

18. SOME EXISTING UTILITIES CAN BE LOCATED BY CALLING TENNESSEE ONE-CALL SYSTEMS, INC. AT "811".

19. THE UTILITY CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THE PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND EXISTING UTILITIES, THE UTILITY CONTRACTOR SHALL BE REQUIRED TO FURNISH THE EQUIPMENT NECESSARY TO COMPLETE THE WORK.

20. THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY ITS EMPLOYEES IN AREAS OUTSIDE OF TDOT ROW ALONG THE LENGTH OF THE PROJECT. THE UTILITY CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR RESOLVING ALL COMPLAINTS THAT MAY ARISE FROM ITS ACTIVITIES, AND SHALL PROMPTLY REPORT SUCH COMPLAINTS TO THE UTILITY OWNER AS TO WHETHER OR NOT IT HAS BEEN RESOLVED.

21. GROUND AND AERIAL INSPECTION OF INSTALLED FACILITIES ONCE COMPLETED SHALL BE THE RESPONSIBILITY OF THE UTILITY CONTRACTOR. ANY CORRECTIONS THAT ARE REQUIRED SHALL BE DONE DURING THE CONSTRUCTION OF THE PROJECT AND VERIFIED BY THE UTILITY OWNER / ENGINEER. THE UTILITY OWNER WILL HAVE INSPECTORS ON-SITE TO VERIFY SAFETY AND QUALITY OF WORK IS CONSISTENT WITH UTILITY OWNER'S STANDARDS.

22. WHILE SOME WORK MAY ONLY BE REQUIRED "AROUND" OTHER UTILITY FACILITIES, SOME WORK MAY NEED TO BE DONE CONCURRENTLY WITH THE OPERATIONS OF OTHER UTILITY CONTRACTORS. IT IS THE RESPONSIBILITY OF THE TDOT PRIME CONTRACTOR TO ENSURE THAT ALL UTILITY COORDINATION BE ADDRESSED DURING THE CONSTRUCTION OF THE PROJECT.

23. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL FACILITIES INDICATED WITHIN THESE DRAWINGS AT "FINAL GRADE" AS SHOWN. ANY TEMPORARY INSTALLATIONS THAT ARE NOT SPECIFICALLY NOTED WITHIN THESE DRAWINGS AND THAT ARE NOT ADDRESSED AND COORDINATED PRIOR TO CONSTRUCTION OF THE PROJECT WILL BE THE RESPONSIBILITY OF THE TDOT PRIME CONTRACTOR.

24. CONSTRUCTION OF RELOCATED FACILITIES IS NOT CONSIDERED TO BE COMPLETE UNTIL THE UTILITY CONTRACTOR HAS ENERGIZED THE LINES AT THE FINAL OPERATING VOLTAGE IN ACCORDANCE WITH EPB SPECIFICATIONS.

25. PERSONNEL CHANGES ARE TO BE KEPT TO A MINIMUM DURING THE CONSTRUCTION OF THE PROJECT AS TO REDUCE UNFAMILIAR PERSONNEL TO BE WORKING ON THE FACILITIES OF THE UTILITY OWNER.

26. THE TDOT PRIME CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL UTILITY FACILITIES THAT ARE TO BE RELOCATED WITHIN THE PROJECT.

27. WHERE EROSION CONTROL MEASURES ARE NEEDED FOR THE UTILITY WORK OCCURING OUTSIDE THE STATE RIGHT-OF-WAY, THE UTILITY CONTRACTOR SHALL SUBMIT A PROPOSED EROSION AND SEDIMENT CONTROL PLAN TO THE TDOT PROJECT SUPERVISOR FOR APPROVAL PRIOR TO BEGINNING WORK.

28. THE DISTANCES THAT ARE SHOWN ON THE DRAWINGS ARE HORIZONTAL DISTANCES ONLY, AND DO NOT ALLOW FOR ANY CHANGES IN ELEVATION THAT EXIST ALONG THE PROJECT.

29. ALL OIL-FILLED EQUIPMENT, INCLUDING RECLOSERS AND TRANSFORMERS, SHALL BE PROVIDED BY THE UTILITY OWNER. THE LABOR COST, AND MINOR MATERIALS REQUIRED TO INSTALLL THESE UNITS SHALL BE INCLUDED IN THE BID FROM THE UTILITY CONTRACTOR. LEAKING OIL-FILLED EQUIPMENT WILL BE PLACED IN HAZARDOUS MATERIAL BAGS UNTIL THE UTILITY OWNER CAN PICK THE EQUIPMENT UP FROM THE PROJECT SITE.

30. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL TANGENT STRUCTURES ARE PROPERLY ALIGNED AFTER SETTING ANGLE POLES OR STRUCTURES. AT JUNCTION POLES AND OTHER CONTROL LOCATIONS, THE PROPOSED POLE LOCATION SHALL NOT BE FARTHER THAN TWENTY-FOUR (24) INCHES FROM THE EXISTING POLE WITHOUT APPROVAL FROM THE UTILITY OWNER. THE UTILITY CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE BACK AND/OR FORWARD SPAN TANGENT POLE ALIGNMENT.

31. POLE DRILLING IS TO BE INCLUDED IN THE LABOR AND MATERIAL COST FOR THE POLE.

32. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR CHECKING AND ENSURING THE PROPER PHASE ROTATION OF ALL THREE-PHASE MOTORS, ALONG WITH VOLTAGE AND PHASING TO OTHER LOADS, BEFORE AND AFTER CONSTRUCTION OF NEW FACILITIES. THE UTILITY CONTRACTOR SHALL MAINTAIN EXISTING PHASE CONNECTIONS FOR ALL CONDUCTORS, TRANSFORMERS, ETC. UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR WITH THE CONSENT OF THE UTILITY OWNER / ENGINEER.

33. LOCKNUTS SHALL BACK UP ALL NUTS ON THREADED BOLTS SUCH AS MACHINE BOLTS, DOUBLE ARMING BOLTS, UPSET BOLTS, INSULATOR PINS, ETC. EXISTENCE OF LOCKNUTS WILL BE CLOSELY EXAMINED BY THE UTILITY OWNER DURING CONSTRUCTION. BOLTS SHALL NOT EXTEND MORE THAN TWO (2) INCHES FROM NUTS.

34. BULLDOG TYPE GRIPS SHALL NOT BE USED FOR PULLING DOWNGUYS.

35. THE UTILITY CONTRACTOR SHALL INSTALL ALL DOWNGUYS AT LENGTHS AS INDICATED ON THE DRAWINGS UNLESS OTHERWISE DISCUSSED WITH AND APPROVED BY THE UTILITY OWNER / ENGINEER.

36. THE UTILITY CONTRACTOR SHALL INSTALL FIBERGLASS INSULATOR GUYLINKS ON ALL DOWNGUYS WITHIN TWO (2) FEET OF PRIMARY CONDUCTORS.

37. WHEN WOOD POLES ARE BEING UTILITIZED, THE UTILITY CONTRACTOR MUST INSPECT AND TEST ALL POLES BEFORE CLIMBING.

38. ANCHORS THAT ARE TO BE RETIRED SHALL HAVE THE ROD UNSCREWED AND REMOVED, OR BE CUT OFF AT LEAST EIGHTEEN (18) INCHES BELOW FINAL GRADE.

39. ALL GROUND RODS TO BE REMOVED SHALL BE PULLED, NOT CUT OFF.

40. ALL MOUNTING HARDWARE REQUIRED FOR INSTALLING NEW TRANSFORMERS SHALL BE INCLUDED IN THE UNIT FOR THE TRANSFORMER AS INDICATED BY THE TDOT STANDARD ITEM NUMBER FOR THOSE UNITS. IN ADDITION, THE UTILITY CONTRACTOR WILL BE REQUIRED TO CHANGE OUT ALL EXISTING PORCELIAN LIGHTNING ARRESTORS WITH POLYMER ARRESTORS.

41. GUY MARKERS ARE TO BE INSTALLED ON ALL NEW AND EXISTING-TO-REMAIN DOWN GUYS REQUIRED FOR THE PROJECT.

42. CONDUCTOR SPLICING SHALL BE KEPT TO A MINIMUM. THERE SHALL BE NO MORE THAN ONE SPLICE PER SPAN PER CONDUCTOR, AND NO SPLICES ARE ALLOWED CLOSER THAN TEN (10) FEET FROM ANY SUPPORT.

43. THE DESIGN ENGINEER WILL PROVIDE ALL STAKING DATA, DESIGN TENSION AND SAG DATA AS REQUIRED.

44. THE UTILITY CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER AND/OR DESIGN ENGINEER FOR VERIFICATION OF ALL POLE STAKING LOCATIONS PRIOR TO ANY POLE INSTALLATION ON THE PROJECT.

45. THE UTILITY CONTRACTOR SHALL PROVIDE THE UTILTY OWNER WITH ONE (1) SET OF CLEAN, CLEARLY MARKED "AS-BUILT" DRAWINGS AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL REFLECT ANY AND ALL CHANGES THAT WERE MADE TO THE FACILITIES DURING CONSTRUCTION.

46. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONSTRUCTION DRAWINGS AND TECHNICAL SPECIFICATIONS FOR THE RELOCATION OF FACILITIES PRIOR TO BIDDING THE PROJECT. ANY QUESTIONS CONCERNING INFORMATION SHOWN IN THE CONTRACT DOCUMENTS SHALL BE ADDRESSED TO THE UTILITY OWNER / ENGINEER PRIOR TO BIDDING ON THE PROJECT.

47. ALL INSTALLED POLES SHALL HAVE A POLE TAG TO EPB SPECIFICATIONS WITH AN ASSIGNED POLE NUMBER ON THE TAG AFFIXED TO THE POLE. COORDINATE WITH EPB ON POLE TAGGING.

48. ALL WOOD POLES SHALL HAVE "SOFT" CCA TREATMENT DENOTED AS CCA-ET OR CCA CLAW.

49. ALL PRIMARY AND SECONDARY CONDUCTORS, CONNECTORS, JUMPERS, ETC. SHALL BE THOROUGHLY WIRE BRUSH CLEANED OF FOREIGN MATTER. AN OXIDATION INHIBITOR, AS APPROVED BY THE UTILITY OWNER, SHALL BE APPLIED TO WIRE ENDS. CONDUCTOR SHALL BE LAID STRAIGHT BEFORE CONNECTING AND/OR INSTALLING ANY CONNECTOR OR CLAMP.

50. UTILITY CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTING EACH REEL OF CONDUCTOR FOR THE PROJECT. ANY DAMAGE TO THE CONDUCTOR SHALL BE REMOVED AND SPLICED AS REQUIRED. ALL CONDUCTOR SHALL BE PROTECTED FROM EQUIPMENT OR VEHICLE TRAFFIC WHILE BEING INSTALLED.

51. ROLLERS AND BLOCKS SHALL BE INSPECTED PRIOR TO INSTALLATION OF CONDUCTOR TO PREVENT BINDING OR ANY OTHER DAMAGE DURING STRINGING.

CLEARING AND TRIMMING

1. UTILITY CONTRACTOR SHALL PROVIDE ALL NECESSARY TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CUT, TRIM, AND/OR REMOVE REQUIRED TREES IN AREAS OUTSIDE OF TDOT RIGHT-OF-WAY AS INDICATED ON THE DRAWINGS. DEBRIS RESULTING FROM SUCH WORK SHALL BE DISPOSED OF DAILY FROM THE PROJECT SITE. DEBRIS SHALL INCLUDE BUT NOT BE LIMITED TO BRUSH, WOOD, LIMBS, LOGS AND LEAVES.

2. UTILITY CONTRACTOR SHALL PERFORM ALL WORK TO THE SATISFACTION OF THE UTILITY OWNER AND IN ACCORDANCE WITH ALL FEDERAL, STATE, COUNTY, MUNICIPAL AND OTHER LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THE WORK BEING PERFORMED, AS WELL AS WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE Z133.1 AND A300.

3. TREE TRIMMING SHALL BE DONE IN ACCORDANCE WITH THE UTILITY OWNER'S VEGETATION MANAGEMENT CONTRACTOR POLICY MANUAL. A REPRESENTATIVE OF THE VEGETATION MANAGEMENT DEPARTMENT FOR EPB WILL BE AVAILABLE TO ASSIST AND PROVIDE DETAILED INFORMATION.

4. ALL GROWTH SHALL BE CLEARED WITHIN THREE (3) FEET OF ALL SERVICE CONDUCTORS WITH THE USE OF LATERAL PRUNING ONLY, UNLESS OTHERWISE INSTRUCTED BY THE UTILITY OWNER.

5. ALL STRUCTRES SHALL BE CLEARED WITHIN A TEN (10) FOOT RADIUS OF THE STRUCTURE. ALL DOWN GUYS, ANCHORS, SPAN GUYS, ETC. SHALL BE CLEARED WITHIN A FIVE (5) FOOT RADIUS OF THE STRUCTURE.

6. FOR ALL TREES THAT ARE CUT, THE UTILITY CONTRACTOR SHALL ENSURE THAT THE TREES ARE CUT FLUSH WITH THE GROUND.

7. UTILITY CONTRACTOR SHALL PERFORM ALL WORK IN A REASONABLE, SAFE AND SECURE FASHION TO COMPLY, AT A MINIMUM, WITH ALL SAFETY AND SECURITY REQUIREMENTS OF ALL GOVERNMENT AUTHORITIES AND TO PERFORM THE WORK IN SUCH A MATTER AS TO PREVENT ACCIDENTS TO THE PUBLIC OR ANY DAMAGE TO PROPERTY.

8. ALL WORK IS TO BE DONE WHILE THE FACILITIES ARE ENERGIZED, AND THEREFORE, THE UTILITY CONTRACTOR SHALL GUARD AGAINST INTERFERENCE WITH THE NORMAL OPERATION OF THE ELECTRICAL FACILITIES TO ENSURE THERE IS NO DAMAGE TO ENERGIZED CIRCUITS.

9. THE UTILITY OWNER WILL PROVIDE A REPRESENTATIVE OF THE VEGETATION MANAGEMENT DEPARTMENT FOR EPB TO SUPERVISE ANY NECESSARY TREE TRIMMING, IN ORDER TO ENSURE THAT THE WORK IS BEING DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY OWNER AS WELL AS THE CUSTOMERS THAT ARE AFFECTED.

10. UTILITY CONTRACTOR SHAL BE REQUIRED TO MEET WITH THE ARBORIST ASSIGNED TO THE PROJECT BY THE UTILITY OWNER FOR THE FACILITIES THAT ARE BEING RELOCATED PRIOR TO ANY TREE TRIMMING OFF OF STATE RIGHT-OF-WAY ALONG THE PROJECT.

CAUTION AND LINE CLEARANCE ORDERS

1. ALL CAUTION ORDERS SHALL BE REQUESTED AND ISSUED THROUGH THE UTILITY OWNER'S CONTROL CENTER BY CALLING THE CONTROL CENTER. EPB TO PROVIDE THE CALL CENTER PRIVATE # TO THE UTILITY CONTRACTOR FOR THE PROJECT.

2. CAUTION ORDERS WILL ONLY BE ISSUED FROM AN EPB CONTROL CENTER EMPLOYEE. ALL CREW SUPERVISORS AND TEAM LEADS WILL NEED TO ATTEND EPB CAUTION AND CLEARANCES TRAINING TO BE CONDUCTED BY EPB.

3. UTILITY CONTRACTOR SHALL PROIVDE THE FOLLOWING INFORMATION WHEN REQUESTING A CAUTION ORDER:
   - -NAME OF EMPLOYEE IN-CHARGE
   - -COMPANY NAME
   - -CELL PHONE NUMBER
   - -POLE NUMBER

4. ONCE THE CAUTION ORDER IS REQUESTED, THE UTILITY CONTRACTOR SHALL VERIFY TO THE CONTROL CENTER THAT THE INFORMATION PROVIDED IS CORRECT. ONCE THE INFORMATION IS VERIFIED, THE CONTROL CENTER WILL PROCESS THE CAUTION ORDER. THE CONTROL CENTER WILL THEN PROVIDE THE CONTRACTOR WITH A CAUTION ORDER NUMBER. THE UTILITY CONTRACTOR MUST CONFIRM RECEIPT OF THE NUMBER BEFORE THE PROCESS IS COMPLETE.

5. WHEN A CAUTION ORDER IS RELEASED, THE UTILITY CONTRACTOR SHALL CONTACT THE CONTROL CENTER VIA TELEPHONE AND USING THEIR VEHICLE NUMBER FOR CONFIRMATION. THE UTILITY CONTRACTOR MUST REQUEST RELEASE OF THE CAUTION ORDER BY PROVIDING THE CONTROL CENTER THE NUMBER ASSIGNED TO THE CAUTION ORDER, AND THAT THE POLE TOP IS BACK IN THE NORMAL POSITION WITH THE TAG REMOVED. ONCE THE CONTROL CENTER VERIFIES ALL OF THE INFORMATION, THEY WILL PROCESS THE RELEASE OF THE CAUTION ORDER. ONCE THE CAUTION ORDER IS RELEASED, THE UTILITY CONTRACTOR MUST ACKNOWLEDGE AND CONFIRM THE RELEASE.

6. CAUTION ORDERS MUST BE RELEASED WHEN CREWS LEAVE THE WORK LOCATION DURING LUNCH BREAK LASTING MORE THAN ONE (1) HOUR.

7. NO CAUTION ORDERS CAN BE EXTENDED BEYOND ONE WORKING DAY.

8. IN THE EVENT OF INCLIMATE WEATHER, THE CONTROL CENTER WILL CONTACT THE UTILITY CONTRACTOR AND REQUEST THE RELEASE OF ANY CAUTION ORDERS THAT ARE IN EFFECT. IF THREE (3) ATTEMPTS ARE MADE TO CONTACT THE UTILITY CONTRACTOR, AND THEY FAIL TO RESPOND, THE UTILTY'S OPERATIONS SUPERVISOR WILL BE NOTIFIED IMMEDIATELY.

9. LINE CLEARANCE ORDERS WILL BE ISSUED TO A DESIGNATED UTILITY CONTRACTOR REPRESENTATIVE. CLOSE COMMUNICATION AND COORDINATION WITH THIS EPB EMPLOYEE IS CRITICAL. ALL LINE CLEARANCE ORDERS WILL BE ASSIGNED A NUMBER AND WILL FOLLOW THE SAME GUIDELINES FOR RELEASE AS CAUTION ORDERS.

10. ALL DISTRIBUTION AND TRANSMISSION LINE CLEARANCE ORDERS MUST BE REQUESTED THREE (3) WORKING DAYS PRIOR TO THE DAY THEY ARE NEEDED.

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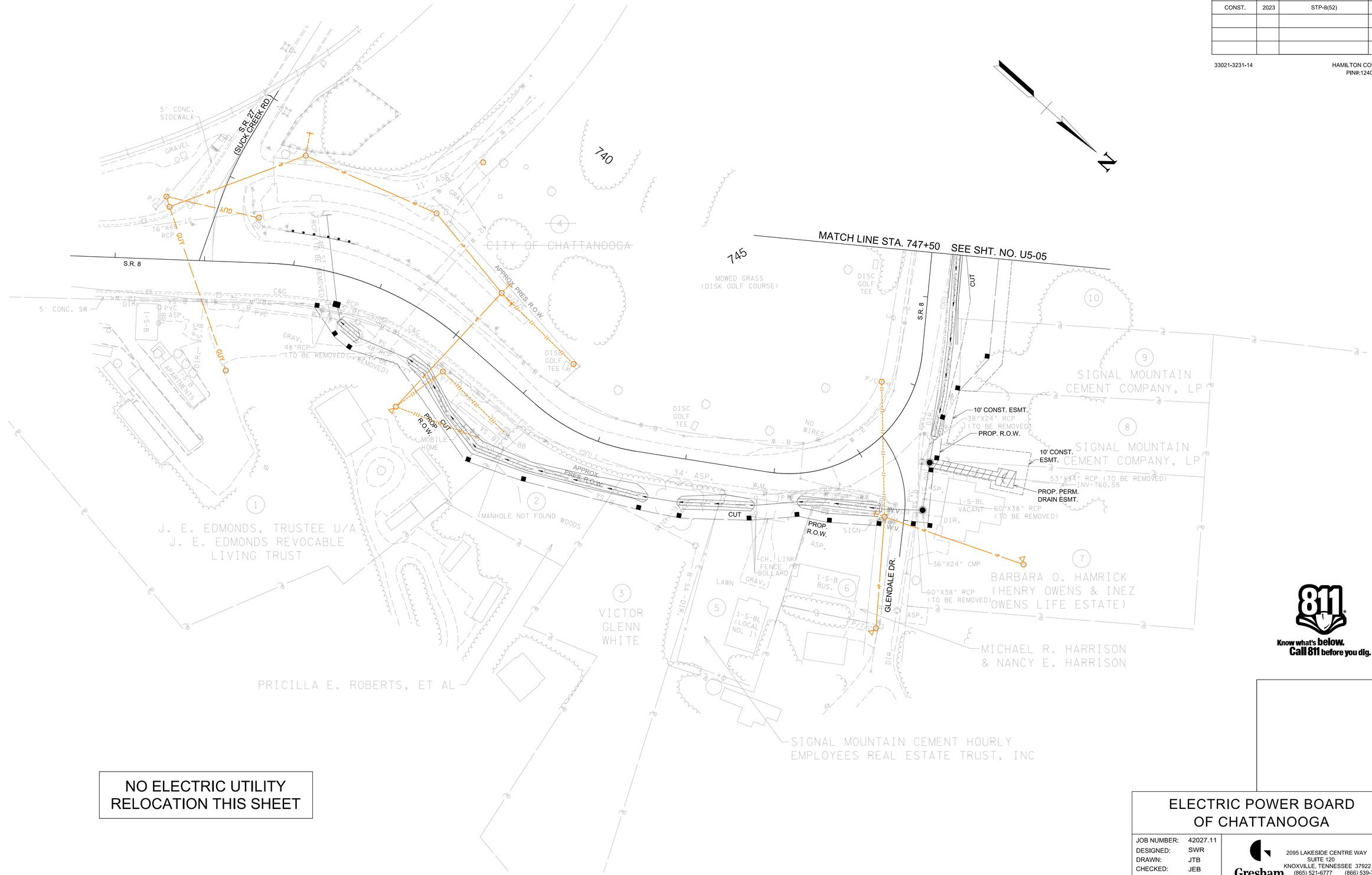
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-04

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



NO ELECTRIC UTILITY RELOCATION THIS SHEET

Know what's below.
Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JEB
SCALE	1"=50'
DATE	12.9.22

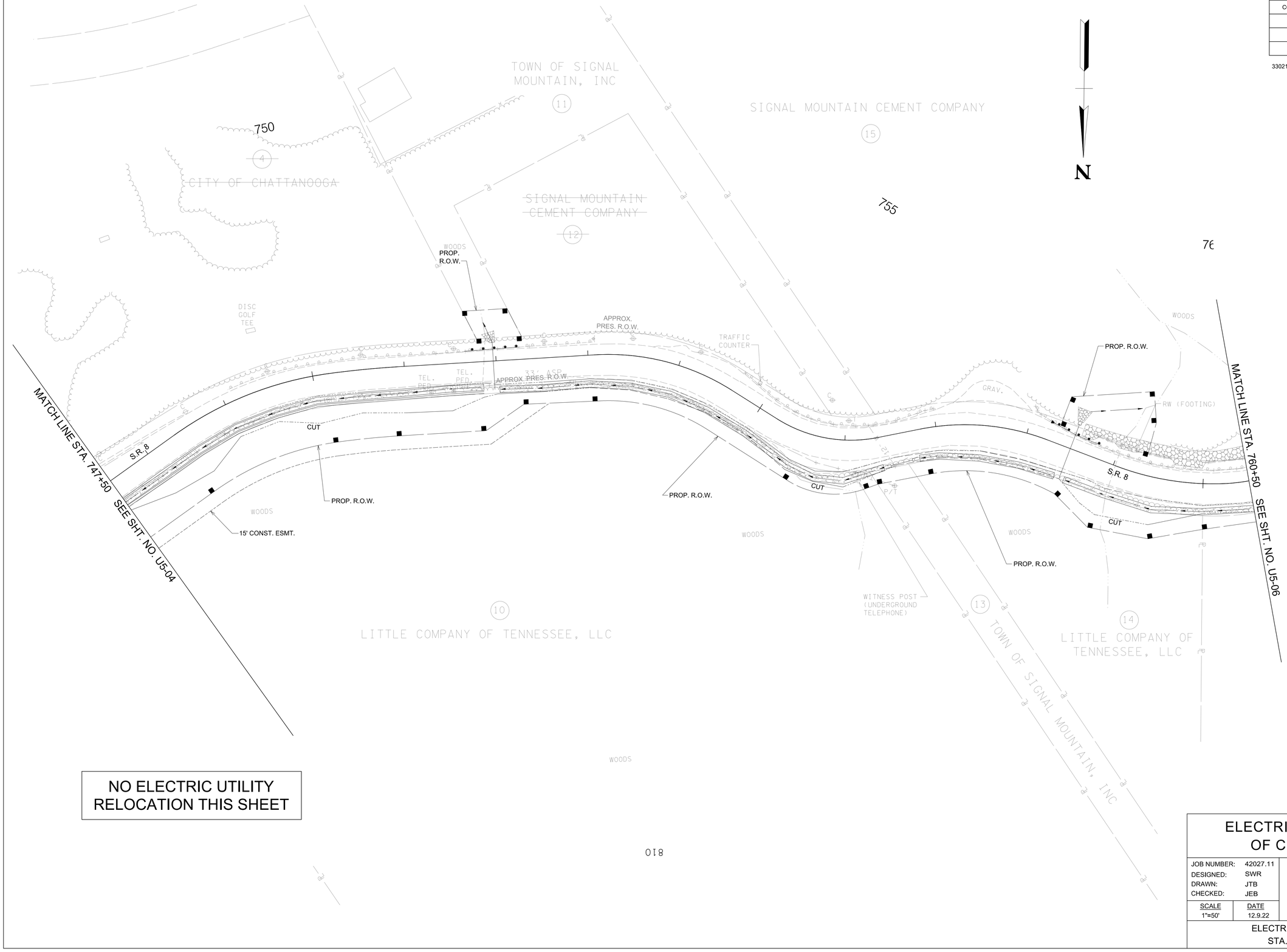
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
BEGIN PROJ. TO STA. 747+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-05

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



NO ELECTRIC UTILITY RELOCATION THIS SHEET

Know what's **below.**
Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JEB
SCALE	DATE
1"=50'	12.9.22

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 747+50 STA. 760+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-06

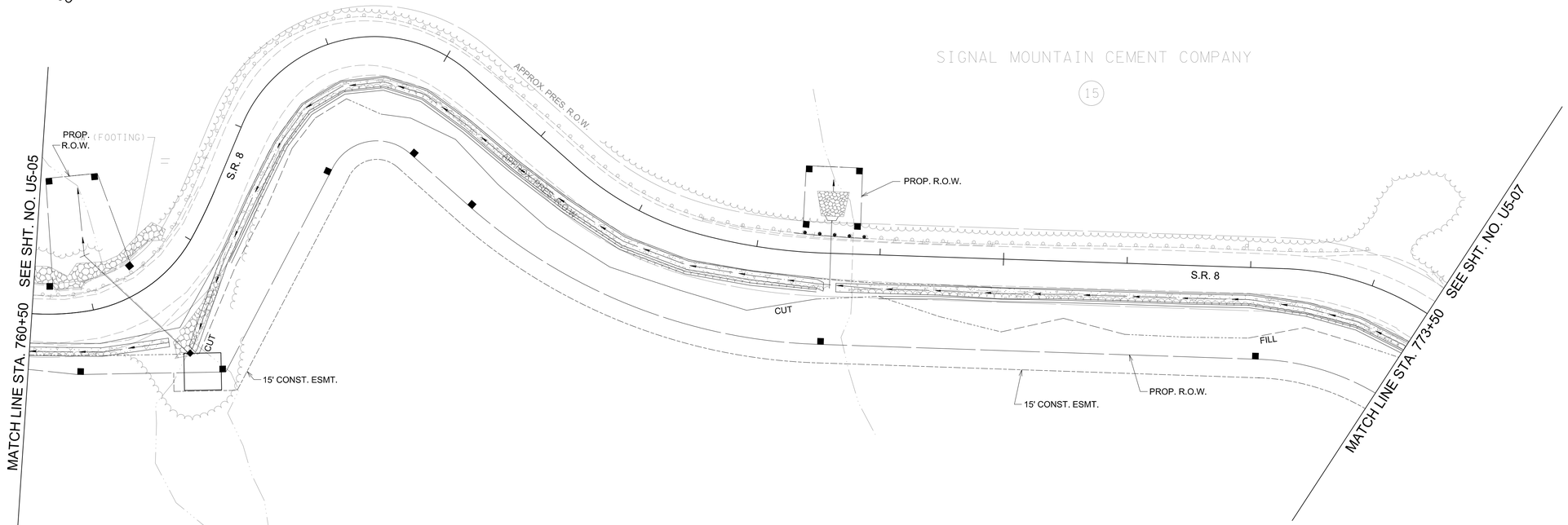
33021-3231-14

HAMILTON COUNTY
PIN#:124080.00

765

770

760



N

Know what's **below.**
Call 811 before you dig.

NO ELECTRIC UTILITY
RELOCATION THIS SHEET

ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JEB
SCALE	DATE
1"=50'	12.9.22

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 760+50 TO STA.773.50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-07

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00

780

775

785

N

SIGNAL MOUNTAIN CEMENT COMPANY

15

EXISTING: 40-2WP, T2, UC1, (3)46KV-LA, M2-11

REMOVE: 60-H2 SP, T8FGA, UC1FGA, 46KV-LA, 12M, 24M, M2-11
INSTALL: 65-H4 SP, T8FGA, UC1FGA, 46KV-LA, 12M, 24M, M2-11
TRANSFER: (7)CONDUCTORS

PROP. R.O.W.

P1

15' G.L.

B8156

PROP. R.O.W.

WOODS

APPROX. PRES. R.O.W.

S.R. 8

CUT

FILL

15' CONST. ESMT.

PROP. R.O.W.

EXISTING: 40-2WP, T1, UC1, M2-11

APPROX. PRES. R.O.W.

S.R. 8

CUT

APPROX. PRES. R.O.W.

15' CONST. ESMT.

PROP. R.O.W.

MATCH LINE STA. 773+50 SEE SHT. NO. U5-06

MATCH LINE STA. 786+50 SEE SHT. NO. U5-08

APPROX. PRES. R.O.W.

S.R. 8

FILL

EXIST. BARRIER RAIL (TO BE REMOVED)

WOODS

16

SIGNAL MOUNTAIN CEMENT COMPANY

811
Know what's **below.**
Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JEB
SCALE	1"=50'
DATE	12.9.22

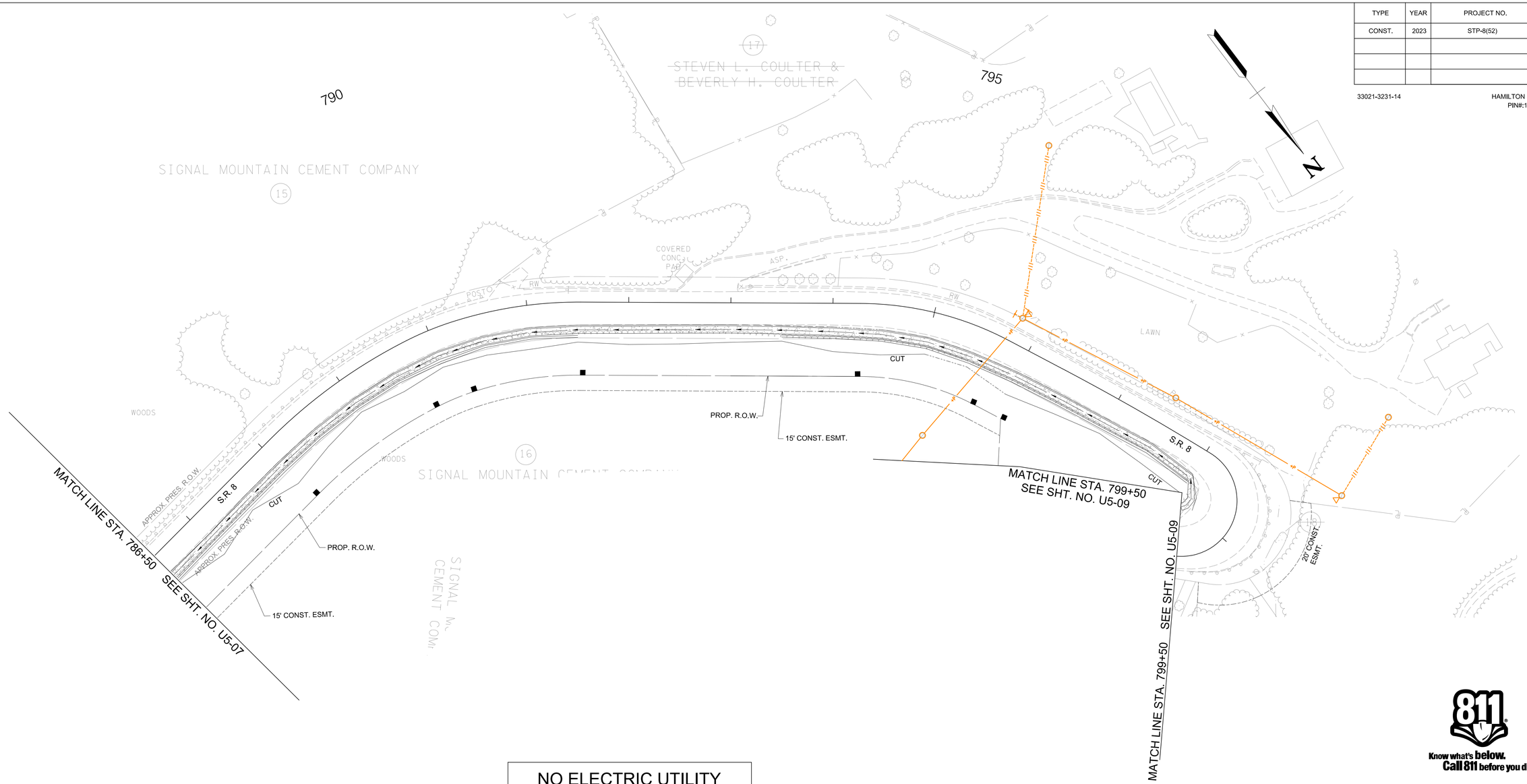
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 773+50 TO STA. 786+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-08

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



NO ELECTRIC UTILITY
RELOCATION THIS SHEET

Know what's **below.**
Call 811 before you dig.

ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JEB
SCALE	1"=50'
DATE	12.9.22

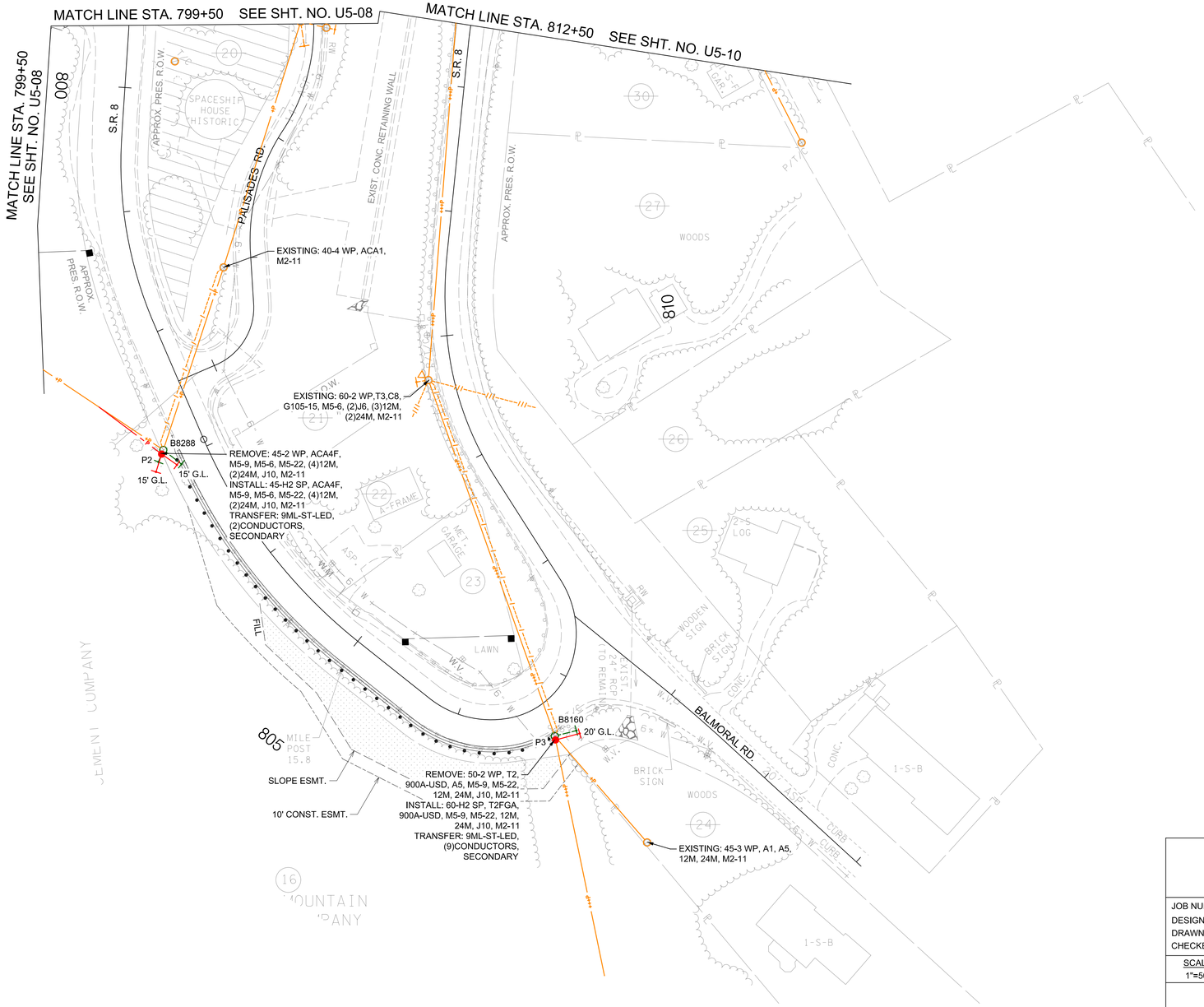
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 786+50 TO STA. 799+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-09

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



Know what's **below.**
Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JEB
SCALE	1"=50'
DATE	12.9.22

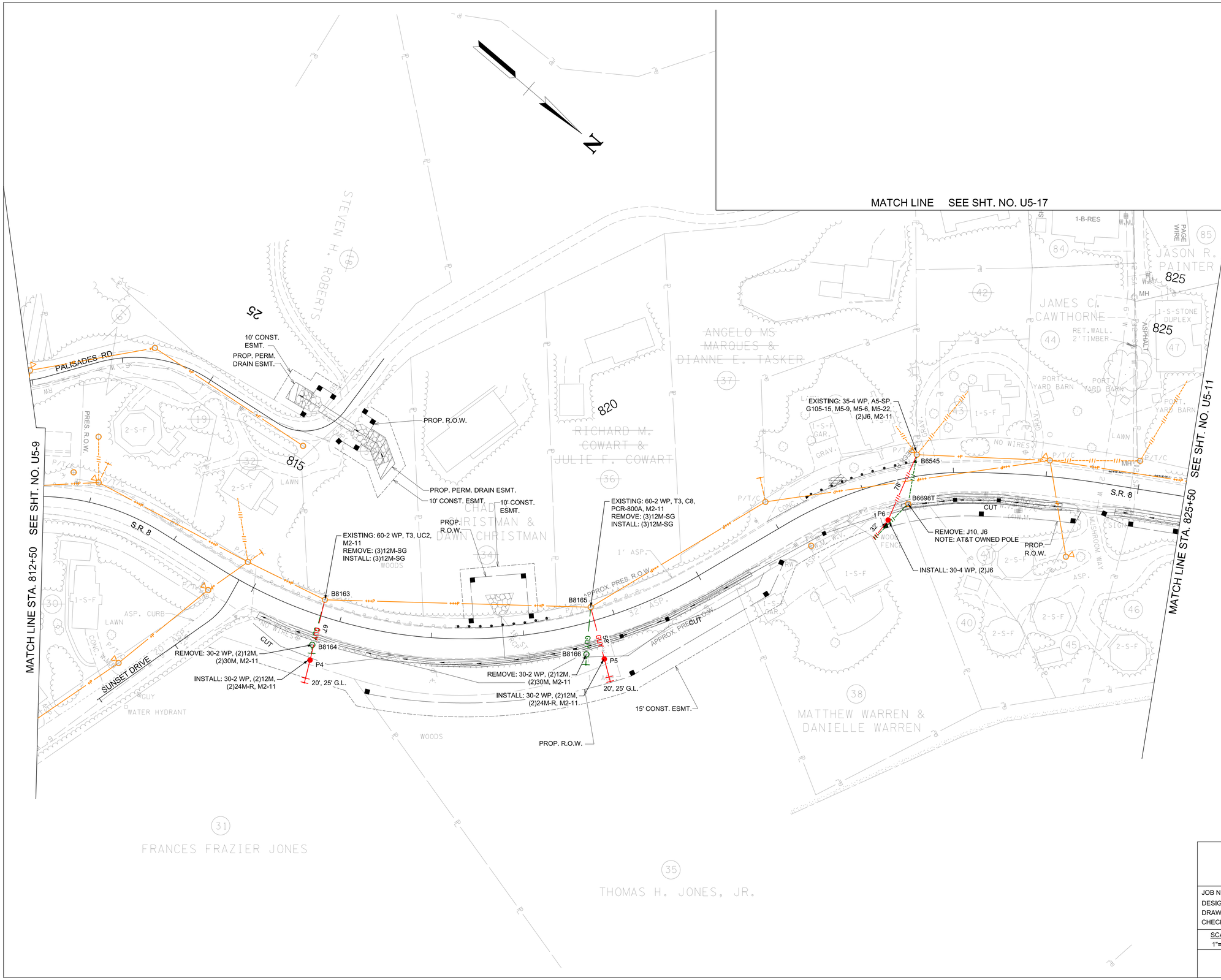
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 799+50 TO STA. 812+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-10

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



Know what's below. Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JEB
SCALE	DATE
1"=50'	12.9.22

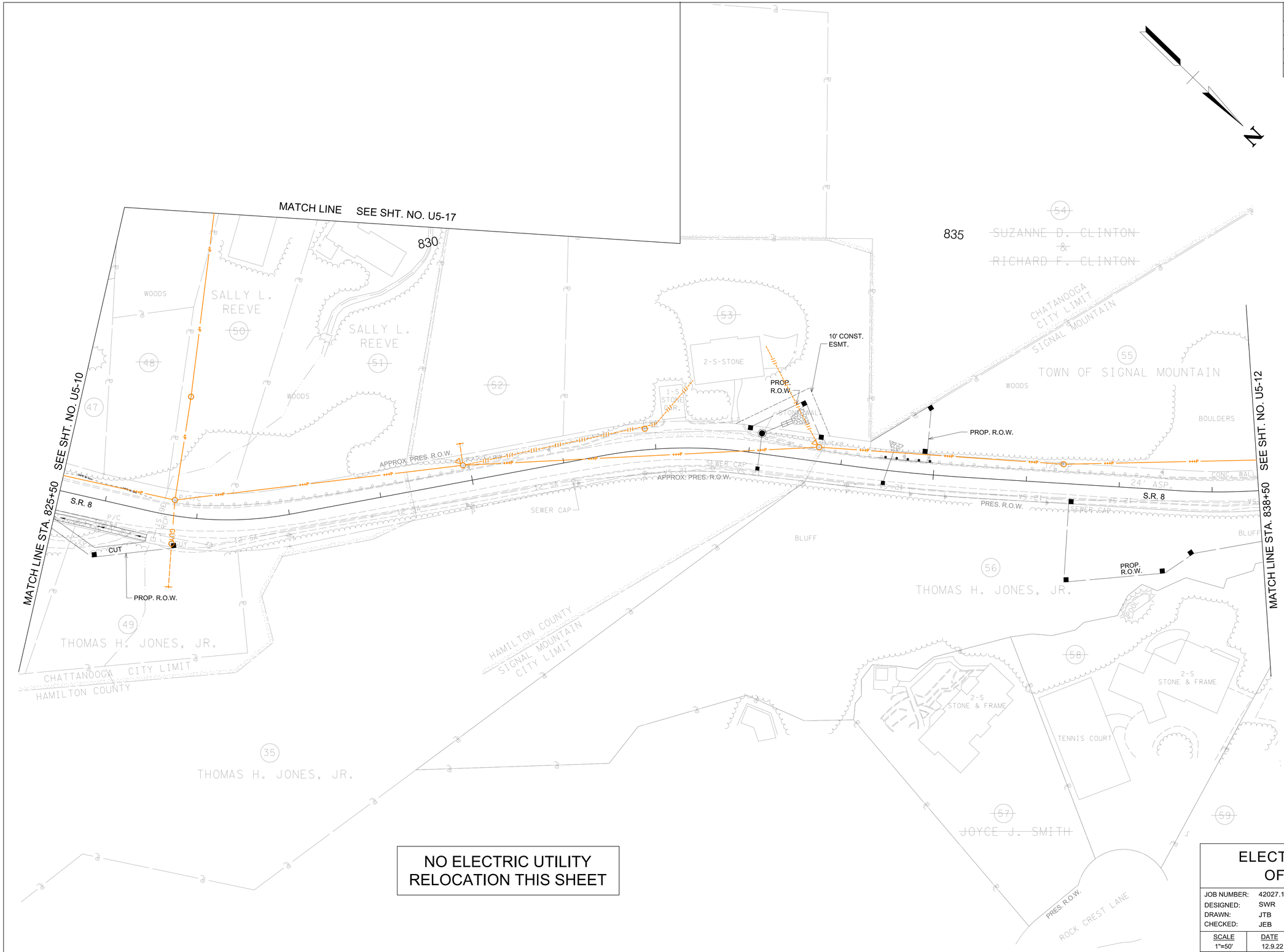
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 812+50 TO STA. 825+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-11

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



NO ELECTRIC UTILITY RELOCATION THIS SHEET

Know what's **below.**
Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JEB
SCALE	DATE
1"=50'	12.9.22

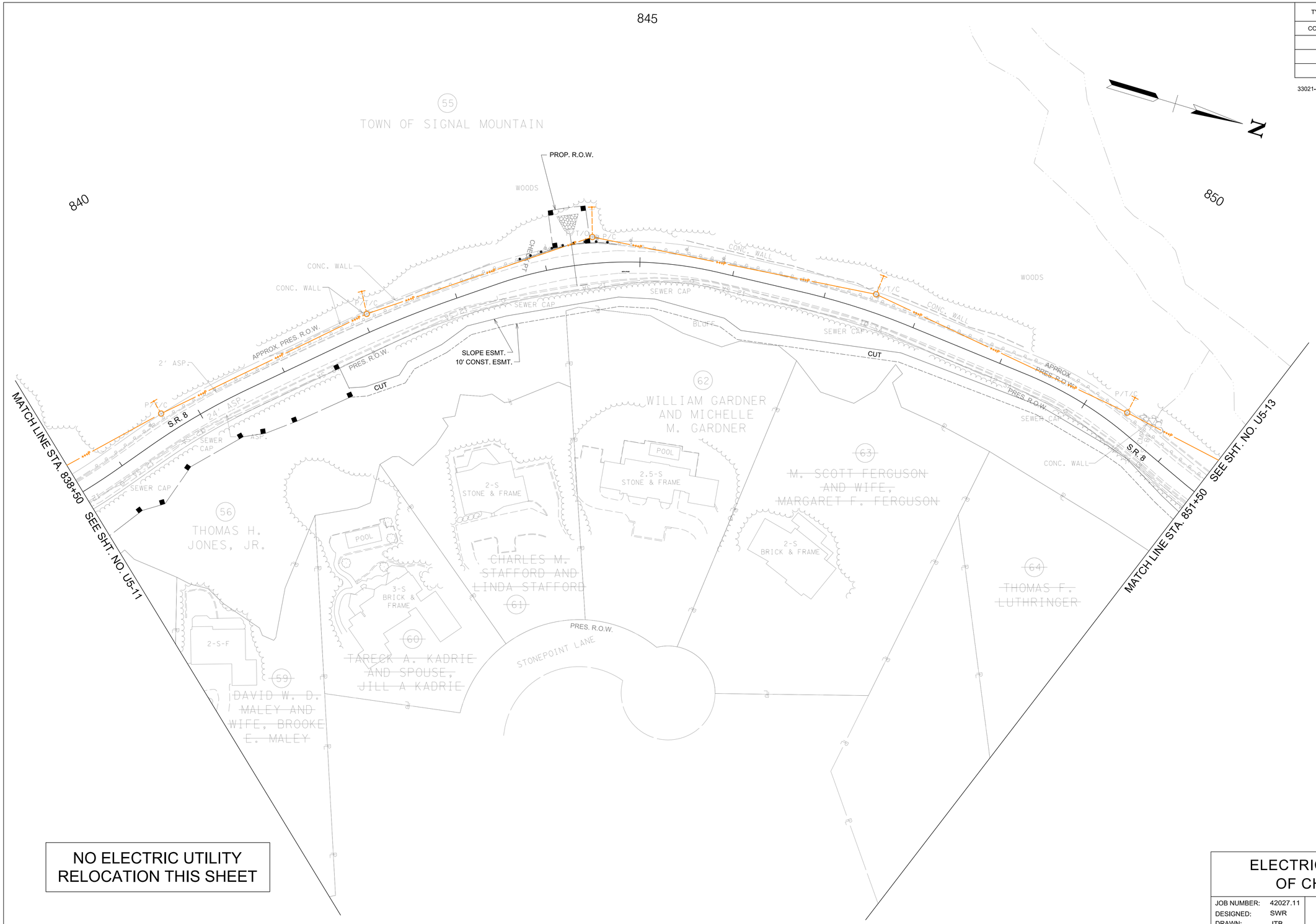
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 825+50 TO STA. 838+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-12

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



NO ELECTRIC UTILITY RELOCATION THIS SHEET

811 Know what's below. Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JEB
SCALE	1"=50'
DATE	12.9.22

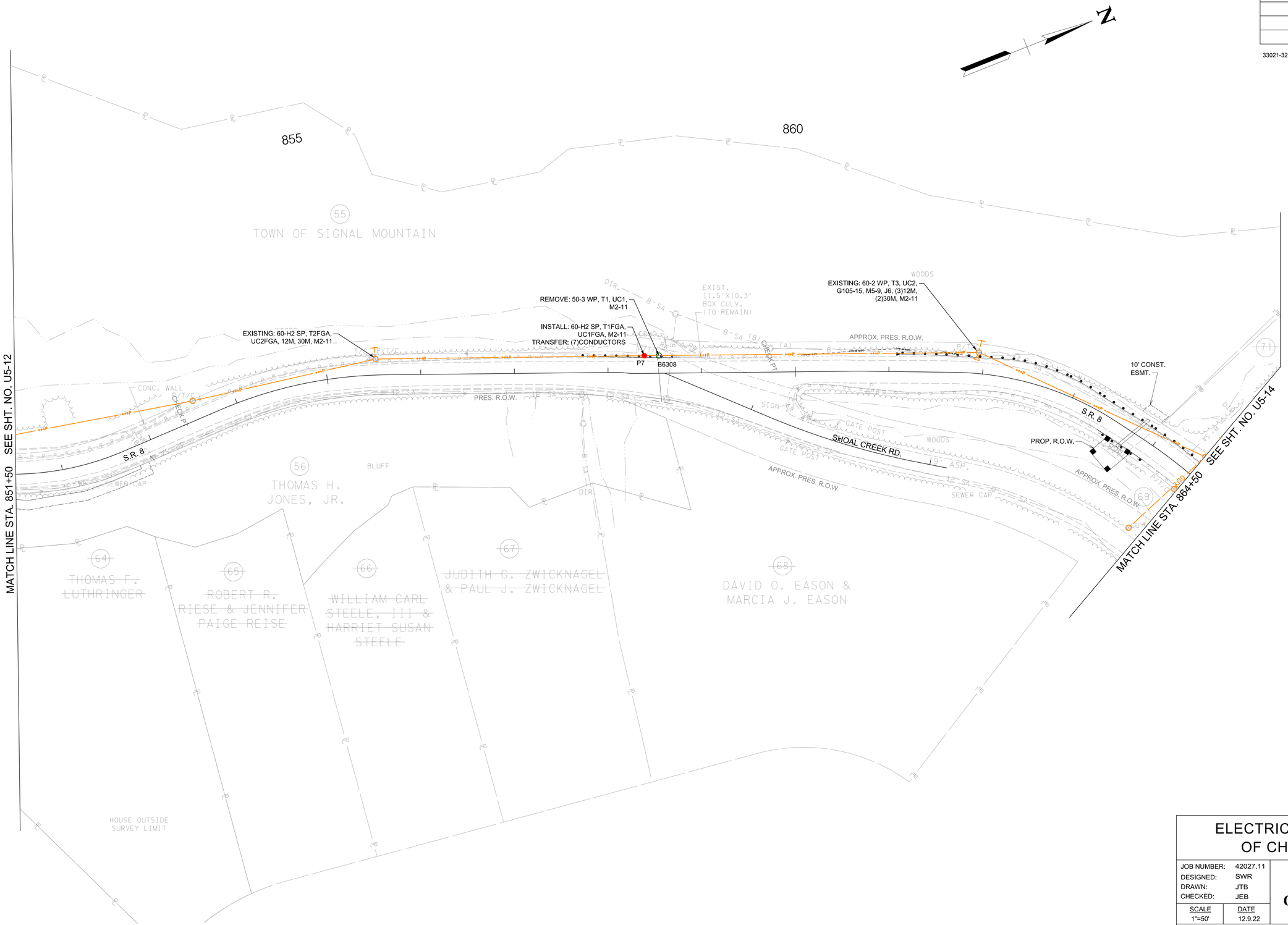
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 838+50 TO STA. 851+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-13

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



Know what's **below.**
Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JEB
SCALE	1"=50'
DATE	12.9.22

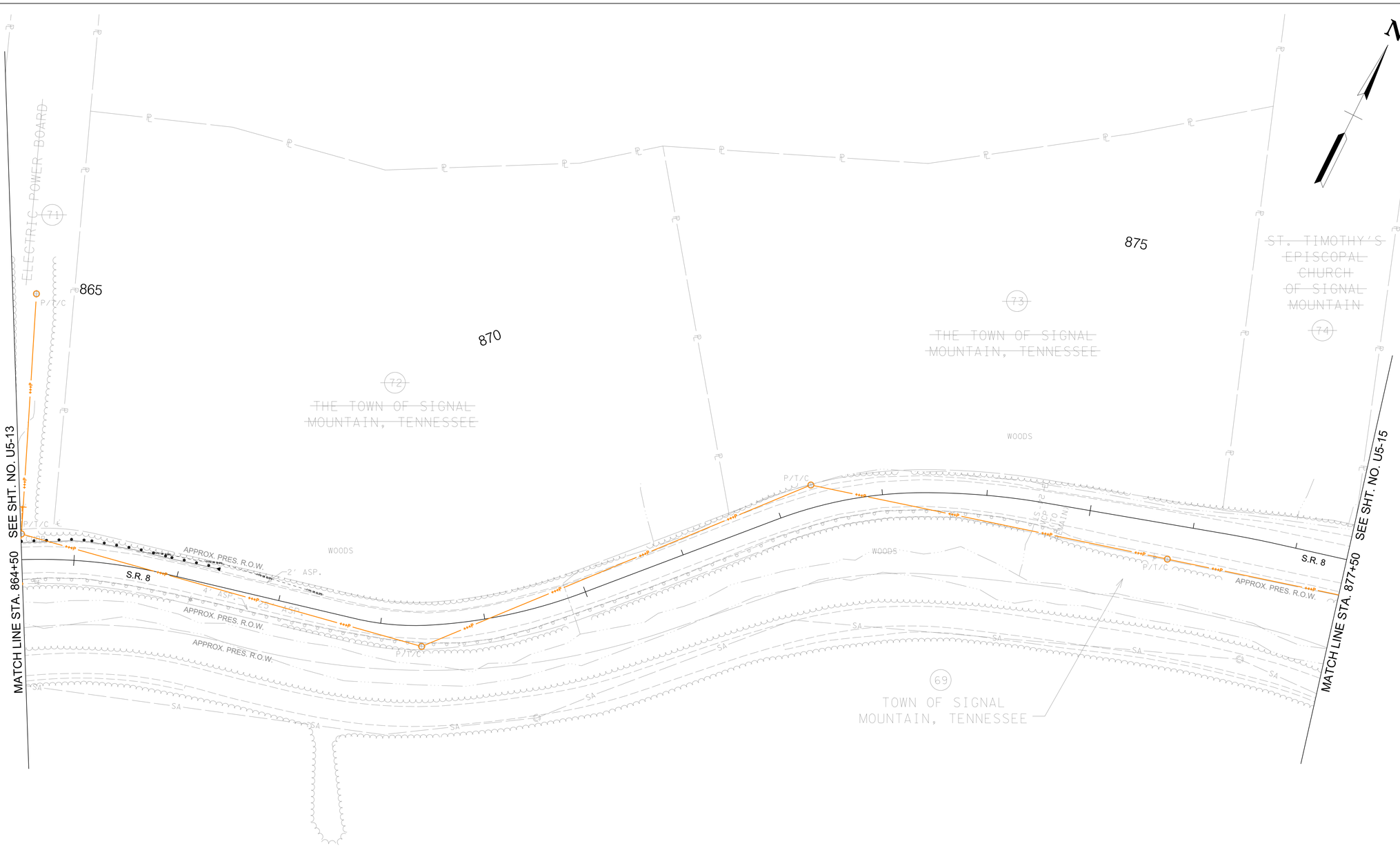
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 851+50 TO STA. 864+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-14

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



NO ELECTRIC UTILITY RELOCATION THIS SHEET

Know what's **below.**
Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JEB
SCALE	DATE
1"=50'	12.9.22

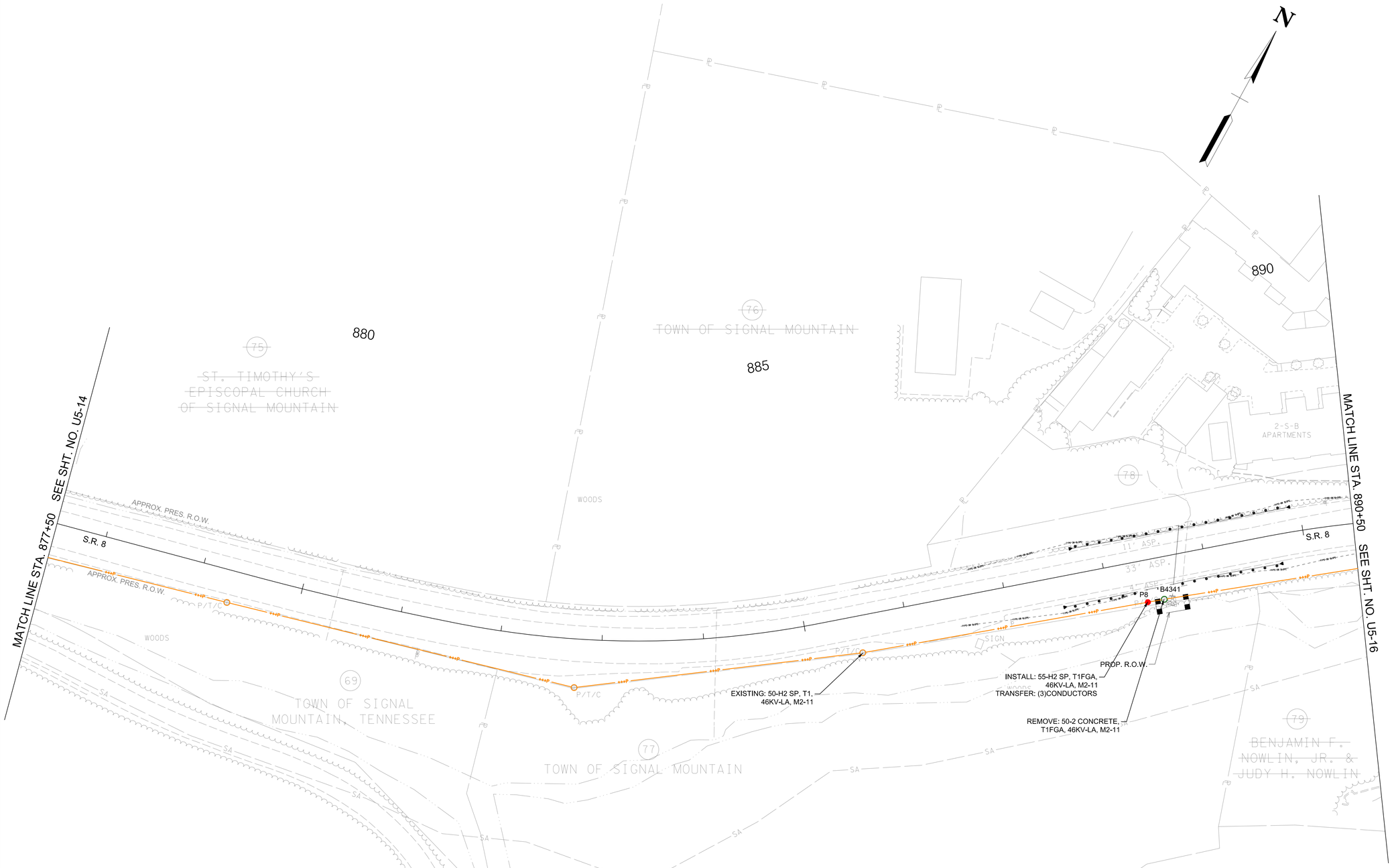
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 864+50 TO STA. 877+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-15

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



811 Know what's below. Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JEB
SCALE	1"=50'
DATE	12.9.22

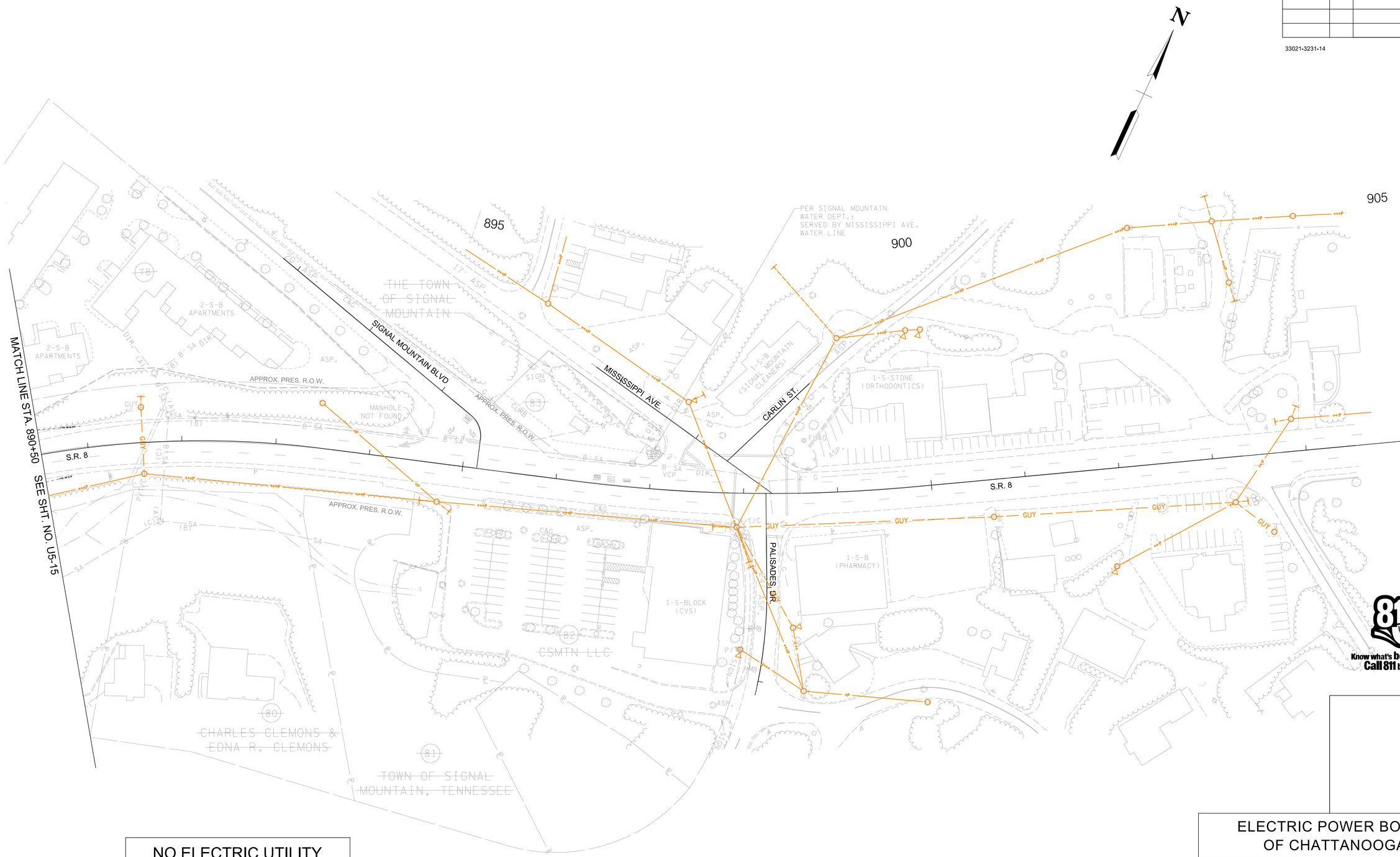
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 877+50 TO STA. 890+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-16

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



Know what's below.
Call 811 before you dig.

NO ELECTRIC UTILITY RELOCATION THIS SHEET

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JEB
SCALE	1"=50'
DATE	12.9.22

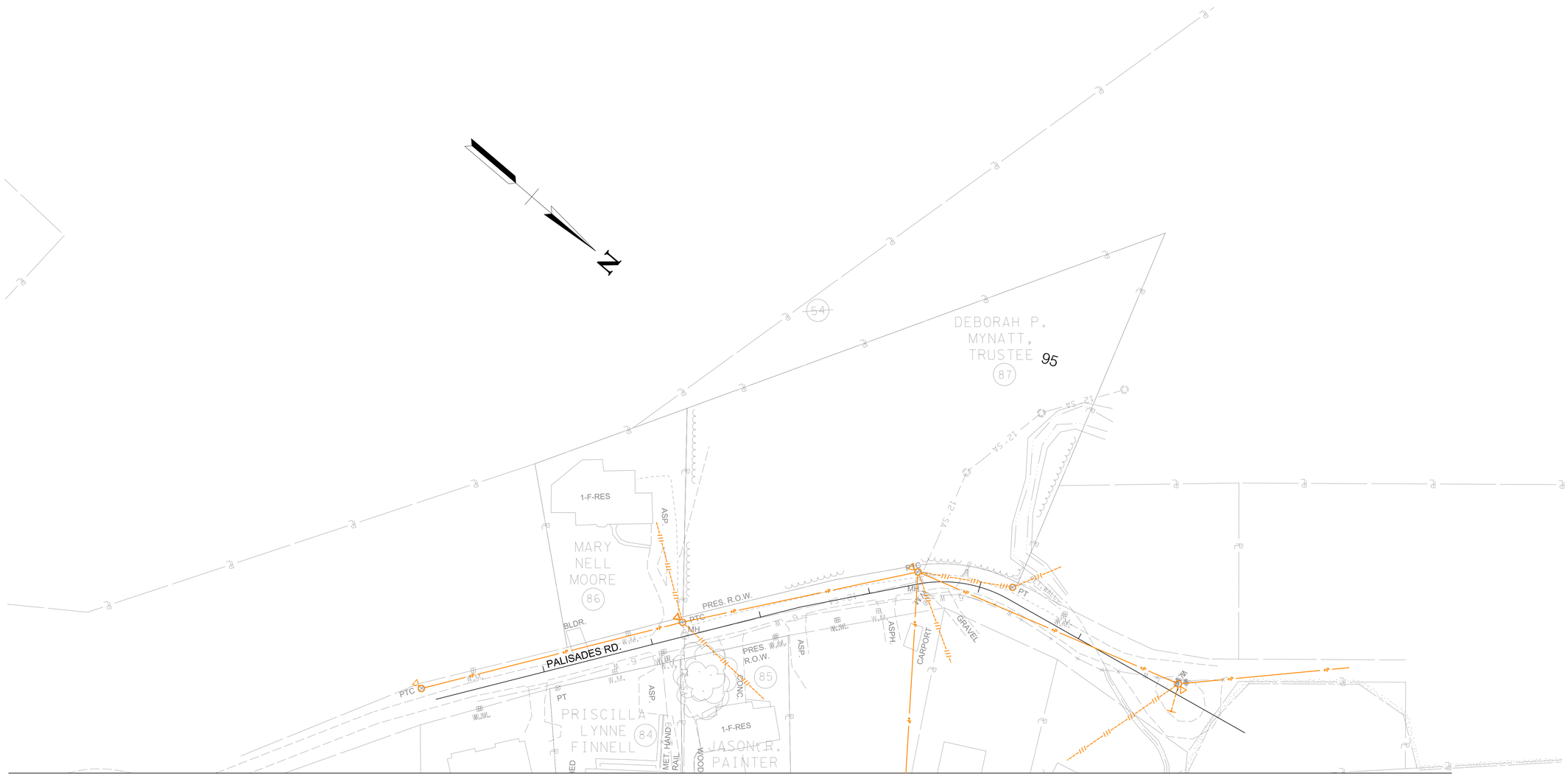
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
STA. 890+50 TO STA. 898+23.78

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-17

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



MATCH LINE SEE SHT. NO'S. U5-10 & U5-11

NO ELECTRIC UTILITY RELOCATION THIS SHEET

811 Know what's below. Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JEB
SCALE	DATE
1"=50'	12.9.22

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
PALISADES ROAD

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-18

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00

INSTALLATION POLE LOCATIONS

POLE NO.	POLE COORDINATES		INSIDE ANCHOR COORDINATES		OUTSIDE ANCHOR COORDINATES	
	NORTHING	EASTING	NORTHING	EASTING	NORTHING	EASTING
P1	281316.12	2164899.86			281328.02	2164908.99
P2	281779.07	2163600.55	281766.11	2163608.1	281782.31	2163615.2
P3	281858.29	2163983			281876.07	2163992.16
P4	282526.81	2163461.88	282535.73	2163479.78	282535.73	2163479.78
P5	282767.5	2163255.68	282783.9	2163267.12	282788	2163269.98
P6	282903.37	2162943.73				
P7	285859.33	2161614.14				
P8	287363.3	2164063.55				

CONDUCTOR INSTALLS

SHEET NUMBER(S)	FROM	TO	WIRE SIZE	CIRCUIT LENGTH (LF)	TOTAL LENGTH (LF)
U5-10	B6545	RES	#2 TRIPLEX	110	110

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JEB

SCALE	DATE
NONE	12.9.22

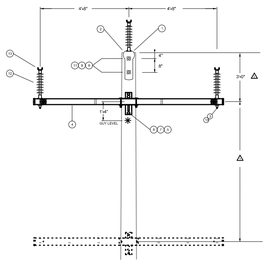
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
POLE LOCATIONS AND CONDUCTOR INSTALLS

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-19

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



△ GENERAL NOTES:

1. DISTANCE SHALL BE SPECIFIED BY ENGINEERING PER REQUIREMENT OF A-4079.
2. ANGLES IN EXCESS OF 2 DEGREES MUST MEET REQUIREMENTS OF A-4290 FOR CONDUCTOR SIZE REQUIRED.
3. WHERE 46/12KV, SPACING IS ADEQUATE AND EXTRA CLEARANCE IS NEEDED TO ROLL FROM FLAT-TO-VERTICAL FRAMING IN LONG SPANS (> 350') SPACING MAY BE INCREASED TO 6'-4".
4. MAXIMUM VERTICAL SPAN (V.S.) FOR THIS STRUCTURE IS:

CONDUCTOR SIZE	V.S. MIN ANGLE	V.S. MAX ANGLE
1033.5 AL	300	250
795 AL	350	300
565.5 AL	450	400

BILL OF MATERIAL

	QTY	DESCRIPTION	ITEM	CU
1.	1	BRACKET • POLE TOP • POST INSULATOR (TRANSM)	I03118	T1FPGA
2.	1	STUD • LINE POST • 3/4" X 1 3/4"	I03119	
3.	2	STUD • LINE POST • 3/4" X 3"	I03117	
4.	1	CROSSARM • FIBERGLASS • 10'-0" HEAVY DUTY WITH GAIN	I08058	
5.	2	BOLT • MACH • GALV • SHSN • 3/4" X 10"	I08548	
6.	2	NUT • LOCKNUT • 5/8"	I03392	
7.	2	WASHER • CURVED • 4" SQ • 13/16" HOLE • GALV STEEL	I03333	
8.	2	NUT • LOCKNUT • 3/4"	I03391	
9.	2	WASHER • CURVED • 2" SQ • 7/8" HOLE • MALLEABLE IRON	I03336	
10.	2	WASHER • SQ FLAT • 4" SQ • 7/8" HOLE • GALV STEEL	I03337	
11.	2	BOLT • MACH • GALV • SHSN • 5/8" X 12"	I03585	
12.	2	INSL • SUSP • POLYMER • 15KV • 15000LB • CLEVIS EYE	I03137	
13.	1	GROUND • #2 CU WITH ROD	I03600	
14.	4	CLEVIS • SHACKLE • ANCHOR • 5/8"	I04204	
15.	4	INSL • SUSP • POLYMER • 15KV • 15000LB • CLEVIS EYE	I03133	
16.	3	SWITCH • DISC • 15KV 900A • UNDERSLUNG WITH LB HOOKS	I00851	
17.	3	ARRESTER•DIST•10KV•#6SOL BASE BRKT•MET OXIDE•PLYMR (FOR N.C. POINT)	I02416	
	6	ARRESTER•DIST•10KV•#6SOL BASE BRKT•MET OXIDE•PLYMR (FOR N.O. POINT)		
18.	30	JUMPER • SAME SIZE AS CONDUCTOR	SPECIFY	
19.	2	LINK • EXTENSION • 12" • FIBERGLASS • 15000 LBS	I00517	
20.	6	CLAMP • D.E. • ST. LINE • W/O SOCKET (TO SUIT)	SPECIFY	
21.	6	CONNECTOR• TERMINAL PAD• 2 HOLE PAD (TO SUIT)	SPECIFY	
22.	2	CLAMP • D.E. • (TO SUIT)	SPECIFY	
23.	1	SIGN • FIBER OPTIC ID TAG ASSY • HOLDER W/PRINTED TAG	M09958	
24.	1	TIES • STRAP PLASTIC • BLACK • LENGTH=13.39"	I03211	

NO	DATE	BY	REVISION

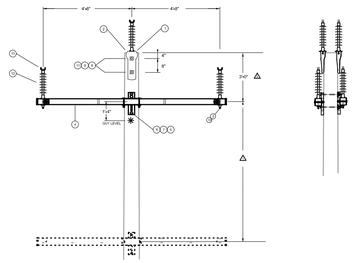
APPROVED:

T1 TRANSMISSION
FIBERGLASS 10' SINGLE ARM
0-2 DEG. ANGLE

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY

NO. T1FGA



△ GENERAL NOTES:

1. DISTANCE SHALL BE SPECIFIED BY ENGINEERING PER REQUIREMENT OF A-4079.
2. ANGLES IN EXCESS OF 7 DEGREES MUST MEET REQUIREMENTS OF A-4290 FOR CONDUCTOR SIZE REQUIRED.
3. WHERE 46/12KV, SPACING IS ADEQUATE AND EXTRA CLEARANCE IS NEEDED TO ROLL FROM FLAT-TO-VERTICAL FRAMING IN LONG SPANS (> 350') SPACING MAY BE INCREASED TO 6'-4".
4. MAXIMUM VERTICAL SPAN (V.S.) FOR THIS STRUCTURE IS:

CONDUCTOR SIZE	V.S. MIN ANGLE	V.S. MAX ANGLE
1033.5 AL	600	500
795 AL	700	600
565.5 AL	900	800

BILL OF MATERIAL

	QTY	DESCRIPTION	ITEM	CU
1.	2	BRACKET • POLE TOP • POST INSULATOR (TRANSM)	I03118	T2FPGA
2.	2	STUD • LINE POST • 3/4" X 1 3/4"	I03119	
3.	4	STUD • LINE POST • 3/4" X 3"	I03117	
4.	2	CROSSARM • FIBERGLASS • 10'-0" HEAVY DUTY WITH GAIN	I08058	
5.	2	BOLT • MACH • GALV • SHSN • 3/4" X 10"	I08548	
6.	2	BOLT • DOUBLE ARMING • 3/4" X 10"	I03392	
7.	2	NUT • LOCKNUT • 5/8"	I03333	
8.	4	NUT • LOCKNUT • 3/4"	I03391	
9.	*	NOT USED	I03336	
10.	2	WASHER • SQ FLAT • 4" SQ • 7/8" HOLE • GALV STEEL	I03337	
11.	2	BOLT • MACH • GALV • SHSN • 5/8" X 12"	I03585	
12.	4	INSL • SUSP • POLYMER • 15KV • 15000LB • CLEVIS EYE	I03133	
13.	1	GROUND • #2 CU WITH ROD	I03600	
14.	4	CLEVIS • SHACKLE • ANCHOR • 5/8"	I04204	
15.	4	INSL • SUSP • POLYMER • 15KV • 15000LB • CLEVIS EYE	I03133	
16.	3	SWITCH • DISC • 15KV 900A • UNDERSLUNG WITH LB HOOKS	I00851	
17.	3	ARRESTER•DIST•10KV•#6SOL BASE BRKT•MET OXIDE•PLYMR (FOR N.C. POINT)	I02416	
	6	ARRESTER•DIST•10KV•#6SOL BASE BRKT•MET OXIDE•PLYMR (FOR N.O. POINT)		
18.	30	JUMPER • SAME SIZE AS CONDUCTOR	SPECIFY	
19.	2	LINK • EXTENSION • 12" • FIBERGLASS • 15000 LBS	I00517	
20.	6	CLAMP • D.E. • ST. LINE • W/O SOCKET (TO SUIT)	SPECIFY	
21.	6	CONNECTOR• TERMINAL PAD• 2 HOLE PAD (TO SUIT)	SPECIFY	
22.	2	CLAMP • D.E. • (TO SUIT)	SPECIFY	
23.	1	SIGN • FIBER OPTIC ID TAG ASSY • HOLDER W/PRINTED TAG	M09958	
24.	1	TIES • STRAP PLASTIC • BLACK • LENGTH=13.39"	I03211	

NO	DATE	BY	REVISION

APPROVED:

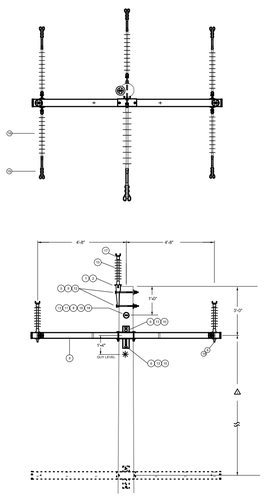
T2 TRANSMISSION
FIBERGLASS 10' DOUBLE ARM
2-7 DEG. ANGLE

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY

NO. T2FGA

FOR USE ON STEEL OR CONCRETE POLES ONLY



GENERAL NOTES:

1. DISTANCE SHALL BE SPECIFIED BY ENGINEERING PER REQUIREMENT OF A-4079.
2. ANGLE STRUCTURES MUST MEET REQUIREMENTS OF A-4290 (FIBERGLASS DEARM).
3. WHERE 46/12KV SPACING IS ADEQUATE AND EXTRA CLEARANCE IS NEEDED TO ROLL FROM FLAT TO VERTICAL FRAMING IN LONG SPANS (>350'), SPACING MAY BE INCREASED TO 6'-4".
4. AT PULL POINTS W/ FIBERGLASS ARM ASSEMBLY TEMPORARILY STRAINED IN ONE DIRECTION AIR AT SINGLE DEADENDS, THE FIBERGLASS ARM SHOULD BE ON THE BACK SIDE OF THE POLE (OPPOSITE TO THE CONDUCTOR STRAIN).

BILL OF MATERIAL

	QTY	DESCRIPTION	ITEM	CU
1.	1	BRACKET • POLE TOP • POST INSULATOR (TRANSM)	I03118	DCSPGA
2.	1	STUD • LINE POST • 3/4" X 1 3/4"	I03119	
3.	2	STUD • LINE POST • 3/4" X 7"	I03115	
4.	1	CROSSARM • FIBERGLASS• 10'-0" HEAVY DUTY WITH GAIN	I08058	
5.	2	BOLT • MACH • GALV • SHSN • 3/4" X 10"	I08548	
6.	2	BOLT • MACH • GALV • SHSN • 3/4" X 15"	I08549	
7.	1	NOT USED	-	-
8.	1	BOLT • EYE • SHOULDER 2" X 1/4"	I08400	
9.	3	NUT • LOCKNUT • 5/8"	I03392	
10.	1	NUT • LOCKNUT • 3/4"	I03391	
11.	2	NUT • CHALEYE • 3/4"	I03390	
12.	1	WASHER • CURVED • 2" SQ • 7/8" HOLE • MALLEABLE IRON	I03336	
13.	4	WASHER • SQ FLAT • 4" SQ • 7/8" HOLE • GALV STEEL	I03337	
14.	2	BOLT • MACH • GALV • SHSN • 5/8" X 12"	I03585	
15.	4	INSL • SUSP • POLYMER • 15KV • 15000LB • CLEVIS EYE	I03133	
16.	1	GROUND • #2 CU WIROD	I03600	
17.	1	CLAMP • LINE POST • (TO SUIT)	SPECIFY	
18.	6	CLAMP • D.E. • ST. LINE • W/O SOCKET • (TO SUIT)	SPECIFY	

NO	DATE	BY	REVISION

APPROVED:

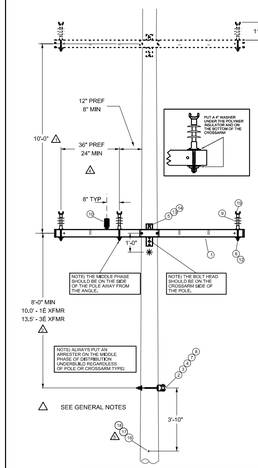
T8 TRANSMISSION
HORIZONTAL DOUBLE DEADEND
WITH FIBERGLASS CROSSARM

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY

NO. T8FGA

FOR USE ON STEEL OR CONCRETE POLES ONLY



△ GENERAL NOTES:

1. 10' PREFERRED MINIMUM, ENGINEERING TO SPECIFY SEPARATION FOR LONG SPANS (> 300') PER REQUIREMENTS OF A-4079.
2. 8' PREFERRED MINIMUM, SEE A-4385 TO DECREASE 9FOR SHORT SPANS) OR INCREASE (FOR LONG SPANS: > 300'), ALLOW 10' FOR A SINGLE PHASE TRANSFORMER AND 13.5' FOR A THREE PHASE TRANSFORMER BANK.
3. UNDERBUILD CROSSARM ASSEMBLY VERTICAL SPAN (V.S.) LIMITS:

CONDUCTOR SIZE	V.S. MIN ANGLE	V.S. MAX ANGLE
336 AL	575	525
556 AL	400	360
795 AL	300	275
1033 AL	250	225
MAX ANGLE *	2 DEG.	

* REFER TO A-4290 FOR MAXIMUM LINE ANGLES TO TURN ON INSULATORS.

4. MAXIMUM SPAN LENGTH:

HORIZONTAL SEPARATION (IN)	MAX SPAN (FT) (ON ANGLES UP TO 45 DEG)
36	450
30**	350
24	200

** OUTSIDE PHASE MAY BE MOVED 6" TOWARD MIDDLE PHASE (TO GET CLEARANCE TO FIGERGLASS GUY STRAIN INSULATORS.)

5. INSTALL EYE BOLT AND FIBER TAG TO RESERVE LOCATION FOR FUTURE FIBER OPTIC CABLE.

BILL OF MATERIAL

	QTY	DESCRIPTION	ITEM	CU
1.	1	CROSSARM • FIBERGLASS • 10'-0" HEAVY DUTY W/ GAIN	I08058	DC1UFGA
2.	1	BOLT • MACH • GALV • SHSN• Ø" X 12"	I08588	
3.	1	WASHER • CURVED • 3" SQ • 7/8" HOLE • MALLEABLE IRON	I03336	
4.	1	NUT • LOCKNUT • Ø"	I03392	
5.	2	BOLT• MACH • GALV • SHSN • Ø" X 16"	I08595	
6.	3	STUD • LINE POST • Ø" X 7"	I03117	
7.	1	CLEVEL • SECONDARY (NO INS)	I04425	
8.	1	INSL • SPOOL • SECONDARY • PORC • GRAY	I01444	
9.	3	INSL • POST TYPE • 15KV VERT • POLYMER • CITOP	I01560	
10.	1	ARRESTER • DIST • 10KV • INSUL BASE BRKT • METAL OXIDE • PDV	I02445	GAL10MOV
11.	1	STUD • LINE POST • Ø" X 16"	I03116	
12.	6	WASHER • SQ FLAT • 4" SQ • Ø" HOLE • GALV STEEL	I03337	
13.	2	WASHER • CURVED • 4" SQ • Ø" HOLE • MALLEABLE IRON	I03333	
14.	2	NUT • LOCKNUT • Ø"	I03391	
15.	3	CLAMP • LINE POST (TO SUIT)	SPECIFY	
16.	1	BOLT • EYE • OVAL • Ø" X 14"	I06693	
17.	1	SIGN • FIBER OPTIC ID TAG ASSY • HOLDER W/PRINTED TAG	M09958	
18.	1	TIES • STRAP PLASTIC • BLACK • LENGTH=13.39"	I03211	

NO	DATE	BY	REVISION

APPROVED:

UC1-FG DISTRIBUTION UNDERBUILD
ON 46KV STEEL OR CONCRETE POLE
SINGLE 10' FIBERGLASS ARM
ALL CONDUCTOR SIZES

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY

NO. A-5912 UC1FGA



FOR USE ON STEEL OR CONCRETE POLES ONLY

GENERAL NOTES △

1. THIS DISTANCE IS VALID FOR THE HORIZONAL SPANS (H.S.) (& THE ASSOCIATED RUILNG SPANS) LISTED BELOW:

MAX H.S.	RUILNG SPAN
300	= ± 272'
400	271'-370'
500	>370'

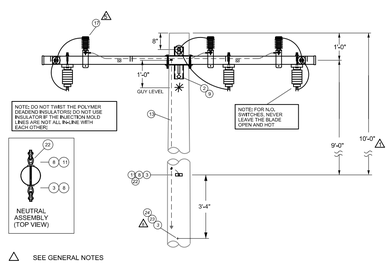
MINIMUM DISTANCE ALLOWED: 7'-6"
USE THE FOLLOWING RULE FOR INCREASING/DECREASING SEPARATION DISTANCE:
1' PER 50' OF (INCREASING/DECREASING) SPAN LENGTH.

FOR CASES WHERE THE MINIMUM DISTANCE CANNOT BE OBTAINED SEE A-4385.

2. MAXIMUM CONDUCTOR SIZE FOR THIS STRUCTURE IS 1033.5 AL.
3. FOR MAXIMUM ANGLE THAT CAN BE TURNED ON DOUBLE DEADENDS SEE A-4290, BI-SECT THE ANGLE WITH THE ARM OR USE ONLY ½ OF THE ALLOWABLE ANGLE SHOWN IN A-4290, (i.e. THE ARM MAY BE BACKING UP A STRAIGHT SECTION OF LARGE CONDUCTOR AND A SMALLER CONDUCTOR PULLS OF THE BACK SIDE AT AN ANGLE.) MAX IS ½ THE ALLOWABLE ANGLE PER SIDE.
4. CROSSARM ASSEMBLY LIMITS: MAX. VERTICAL SPAN (V.S.) (TOTAL-BOTH SIDES).

CONDUCTOR SIZE	1033.5 AL	795 AL	556.5 AL	336 AL
V.S. (MIN ANGLE)	700	725	900	1300

5. INSTALL (3) ARRESTERS ON THE SOURCE SIDE FOR NORMALLY CLOSED SWITHCES. INSTALL (6) ARRESTERS FOR NORMALLY OPEN SWITHCES. (CU = DAL10MOV)
6. MAXIMUM RUILNG SPAN = 500' FOR 556.5 AL AND 300' FOR 1033.5 AL, FOR 1033.5 AL RUILNG SPANS 350' AND ABOVE, SUBSTITUTE THE DOUBLE 10' HEAVY DUTY ARMS WITH DOUBLE HEAVY DUTY DEAD END ARMS, CALL FOR DC10DFGDE.
7. INSTALL EYE BOLT AND FIBER TAG TO RESERVE LOCATION FOR FUTURE FIBER OPTIC CABLE.



△ SEE GENERAL NOTES

BILL OF MATERIAL

	QTY	DESCRIPTION	ITEM	CU
1.	2	CROSSARM • FIBERGLASS • 15'-0" HEAVY DUTY WITH GAIN	I08059	
2.	1	BOLT• MACH • GALV • SHSN • Ø" X 16"	I08548	
3.	2	BOLT • OVAL EYE• Ø" X 12"	I08592	
4.	1	BOLT • OVAL EYE • Ø" X 16"	I08594	
5.	4	BOLT • DOUBLE ARMING • Ø" X 22"	I08597	
6.	14	WASHER • SQ FLAT •4" SQ • 7/8" HOLE • GALV STEEL	I03337	
7.	*	NOT USED	-	
8.	4	WASHER • CURVED • 3" SQ • 7/8" HOLE • MALLEABLE IRON	I03336	
9.	12	NUT • LOCKNUT • Ø"	I03391	
10.	2	NUT • LOCKNUT • Ø"	I03392	
11.	1	NUT • OVAL EYE • Ø"	I03366	
12.	3	NUT • OVAL EYE • Ø"	I03368	
13.	1	GROUND • #2 CU WITH ROD	I03600	
14.	6	CLEVIS • SHACKLE • ANCHOR • Ø"	I04204	
15.	6	INSL • SUSP • POLYMER • 15KV • 15000LB • CLEVIS EYE	I03133	
16.	3	SWITCH • DISC • 15KV 900A • UNDERSLUNG WITH LB HOOKS	I00851	
17.	3	ARRESTER•DIST•10KV•#6SOL BASE BRKT•MET OXIDE•PLYMR (FOR N.C. POINT)	I02416	
	6	ARRESTER•DIST•10KV•#6SOL BASE BRKT•MET OXIDE•PLYMR (FOR N.O. POINT)		
18.	30	JUMPER • SAME SIZE AS CONDUCTOR	SPECIFY	
19.	2	LINK • EXTENSION • 12" • FIBERGLASS • 15000 LBS	I00517	
20.	6	CLAMP • D.E. • ST. LINE • W/O SOCKET (TO SUIT)	SPECIFY	
21.	6	CONNECTOR• TERMINAL PAD• 2 HOLE PAD (TO SUIT)	SPECIFY	
22.	2	CLAMP • D.E. • (TO SUIT)	SPECIFY	
23.	1	SIGN • FIBER OPTIC ID TAG ASSY • HOLDER W/PRINTED TAG	M09958	
24.	1	TIES • STRAP PLASTIC • BLACK • LENGTH=13.39"	I03211	

NO	DATE	BY	REVISION

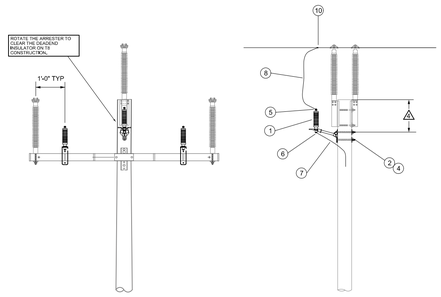
APPROVED:

C8 FRAMING WITH 10' FIBERGLASS CROSSARMS
AND (3) 900 AMP USD

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY

NO. A-6027 900A-USD



GENERAL NOTES:

△
1. USE #2 SD CU EXTERNAL GROUND OR USE INTERNAL GROUND PROVIDED ON CONCRETE POLES. (STEEL POLE HAVE GROUND LUGS AT SEVERAL DIFFERENT LEVELS (2', 6', 10', 14', 18' FROM THE TOP) FOR GROUND LEAD ATTACHMENTS)
2. ARRESTER MIDDLE PHASE ON CROSSARM UNDERBUILD, ARRESTER ALL PHASES ON VERTICAL UNDERBUILD, ARRESTER ALL PHASES ON BUCKARM UNDERBUILD WHERE 2 DIFFERENT PHASES ARE IN THE MIDDLE (POLE)POSITION
3. FOR 46KV ARRESTERS USE THE FOLLOWING CENTERBOLT CONNECTORS:

CONDUCTOR SIZE	ARRESTER LEAD	BIN #	CU
1/0 AL/CU - 4/0AL/CU	1/0 AL	A0114	TCPG1B24
1/0 AL - 4/0AL	1/0 AL	A0203	TCPG1B08
336 - 1033AL	1/0 AL	A0111	TCPG1B13

4. TYPICAL LOCATION OF ARRESTER, PREDRILLED HOLES ARE PROVIDED ON CONCRETE POLES AT 20" & 28" FROM THE POLE TOP, (16" AND 24" FROM THE TOP ON STEEL POLES,
5. FOR 4KV AND 12KV ARRESTERS USE THE FOLLOWING CENTERBOLT CONNECTORS:

CONDUCTOR SIZE	ARRESTER LEAD	BIN #	CU
1/0 AL/CU - 4/0AL/CU	#6 WPCU	A0114	DCPG1B24
336 - 1033AL	#6 WPCU	A0114	DCPG1B13

BILL OF MATERIAL

	QTY	DESCRIPTION	ITEM	CU
1.	3	ARRESTER • DIST • 36KV • INSUL BASE BRKT • METAL OXIDE • PDV	M13408	
2.	2	BOLT • MACH • GALV• SHSN• Ø" X 12"	I08588	
3.	1	BRACKET • CO & ARR 24" FIBERGLASS • SINGLE PHASE	I04476	
4.	2	WASHER • CURVED • 3" SQ • 13/16" HOLE • MALLEABLE IRON	I03336	
5.	3	TERMINAL • END • HYLUG • #1/0 CU • 1PH PAD (3/8" STUD)	M09052	
6.	3	TERMINAL • END • HYLUG • #2 CU • 1PH PAD (5/16" STUD)	M09046	
7.	9	WIRE • CU SD8 • #2 (7)STRAND	J03380	
8.	9	COND • BARE • OVERHEAD • AL • #1/0 AWG • 7 STRAND	J03104	
9.	1	GROUND • #2 CU • WIROD	-	TCGWR
10.	3	CONN TO SUIT	-	-

NO	DATE	BY	REVISION

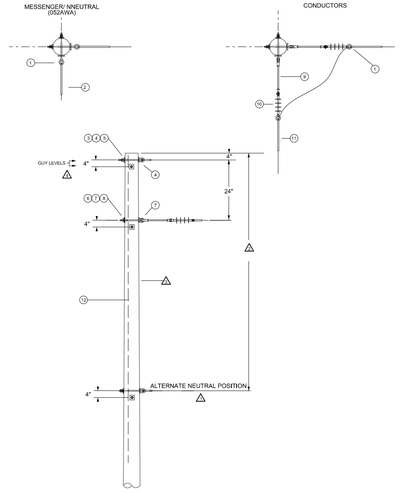
APPROVED:

46KV LIGHTNING ARRESTERS

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY

NO. A- 46KV-LA



△ GENERAL NOTES:

1. ALTERNATE LOCATION FOR NEUTRAL 8" NEUTRAL IN NOT TO BE INSTALLED IN MESSENGER POSITION, SPECIFY DIA1/4P (QTY: 2) FOR THIS 1 UNIT 4" SUSP.INSULATOR W/ EYE BOLT ASSEMBLY,.
2. 10' FOR 40' POLE; 8' FOR 40' POLE WHEN NEUTRAL IS FRAMED IN ALTERNATE POSITION.
3. USE CLASS 2 POLE MINIMUM FOR ANY DEADEND POLE FRAMED FOR AERIAL CABLE..
4. GUYING(FOR OS2AWA MESSENGER GUY FOR 10,000 LBS (6000 X 1.65), ALL GUY ATTACHMENTS ARE TO BE LOCATED AT OR NEAR THE MESSENGER ATTACHMENTS, FOR DEADENDS THIS WILL REQUIRE (2) 12M GUYS AND (1) ANR ANCHOR FOR NORMAL LEAD-TO-WEIGHT RATIOS, IN AREAS SUCH AS THE MOUNTAINS WHERE ANCHORS ARE SET SHALLOW DUE TO UNDERLYING ROCK OR WHERE ROCK ANCHORS ARE USED, DESIGN FOR 1 GUY PER 24M ANCHOR WITH A MINIMUM ANCHOR SPACING OF APPROX. 3 FT.

BILL OF MATERIAL

	QTY	DESCRIPTION	ITEM	CU
1.	4	CLEVEL • THIMBLE • LARGE • FOR PREFORMED DEADENDS	I03349	CHCAAP
2.	2	ASPMC CABLE - DEADEND - PREFORMED - FOR 0S2AWA MESSENGER	I09465	
3.	2	BOLT • EYE • OVAL • 3/4" X 12"	I09046	
4.	4	WASHER • CURVED • 3" SQ • 13/16" HOLE • GALV STEEL	I03333	
5.	2	NUT • LOCKNUT • 3/4"	I03391	
6.	2	BOLT • EYE • OVAL • 5/8" X 12"	I09092	
7.	4	WASHER • CURVED • 2" SQ • 11/16" HOLE • MALLEABLE IRON	I03336	
8.	2	NUT • LOCKNUT • 5/8"	I03392	
9.	2	LINK • EXTENSION • 12" • FIBERGLASS • 15000 LBS	I00517	
10.	2	INSL • SUSP • POLYMER • 15KV • 15000 LB • CLEVIS EYE	I01133	
11.	2	ASPMC CABLE - DEADEND - PREFORMED (TO SUIT CONDUCTOR)	SPECIFY	
12.	1	GROUND "8" CONFLETE	SPECIFY	

NO	DATE	BY	REVISION

APPROVED:

ACA4F DISTRIBUTION
SINGLE PHASE AERIAL CABLE
DOUBLE DEADEND

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY

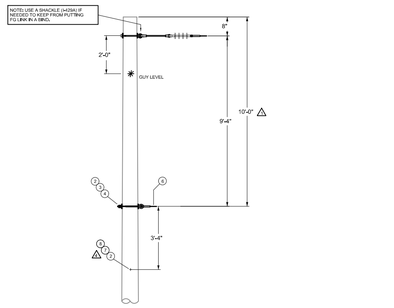
NO. ACA4F

ELECTRIC POWER BOARD OF CHATTANOOGA

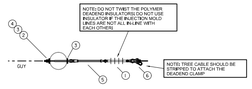
JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JEB
SCALE	NONE
DATE	12.9.22

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION CONSTRUCTION DETAILS



△ SEE GENERAL NOTES



△ GENERAL NOTES:

1. THIS DISTANCE IS BASED ON A 45' JOINT USE POLE AND IS VALID FOR SPANS UP TO 450'.
(MIN. DISTANCE ALLOWED: 7'-6" AT A MAX. HORIZONTAL SPAN OF 300')
USE THE FOLLOWING RULE FOR INCREASING/DECREASING SEPARATION DISTANCE:
1' PER 50' OF (INCREASING/DECREASING) SPAN LENGTH.

   FOR CASES WHERE THE MINIMUM DISTANCE CANNOT BE OBTAINED SEE A-4384.

2. MAXIMUM CONDUCTOR SIZE FOR THIS STRUCTURE IS 4/0AL/ACSR.

3. INSTALL ARRESTER IF NO ARRESTERED DEVICES SUCH AS A TRANSFORMER ARE AT THE STRUCTURE.

4. INSTALL EYE BOLT AND FIBER TAG TO RESERVE LOCATION FOR FUTURE FIBER OPTIC CABLE.

BILL OF MATERIAL

	QTY	DESCRIPTION	ITEM	CU
1.	1	INSL - SUSP - POLYMER - 15KV - 15000 LB - CLEVIS EYE	I0133	DAS
2.	4	BOLT - EYE - OVAL - Ø " x 13"	I0692	
3.	4	WASHER - CURVED - 2" SQ. x Ø" HOLE - MALLEABLE IRON	I0336	
4.	2	NUT - LOCKNUT - Ø"	I0392	
5.	1	LINK - EXTENSION - 12" FIBERGLASS - 15000 LBS	I0857	
6.	2	CLAMP - DJE, ST. LINE - W/O SOCKET (TO SUIT)	SPECIFY	
7.	1	SIGN - FIBER OPTIC ID TAG ASSY - HOLDER W/PRINTED TAG	M0056	
8.	1	TIES - STRAP PLASTIC - BLACK - LENGTH=13.38"	I0321	

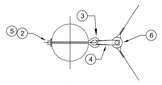
NO	DATE	BY	REVISION

APPROVED:

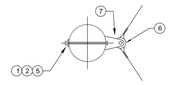
A5 DISTRIBUTION SINGLE PHASE SMALL CONDUCTOR DEADEND

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY	NO. A-4547	A5



J6



J10

NOTE:
FOR SIDED STEEL POLES USE FLAT WASHERS.

BILL OF MATERIAL

	DESCRIPTION	J6	J10
1.	BOLT - MACHINE - Ø" X REQUIRED LENGTH		1
2.	WASHER - SQ FLAT - 3" SQ - Ø" HOLE - GALV STEEL		
3.	BOLT - EYE - OVAL - Ø" X REQUIRED LENGTH	1	
4.	CLEVIS - SECONDARY SWINGING (NO INS)	1	
5.	LOCKNUT- Ø"	1	1
6.	INSL - SPOOL - SECONDARY	1	1
7.	BRACKET - CLEVIS		1
8.	WASHER - CURVED - 3" SQ - Ø" HOLE - MALLEABLE IRON	1	1

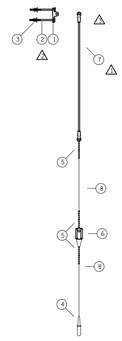
NO	DATE	BY	REVISION

APPROVED:

NEUTRAL AND SECONDARY ASSEMBLIES

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY	NO. A-	J6, J10



△ SEE GENERAL NOTES

GENERAL NOTES

1. TO SPECIFY ADDITIONAL LINKS USE:
   DIG54WF8, TIG54WF8 FOR 54" FG LINKS.
   DIG144WF8,TIG144WF8 FOR 144" LINKS.

   THESE ASSEMBLIES FOR ADDITIONAL LINKS INCLUDE THE FIGURE 8 STEEL LINKS (ITEM I0370) USED TO CONNECT FG LINKS TOGETHER.

   FOR GUIDELINES IN SPECIFYING OR INSTALLING GUY INSULATORS SEE DWGS A-4538 AND A-4539.

   FOR FIGURE 2 ASSEMBLY WITH 144" LINK (INSTEAD OF 54") SPECIFY: DGD12PFL -OR- TGD12PFL.

2. USE 3/4" BOLTS WHEN ATTACHING ANY GUY HOOK OR POLE EYE PLATE TO POLE.

3. DO NOT PLACE ANY FG LINKS IN A BIND. USE EITHER A SHACKLE CLEVIS (ITEM I0429A) OR A DOUBLE 90° CLEVIS (ITEM I0345) TO CONNECT FG LINK TO POLE EYE PLATE (ITEM I0424), AS NEEDED.

#	QTY	DESCRIPTION	ITEM	CU
1	1	ATTACHMENTS-GUY-POLE EYE PLATE	I0424	DGD12PF
2	2	BOLT-MACH-GALV-SHSN-3/4"X14"	I0641	-OR-
3	2	WASHER-CURVED-4"SQ-13/16" HOLE-MALLEABLE IRON	I0333	TGD12PF
4	1	DEADEND-AUTOMATIC-BAIL RIGID-3/8" STEEL STRAND	I0405	
5	3	DEADEND-PREFORMED-GUY,STEEL STRAND 3/8"	I0454	
6	1	INSL-GUY STRAIN-12000 LBS- 4" PORC-BROWN OR GRAY	I0142	
7	1	INSL-GUY STRAIN-21000 LBS- 54" FIBERGLASS	I0860	
8	35	WIRE-GUY-GALV,STEEL-3/8" (7) STRAND (12M)	I0822	

(55' OF GUY WIRE IN TGD12PF)

NO	DATE	BY	REVISION

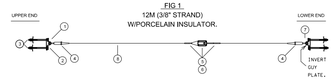
APPROVED:

STANDARD GUY ASSEMBLY 12M (3/8") GALV. DOWN GUY

DISTRIBUTION STANDARDS & DESIGN

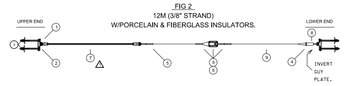
DATE	DRAWN BY	CHECKED BY	NO. A-3090	12M

FIG 1.
12M (3/8" STRAND)
W/PORCELAIN INSULATOR.



#	QTY	DESCRIPTION	ITEM	CU
1	2	ATTACHMENTS-GUY-POLE EYE PLATE	I0424	DGS12P
2	4	BOLT-MACH-GALV-SHSN-3/4"X14"	I0641	-OR-
3	4	WASHER-CURVED-4"SQ-13/16" HOLE-MALLEABLE IRON	I0333	TGS12P
4	2	DEADEND-AUTOMATIC-BAIL RIGID-3/8" STEEL STRAND	I0405	
5	2	DEADEND-PREFORMED-GUY,STEEL STRAND 3/8"	I0454	
6	1	INSL-GUY STRAIN-12000 LBS- 4" PORC-BROWN OR GRAY	I0142	
7	2	CLEVIS-SHACKLE-ANCHOR 1/2"	I0429A	
8	△	WIRE-GUY-GALV,STEEL-3/8" (7) STRAND (12M)	I0822	

FIG 2.
12M (3/8" STRAND)
W/PORCELAIN & FIBERGLASS INSULATORS.



#	QTY	DESCRIPTION	ITEM	CU
1	2	ATTACHMENTS-GUY-POLE EYE PLATE	I0424	DGS12P
2	4	BOLT-MACH-GALV-SHSN-3/4"X14"	I0641	-OR-
3	4	WASHER-CURVED-4"SQ-13/16" HOLE-MALLEABLE IRON	I0333	TGS12P
4	1	DEADEND-AUTOMATIC-BAIL RIGID-3/8" STEEL STRAND	I0405	
5	3	DEADEND-PREFORMED-GUY, STEEL STRAND 3/8"	I0454	
6	1	INSL-GUY STRAIN-12000 LBS- 4" PORC-BROWN OR GRAY	I0142	
7	1	INSL-GUY STRAIN-21000 LBS- 54" FIBERGLASS	I0860	
8	1	CLEVIS-SHACKLE-ANCHOR 1/2"	I0429A	
9	△	WIRE-GUY-GALV,STEEL-3/8" (7) STRAND (12M)	I0822	

△ GENERAL NOTES
1. TO SPECIFY ADDITIONAL LINKS USE:
   DIG54WF8, TIG54WF8 FOR 54" FG LINKS.
   DIG144WF8,TIG144WF8 FOR 144" LINKS.

   THESE ASSEMBLES FOR ADDITIONAL LINKS INCLUDE THE FIGURE 8 STEEL LINK (ITEM I0370) USED TO CONNECT FG LINKS TOGETHER.

   FOR GUIDELINES IN SPECIFYING OR INSTALLING GUY INSULATORS SEE DWGS A-4538 AND A-4539.

   FOR FIGURE 2 ASSEMBLY WITH 144" LINK (INSTEAD OF 54") SPECIFY: DGD12PFL -OR- DGS12PFL.

2. USE 3/4" BOLTS WHEN ATTACHING ANY GUY HOOK OR POLE EYE PLATE TO POLE.

3. DO NOT PLACE ANY FG LINKS IN A BIND. USE EITHER A SHACKLE CLEVIS (ITEM I0429A) OR A DOUBLE 90° CLEVIS (ITEM I0345) TO CONNECT FG LINK TO POLE EYE PLATE (ITEM I0424), AS NEEDED.

4. SPECIFY THE LENGTH OF THE SPAN GUY WHEN USING THIS ASSEMBLY.

NO	DATE	BY	REVISION

APPROVED:

STANDARD GUY ASSEMBLY 12M (3/8") GALV. SPAN GUY

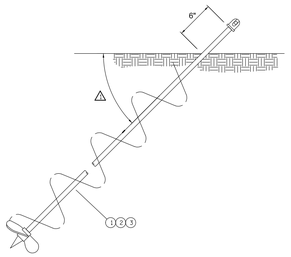
DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY	NO. A-3093	12M-SG

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-20

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



GENERAL NOTES:

△ 1. THIS ANGLE DETERMINED BY ATTACHMENT POINT OF GUY ON POLE, ANCHOR ROD SHOULD BE INLINE WITH GUY WIRE.

BILL OF MATERIAL

#	QTY	SIZE 12M	SIZE 24M	SIZE 36M	DESCRIPTION	ITEM
1	1				ANCHOR - SCREW TYPE - 8" DIA. WITH 8' X 7'-0" TWINEYE ROD	I0833A
					12MLB, 12,000# RATING IN CLASS 5 SOIL	
2			1		ANCHOR - SCREW TYPE - 14" DIA. WITH 1" X 7'-0" TRIPLEYE ROD	I0890
					24MLB, 24,000LB RATING IN CLASS 5 SOIL	
3				1	ANCHOR - SCREW TYPE - 10" & 12" DOUBLE WITH TRIPLEYE ADAPTER	I0891
					36MLB, 36,000LB RATING IN CLASS 5 SOIL	

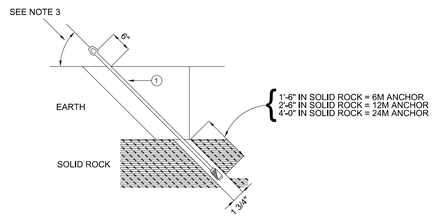
NO	DATE	BY	REVISION

APPROVED:

ANCHOR ASSEMBLIES 12M, 24M, 36M ANCHORS

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY	NO. A-3090	12M,24M,36M



GENERAL NOTES
1. DO NOT ANCHOR TO ANY BOULDER MEASURING LESS THAN 5 FT IN TWO DIRECTIONS AT RIGHT ANGLES TO EACH OTHER.
2. IN CRUMBLY ROCK USE CONCRETE TO GROUT ANCHOR.
3. THIS ANGLE DETERMINED BY ATTACHMENT POINT OF GUY ON POLE. ANCHOR ROD SHOULD BE IN LINE WITH GUY WIRE.

BILL OF MATERIAL

#	QTY	DESCRIPTION	BIN
1	1	ANCHOR , ROCK 1 3/4" WITH Ø" X X 30" TRIPLEYE ROD	I834
		ANCHOR , ROCK 1 3/4" WITH Ø" X X 53" TRIPLEYE ROD	I838
		ANCHOR , ROCK 1 3/4" WITH Ø" X X 72" TRIPLEYE ROD	I839
		ANCHOR , ROCK 1 3/4" WITH Ø" X X 96" TRIPLEYE ROD	I837

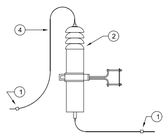
NO	DATE	BY	REVISION

APPROVED:

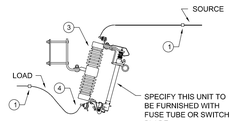
ANCHOR ASSEMBLIES ROCK ANCHOR

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY	NO. A-3090	24M-R



VM5-6



VM5-9

BILL OF MATERIAL

	DESCRIPTION	M5-6	M5-9
1.	CLAMP - HOT LINE	2	2
2.	ARRESTOR - 9KV	1	
3.	CUTOUT - SINGLE PHASE		1
4.	WIRE - #6 S.D.CU	6	10

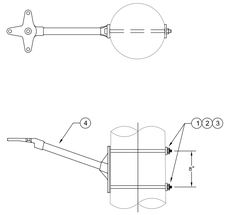
NO	DATE	BY	REVISION

APPROVED:

MISCELLANEOUS PRIMARY ASSEMBLIES

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY	NO. A-	M5-6, M5-9



BILL OF MATERIAL

	QTY	DESCRIPTION	ITEM	CU
1.	2	BOLT, MACHINE, 5/8" X REQUIRED LENGTH		
2.	2	WASHER, CURVED, 3" X 3" X 1/4", 13/16" HOLE		
3.	2	LOCKNUT, 5/8"		
4.	1	SINGLE PHASE MOUNTING BRACKET, FIBERGLASS		

NO	DATE	BY	REVISION

APPROVED:

SINGLE PHASE STANDOFF BRACKET

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY	NO. A-	M5-22

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JEB

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

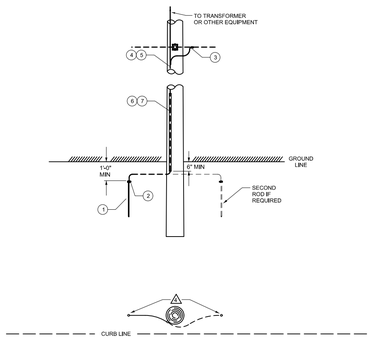
SCALE	DATE
NONE	12.9.22

ELECTRIC UTILITY RELOCATION
CONSTRUCTION DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	STP-8(52)	U5-21

33021-3231-14

HAMILTON COUNTY
PIN#:124080.00



GENERAL NOTES:

1. A STATIC WIRE OR AERIAL CABLE MESSENGER (IF PRESENT) SHOULD BE BONDED TO THE POLE GROUND.
2. GROUND WIRE TO BE INSTALLED ON ROAD SIDE OF POLE AWAY FROM ON COMING TRAFFIC AND SHOULD CLEAR ALL HARDWARE BY 2" MIN. AND SHALL BE STAPLED TO MAINTAIN POSITION.
3. STAPLES ON GROUND WIRE SHALL BE 2'-0" APART, EXCEPT FOR A DISTANCE OF 8'-0" FROM TOP OF POLE WHERE THEY SHALL BE 6" APART. THE ½" CONDUIT WILL BE SECURED WITH THE LARGE STAPLES (#7) ABOUT EVERYY 2'-0" ALSO.
4. RODS SHALL BE DRIVEN IN FIRM EARTH OUTSIDE OF THE POLE EXCAVATION.

BILL OF MATERIAL

	QTY	DESCRIPTION	ITEM	CU
1.	1	ROD - GROUND - COPPERWELD - ⅝"X 8 FT	I0526	DGB
2.	1	CONN - GR CLAMP - ROD - ⅝" CW ROD TO 2STR-6SOL CU	I0389	
3.	1	CONN - PG CLAMP - 1 BOLT - 336-10 ALIACSR -10-8 ALCU	A0117	
4.	⅝ #	STAPLE - GR. WIRE 1⅝"X ⅝"X ⅝" GALV.	I0380	
5.	8#	WIRE - #6 SOL DEAD - SOFT BARE CU	J0017	
6.	10'	CONDUIT - PVC TYPE 40 - 10' LENGTH - ½"	M0539	
7.	5	STAPLE - GR. MOULD (WOOD) 3"X 1⅜"X⅜" GALV	I0379	

NO	DATE	BY	REVISION

APPROVED:

GROUND ASSEMBLY
TYPE "B"

DISTRIBUTION STANDARDS & DESIGN

DATE	DRAWN BY	CHECKED BY	NO. A-2994	M2-11

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.11
DESIGNED:	SWR
DRAWN:	JTB
CHECKED:	JEB
SCALE	DATE
NONE	12.9.22

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

ELECTRIC UTILITY RELOCATION
CONSTRUCTION DETAILS

INDEX OF DRAWINGS

U6-01 TELECOMMUNICATIONS RELOCATION ESTIMATED QUANTITIES AND DRAWING INDEX
U6-02 TELECOMMUNICATIONS RELOCATION VICINITY MAP AND LEGEND
U6-03 TELECOMMUNICATIONS RELOCATION GENERAL NOTES
U6-04 TELECOMMUNICATIONS RELOCATION STA. BEGIN OF PROJECT TO STA. 747+50
U6-05 TELECOMMUNICATIONS RELOCATION STA. 747+50 TO STA. 760+50
U6-06 TELECOMMUNICATIONS RELOCATION STA. 760+50 TO STA. 773+50
U6-07 TELECOMMUNICATIONS RELOCATION STA. 773+50 TO STA. 786+50
U6-08 TELECOMMUNICATIONS RELOCATION STA. 786+50 TO STA. 799+50
U6-09 TELECOMMUNICATIONS RELOCATION STA. 799+50 TO STA. 812+50
U6-10 TELECOMMUNICATIONS RELOCATION STA. 812+50 TO STA. 825+50
U6-11 TELECOMMUNICATIONS RELOCATION STA. 825+50 TO STA. 838+50
U6-12 TELECOMMUNICATIONS RELOCATION STA. 838+50 TO STA. 851+50
U6-13 TELECOMMUNICATIONS RELOCATION STA. 851+50 TO STA. 864+50
U6-14 TELECOMMUNICATIONS RELOCATION STA. 864+50 TO STA. 877+50
U6-15 TELECOMMUNICATIONS RELOCATION STA. 877+50 TO STA. 890+50
U6-16 TELECOMMUNICATIONS RELOCATION STA. 890+50 TO STA. 898+23.78
U6-17 TELECOMMUNICATIONS RELOCATION STA. 825+50 TO CONST. LIMITS
U6-18 TELECOMMUNICATIONS RELOCATION CONSTRUCTION DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-01

33021-3231-14

HAMILTON COUNTY
PIN #124080.00

ESTIMATED QUANTITIES

ITEM NO.	TDOT DESCRIPTION	UTILITY UNIT DESCRIPTION	UNIT	QUANTITY	PERCENT UTILITY	PERCENT PROJECT
790-32.23	GUY GUARD	E3-10	EACH	3	0%	100%
798-05.27	COMMUNICATION ASSEMBLY(BOND)	SC	EACH	3	0%	100%
798-05.33	COMMUNICATION ASSEMBLY (DE)	DE	EACH	2	0%	100%
798-05.34	COMMUNICATION ASSEMBLY(E1-2)	E1-2	EACH	3	0%	100%
798-05.35	COMMUNICATION ASSEMBLY(E2-2)	E2-2	EACH	2	0%	100%
798-05.37	COMMUNICATION ASSEMBLY (F2&F3)	F2 & F3	EACH	1	0%	100%
798-05.54	COMMUNICATION ASSEMBLY(SVC)	J-HOOK	EACH	3	0%	100%
798-08.05	TRANSFER FEEDER CABLE/TERMINALS		EACH	6	0%	100%
798-09.03	REMOVE POLES,GUYS,ANCHORS		EACH	9	0%	100%
798-09.08	REMOVE STRAND POLE FRAMING		EACH	8	0%	100%

6

FOOTNOTES:

6, INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO SETUP, TRAFFIC CONTROL, AND BONDING/GROUNDING.

06/09/2026

GREGORY K. POSTON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 100945
STATE OF TENNESSEE

UTILITY INFORMATION
ELECTRIC POWER BOARD OF CHATTANOOGA
10 WEST M.L. KING BLVD.
CHATTANOOGA, TENNESSEE 37402
CONTACT: ADAM NORWOOD
PHONE: 423 648 3305
EMAIL: NORWOODAW@EPB.NET

ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	DATE
NONE	05.06.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
ESTIMATED QUANTITIES AND DRAWING INDEX

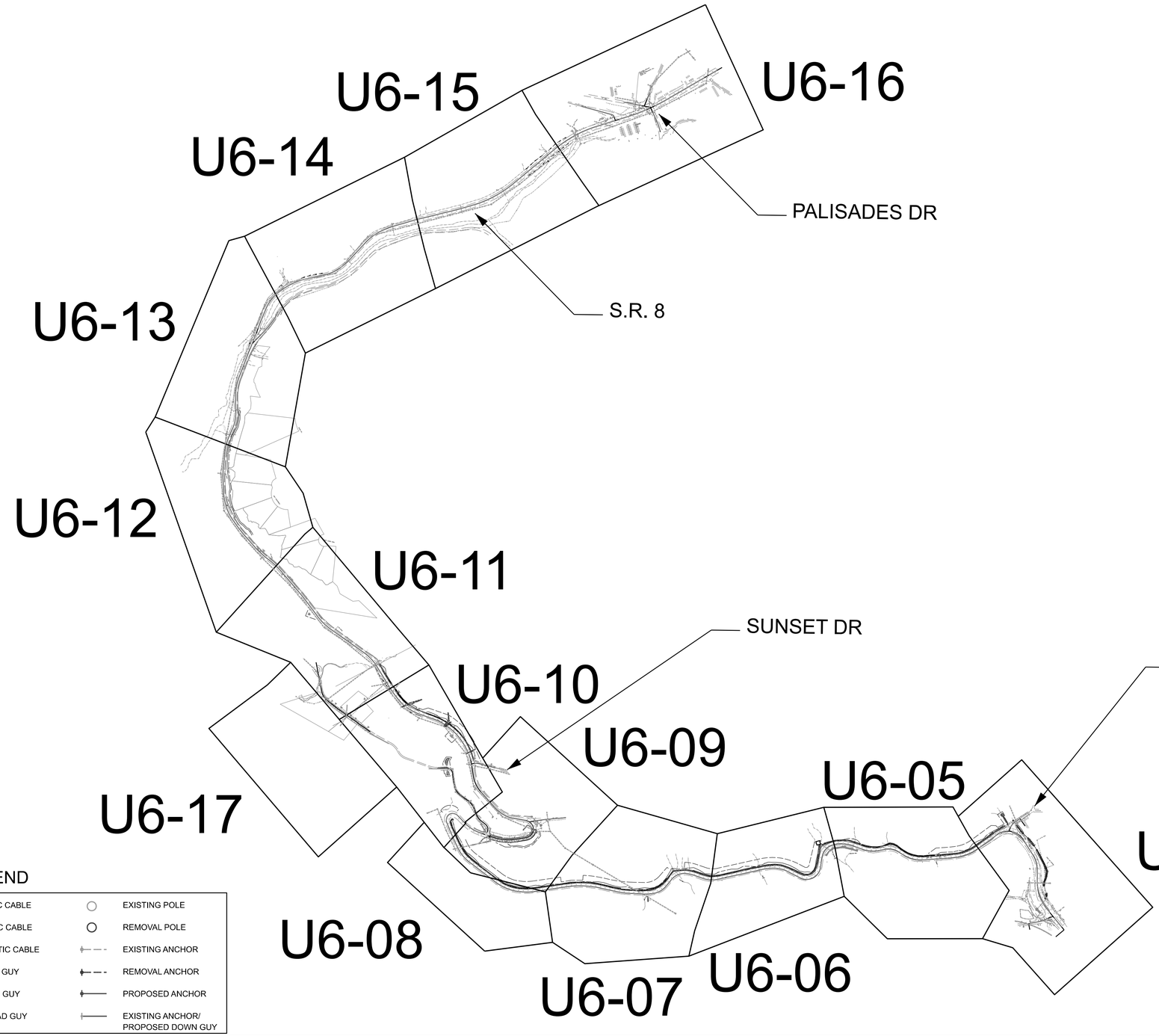
HAMILTON COUNTY

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-02

33021-3231-14

HAMILTION COUNTY
PIN #124080.00

SR-8
FROM GLENDALE DR. TO PALISADES DR.



LEGEND

F	EXISTING FIBEROPTIC CABLE		EXISTING POLE
F	REMOVAL FIBEROPTIC CABLE		REMOVAL POLE
F	PROPOSED FIBEROPTIC CABLE		EXISTING ANCHOR
GUY	EXISTING OVERHEAD GUY		REMOVAL ANCHOR
GUY	REMOVAL OVERHEAD GUY		PROPOSED ANCHOR
GUY	PROPOSED OVERHEAD GUY		EXISTING ANCHOR/ PROPOSED DOWN GUY

05/08/2026

GREGORY K. POSTON
REGISTERED ENGINEER
AGRICULTURE
No. 100945
STATE OF TENNESSEE

ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE: NONE	DATE: 05.06.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
VICINITY MAP AND LEGEND

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-03

33021-3231-14

HAMILTON COUNTY
PIN #124080.00

GENERAL CONSTRUCTION NOTES

1. THE FOLLOWING INFORMATION APPLIES TO THE UTILITY CONTRACTOR RESPONSIBLE FOR THE RELOCATION OF THE COMMUNICATION FACILITIES ALONG THIS PROJECT.

2. ANY DEVIATION OF THE CONDITIONS LISTED MUST BE APPROVED BY THE UTILITY PRIOR TO THE DEVIATION TAKING PLACE ON THE PROJECT. FAILURE BY THE UTILITY CONTRACTOR OR SUBCONTRACTORS TO FOLLOW THESE CONDITIONS AS LISTED WILL RESULT IN REFUSAL OF ACCEPTANCE BY THE UTILITY OWNER TO ACCEPT THE PROJECT AT IT'S COMPLETION UNTIL SUCH TIME AS ANY DEFICIENCIES ARE CORRECTED TO THE SATISFACTION OF THE UTILITY.

3. ALL WORK SHALL BE DONE IN A SAFE, THOROUGH AND WORKMAN-LIKE MANNER IN ACCORDANCE WITH THE PLAN SHEETS, CONSTRUCTION DETAILS AND TECHNICAL SPECIFICATIONS AS WELL AS ANY AND ALL APPLICABLE SAFETY CODES, INCLUDING, BUT NOT LIMITED TO, THE NATIONAL ELECTRICAL SAFETY CODE (NESC), AND ANY OTHER STATE AND LOCAL CODES THAT ARE REQUIRED FOR THE TYPE OF UTILITY RELOCATION THAT IS BEING PERFORMED AS PART OF THIS CONTRACT.

4. THE UTILITY CONTRACTOR SHALL EXERCISE ALL STANDARD SAFETY PRACTICES WHEN WORKING AROUND ENERGIZED ELECTRICAL LINES (e.g. RUBBER GOODS INSPECTIONS, GROUNDING OF LINES AND VEHICLES / EQUIPMENT, TOOL INSPECTIONS, ADEQUATE SUPERVISION, ETC.).

5. THE UTILITY CONTRACTOR SHALL BEAR THE RESPONSIBILITY FOR THE SAFETY OF ITS EMPLOYEES AND SHALL ENSURE THAT THEY ABIDE BY ALL STATE, FEDERAL AND LOCAL REGULATIONS REGARDING SAFE WORK PRACTICES. IF SUCH REGULATIONS ARE VIOLATED, THE UTILITY OWNER SHALL MAINTAIN THE RIGHT TO STOP WORK ON THEIR FACILITIES UNTIL SUCH CONDITIONS ARE CORRECTED.

6. IN GENERAL, THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS, METHODS, AND/OR INTEGRAL MATERIALS OUTLINED IN THE UTILITY CONSTRUCTION DRAWINGS AND THE TECHNICAL SPECIFICATIONS THAT ARE NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION OF THE UTILITY FACILITIES BEING RELOCATED.

7. UTILITY CONSTRUCTION DRAWINGS ARE INCLUDED AS PART OF THE DRAWING PACKET AND MUST BE ADHERED TO DURING ALL PHASES OF CONSTRUCTION.

8. ALL MATERIALS TO BE USED BY THE UTILITY CONTRACTOR ON THE PROJECT MUST BE NEW MATERIALS AND MUST BE APPROVED BY THE UTILITY OWNER PRIOR TO PURCHASE OR USE. A PROPOSED LIST OF MATERIALS SHALL BE SUBMITTED TO THE UTILITY OWNER AS NOTED IN THE TECHNICAL SPECIFICATIONS FOR THE PROJECT. NO MATERIAL SUBSTITUTIONS ARE ALLOWED WITHOUT THE PRIOR CONSENT OF THE UTILITY OWNER. STORAGE LOCATION OF MATERIALS ON THE PROJECT SITE MUST BE A SECURE ENVIRONMENT. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR ANY LOST, STOLEN OR DAMAGED MATERIALS ON THE PROJECT.

9. THE UTILITY CONTRACTOR IS REQUIRED TO MAINTAIN COMMUNICATION WITH THE UTILITY OWNER'S PROJECT REPRESENTATIVE USING TELEPHONE COMMUNICATIONS.

10. THE UTILITY CONTRACTOR IS TO PERFORM ALL REQUIRED WORK IN SUCH A MANNER AS TO NOT CAUSE UNINTENTIONAL OUTAGES TO THE CUSTOMERS ALONG THE PROJECT. ALL PLANNED OUTAGES MUST BE HANDLED IN ACCORDANCE WITH SECTION 01 1113 "SUMMARY OF WORK" IN THE CONSTRUCTION TECHNICAL SPECIFICATIONS. LARGE SCALE OUTAGES ARE NOT ALLOWED.

11. IF FIELD CONDITIONS ARISE WHICH PREVENT THE CONSTRUCTION ON THE PROJECT FROM PROCEEDING AS DESIGNED, THE UTILITY CONTRACTOR WILL COORDINATE WITH THE UTILITY OWNER / ENGINEER TO RESOLVE THE ISSUES SO THAT CONSTRUCTION CAN CONTINUE.

12. THE UTILITY CONTRACTOR SHALL COMPLY WITH ALL TDOT REGULATIONS, PERMITS AND TRAFFIC CONTROL GUIDELINES AS REQUIRED.

13. THE LOCATIONS OF EXISTING UTILITIES SHOWN WITHIN THESE DRAWINGS ARE BASED ON INFORMATION PROVIDED BY TDOT, AND SHALL BE VERIFIED BY THE UTILITY CONTRACTOR PRIOR TO CONSTRUCTION. THE UTILITY CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES AND REQUEST THAT THE UTILITY OWNERS PROPERLY LOCATE AND MARK THEIR PERSPECTIVE UTILITY ON THE GROUND.

14. THE UTILITY CONTRACTOR SHALL REQUEST UTILITY LOCATIONS A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO BEGINNING ANY CONSTRUCTION IN THE AREA OF THE UTILITIES IN QUESTION.

15. THE TDOT PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE EXISTING UNDERGROUND UTILITIES. THE PRIME CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY EXISTING UTILITY OWNER PRIOR TO DIGGING. IN THE EVENT THAT THERE IS ANY DAMAGE TO OR INTERRUPTION OF EXISTING FACILITIES, THE PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ANY COST INCURRED FROM THE EVENT.

16. SOME EXISTING UTILITIES CAN BE LOCATED BY CALLING TENNESSEE ONE-CALL SYSTEMS, INC. AT "811".

17. THE UTILITY CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THE PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND EXISTING UTILITIES, THE UTILITY CONTRACTOR SHALL BE REQUIRED TO FURNISH THE EQUIPMENT NECESSARY TO COMPLETE THE WORK.

18. THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY ITS EMPLOYEES IN AREAS OUTSIDE OF TDOT ROW ALONG THE LENGTH OF THE PROJECT. THE UTILITY CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR RESOLVING ALL COMPLAINTS THAT MAY ARISE FROM ITS ACTIVITIES, AND SHALL PROMPTLY REPORT SUCH COMPLAINTS TO THE UTILITY OWNER AS TO WHETHER OR NOT IT HAS BEEN RESOLVED.

19. GROUND AND AERIAL INSPECTION OF INSTALLED FACILITIES ONCE COMPLETED SHALL BE THE RESPONSIBILITY OF THE UTILITY CONTRACTOR. ANY CORRECTIONS THAT ARE REQUIRED SHALL BE DONE DURING THE CONSTRUCTION OF THE PROJECT AND VERIFIED BY THE UTILITY OWNER / ENGINEER. THE UTILITY OWNER WILL HAVE INSPECTORS ON-SITE TO VERIFY SAFETY AND QUALITY OF WORK IS CONSISTENT WITH UTILITY OWNER'S STANDARDS.

20. WHILE SOME WORK MAY ONLY BE REQUIRED "AROUND" OTHER UTILITY FACILITIES, SOME WORK MAY NEED TO BE DONE CONCURRENTLY WITH THE OPERATIONS OF OTHER UTILITY CONTRACTORS. IT IS THE RESPONSIBILITY OF THE TDOT PRIME CONTRACTOR TO ENSURE THAT ALL UTILITY COORDINATION BE ADDRESSED DURING THE CONSTRUCTION OF THE PROJECT.

21. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL FACILITIES INDICATED WITHIN THESE DRAWINGS AT "FINAL GRADE" AS SHOWN. ANY TEMPORARY INSTALLATIONS THAT ARE NOT SPECIFICALLY NOTED WITHIN THESE DRAWINGS AND THAT ARE NOT ADDRESSED AND COORDINATED PRIOR TO CONSTRUCTION OF THE PROJECT WILL BE THE RESPONSIBILITY OF THE TDOT PRIME CONTRACTOR.

22. CONSTRUCTION OF RELOCATED FACILITIES IS NOT CONSIDERED TO BE COMPLETE UNTIL THE UTILITY CONTRACTOR HAS ENERGIZED THE FACILITIES IN ACCORDANCE WITH UTILITY OWNER SPECIFICATIONS.

23. PERSONNEL CHANGES ARE TO BE KEPT TO A MINIMUM DURING THE CONSTRUCTION OF THE PROJECT AS TO REDUCE UNFAMILIAR PERSONNEL TO BE WORKING ON THE FACILITIES OF THE UTILITY OWNER.

24. THE TDOT PRIME CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL UTILITY FACILITIES THAT ARE TO BE RELOCATED WITHIN THE PROJECT.

25. WHERE EROSION CONTROL MEASURES ARE NEEDED FOR THE UTILITY WORK OCCURRING OUTSIDE THE STATE RIGHT-OF-WAY, THE UTILITY CONTRACTOR SHALL SUBMIT A PROPOSED EROSION AND SEDIMENT CONTROL PLAN TO THE TDOT PROJECT SUPERVISOR FOR APPROVAL PRIOR TO BEGINNING WORK.

26. THE DISTANCES THAT ARE SHOWN ON THE DRAWINGS ARE HORIZONTAL DISTANCES ONLY, AND DO NOT ALLOW FOR ANY CHANGES IN ELEVATION THAT EXIST ALONG THE PROJECT.

27. ALL ACTIVE AND PASSIVE EQUIPMENT SHALL BE PROVIDED BY THE UTILITY OWNER. THE LABOR COST, AND MINOR MATERIALS REQUIRED TO INSTALLL THESE UNITS SHALL BE INCLUDED IN THE BID FROM THE UTILITY CONTRACTOR.

28. LOCKNUTS SHALL BACK UP ALL NUTS ON THREADED BOLTS SUCH AS MACHINE BOLTS, ETC. EXISTENCE OF LOCKNUTS WILL BE CLOSELY EXAMINED BY THE UTILITY OWNER DURING CONSTRUCTION. BOLTS SHALL NOT EXTEND MORE THAN TWO (2) INCHES FROM NUTS.

29. THE UTILITY CONTRACTOR SHALL INSTALL FIBERGLASS INSULATOR GUYLINKS ON ALL DOWNGUYS WITHIN TWO (2) FEET OF PRIMARY CONDUCTORS.

30. ANCHORS THAT ARE TO BE RETIRED SHALL HAVE THE ROD UNSCREWED AND REMOVED, OR BE CUT OFF AT LEAST EIGHTEEN (18) INCHES BELOW FINAL GRADE.

31. THE UTILITY CONTRACTOR SHALL PROVIDE THE UTILITY OWNER WITH ONE (1) SET OF CLEAN, CLEARLY MARKED "AS-BUILT" DRAWINGS AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL REFLECT ANY AND ALL CHANGES THAT WERE MADE TO THE FACILITIES DURING CONSTRUCTION.

32. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONSTRUCTION DRAWINGS AND TECHNICAL SPECIFICATIONS FOR THE RELOCATION OF FACILITIES PRIOR TO BIDDING THE PROJECT. ANY QUESTIONS CONCERNING INFORMATION SHOWN IN THE CONTRACT DOCUMENTS SHALL BE ADDRESSED TO THE UTILITY OWNER / ENGINEER PRIOR TO BIDDING ON THE PROJECT.

33. UTILITY CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTING EACH REEL OF CABLE FOR THE PROJECT. ANY DAMAGE TO THE CABLE SHALL BE REMOVED AND SPLICED AS REQUIRED. ALL CABLES SHALL BE PROTECTED FROM EQUIPMENT OR VEHICLE TRAFFIC WHILE BEING INSTALLED.

34. ANY CUSTOMER OUTAGES FOR CUTOVER TO NEW CABLES MUST BE COORDINATED WITH AND SCHEDULED BY UTILITY OWNER. SCHEDULED CUSTOMER OUTAGES REQUIRE A MINIMUM OF 14 DAYS FOR NOTIFICATION.

05/08/2026

GREGORY K. POSTON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 100984
STATE OF TENNESSEE

ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	DATE
NONE	05.06.26

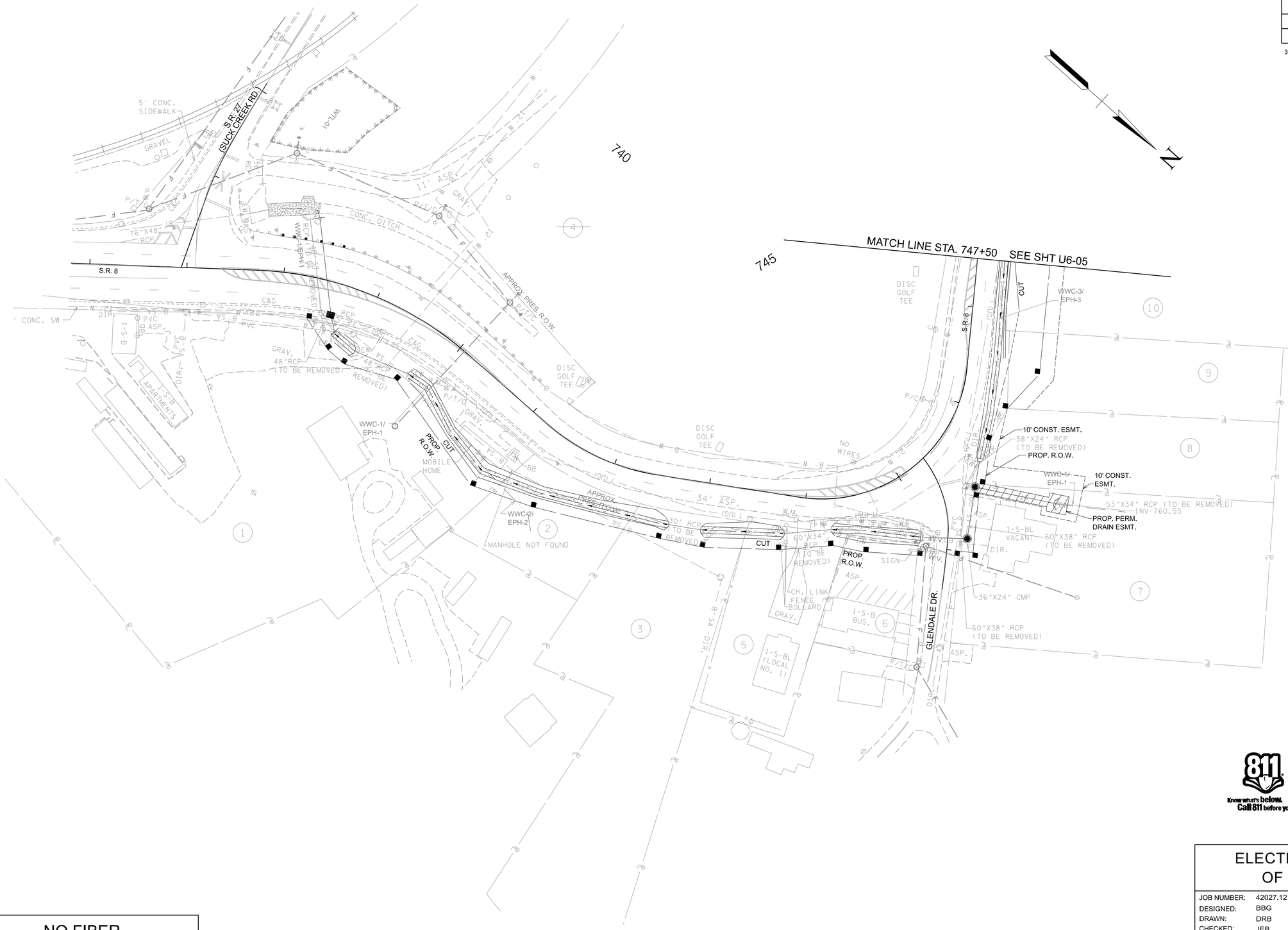
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-04

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



NO FIBER
RELOCATION THIS SHEET

Know what's below. Call 811 before you dig.

05/08/2026

GREGORY K. POSTON
REGISTERED ENGINEER
AGRICULTURE
No. 100945
STATE OF TENNESSEE

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	1"=50'
DATE	05.06.26

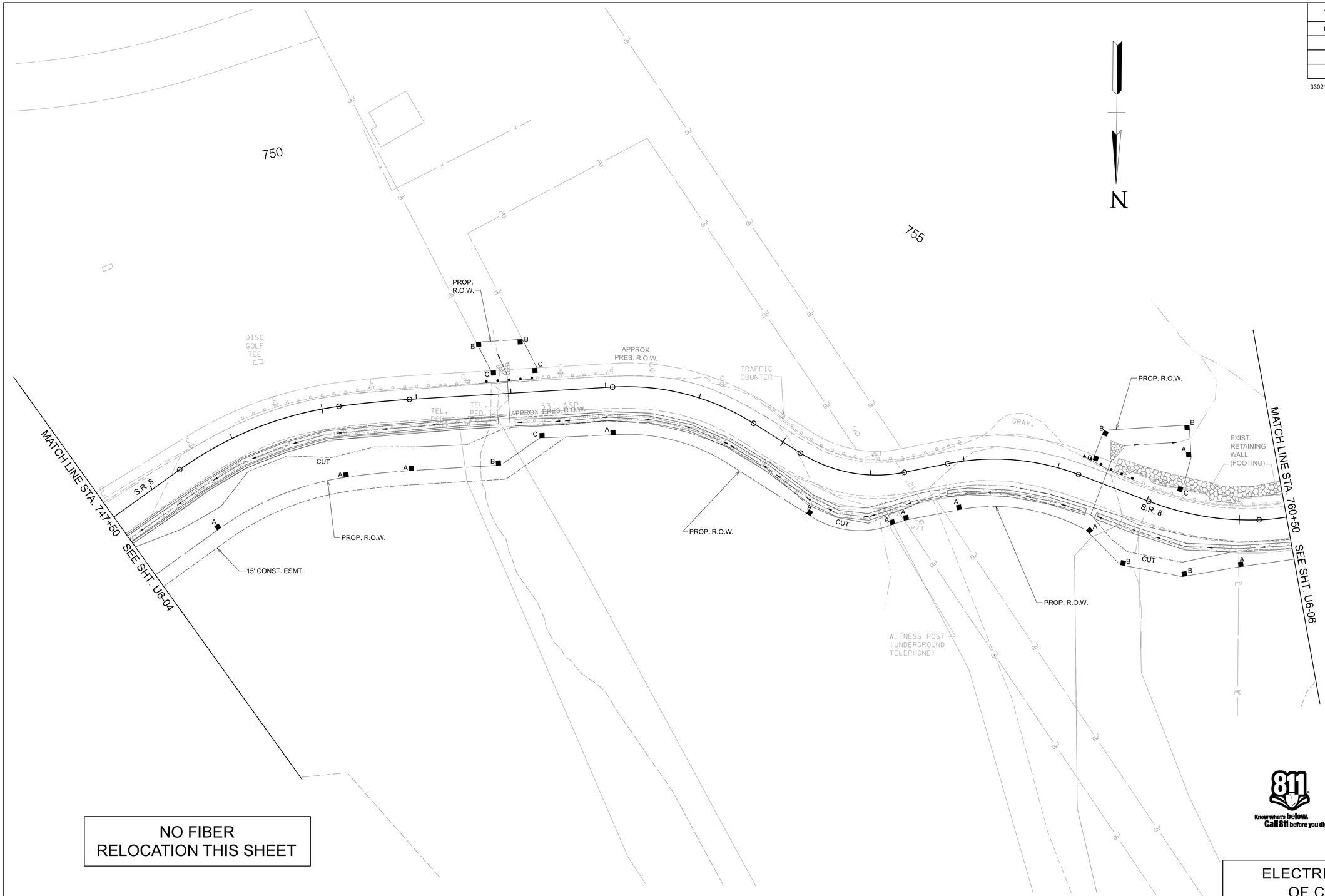
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
BEGIN PROJECT TO STA. 747+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-05

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



NO FIBER
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05/08/2026

GREGORY K. POSTON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 100945
STATE OF TENNESSEE

ELECTRIC POWER BOARD OF CHATTANOOGA

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CHECKED:	JEB
SCALE	DATE
1"=50'	05.06.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATIONS RELOCATION
STA. 747+50 STA. 760+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-06

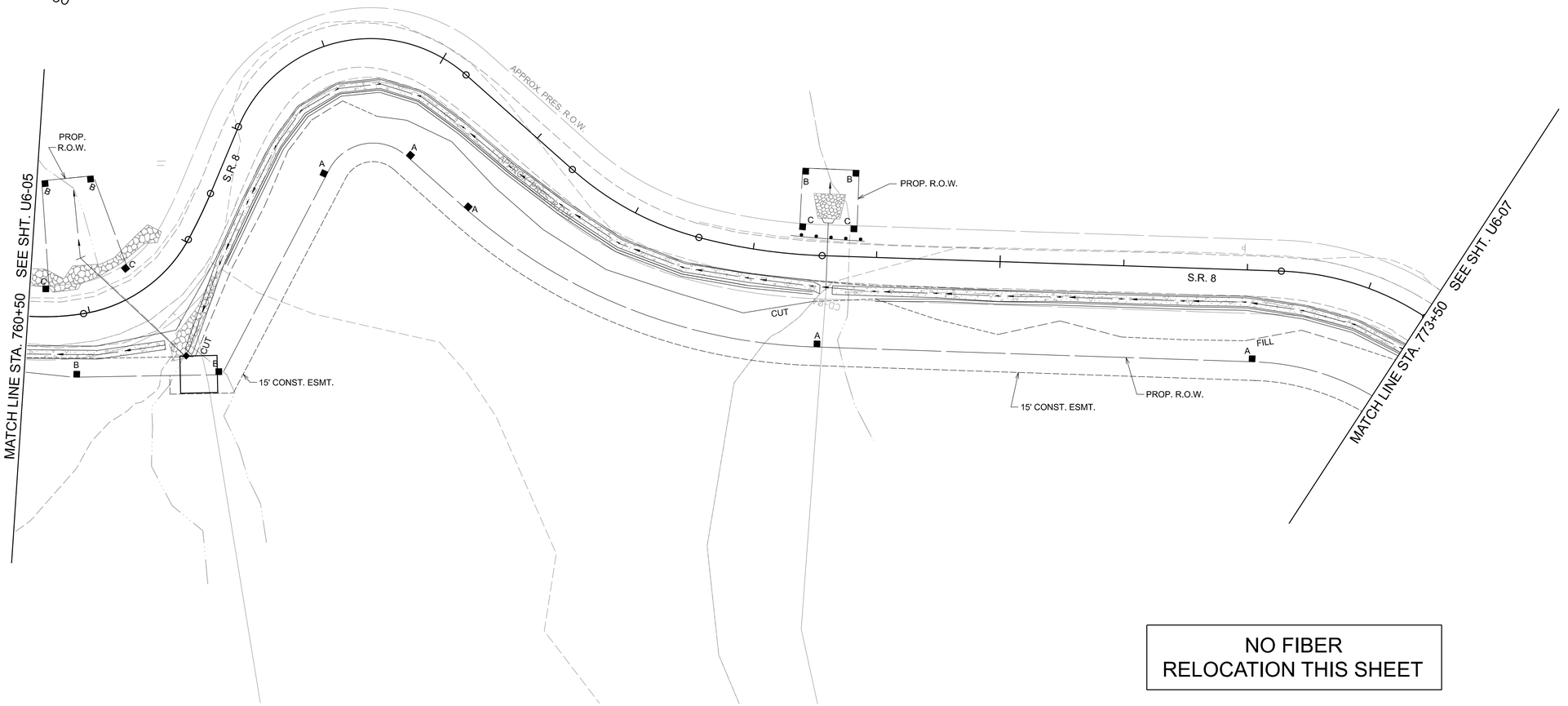
33021-3231-14

HAMILTON COUNTY
PIN #124080.00

765

770

760



NO FIBER
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05/08/2026

GREGORY K. POSTON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 100945
STATE OF TENNESSEE

ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	DATE
1"=50'	05.06.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 760+50 TO STA.773+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-07

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



CONSTRUCTION NOTES:

1.) ALL EXISTING FACILITIES TO BE TRANSFERRED TO NEW ALIGNMENT. ANY NECESSARY TEMPORARY WORK NEEDED TO ENSURE THE TRANSFER MUST BE COORDINATED WITH THE UTILITY OWNER.

2.) THIS JOB IS IN CONJUNCTION WITH U SERIES 5 POLES TO BE PLACED/REMOVED BY EPB PLEASE SEE PLAN SET FROM U SERIES 5.

3.) CONTRACTOR TO COORDINATE WITH EPB PROJECT ENGINEER FOR PURCHASE AND SUPPLY OF MATERIALS FROM EPB.

4.) ALL FIBER STRAND & RELATED MATERIALS AND CONSTRUCTION PRACTICES TO MEET OR EXCEED CURRENT BELLCORE STANDARD SR-1421.

5.) EPB TO PROVIDED FIBER CABLES,FIBER DROPS, DISTRIBUTION ENCLOSURES AND ALL SPLICING THAT IS INVOLVED WITH EPB FACILITIES.

6.) ANCHORS TO BE PLACED BY EPB ELECTRICAL PLEASE SEE U5 PRINT SET FOR DETAILS.

811 Know what's below. Call 811 before you dig.

05/08/2026

GREGORY K. POSTON
REGISTERED ENGINEER
AGRICULTURE
No. 100945
STATE OF TENNESSEE

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	1"=50'
DATE	05.06.26

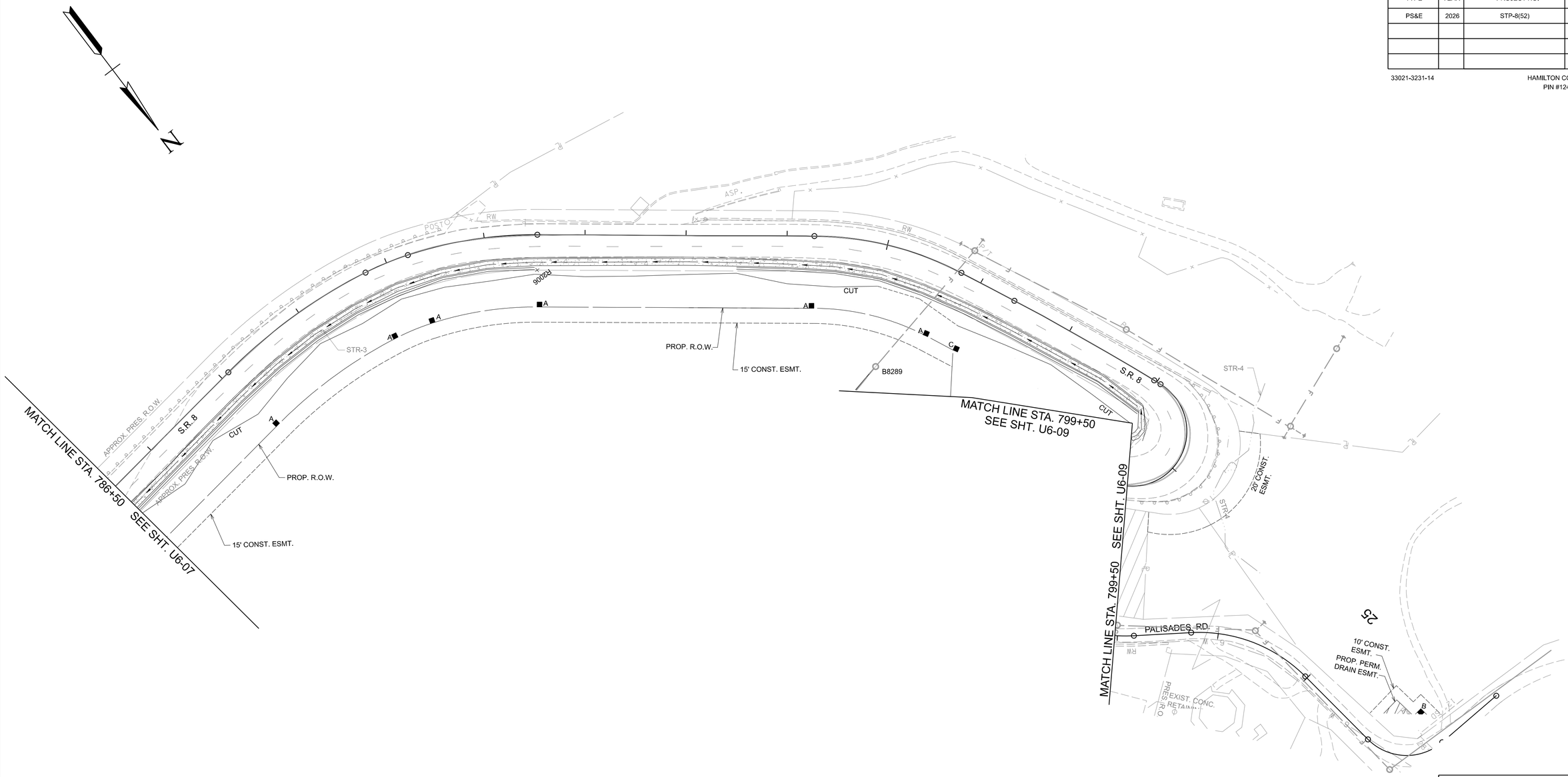
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 773+50 TO STA. 786+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-08

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



CONSTRUCTION NOTES:

1.) ALL EXISTING FACILITIES TO BE TRANSFERRED TO NEW ALIGNMENT. ANY NECESSARY TEMPORARY WORK NEEDED TO ENSURE THE TRANSFER MUST BE COORDINATED WITH THE UTILITY OWNER.

2.) THIS JOB IS IN CONJUNCTION WITH U SERIES 5 POLES TO BE PLACED/REMOVED BY EPB PLEASE SEE PLAN SET FROM U SERIES 5.

3.) CONTRACTOR TO COORDINATE WITH EPB PROJECT ENGINEER FOR PURCHASE AND SUPPLY OF MATERIALS FROM EPB.

4.) ALL FIBER STRAND & RELATED MATERIALS AND CONSTRUCTION PRACTICES TO MEET OR EXCEED CURRENT BELLCORE STANDARD SR-1421.

5.) EPB TO PROVIDED FIBER CABLES,FIBER DROPS, DISTRIBUTION ENCLOSURES AND ALL SPLICING THAT IS INVOLVED WITH EPB FACILITIES.

6.) ANCHORS TO BE PLACED BY EPB ELECTRICAL PLEASE SEE U5 PRINT SET FOR DETAILS.

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05/08/2026

GREGORY K. POSTON
REGISTERED ENGINEER
AGRICULTURE
No. 100945
STATE OF TENNESSEE

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	1"=50'
DATE	05.06.26

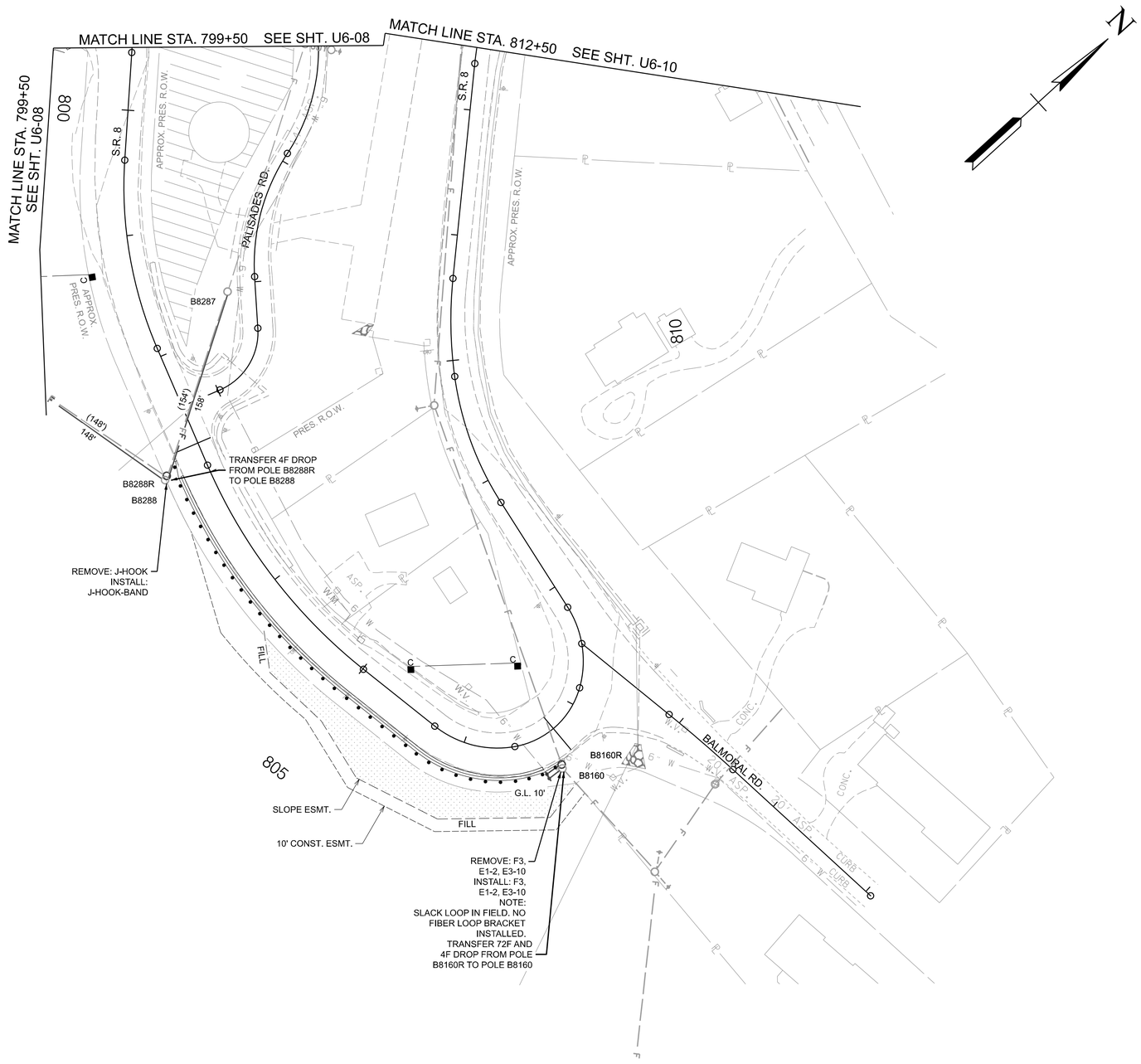
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 786+50 TO STA. 799+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-09

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



CONSTRUCTION NOTES:

1.) ALL EXISTING FACILITIES TO BE TRANSFERRED TO NEW ALIGNMENT. ANY NECESSARY TEMPORARY WORK NEEDED TO ENSURE THE TRANSFER MUST BE COORDINATED WITH THE UTILITY OWNER.

2.) THIS JOB IS IN CONJUNCTION WITH U SERIES 5 POLES TO BE PLACED/REMOVED BY EPB PLEASE SEE PLAN SET FROM U SERIES 5.

3.) CONTRACTOR TO COORDINATE WITH EPB PROJECT ENGINEER FOR PURCHASE AND SUPPLY OF MATERIALS FROM EPB.

4.) ALL FIBER STRAND & RELATED MATERIALS AND CONSTRUCTION PRACTICES TO MEET OR EXCEED CURRENT BELLCORE STANDARD SR-1421.

5.) EPB TO PROVIDED FIBER CABLES,FIBER DROPS, DISTRIBUTION ENCLOSURES AND ALL SPLICING THAT IS INVOLVED WITH EPB FACILITIES.

6.) ANCHORS TO BE PLACED BY EPB ELECTRICAL PLEASE SEE U5 PRINT SET FOR DETAILS.

811 Know what's below. Call 811 before you dig.

05/08/2026

GREGORY K. POSTON
REGISTERED ENGINEER
AGRICULTURE
CVA0161
No. 100345
STATE OF TENNESSEE

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	1"=50'
DATE	05.06.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 799+50 TO STA. 812+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-10

33021-3231-14

HAMILTON COUNTY
PIN #124080.00

MATCH LINE STA. 812+50 SEE SHT. U6-09

MATCH LINE STA. 825+50 SEE SHT. U6-11

MATCH LINE STA. 825+50 SEE SHT. U6-17

N

S.R. 8

PALISADES RD.

SUNSET DRIVE

PRES. R.O.W.

APPROX. PRES R.O.W.

PROP. R.O.W.

PROP. PERM. DRAIN ESMT.

10' CONST. ESMT.

20' CONST. ESMT.

15' CONST. ESMT.

PROP. R.O.W.

PROP. R.O.W.

PROP. R.O.W.

10' CONST. ESMT.

PROP. PERM. DRAIN ESMT.

10' CONST. ESMT.

REMOVE: E2-2
INSTALL: E2-2

REMOVE: E2-2
INSTALL: E2-2

B8163

B8164

B8164R

B8165

B8166

B8166R

REMOVE: DE,
E1-2, E3-10

INSTALL: DE,
E1-2, E3-10

G.L. 13'

REMOVE: DE,
E1-2, E3-10, J-HOOK

INSTALL: DE,
E1-2, E3-10, J-HOOK

TRANSFER 2F DROP
FROM POLE B8166R
TO POLE B8166

B6545

B6698T

B6698TR

REMOVE:J-HOOK

INSTALL:J-HOOK.

TRANSFER 2F DROP
FROM POLE B6698TR
TO POLE B6698T

CUT

CUT

CUT

CUT

ASP. CURB

ASP.

ASPHALT

CONC. W.W.

GRAV.

NO WIRES

MUSHROOM WAY

WATER HYDRANT

GUY

MH

P/T/C

820

825

815

CONSTRUCTION NOTES:

1.) ALL EXISTING FACILITIES TO BE TRANSFERRED TO NEW ALIGNMENT. ANY NECESSARY TEMPORARY WORK NEEDED TO ENSURE THE TRANSFER MUST BE COORDINATED WITH THE UTILITY OWNER.

2.) THIS JOB IS IN CONJUNCTION WITH U SERIES 5 POLES TO BE PLACED/REMOVED BY EPB PLEASE SEE PLAN SET FROM U SERIES 5.

3.) CONTRACTOR TO COORDINATE WITH EPB PROJECT ENGINEER FOR PURCHASE AND SUPPLY OF MATERIALS FROM EPB.

4.) ALL FIBER STRAND & RELATED MATERIALS AND CONSTRUCTION PRACTICES TO MEET OR EXCEED CURRENT BELLCORE STANDARD SR-1421.

5.) EPB TO PROVIDED FIBER CABLES,FIBER DROPS, DISTRIBUTION ENCLOSURES AND ALL SPLICING THAT IS INVOLVED WITH EPB FACILITIES.

6.) ANCHORS TO BE PLACED BY EPB ELECTRICAL PLEASE SEE U5 PRINT SET FOR DETAILS.

Know what's below.
Call 811 before you dig.

05/08/2026

GREGORY K. POSTON
REGISTERED ENGINEER
AGRICULTURE
No. 100945
STATE OF TENNESSEE

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	1"=50'
DATE	05.06.26

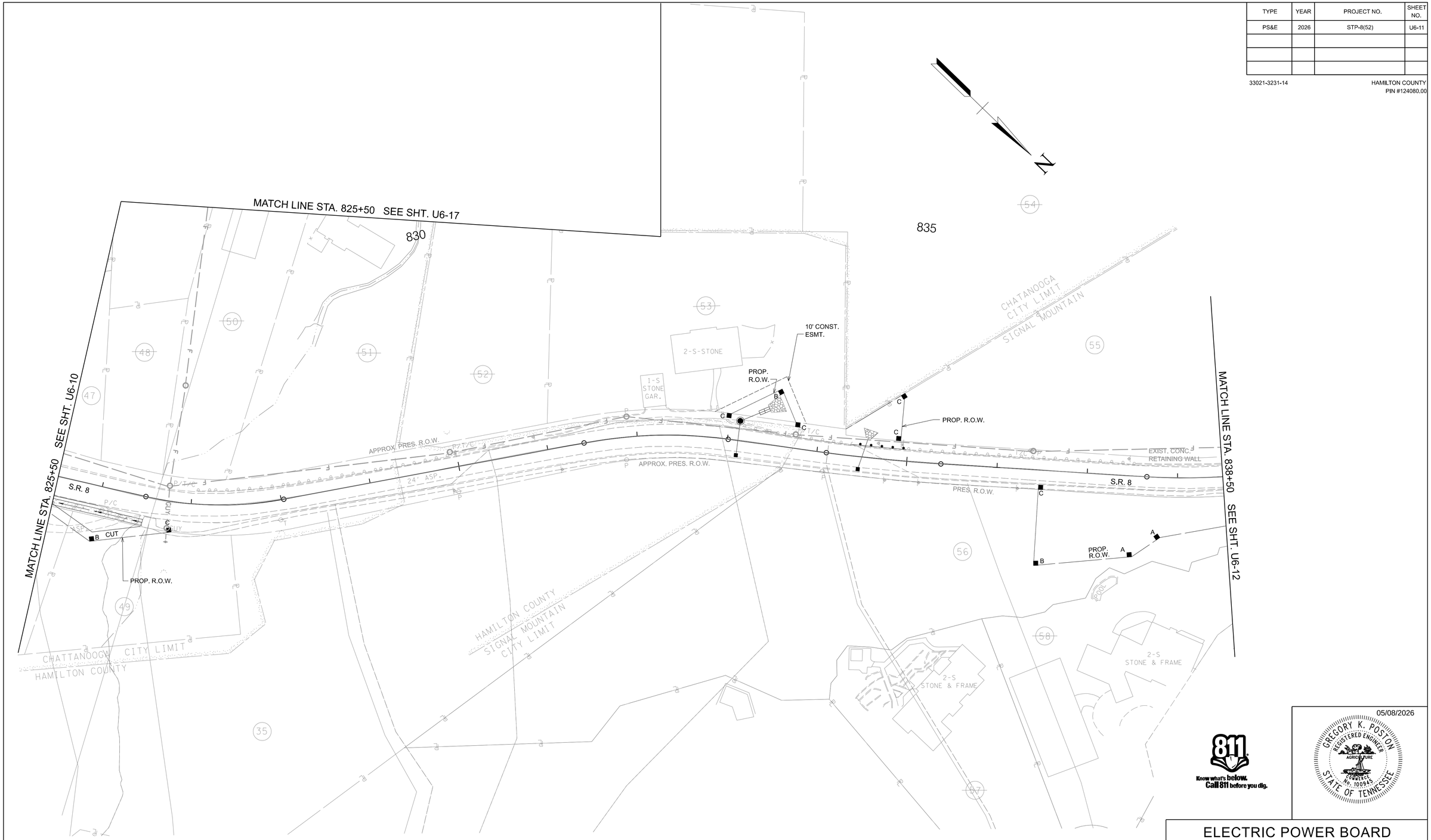
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 812+50 TO STA. 825+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-11

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



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05/08/2026

GREGORY K. POSTON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 100945
STATE OF TENNESSEE

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
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SCALE	1"=50'
DATE	05.06.26

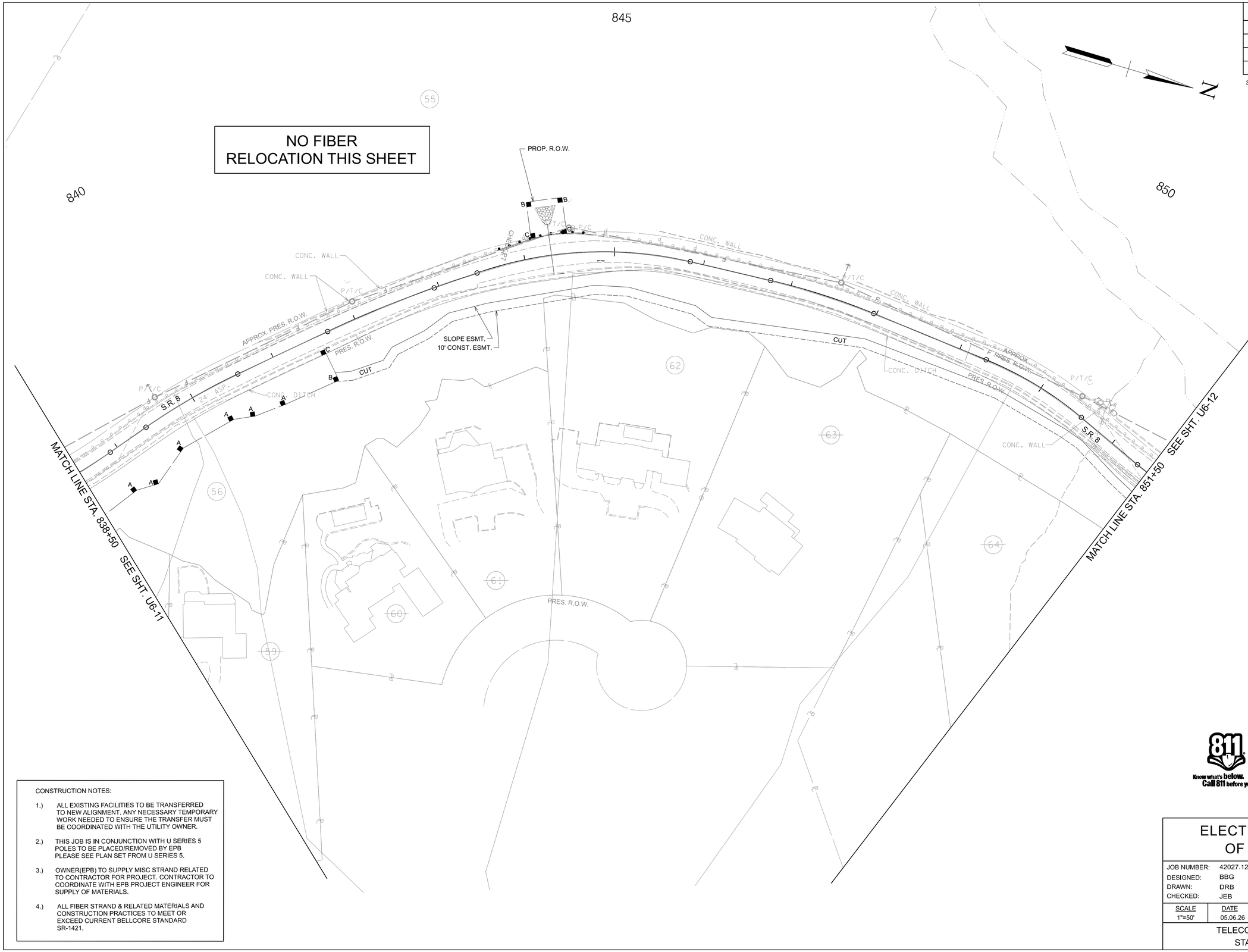
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 825+50 TO STA. 838+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-12

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



CONSTRUCTION NOTES:

1.) ALL EXISTING FACILITIES TO BE TRANSFERRED TO NEW ALIGNMENT. ANY NECESSARY TEMPORARY WORK NEEDED TO ENSURE THE TRANSFER MUST BE COORDINATED WITH THE UTILITY OWNER.

2.) THIS JOB IS IN CONJUNCTION WITH U SERIES 5 POLES TO BE PLACED/REMOVED BY EPB PLEASE SEE PLAN SET FROM U SERIES 5.

3.) OWNER(EPB) TO SUPPLY MISC STRAND RELATED TO CONTRACTOR FOR PROJECT. CONTRACTOR TO COORDINATE WITH EPB PROJECT ENGINEER FOR SUPPLY OF MATERIALS.

4.) ALL FIBER STRAND & RELATED MATERIALS AND CONSTRUCTION PRACTICES TO MEET OR EXCEED CURRENT BELLCORE STANDARD SR-1421.

811 Know what's below. Call 811 before you dig.

05/08/2026

GREGORY K. POSTON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 100945
STATE OF TENNESSEE

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	DATE
1"=50'	05.06.26

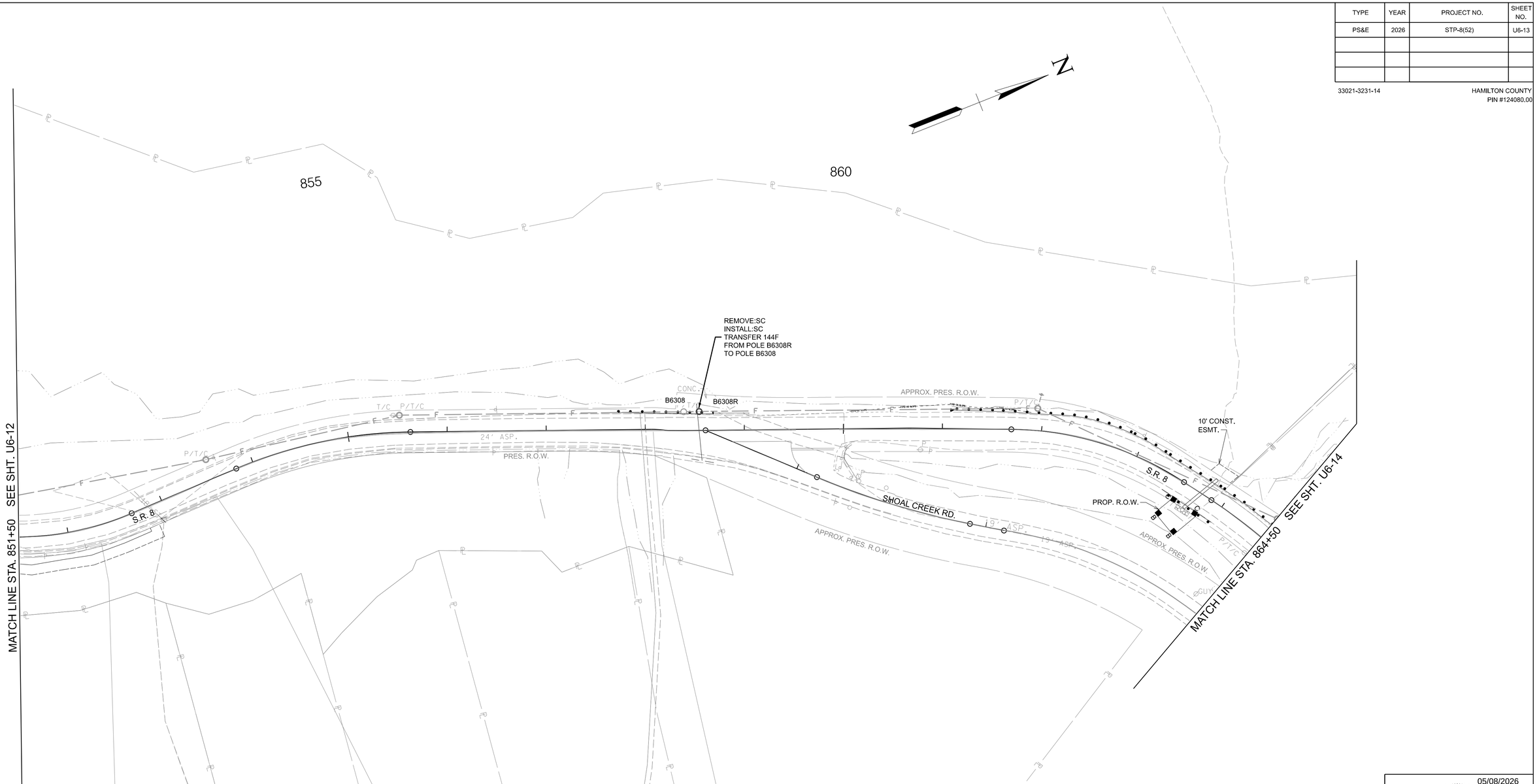
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 838+50 TO STA. 851+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-13

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



CONSTRUCTION NOTES:

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3.) CONTRACTOR TO COORDINATE WITH EPB PROJECT ENGINEER FOR PURCHASE AND SUPPLY OF MATERIALS FROM EPB.

4.) ALL FIBER STRAND & RELATED MATERIALS AND CONSTRUCTION PRACTICES TO MEET OR EXCEED CURRENT BELLCORE STANDARD SR-1421.

5.) EPB TO PROVIDED FIBER CABLES,FIBER DROPS, DISTRIBUTION ENCLOSURES AND ALL SPLICING THAT IS INVOLVED WITH EPB FACILITIES.

6.) ANCHORS TO BE PLACED BY EPB ELECTRICAL PLEASE SEE U5 PRINT SET FOR DETAILS.

811 Know what's below. Call 811 before you dig.

05/08/2026

GREGORY K. POSTON
REGISTERED ENGINEER
AGRICULTURE
TENNESSEE
No. 100945
STATE OF TENNESSEE

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
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CHECKED:	JEB
SCALE	1"=50'
DATE	05.06.26

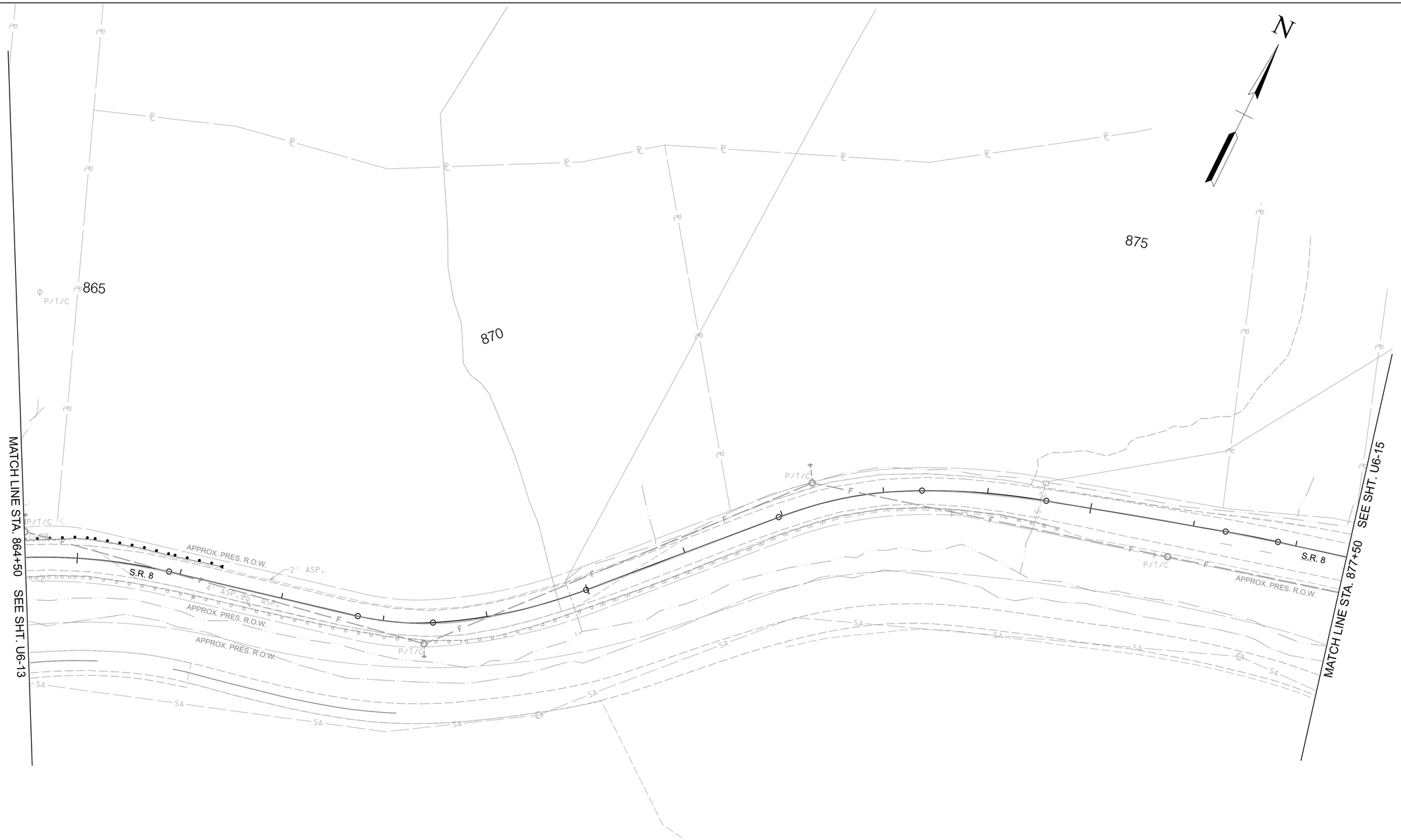
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 851+50 TO STA. 864+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-14

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



NO FIBER
RELOCATION THIS SHEET

Know what's below.
Call 811 before you dig.

05/08/2026

GREGORY K. POSTON
REGISTERED ENGINEER
AGRICULTURE
No. 100345
STATE OF TENNESSEE

ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	DATE
1"=50'	05.06.26

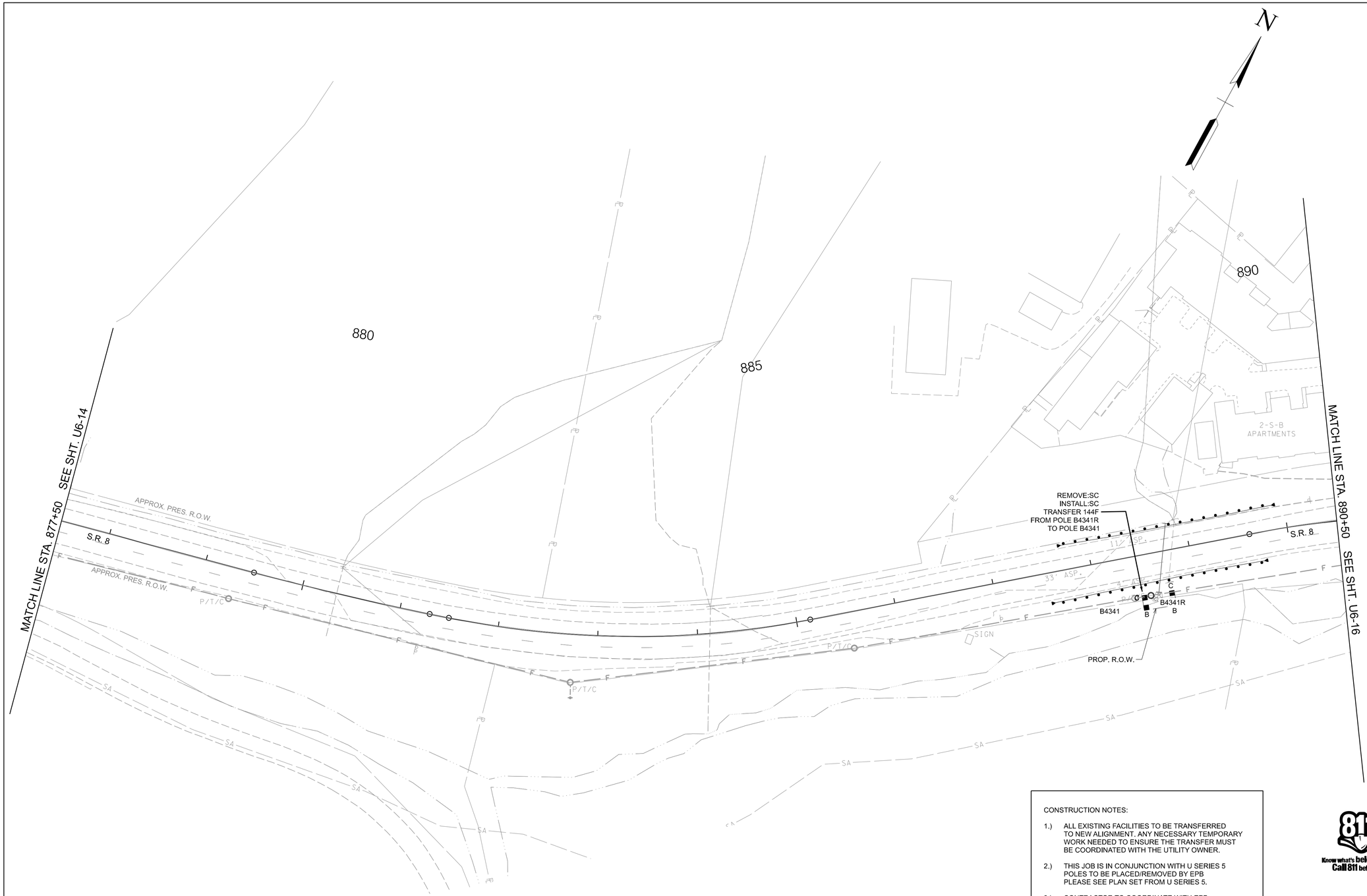
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 864+50 TO STA. 877+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-15

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



CONSTRUCTION NOTES:

1.) ALL EXISTING FACILITIES TO BE TRANSFERRED TO NEW ALIGNMENT. ANY NECESSARY TEMPORARY WORK NEEDED TO ENSURE THE TRANSFER MUST BE COORDINATED WITH THE UTILITY OWNER.

2.) THIS JOB IS IN CONJUNCTION WITH U SERIES 5 POLES TO BE PLACED/REMOVED BY EPB PLEASE SEE PLAN SET FROM U SERIES 5.

3.) CONTRACTOR TO COORDINATE WITH EPB PROJECT ENGINEER FOR PURCHASE AND SUPPLY OF MATERIALS FROM EPB.

4.) ALL FIBER STRAND & RELATED MATERIALS AND CONSTRUCTION PRACTICES TO MEET OR EXCEED CURRENT BELLCORE STANDARD SR-1421.

5.) EPB TO PROVIDED FIBER CABLES,FIBER DROPS, DISTRIBUTION ENCLOSURES AND ALL SPLICING THAT IS INVOLVED WITH EPB FACILITIES.

6.) ANCHORS TO BE PLACED BY EPB ELECTRICAL PLEASE SEE U5 PRINT SET FOR DETAILS.

811 Know what's below. Call 811 before you dig.

05/08/2026

GREGORY K. POSTON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 100984
STATE OF TENNESSEE

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	1"=50'
DATE	05.06.26

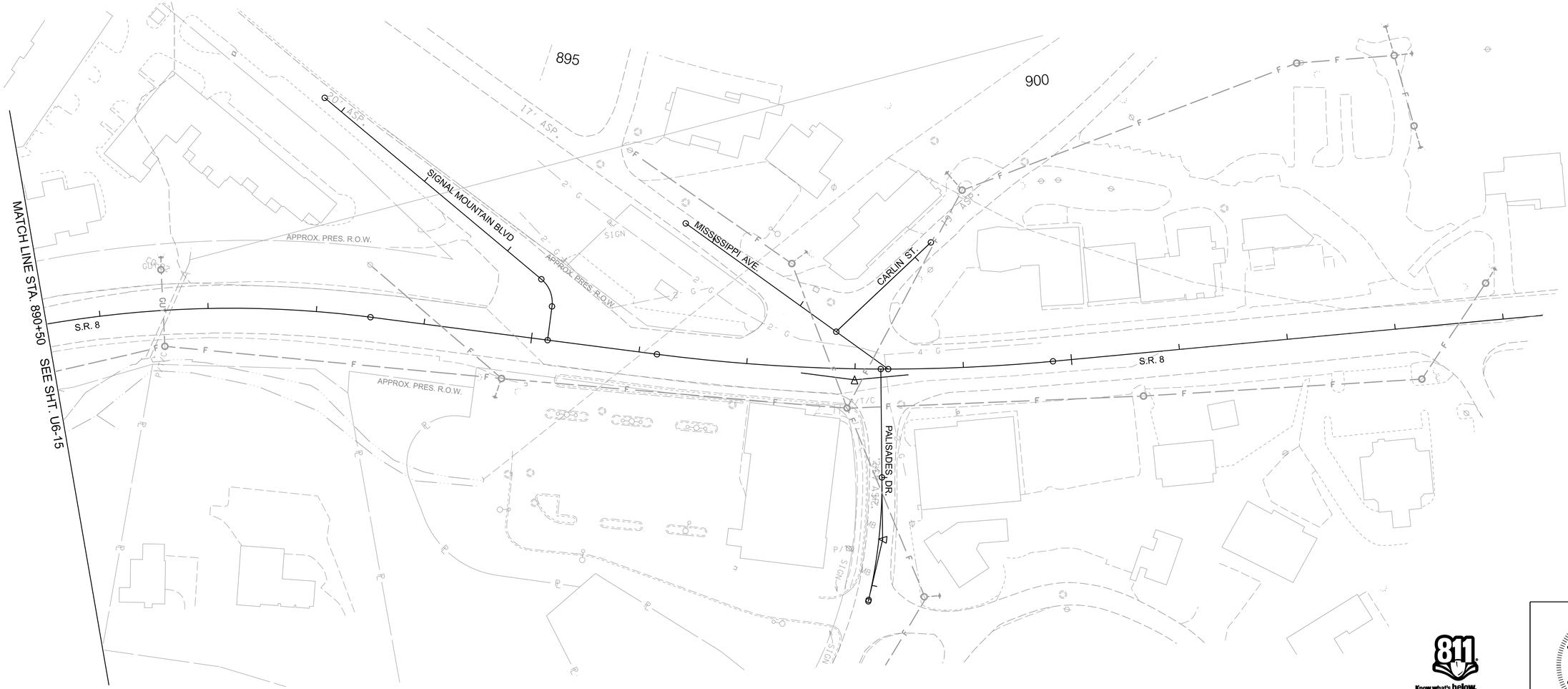
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 877+50 TO STA. 890+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-16

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



NO FIBER
RELOCATION THIS SHEET

Know what's below.
Call 811 before you dig.

05/08/2026

GREGORY K. POSTON
REGISTERED ENGINEER
AGRICULTURE
COURTESY
No. 100945
STATE OF TENNESSEE

ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	1"=50'
DATE	05.06.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

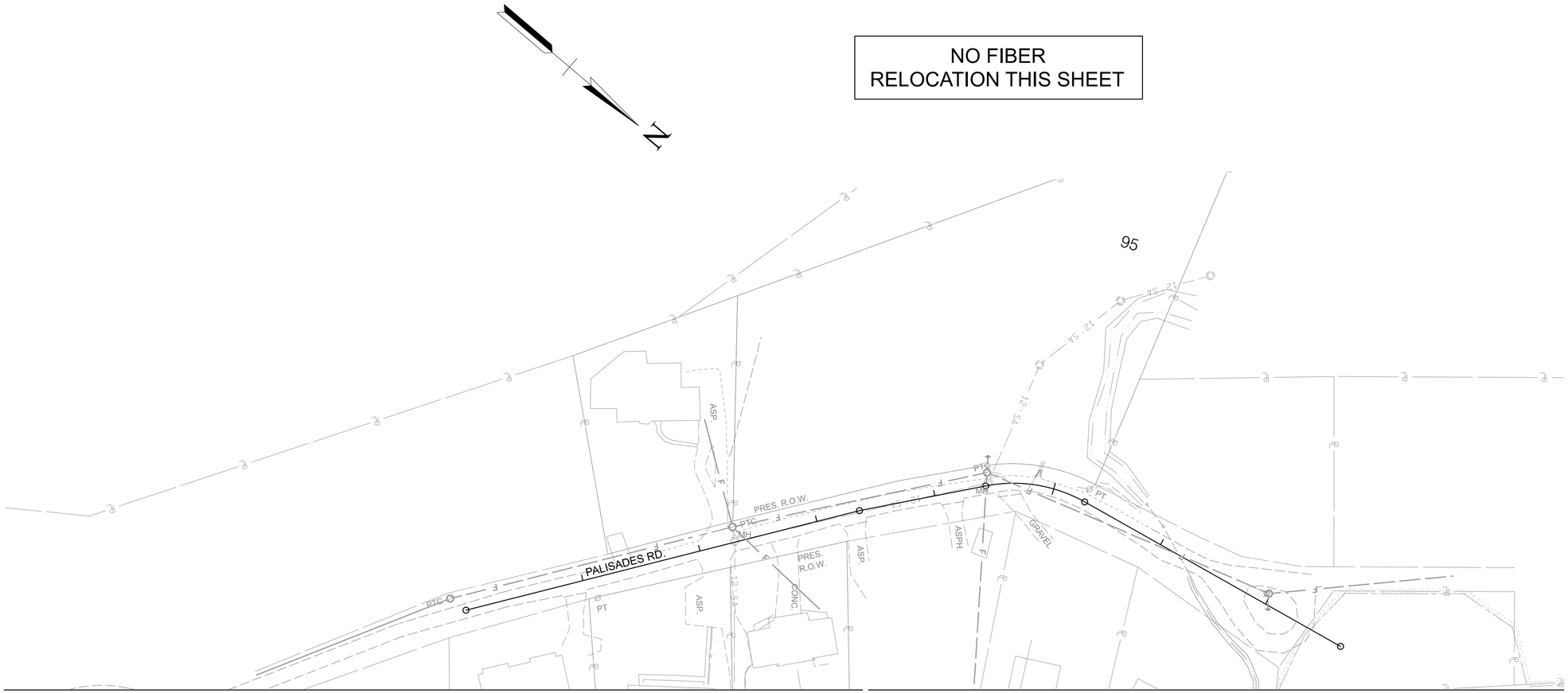
TELECOMMUNICATION RELOCATION
STA. 890+50 TO STA. 898+23.78

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-17

33021-3231-14

HAMILTON COUNTY
PIN #124080.00

NO FIBER
RELOCATION THIS SHEET



MATCH LINE STA. 825+50 SEE SHT. U6-10

MATCH LINE STA. 825+50 SEE SHT. U6-11

Know what's below.
Call 811 before you dig.

05/08/2026

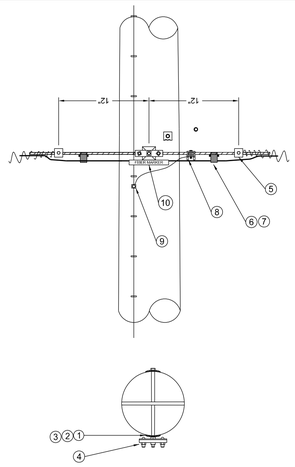
GREGORY K. POSTON
REGISTERED ENGINEER
AGRICULTURE
No. 100945
STATE OF TENNESSEE

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	1"=50'
DATE	05.06.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 825+50 TO CONST. LIMITS



GENERAL NOTES:

1. MAXIMUM LINE ANGLE 10°.

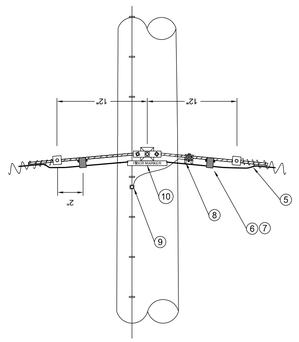
2. THE END OF ALL MACHINE OR EYE BOLTS MUST NOT EXTEND MORE THAN 1-1/2" BEYOND THE NUT.

ID	QTY.	DESCRIPTION
1	1	BOLT, MACHINE, GALVANIZED, SHSN, 5/8" x 12"
2	2	NUT, SQUARE, 5/8"
3	2	WASHER, CURVED, 3" SQ, 11/16" HOLE, MALLEABLE IRON
4	1	CLAMP, B, SUSPENSION, 11/16" x 15/16" HOLE
5	2	D LASHING WIRE CLAMP, GALVANIZED
6	2	SPACER CABLE, 1/2" BELL TYPE
7	2	LASHED CABLE SUPPORT STRAPS, STAINLESS STEEL 16"
8	1	CONNECTOR
9	1	CONNECTOR, SIZE AS REQUIRED
10	1	PLP FIBER OPTIC MARKER, ORANGE

NO	DATE	BY	REVISION

APPROVED:

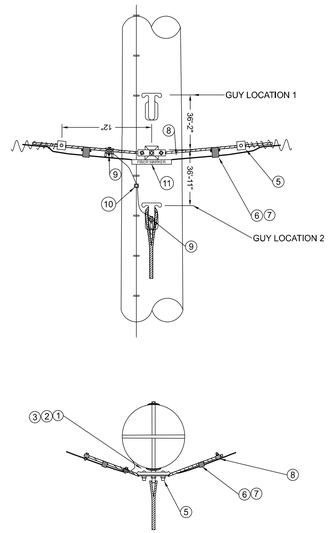
STRAIGHT LINE ATTACHMENT 0° TO 10°			FIBER STANDARDS & DESIGN	
DATE	DRAWN BY	CHECKED BY	NO. 1	SUS



NO	DATE	BY	REVISION

APPROVED:

CORNER ATTACHMENT 10° TO 50° INSIDE CORNER			FIBER STANDARDS & DESIGN	
DATE	DRAWN BY	CHECKED BY	NO. 1	SUSA



NO	DATE	BY	REVISION

APPROVED:

CORNER ATTACHMENT 10° TO 50° REVERSE CORNER			FIBER STANDARDS & DESIGN	
DATE	DRAWN BY	CHECKED BY	NO. 2	SUSA

INSIDE CORNER

ID	QTY.	DESCRIPTION
1	1	WASHER, CURVED, 4"SQ, 13/16" HOLE, MEALEABLE IRON
2	2	NUT, LOCKNUT, 3/4"
3	1	BOLT, MACHINE, GALVANIZED, 3/4" x REQUIRED LENGTH
4	1	ATTACHMENT, GUY, MALLEABLE IRON, 'C' GUY HOOK
5	1	CLAMP B, CORNER, SUSPENSION
6	2	SPACER CABLE, 1/2" BELL TYPE
7	2	LASHED CABLE SUPPORT STRAPS, STAINLESS STEEL 16"
8	2	D LASHING WIRE CLAMP, GALVANIZED
9	1	CONNECTOR
10	1	CONNECTOR, SIZE AS REQUIRED
11	1	PLP FIBER OPTIC MARKER, ORANGE

REVERSE CORNER

ID	QTY.	DESCRIPTION
1	3	WASHER, CURVED, 4"SQ, 13/16" HOLE, MEALEABLE IRON
2	3	NUT, LOCKNUT, 3/4"
3	2	BOLT, MACHINE, GALVANIZED, 3/4" x REQUIRED LENGTH
4	1	ATTACHMENT, GUY, MALLEABLE IRON, 'C' GUY HOOK
5	1	CLAMP B, CORNER, SUSPENSION
6	2	SPACER CABLE, 1/2" BELL TYPE
7	2	LASHED CABLE SUPPORT STRAPS, STAINLESS STEEL 16"
8	2	D LASHING WIRE CLAMP, GALVANIZED
9	2	CONNECTOR
10	1	CONNECTOR, SIZE AS REQUIRED
11	1	PLP FIBER OPTIC MARKER, ORANGE

GENERAL NOTES:

1. CABLE BEND RADIUS TO BE DETERMINED.

2. USE 'C' GUY HOOKS ONLY ON WOOD STRUCTURES. SUBSTITUTE ON STEEL OR CONCRETE STRUCTURES.

3. ALL GUYS MUST BE TENSIONED PRIOR TO PLACING STRAND.

4. THE END OF ALL MACHINE OR EYE BOLYS MUST NOT EXTEND MORE THAN 1-1/2" BEYOND THE NUT.

5. ALL STRAND HARDWARE MOUNTED ON SEPERATE BOLT MUST BE BONDED TOGETHER AND TO THE VERTICAL GROUND, IF EXISTING. DO NOT BOND TO ANY PART OF A STANDVISE OR PREFORMED DEADEND.

6. TAIL OF THE GUY WIRE/STRAND MUST NOT EXTEND BEYOND OUTSIDE THE BAIL OF TERMINATING DEVICE.

NO	DATE	BY	REVISION

APPROVED:

CORNER ATTACHMENT 10° TO 50° REVERSE CORNER			FIBER STANDARDS & DESIGN	
DATE	DRAWN BY	CHECKED BY	NO. 3	SUSA

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-18

33021-3231-14

HAMILTON COUNTY
PIN #124080.00

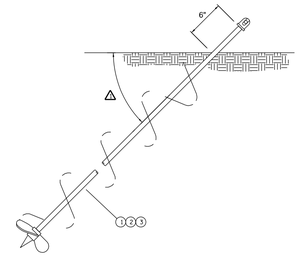
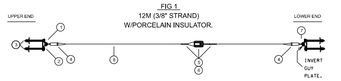
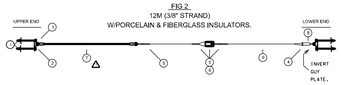


FIG 1
12M (3/8" STRAND)
W/PORCELAIN INSULATOR.



#	QTY	DESCRIPTION	ITEM	CU
1	2	ATTACHMENTS-GUY-POLE EYE PLATE	I0424	DGS12P
2	4	BOLT-MACH-GALV-SHSN-3/4"X14"	I0641	-OR-
3	4	WASHER-CURVED-4"SQ-13/16" HOLE-MALLEABLE IRON	I0333	TGS12P
4	2	DEADEND-AUTOMATIC-BAIL RIGID-3/8" STEEL STRAND	I0405	
5	2	DEADEND-PREFORMED-GUY STEEL STRAND 3/8"	I0454	
6	1	INSL-GUY STRAIN-12000 LBS- 4" PORC-BROWN OR GRAY	I0142	
7	2	CLEVIS-SHACKLE-ANCHOR 1/2"	I0429A	
8	1	WIRE-GUY-GALV.STEEL-3/8" (7) STRAND (12M)	I0822	

FIG 2
12M (3/8" STRAND)
W/PORCELAIN & FIBERGLASS INSULATORS.



#	QTY	DESCRIPTION	ITEM	CU
1	2	ATTACHMENTS-GUY-POLE EYE PLATE	I0424	DGS12P
2	4	BOLT-MACH-GALV-SHSN-3/4"X14"	I0641	-OR-
3	4	WASHER-CURVED-4"SQ-13/16" HOLE-MALLEABLE IRON	I0333	TGS12P
4	1	DEADEND-AUTOMATIC-BAIL RIGID-3/8" STEEL STRAND	I0405	
5	3	DEADEND-PREFORMED-GUY.STEEL STRAND 3/8"	I0454	
6	1	INSL-GUY STRAIN-12000 LBS- 4" PORC-BROWN OR GRAY	I0142	
7	1	INSL-GUY STRAIN-21000 LBS- 54" FIBERGLASS	I0860	
8	1	CLEVIS-SHACKLE-ANCHOR 1/2"	I0429A	
9	1	WIRE-GUY-GALV.STEEL-3/8" (7) STRAND (12M)	I0822	

△ GENERAL NOTES
1. TO SPECIFY ADDITIONAL LINKS USE:
DIG54WF8, TIG54WF8 FOR 54" FG LINKS.
DIG144WF8,TIG144WF8 FOR 144" LINKS.

THESE ASSEMBLIES FOR ADDITIONAL LINKS INCLUDE THE FIGURE 8 STEEL LINK (ITEM I0370) USED TO CONNECT FG LINKS TOGETHER.

FOR GUIDELINES IN SPECIFYING OR INSTALLING GUY INSULATORS SEE DWGS A-4538 AND A-4539.

FOR FIGURE 2 ASSEMBLY WITH 144" LINK (INSTEAD OF 54") SPECIFY: DGD12PFL -OR- TGD12PFL.

2. USE 3/4" BOLTS WHEN ATTACHING ANY GUY HOOK OR POLE EYE PLATE TO POLE.

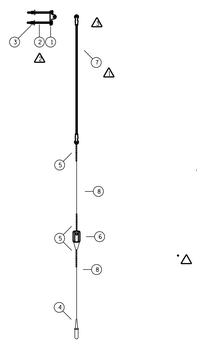
3. DO NOT PLACE ANY FG LINKS IN A BIND. USE EITHER A SHACKLE CLEVIS (ITEM I0429A) OR A DOUBLE 90° CLEVIS (ITEM I0345) TO CONNECT FG LINK TO POLE EYE PLATE (ITEM I0424). AS NEEDED.

4. SPECIFY THE LENGTH OF THE SPAN GUY WHEN USING THIS ASSEMBLY.

NO	DATE	BY	REVISION

APPROVED:

STANDARD GUY ASSEMBLY 12M (3/8") GALV. SPAN GUY			FIBER STANDARDS & DESIGN	
DATE	DRAWN BY	CHECKED BY	NO. A-3093	OH-GUY



△ SEE GENERAL NOTES

GENERAL NOTES
1. TO SPECIFY ADDITIONAL LINKS USE:
DIG54WF8, TIG54WF8 FOR 54" FG LINKS.
DIG144WF8,TIG144WF8 FOR 144" LINKS.

THESE ASSEMBLIES FOR ADDITIONAL LINKS INCLUDE THE FIGURE 8 STEEL LINK (ITEM I0370) USED TO CONNECT FG LINKS TOGETHER.

FOR GUIDELINES IN SPECIFYING OR INSTALLING GUY INSULATORS SEE DWGS A-4538 AND A-4539.

FOR FIGURE 2 ASSEMBLY WITH 144" LINK (INSTEAD OF 54") SPECIFY: DGD12PFL -OR- TGD12PFL.

2. USE 3/4" BOLTS WHEN ATTACHING ANY GUY HOOK OR POLE EYE PLATE TO POLE.

3. DO NOT PLACE ANY FG LINKS IN A BIND. USE EITHER A SHACKLE CLEVIS (ITEM I0429A) OR A DOUBLE 90° CLEVIS (ITEM I0345) TO CONNECT FG LINK TO POLE EYE PLATE (ITEM I0424). AS NEEDED.

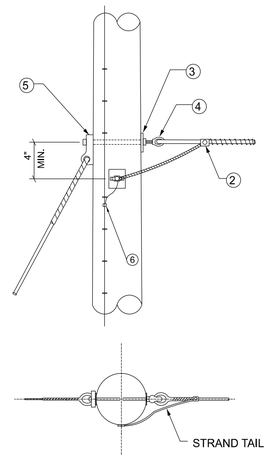
QTY	DESCRIPTION	ITEM	CU
1	1 ATTACHMENTS-GUY-POLE EYE PLATE	I0424	DGD12PF
2	2 BOLT-MACH-GALV-SHSN-3/4"X14"	I0641	-OR-
3	2 WASHER-CURVED-4"SQ-13/16" HOLE-MALLEABLE IRON	I0333	TGD12PF
4	1 DEADEND-AUTOMATIC-BAIL RIGID-3/8" STEEL STRAND	I0405	
5	3 DEADEND-PREFORMED-GUY.STEEL STRAND 3/8"	I0454	
6	1 INSL-GUY STRAIN-12000 LBS- 4" PORC-BROWN OR GRAY	I0142	
7	1 INSL-GUY STRAIN-21000 LBS- 54" FIBERGLASS	I0860	
8	35 WIRE-GUY-GALV.STEEL-3/8" (7) STRAND (12M)	I0822	

(55' OF GUY WIRE IN TGD12PF)

NO	DATE	BY	REVISION

APPROVED:

STANDARD GUY ASSEMBLY 12M (3/8") GALV. DOWN GUY			FIBER STANDARDS & DESIGN	
DATE	DRAWN BY	CHECKED BY	NO. A-3090	DG



NOTES:

1. PREFORMED DEADEND MUST BE PROPER OVAL SHAPE AND FIT COMPLETELY INTO GUY STRAP.

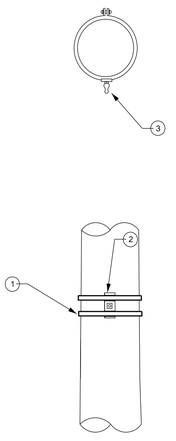
2. IF BOND BETWEEN STRAND AND DOWN GUY IS REQUIRED BY SPECIFIC LOCAL INTERPRETATION USE GUY TAIL AND K-2 BONDING CLAMP.

ID	QTY.	DESCRIPTION
1	AS REQ'D	#4 CU. GROUND WIRE (LENGTH AS REQUIRED)
2	1	K-2 BONDING CLAMP
3	1	5/8" x REQUIRED LENGTH MACHINE BOLT W/ LOCKNUT
4	1	THIMBLEYE NUT
5	1	GUYING BRACKET
6	1	CONNECTOR, SIZE AS REQUIRED

NO	DATE	BY	REVISION

APPROVED:

STRAND DEADEND			FIBER STANDARDS & DESIGN	
DATE	DRAWN BY	CHECKED BY	NO.	DE



NOTE:

1. EYE NUT NOT USED FOR SUS OR SUSA ASSEMBLY.

ID	QTY.	DESCRIPTION
1		STAINLESS DOUBLE BANDING WITH BUCKLES
2	1	STAINLESS MOUNTING BRACKET, HEAVY DUTY, 3/4" BOLT
3	1	EYE NUT, 3/4"

NO	DATE	BY	REVISION

APPROVED:

COMM ATTACHMENT POLE BAND TYPE			FIBER STANDARDS & DESIGN	
DATE	DRAWN BY	CHECKED BY	NO.	J-HOOK-BAND

GENERAL NOTES:

△ 1. THIS ANGLE DETERMINED BY ATTACHMENT POINT OF GUY ON POLE. ANCHOR ROD SHOULD BE INLINE WITH GUY WIRE.

BILL OF MATERIAL

ITEM	SIZE 12M	SIZE 24M	SIZE 36M	DESCRIPTION
1.	1			ANCHOR - SCREW TYPE - 8" DIA. WITH 1" X 7'-0" TWINEYE ROD
				12MLB, 12,000# RATING IN CLASS 5 SOIL
2.		1		ANCHOR - SCREW TYPE - 14" DIA. WITH 1" X 7'-0" TRIPLEYE ROD
				24MLB, 24,000LB RATING IN CLASS 5 SOIL
3.			1	ANCHOR - SCREW TYPE - 10" & 12" DOUBLE WITH TRIPLEYE ADAPTER
				36MLB, 36,000LB RATING IN CLASS 5 SOIL

NO	DATE	BY	REVISION

APPROVED:

ANCHOR ASSEMBLIES 12M, 24M, 36M ANCHORS			FIBER STANDARDS & DESIGN	
DATE	DRAWN BY	CHECKED BY	NO. A-3090	12M,24M, 36M

05/08/2026

GREGORY K. POSTON
REGISTERED ENGINEER
AGRICULTURE
POWERS
No. 100945
STATE OF TENNESSEE

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
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Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
CONSTRUCTION DETAILS

INDEX OF DRAWINGS

U6-01 TELECOMMUNICATIONS RELOCATION ESTIMATED QUANTITIES AND DRAWING INDEX
U6-02 TELECOMMUNICATIONS RELOCATION VICINITY MAP AND LEGEND
U6-03 TELECOMMUNICATIONS RELOCATION GENERAL NOTES
U6-04 TELECOMMUNICATIONS RELOCATION STA. BEGIN OF PROJECT TO STA. 747+50
U6-05 TELECOMMUNICATIONS RELOCATION STA. 747+50 TO STA. 760+50
U6-06 TELECOMMUNICATIONS RELOCATION STA. 760+50 TO STA. 773+50
U6-07 TELECOMMUNICATIONS RELOCATION STA. 773+50 TO STA. 786+50
U6-08 TELECOMMUNICATIONS RELOCATION STA. 786+50 TO STA. 799+50
U6-09 TELECOMMUNICATIONS RELOCATION STA. 799+50 TO STA. 812+50
U6-10 TELECOMMUNICATIONS RELOCATION STA. 812+50 TO STA. 825+50
U6-11 TELECOMMUNICATIONS RELOCATION STA. 825+50 TO STA. 838+50
U6-12 TELECOMMUNICATIONS RELOCATION STA. 838+50 TO STA. 851+50
U6-13 TELECOMMUNICATIONS RELOCATION STA. 851+50 TO STA. 864+50
U6-14 TELECOMMUNICATIONS RELOCATION STA. 864+50 TO STA. 877+50
U6-15 TELECOMMUNICATIONS RELOCATION STA. 877+50 TO STA. 890+50
U6-16 TELECOMMUNICATIONS RELOCATION STA. 890+50 TO STA. 898+23.78
U6-17 TELECOMMUNICATIONS RELOCATION STA. 825+50 TO CONST. LIMITS
U6-18 TELECOMMUNICATIONS RELOCATION CONSTRUCTION DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-01

33021-3231-14

HAMILTON COUNTY
PIN #124080.00

ESTIMATED QUANTITIES

ITEM NO.	TDOT DESCRIPTION	UTILITY UNIT DESCRIPTION	UNIT	QUANTITY	PERCENT UTILITY	PERCENT PROJECT
790-32.23	GUY GUARD	E3-10	EACH	3	0%	100%
798-05.27	COMMUNICATION ASSEMBLY(BOND)	SC	EACH	3	0%	100%
798-05.33	COMMUNICATION ASSEMBLY (DE)	DE	EACH	2	0%	100%
798-05.34	COMMUNICATION ASSEMBLY(E1-2)	E1-2	EACH	3	0%	100%
798-05.35	COMMUNICATION ASSEMBLY(E2-2)	E2-2	EACH	2	0%	100%
798-05.37	COMMUNICATION ASSEMBLY (F2&F3)	F2 & F3	EACH	1	0%	100%
798-05.54	COMMUNICATION ASSEMBLY(SVC)	J-HOOK	EACH	3	0%	100%
798-08.05	TRANSFER FEEDER CABLE/TERMINALS		EACH	6	0%	100%
798-09.03	REMOVE POLES,GUYS,ANCHORS		EACH	9	0%	100%
798-09.08	REMOVE STRAND POLE FRAMING		EACH	8	0%	100%

6

FOOTNOTES:

6. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO SETUP, TRAFFIC CONTROL, AND BONDING/GROUNDING.

UTILITY INFORMATION
ELECTRIC POWER BOARD OF CHATTANOOGA
10 WEST M.L. KING BLVD.
CHATTANOOGA, TENNESSEE 37402
CONTACT: ADAM NORWOOD
PHONE: 423 648 3305
EMAIL: NORWOODAW@EPB.NET

ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	DATE
NONE	05.06.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
ESTIMATED QUANTITIES AND DRAWING INDEX

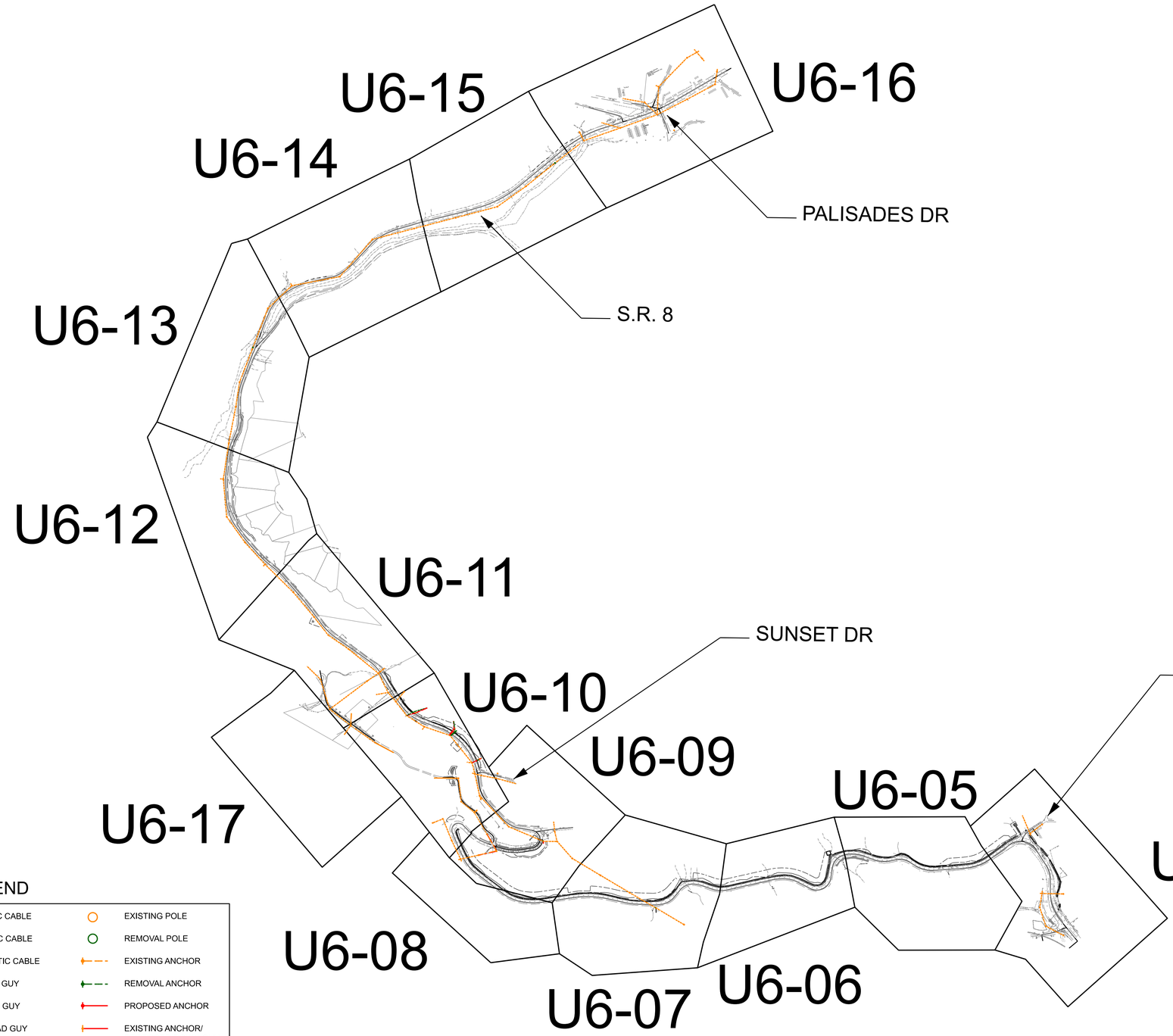
HAMILTON COUNTY

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-02

33021-3231-14

HAMILTION COUNTY
PIN #124080.00

SR-8
FROM GLENDALE DR. TO PALISADES DR.



LEGEND

F	EXISTING FIBEROPTIC CABLE		EXISTING POLE
F	REMOVAL FIBEROPTIC CABLE		REMOVAL POLE
F	PROPOSED FIBEROPTIC CABLE		EXISTING ANCHOR
GUY	EXISTING OVERHEAD GUY		REMOVAL ANCHOR
GUY	REMOVAL OVERHEAD GUY		PROPOSED ANCHOR
GUY	PROPOSED OVERHEAD GUY		EXISTING ANCHOR/ PROPOSED DOWN GUY

ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE: NONE	DATE: 05.06.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
VICINITY MAP AND LEGEND

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-03

33021-3231-14

HAMILTON COUNTY
PIN #124080.00

GENERAL CONSTRUCTION NOTES

1. THE FOLLOWING INFORMATION APPLIES TO THE UTILITY CONTRACTOR RESPONSIBLE FOR THE RELOCATION OF THE COMMUNICATION FACILITIES ALONG THIS PROJECT.

2. ANY DEVIATION OF THE CONDITIONS LISTED MUST BE APPROVED BY THE UTILITY PRIOR TO THE DEVIATION TAKING PLACE ON THE PROJECT. FAILURE BY THE UTILITY CONTRACTOR OR SUBCONTRACTORS TO FOLLOW THESE CONDITIONS AS LISTED WILL RESULT IN REFUSAL OF ACCEPTANCE BY THE UTILITY OWNER TO ACCEPT THE PROJECT AT IT'S COMPLETION UNTIL SUCH TIME AS ANY DEFICIENCIES ARE CORRECTED TO THE SATISFACTION OF THE UTILITY.

3. ALL WORK SHALL BE DONE IN A SAFE, THOROUGH AND WORKMAN-LIKE MANNER IN ACCORDANCE WITH THE PLAN SHEETS, CONSTRUCTION DETAILS AND TECHNICAL SPECIFICATIONS AS WELL AS ANY AND ALL APPLICABLE SAFETY CODES, INCLUDING, BUT NOT LIMITED TO, THE NATIONAL ELECTRICAL SAFETY CODE (NESC), AND ANY OTHER STATE AND LOCAL CODES THAT ARE REQUIRED FOR THE TYPE OF UTILITY RELOCATION THAT IS BEING PERFORMED AS PART OF THIS CONTRACT.

4. THE UTILITY CONTRACTOR SHALL EXERCISE ALL STANDARD SAFETY PRACTICES WHEN WORKING AROUND ENERGIZED ELECTRICAL LINES (e.g. RUBBER GOODS INSPECTIONS, GROUNDING OF LINES AND VEHICLES / EQUIPMENT, TOOL INSPECTIONS, ADEQUATE SUPERVISION, ETC.).

5. THE UTILITY CONTRACTOR SHALL BEAR THE RESPONSIBILITY FOR THE SAFETY OF ITS EMPLOYEES AND SHALL ENSURE THAT THEY ABIDE BY ALL STATE, FEDERAL AND LOCAL REGULATIONS REGARDING SAFE WORK PRACTICES. IF SUCH REGULATIONS ARE VIOLATED, THE UTILITY OWNER SHALL MAINTAIN THE RIGHT TO STOP WORK ON THEIR FACILITIES UNTIL SUCH CONDITIONS ARE CORRECTED.

6. IN GENERAL, THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS, METHODS, AND/OR INTEGRAL MATERIALS OUTLINED IN THE UTILITY CONSTRUCTION DRAWINGS AND THE TECHNICAL SPECIFICATIONS THAT ARE NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION OF THE UTILITY FACILITIES BEING RELOCATED.

7. UTILITY CONSTRUCTION DRAWINGS ARE INCLUDED AS PART OF THE DRAWING PACKET AND MUST BE ADHERED TO DURING ALL PHASES OF CONSTRUCTION.

8. ALL MATERIALS TO BE USED BY THE UTILITY CONTRACTOR ON THE PROJECT MUST BE NEW MATERIALS AND MUST BE APPROVED BY THE UTILITY OWNER PRIOR TO PURCHASE OR USE. A PROPOSED LIST OF MATERIALS SHALL BE SUBMITTED TO THE UTILITY OWNER AS NOTED IN THE TECHNICAL SPECIFICATIONS FOR THE PROJECT. NO MATERIAL SUBSTITUTIONS ARE ALLOWED WITHOUT THE PRIOR CONSENT OF THE UTILITY OWNER. STORAGE LOCATION OF MATERIALS ON THE PROJECT SITE MUST BE A SECURE ENVIRONMENT. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR ANY LOST, STOLEN OR DAMAGED MATERIALS ON THE PROJECT.

9. THE UTILITY CONTRACTOR IS REQUIRED TO MAINTAIN COMMUNICATION WITH THE UTILITY OWNER'S PROJECT REPRESENTATIVE USING TELEPHONE COMMUNICATIONS.

10. THE UTILITY CONTRACTOR IS TO PERFORM ALL REQUIRED WORK IN SUCH A MANNER AS TO NOT CAUSE UNINTENTIONAL OUTAGES TO THE CUSTOMERS ALONG THE PROJECT. ALL PLANNED OUTAGES MUST BE HANDLED IN ACCORDANCE WITH SECTION 01 1113 "SUMMARY OF WORK" IN THE CONSTRUCTION TECHNICAL SPECIFICATIONS. LARGE SCALE OUTAGES ARE NOT ALLOWED.

11. IF FIELD CONDITIONS ARISE WHICH PREVENT THE CONSTRUCTION ON THE PROJECT FROM PROCEEDING AS DESIGNED, THE UTILITY CONTRACTOR WILL COORDINATE WITH THE UTILITY OWNER / ENGINEER TO RESOLVE THE ISSUES SO THAT CONSTRUCTION CAN CONTINUE.

12. THE UTILITY CONTRACTOR SHALL COMPLY WITH ALL TDOT REGULATIONS, PERMITS AND TRAFFIC CONTROL GUIDELINES AS REQUIRED.

13. THE LOCATIONS OF EXISTING UTILITIES SHOWN WITHIN THESE DRAWINGS ARE BASED ON INFORMATION PROVIDED BY TDOT, AND SHALL BE VERIFIED BY THE UTILITY CONTRACTOR PRIOR TO CONSTRUCTION. THE UTILITY CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES AND REQUEST THAT THE UTILITY OWNERS PROPERLY LOCATE AND MARK THEIR PERSPECTIVE UTILITY ON THE GROUND.

14. THE UTILITY CONTRACTOR SHALL REQUEST UTILITY LOCATIONS A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO BEGINNING ANY CONSTRUCTION IN THE AREA OF THE UTILITIES IN QUESTION.

15. THE TDOT PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE EXISTING UNDERGROUND UTILITIES. THE PRIME CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY EXISTING UTILITY OWNER PRIOR TO DIGGING. IN THE EVENT THAT THERE IS ANY DAMAGE TO OR INTERRUPTION OF EXISTING FACILITIES, THE PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ANY COST INCURRED FROM THE EVENT.

16. SOME EXISTING UTILITIES CAN BE LOCATED BY CALLING TENNESSEE ONE-CALL SYSTEMS, INC. AT "811".

17. THE UTILITY CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THE PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND EXISTING UTILITIES, THE UTILITY CONTRACTOR SHALL BE REQUIRED TO FURNISH THE EQUIPMENT NECESSARY TO COMPLETE THE WORK.

18. THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY ITS EMPLOYEES IN AREAS OUTSIDE OF TDOT ROW ALONG THE LENGTH OF THE PROJECT. THE UTILITY CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR RESOLVING ALL COMPLAINTS THAT MAY ARISE FROM ITS ACTIVITIES, AND SHALL PROMPTLY REPORT SUCH COMPLAINTS TO THE UTILITY OWNER AS TO WHETHER OR NOT IT HAS BEEN RESOLVED.

19. GROUND AND AERIAL INSPECTION OF INSTALLED FACILITIES ONCE COMPLETED SHALL BE THE RESPONSIBILITY OF THE UTILITY CONTRACTOR. ANY CORRECTIONS THAT ARE REQUIRED SHALL BE DONE DURING THE CONSTRUCTION OF THE PROJECT AND VERIFIED BY THE UTILITY OWNER / ENGINEER. THE UTILITY OWNER WILL HAVE INSPECTORS ON-SITE TO VERIFY SAFETY AND QUALITY OF WORK IS CONSISTENT WITH UTILITY OWNER'S STANDARDS.

20. WHILE SOME WORK MAY ONLY BE REQUIRED "AROUND" OTHER UTILITY FACILITIES, SOME WORK MAY NEED TO BE DONE CONCURRENTLY WITH THE OPERATIONS OF OTHER UTILITY CONTRACTORS. IT IS THE RESPONSIBILITY OF THE TDOT PRIME CONTRACTOR TO ENSURE THAT ALL UTILITY COORDINATION BE ADDRESSED DURING THE CONSTRUCTION OF THE PROJECT.

21. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL FACILITIES INDICATED WITHIN THESE DRAWINGS AT "FINAL GRADE" AS SHOWN. ANY TEMPORARY INSTALLATIONS THAT ARE NOT SPECIFICALLY NOTED WITHIN THESE DRAWINGS AND THAT ARE NOT ADDRESSED AND COORDINATED PRIOR TO CONSTRUCTION OF THE PROJECT WILL BE THE RESPONSIBILITY OF THE TDOT PRIME CONTRACTOR.

22. CONSTRUCTION OF RELOCATED FACILITIES IS NOT CONSIDERED TO BE COMPLETE UNTIL THE UTILITY CONTRACTOR HAS ENERGIZED THE FACILITIES IN ACCORDANCE WITH UTILITY OWNER SPECIFICATIONS.

23. PERSONNEL CHANGES ARE TO BE KEPT TO A MINIMUM DURING THE CONSTRUCTION OF THE PROJECT AS TO REDUCE UNFAMILIAR PERSONNEL TO BE WORKING ON THE FACILITIES OF THE UTILITY OWNER.

24. THE TDOT PRIME CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL UTILITY FACILITIES THAT ARE TO BE RELOCATED WITHIN THE PROJECT.

25. WHERE EROSION CONTROL MEASURES ARE NEEDED FOR THE UTILITY WORK OCCURRING OUTSIDE THE STATE RIGHT-OF-WAY, THE UTILITY CONTRACTOR SHALL SUBMIT A PROPOSED EROSION AND SEDIMENT CONTROL PLAN TO THE TDOT PROJECT SUPERVISOR FOR APPROVAL PRIOR TO BEGINNING WORK.

26. THE DISTANCES THAT ARE SHOWN ON THE DRAWINGS ARE HORIZONTAL DISTANCES ONLY, AND DO NOT ALLOW FOR ANY CHANGES IN ELEVATION THAT EXIST ALONG THE PROJECT.

27. ALL ACTIVE AND PASSIVE EQUIPMENT SHALL BE PROVIDED BY THE UTILITY OWNER. THE LABOR COST, AND MINOR MATERIALS REQUIRED TO INSTALLL THESE UNITS SHALL BE INCLUDED IN THE BID FROM THE UTILITY CONTRACTOR.

28. LOCKNUTS SHALL BACK UP ALL NUTS ON THREADED BOLTS SUCH AS MACHINE BOLTS, ETC. EXISTENCE OF LOCKNUTS WILL BE CLOSELY EXAMINED BY THE UTILITY OWNER DURING CONSTRUCTION. BOLTS SHALL NOT EXTEND MORE THAN TWO (2) INCHES FROM NUTS.

29. THE UTILITY CONTRACTOR SHALL INSTALL FIBERGLASS INSULATOR GUYLINKS ON ALL DOWNGUYS WITHIN TWO (2) FEET OF PRIMARY CONDUCTORS.

30. ANCHORS THAT ARE TO BE RETIRED SHALL HAVE THE ROD UNSCREWED AND REMOVED, OR BE CUT OFF AT LEAST EIGHTEEN (18) INCHES BELOW FINAL GRADE.

31. THE UTILITY CONTRACTOR SHALL PROVIDE THE UTILITY OWNER WITH ONE (1) SET OF CLEAN, CLEARLY MARKED "AS-BUILT" DRAWINGS AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL REFLECT ANY AND ALL CHANGES THAT WERE MADE TO THE FACILITIES DURING CONSTRUCTION.

32. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONSTRUCTION DRAWINGS AND TECHNICAL SPECIFICATIONS FOR THE RELOCATION OF FACILITIES PRIOR TO BIDDING THE PROJECT. ANY QUESTIONS CONCERNING INFORMATION SHOWN IN THE CONTRACT DOCUMENTS SHALL BE ADDRESSED TO THE UTILITY OWNER / ENGINEER PRIOR TO BIDDING ON THE PROJECT.

33. UTILITY CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTING EACH REEL OF CABLE FOR THE PROJECT. ANY DAMAGE TO THE CABLE SHALL BE REMOVED AND SPLICED AS REQUIRED. ALL CABLES SHALL BE PROTECTED FROM EQUIPMENT OR VEHICLE TRAFFIC WHILE BEING INSTALLED.

34. ANY CUSTOMER OUTAGES FOR CUTOVER TO NEW CABLES MUST BE COORDINATED WITH AND SCHEDULED BY UTILITY OWNER. SCHEDULED CUSTOMER OUTAGES REQUIRE A MINIMUM OF 14 DAYS FOR NOTIFICATION.

ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	NONE
DATE	05.06.26

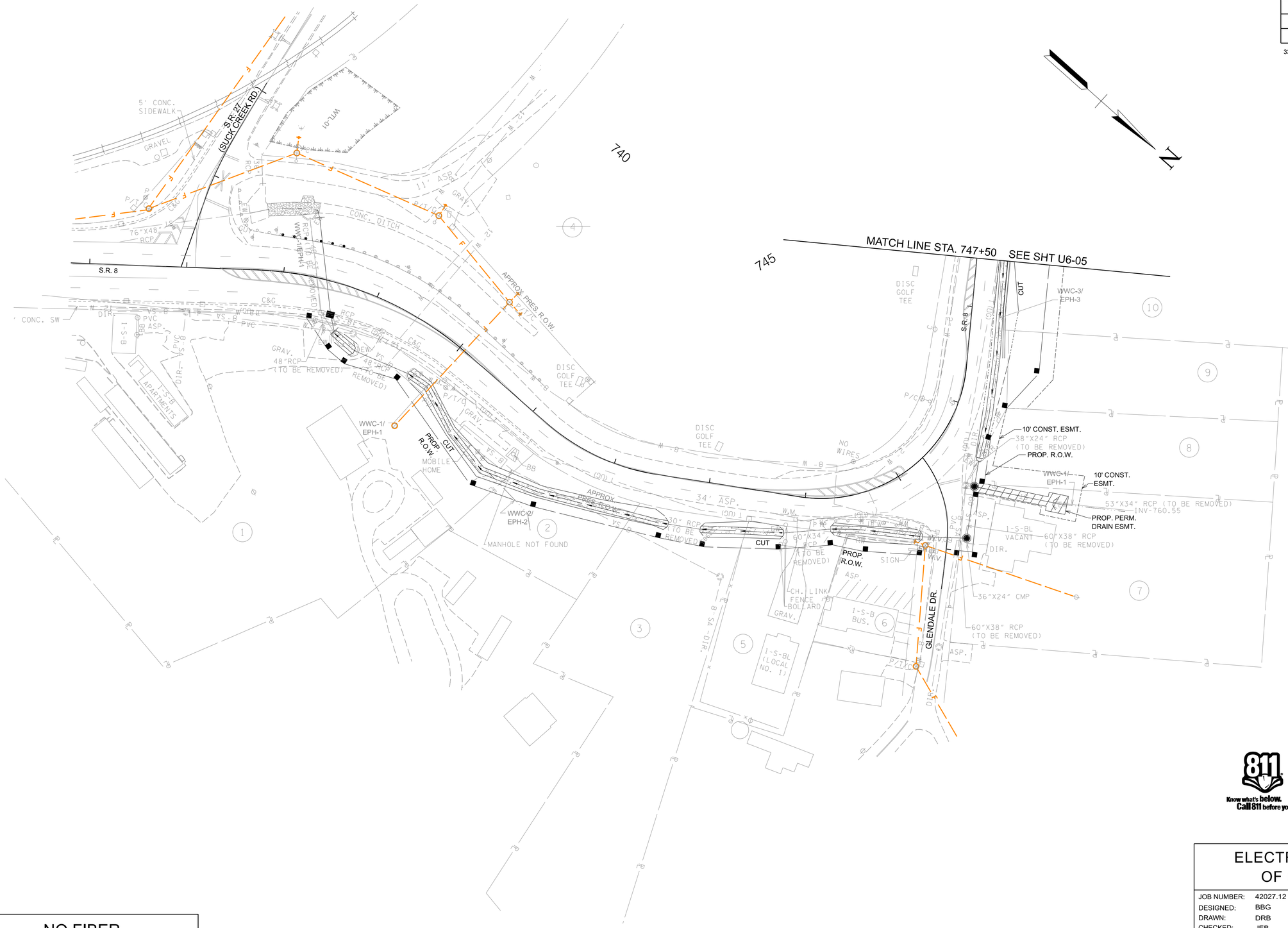
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-04

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



NO FIBER
RELOCATION THIS SHEET

811
Know what's below.
Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	1"=50'
DATE	05.06.26

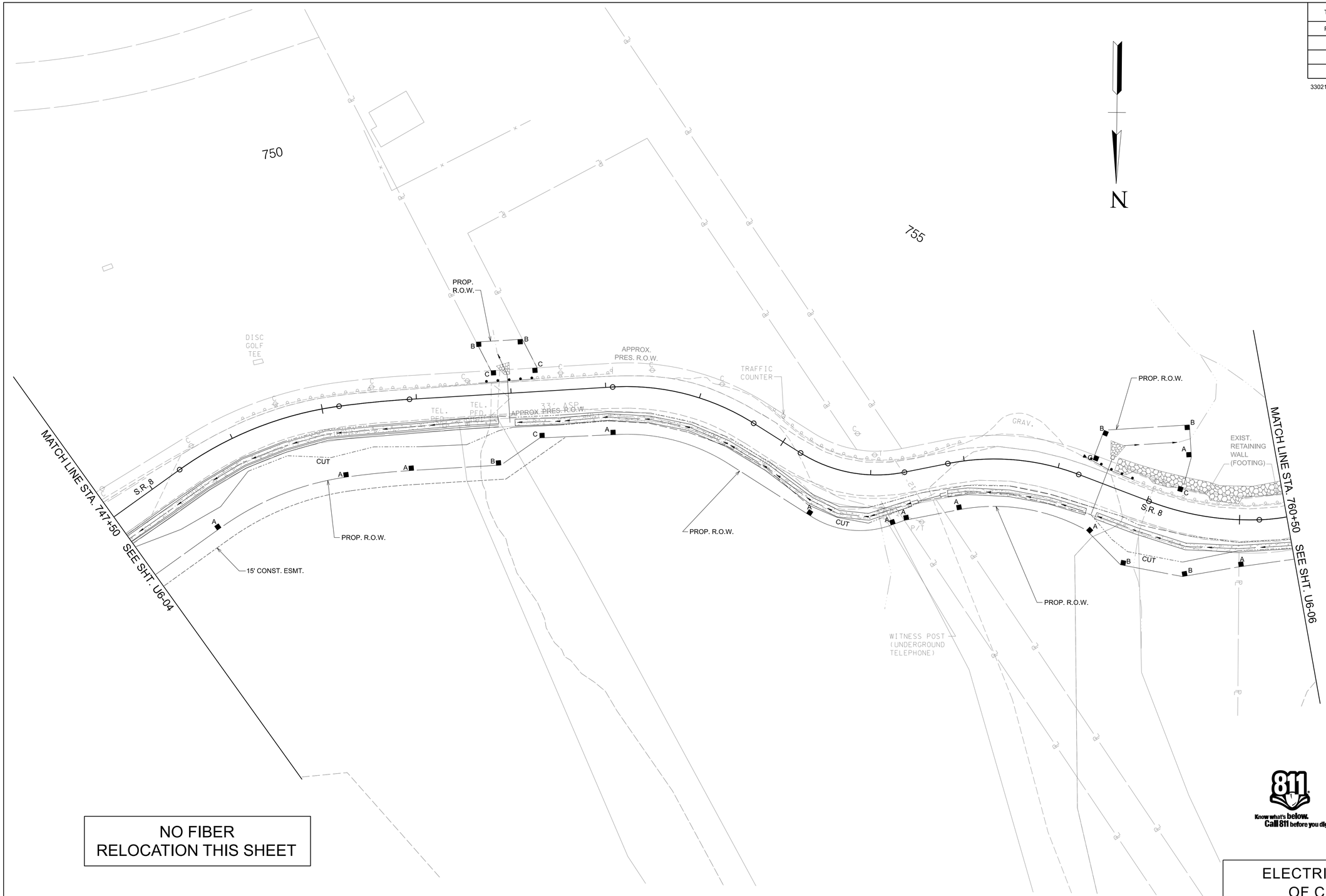
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
BEGIN PROJECT TO STA. 747+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-05

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



NO FIBER
RELOCATION THIS SHEET

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SCALE	DATE
1"=50'	05.06.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATIONS RELOCATION
STA. 747+50 STA. 760+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-06

33021-3231-14

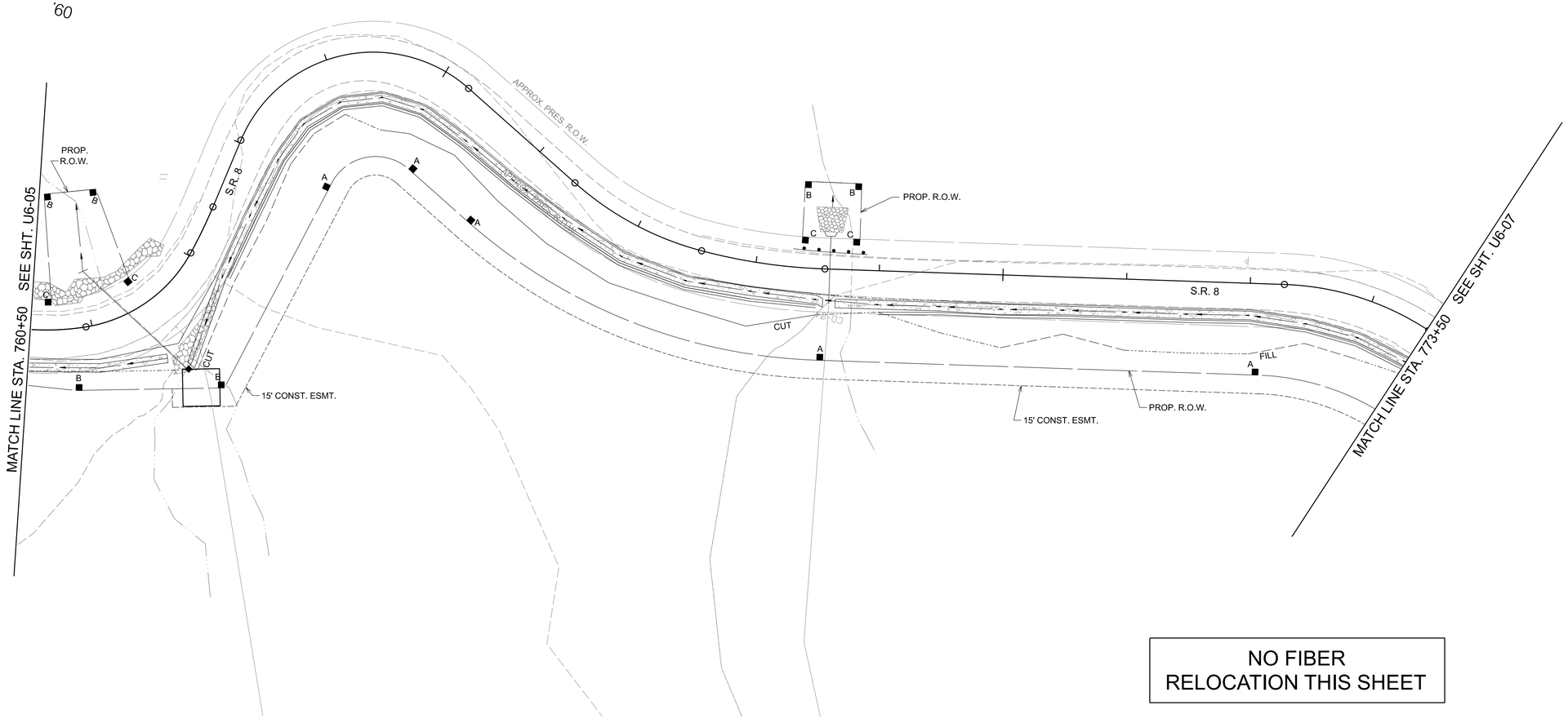
HAMILTON COUNTY
PIN #124080.00

765

770

760

N



NO FIBER
RELOCATION THIS SHEET

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ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.12
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SCALE	DATE
1"=50'	05.06.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 760+50 TO STA.773+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-07

33021-3231-14

HAMILTON COUNTY
PIN #124080.00

780

775

785

N

MATCH LINE STA. 773+50 SEE SHT. U6-06

MATCH LINE STA. 786+50 SEE SHT. U6-08

S.R. 8

APPROX. PRES. R.O.W.

PROP. R.O.W.

REMOVE:SC
INSTALL:SC
TRANSFER 144F
FROM POLE B8156R
TO POLE B8156

B8156

B8156R

CUT

FILL

15' CONST. ESMT.

CONSTRUCTION NOTES:

1.) ALL EXISTING FACILITIES TO BE TRANSFERRED TO NEW ALIGNMENT. ANY NECESSARY TEMPORARY WORK NEEDED TO ENSURE THE TRANSFER MUST BE COORDINATED WITH THE UTILITY OWNER.

2.) THIS JOB IS IN CONJUNCTION WITH U SERIES 5 POLES TO BE PLACED/REMOVED BY EPB PLEASE SEE PLAN SET FROM U SERIES 5.

3.) CONTRACTOR TO COORDINATE WITH EPB PROJECT ENGINEER FOR PURCHASE AND SUPPLY OF MATERIALS FROM EPB.

4.) ALL FIBER STRAND & RELATED MATERIALS AND CONSTRUCTION PRACTICES TO MEET OR EXCEED CURRENT BELLCORE STANDARD SR-1421.

5.) EPB TO PROVIDED FIBER CABLES,FIBER DROPS, DISTRIBUTION ENCLOSURES AND ALL SPLICING THAT IS INVOLVED WITH EPB FACILITIES.

6.) ANCHORS TO BE PLACED BY EPB ELECTRICAL PLEASE SEE U5 PRINT SET FOR DETAILS.

811 Know what's below. Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
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SCALE	1"=50'
DATE	05.06.26

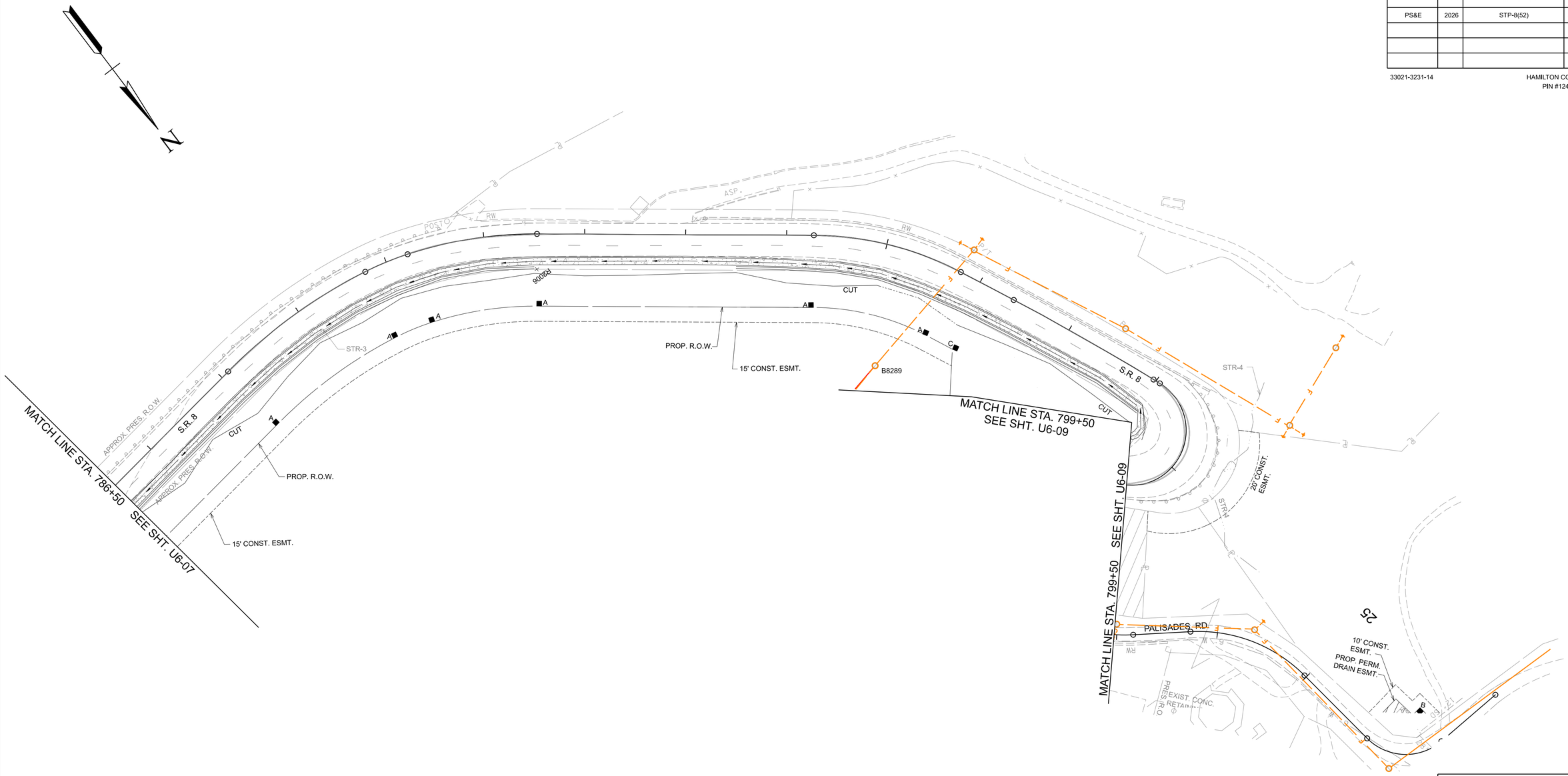
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 773+50 TO STA. 786+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-08

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



CONSTRUCTION NOTES:

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2.) THIS JOB IS IN CONJUNCTION WITH U SERIES 5 POLES TO BE PLACED/REMOVED BY EPB PLEASE SEE PLAN SET FROM U SERIES 5.

3.) CONTRACTOR TO COORDINATE WITH EPB PROJECT ENGINEER FOR PURCHASE AND SUPPLY OF MATERIALS FROM EPB.

4.) ALL FIBER STRAND & RELATED MATERIALS AND CONSTRUCTION PRACTICES TO MEET OR EXCEED CURRENT BELLCORE STANDARD SR-1421.

5.) EPB TO PROVIDED FIBER CABLES,FIBER DROPS, DISTRIBUTION ENCLOSURES AND ALL SPLICING THAT IS INVOLVED WITH EPB FACILITIES.

6.) ANCHORS TO BE PLACED BY EPB ELECTRICAL PLEASE SEE U5 PRINT SET FOR DETAILS.

811
Know what's below.
Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
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SCALE	1"=50'
DATE	05.06.26

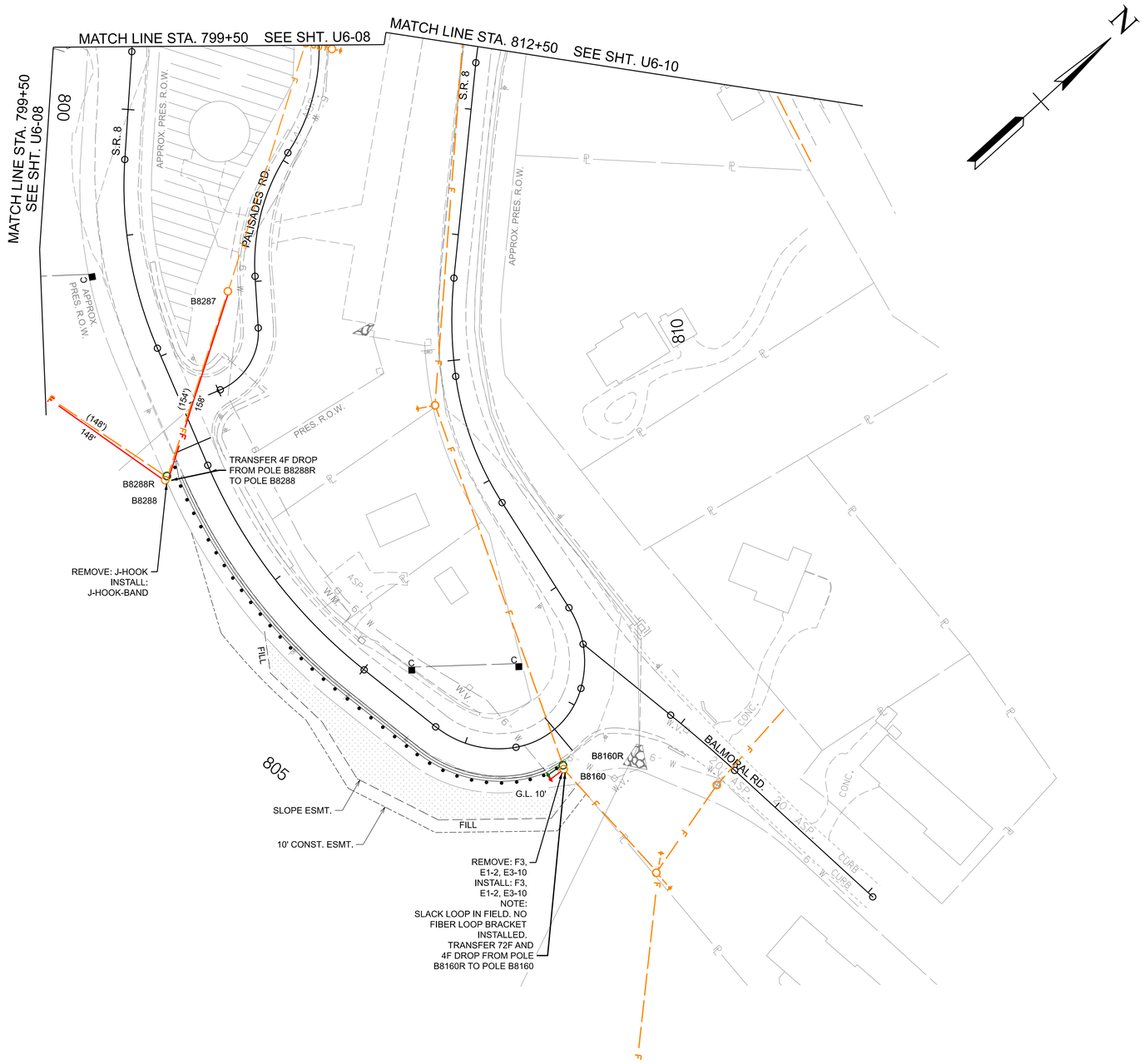
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 786+50 TO STA. 799+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-09

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



CONSTRUCTION NOTES:

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2.) THIS JOB IS IN CONJUNCTION WITH U SERIES 5 POLES TO BE PLACED/REMOVED BY EPB PLEASE SEE PLAN SET FROM U SERIES 5.

3.) CONTRACTOR TO COORDINATE WITH EPB PROJECT ENGINEER FOR PURCHASE AND SUPPLY OF MATERIALS FROM EPB.

4.) ALL FIBER STRAND & RELATED MATERIALS AND CONSTRUCTION PRACTICES TO MEET OR EXCEED CURRENT BELLCORE STANDARD SR-1421.

5.) EPB TO PROVIDED FIBER CABLES,FIBER DROPS, DISTRIBUTION ENCLOSURES AND ALL SPLICING THAT IS INVOLVED WITH EPB FACILITIES.

6.) ANCHORS TO BE PLACED BY EPB ELECTRICAL PLEASE SEE U5 PRINT SET FOR DETAILS.

811 Know what's below. Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

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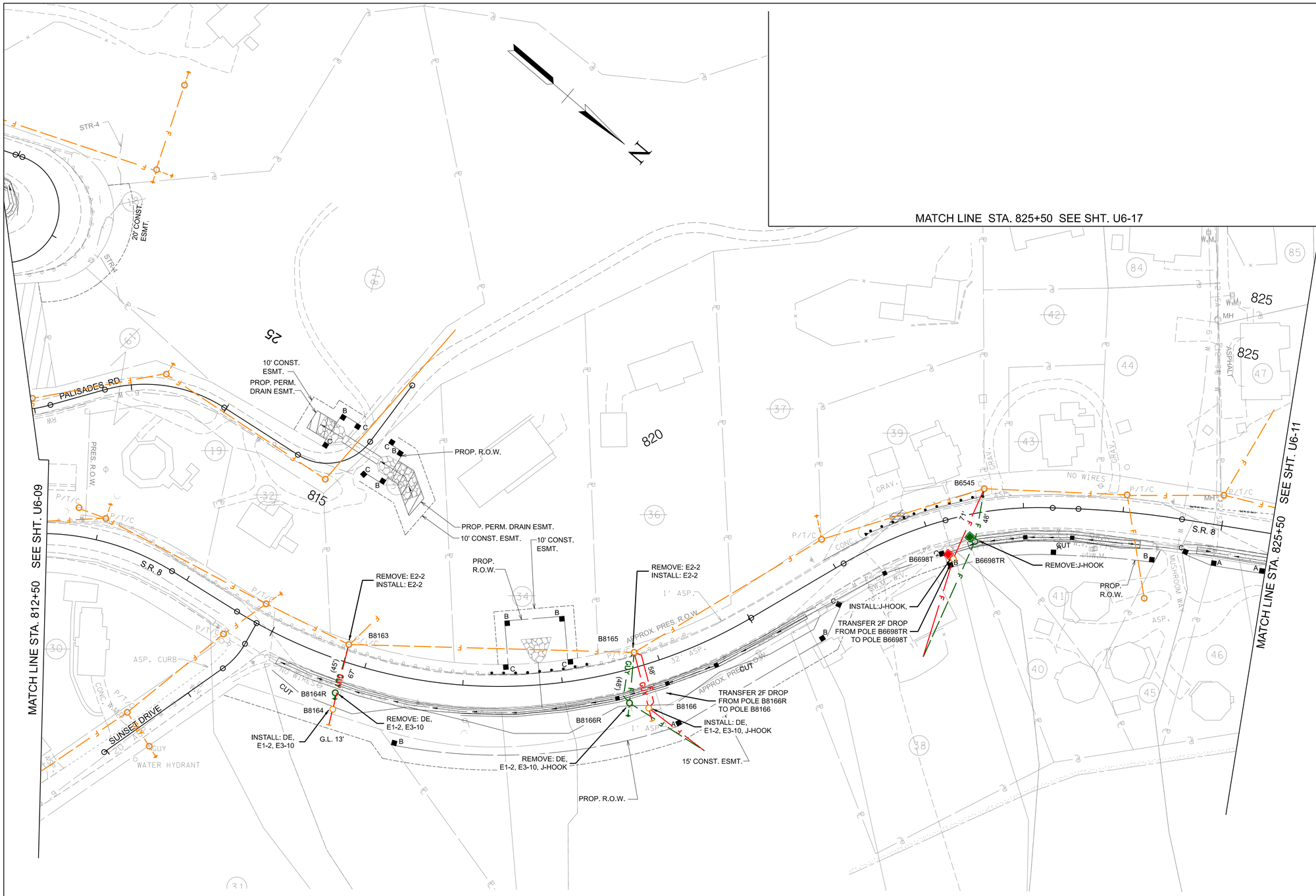
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 799+50 TO STA. 812+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-10

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



CONSTRUCTION NOTES:

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3.) CONTRACTOR TO COORDINATE WITH EPB PROJECT ENGINEER FOR PURCHASE AND SUPPLY OF MATERIALS FROM EPB.

4.) ALL FIBER STRAND & RELATED MATERIALS AND CONSTRUCTION PRACTICES TO MEET OR EXCEED CURRENT BELLCORE STANDARD SR-1421.

5.) EPB TO PROVIDED FIBER CABLES,FIBER DROPS, DISTRIBUTION ENCLOSURES AND ALL SPLICING THAT IS INVOLVED WITH EPB FACILITIES.

6.) ANCHORS TO BE PLACED BY EPB ELECTRICAL PLEASE SEE U5 PRINT SET FOR DETAILS.

811 Know what's below. Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

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Gresham Smith
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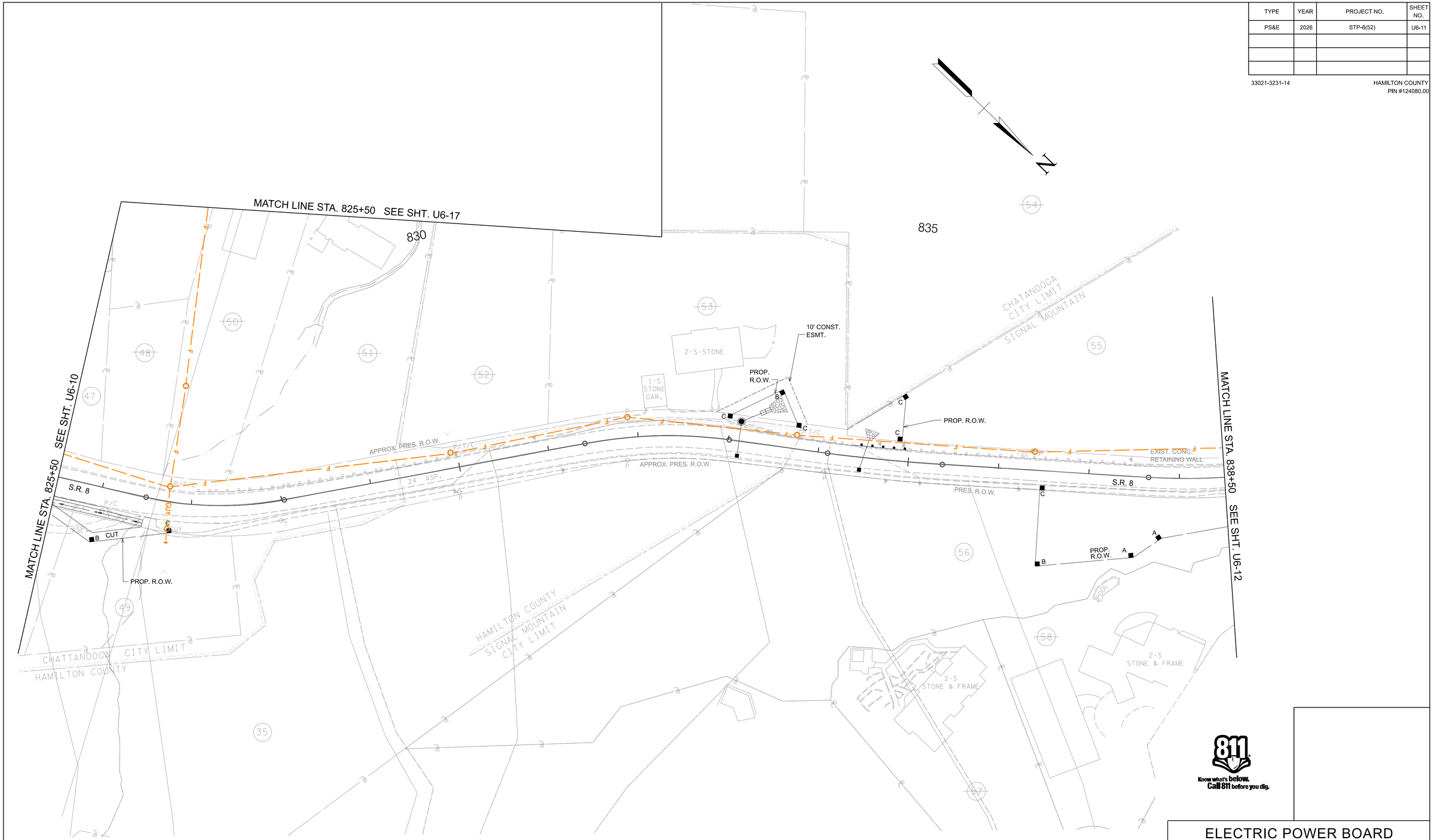
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 812+50 TO STA. 825+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-11

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



NO FIBER
RELOCATION THIS SHEET

Know what's below. Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
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Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 825+50 TO STA. 838+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-12

33021-3231-14

HAMILTON COUNTY
PIN #124080.00

845

840

850

N

NO FIBER
RELOCATION THIS SHEET

PROP. R.O.W.

CONC. WALL

CONC. WALL

APPROX. PRES. R.O.W.

PRES. R.O.W.

SLOPE ESMT.
10' CONST. ESMT.

CUT

CONC. DITCH

S.R. 8

24' ASP.

P/T/C

CONC. WALL

CONC. WALL

APPROX. PRES. R.O.W.

PRES. R.O.W.

CONC. DITCH

CUT

CONC. WALL

S.R. 8

PRES. R.O.W.

MATCH LINE STA. 838+50 SEE SHT. U6-11

MATCH LINE STA. 851+50 SEE SHT. U6-12

55 56 59 60 61 62 63 64

CONSTRUCTION NOTES:

1.) ALL EXISTING FACILITIES TO BE TRANSFERRED TO NEW ALIGNMENT. ANY NECESSARY TEMPORARY WORK NEEDED TO ENSURE THE TRANSFER MUST BE COORDINATED WITH THE UTILITY OWNER.

2.) THIS JOB IS IN CONJUNCTION WITH U SERIES 5 POLES TO BE PLACED/REMOVED BY EPB PLEASE SEE PLAN SET FROM U SERIES 5.

3.) OWNER(EPB) TO SUPPLY MISC STRAND RELATED TO CONTRACTOR FOR PROJECT. CONTRACTOR TO COORDINATE WITH EPB PROJECT ENGINEER FOR SUPPLY OF MATERIALS.

4.) ALL FIBER STRAND & RELATED MATERIALS AND CONSTRUCTION PRACTICES TO MEET OR EXCEED CURRENT BELLCORE STANDARD SR-1421.

811
Know what's below.
Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
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DATE	05.06.26

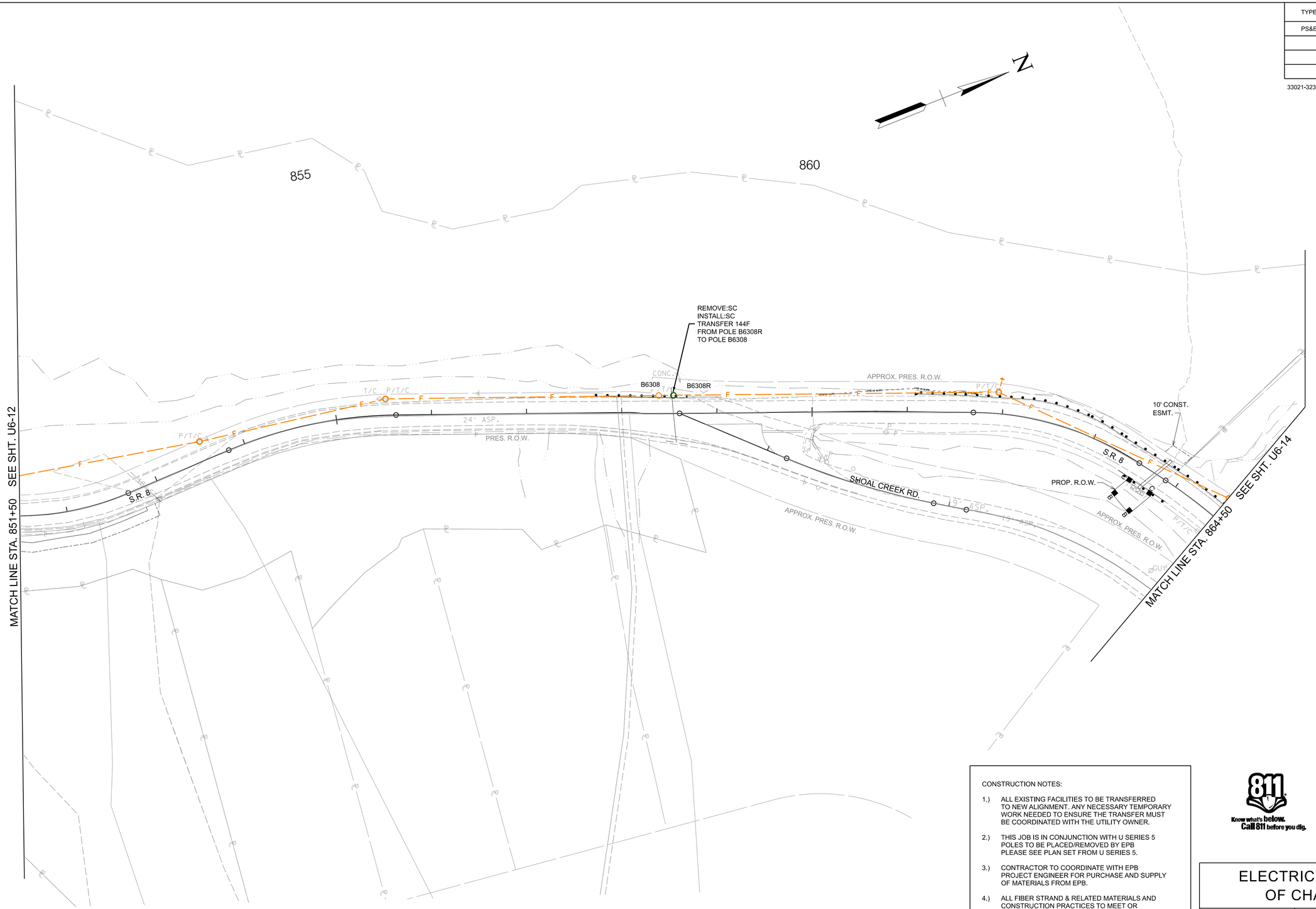
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 838+50 TO STA. 851+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-13

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



CONSTRUCTION NOTES:

1.) ALL EXISTING FACILITIES TO BE TRANSFERRED TO NEW ALIGNMENT. ANY NECESSARY TEMPORARY WORK NEEDED TO ENSURE THE TRANSFER MUST BE COORDINATED WITH THE UTILITY OWNER.

2.) THIS JOB IS IN CONJUNCTION WITH U SERIES 5 POLES TO BE PLACED/REMOVED BY EPB PLEASE SEE PLAN SET FROM U SERIES 5.

3.) CONTRACTOR TO COORDINATE WITH EPB PROJECT ENGINEER FOR PURCHASE AND SUPPLY OF MATERIALS FROM EPB.

4.) ALL FIBER STRAND & RELATED MATERIALS AND CONSTRUCTION PRACTICES TO MEET OR EXCEED CURRENT BELLCORE STANDARD SR-1421.

5.) EPB TO PROVIDED FIBER CABLES,FIBER DROPS, DISTRIBUTION ENCLOSURES AND ALL SPLICING THAT IS INVOLVED WITH EPB FACILITIES.

6.) ANCHORS TO BE PLACED BY EPB ELECTRICAL PLEASE SEE U5 PRINT SET FOR DETAILS.

811 Know what's below. Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	1"=50'
DATE	05.06.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 851+50 TO STA. 864+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-14

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



NO FIBER
RELOCATION THIS SHEET

811
Know what's below.
Call 811 before you dig.

ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	1"=50'
DATE	05.06.26

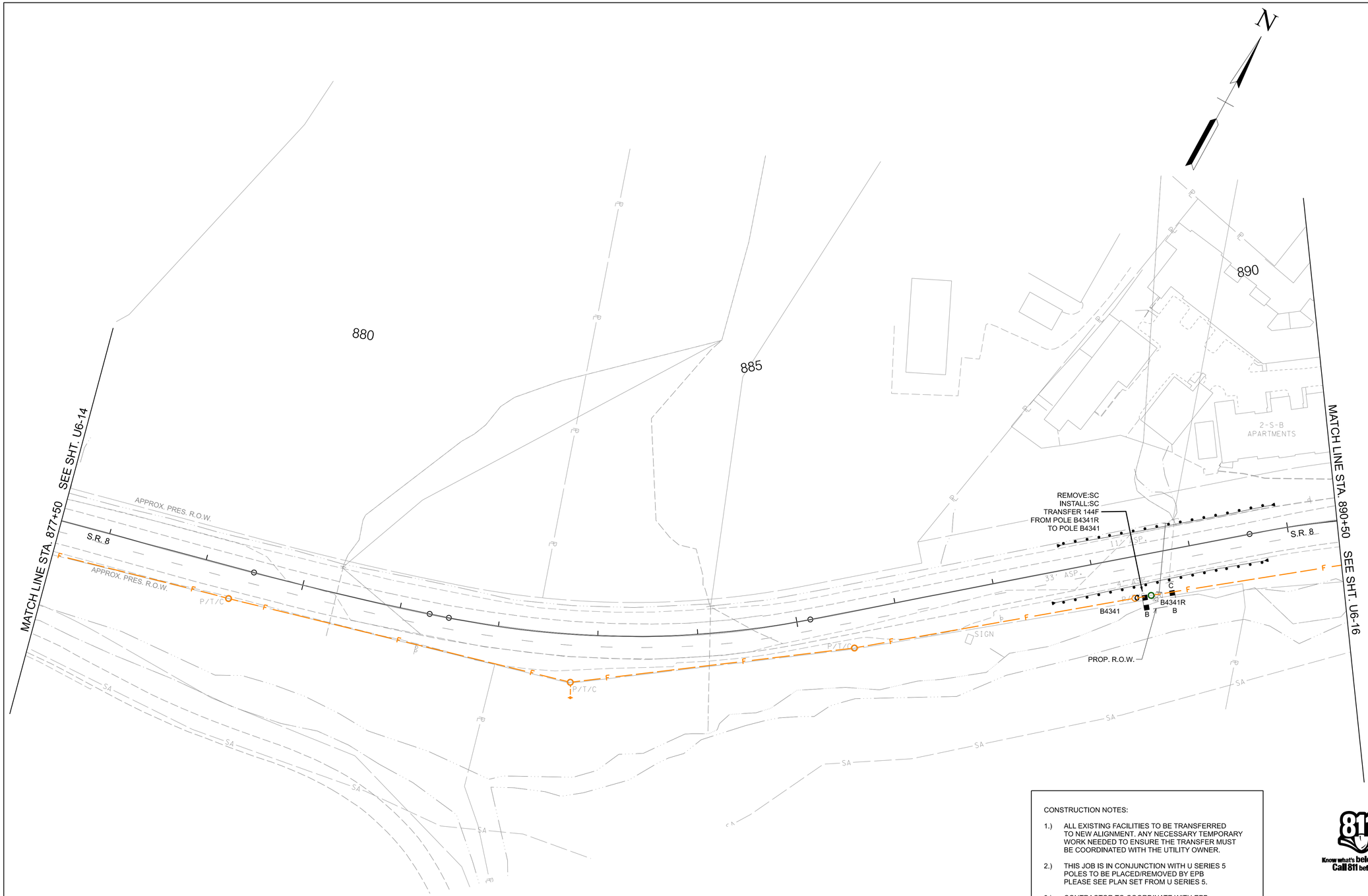
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 864+50 TO STA. 877+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-15

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



CONSTRUCTION NOTES:

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4.) ALL FIBER STRAND & RELATED MATERIALS AND CONSTRUCTION PRACTICES TO MEET OR EXCEED CURRENT BELLCORE STANDARD SR-1421.

5.) EPB TO PROVIDED FIBER CABLES,FIBER DROPS, DISTRIBUTION ENCLOSURES AND ALL SPLICING THAT IS INVOLVED WITH EPB FACILITIES.

6.) ANCHORS TO BE PLACED BY EPB ELECTRICAL PLEASE SEE U5 PRINT SET FOR DETAILS.

811 Know what's below. Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	1"=50'
DATE	05.06.26

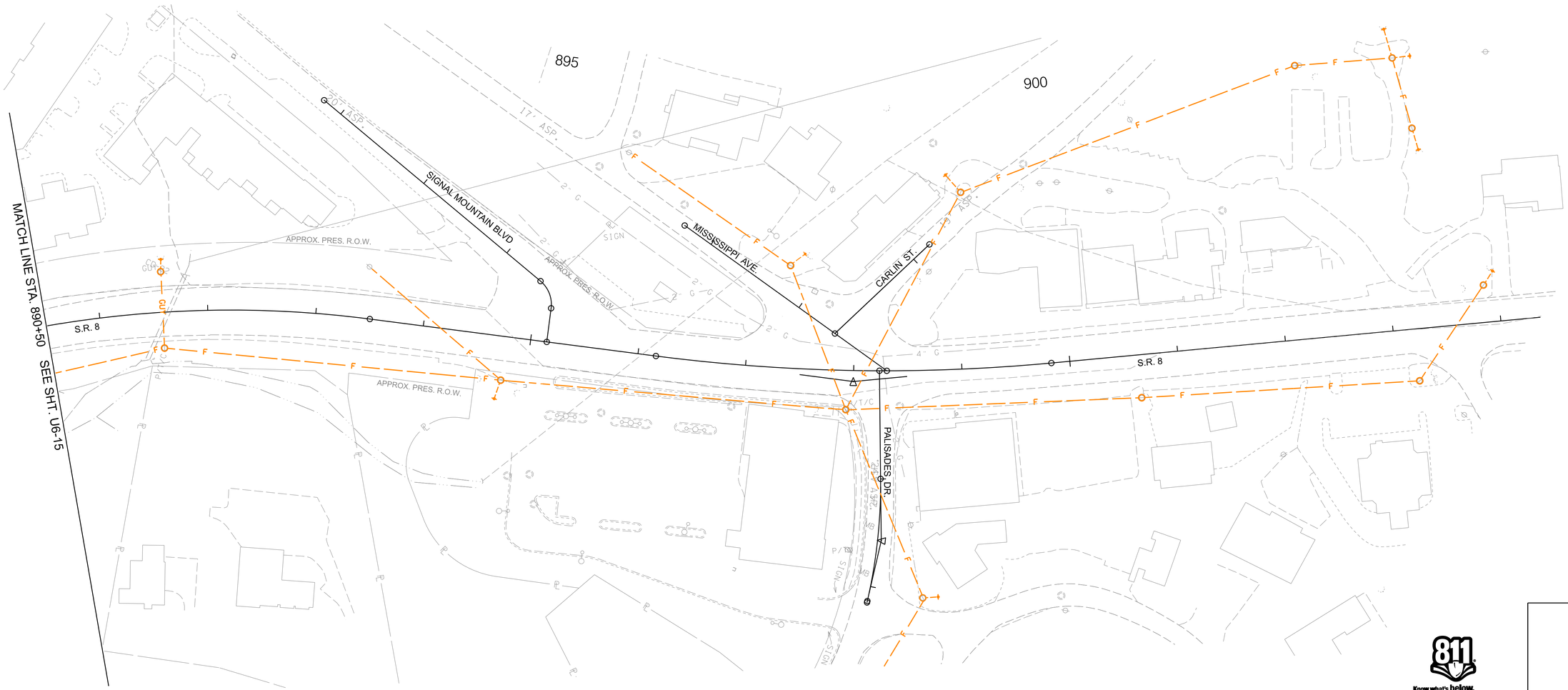
Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 877+50 TO STA. 890+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-16

33021-3231-14

HAMILTON COUNTY
PIN #124080.00



NO FIBER
RELOCATION THIS SHEET

811
Know what's below.
Call 811 before you dig.

ELECTRIC POWER BOARD
OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	DATE
1"=50'	05.06.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

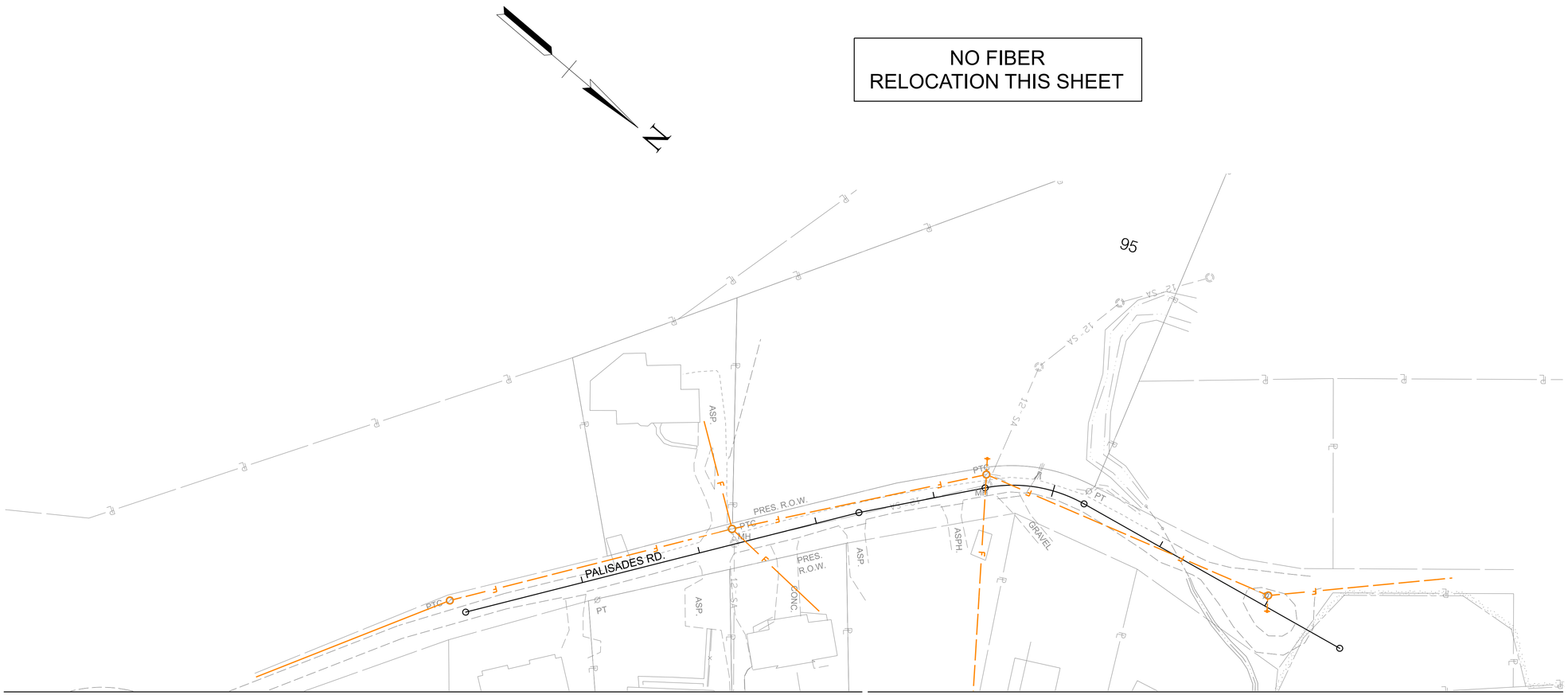
TELECOMMUNICATION RELOCATION
STA. 890+50 TO STA. 898+23.78

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-17

33021-3231-14

HAMILTON COUNTY
PIN #124080.00

NO FIBER
RELOCATION THIS SHEET



MATCH LINE STA. 825+50 SEE SHT. U6-10

MATCH LINE STA. 825+50 SEE SHT. U6-11

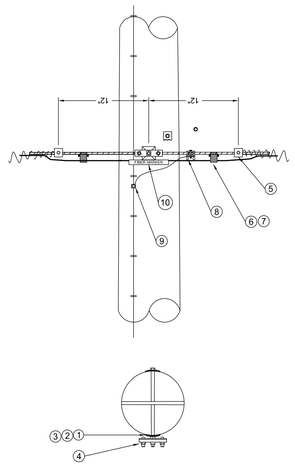
811
Know what's below.
Call 811 before you dig.

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	1"=50'
DATE	05.06.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
STA. 825+50 TO CONST. LIMITS



GENERAL NOTES:

1. MAXIMUM LINE ANGLE 10°.

2. THE END OF ALL MACHINE OR EYE BOLTS MUST NOT EXTEND MORE THAN 1-1/2" BEYOND THE NUT.

ID	QTY.	DESCRIPTION
1	1	BOLT, MACHINE, GALVANIZED, SHSN, 5/8" x 12"
2	2	NUT, SQUARE, 5/8"
3	2	WASHER, CURVED, 3" SQ, 11/16" HOLE, MALLEABLE IRON
4	1	CLAMP, B, SUSPENSION, 11/16" x 15/16" HOLE
5	2	D LASHING WIRE CLAMP, GALVANIZED
6	2	SPACER CABLE, 1/2" BELL TYPE
7	2	LASHED CABLE SUPPORT STRAPS, STAINLESS STEEL 16"
8	1	CONNECTOR
9	1	CONNECTOR, SIZE AS REQUIRED
10	1	PLP FIBER OPTIC MARKER, ORANGE

NO	DATE	BY	REVISION

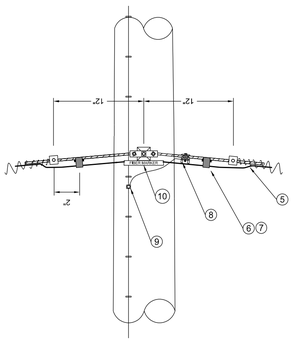
APPROVED:

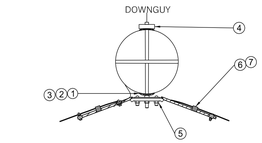
DATE	DRAWN BY	CHECKED BY

STRAIGHT LINE ATTACHMENT
0° TO 10°

FIBER STANDARDS & DESIGN

NO. 1 | SUS





NO	DATE	BY	REVISION

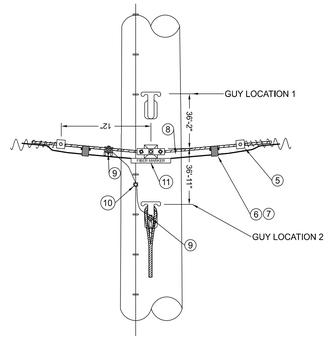
APPROVED:

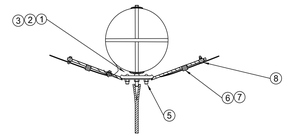
DATE	DRAWN BY	CHECKED BY

CORNER ATTACHMENT
10° TO 50°
INSIDE CORNER

FIBER STANDARDS & DESIGN

NO. 1 | SUSA





NO	DATE	BY	REVISION

APPROVED:

DATE	DRAWN BY	CHECKED BY

CORNER ATTACHMENT
10° TO 50°
REVERSE CORNER

FIBER STANDARDS & DESIGN

NO. 2 | SUSA

INSIDE CORNER

ID	QTY.	DESCRIPTION
1	1	WASHER, CURVED, 4"SQ, 13/16" HOLE, MEALEABLE IRON
2	2	NUT, LOCKNUT, 3/4"
3	1	BOLT, MACHINE, GALVANIZED, 3/4" x REQUIRED LENGTH
4	1	ATTACHMENT, GUY, MALLEABLE IRON, 'C' GUY HOOK
5	1	CLAMP B, CORNER, SUSPENSION
6	2	SPACER CABLE, 1/2" BELL TYPE
7	2	LASHED CABLE SUPPORT STRAPS, STAINLESS STEEL 16"
8	2	D LASHING WIRE CLAMP, GALVANIZED
9	1	CONNECTOR
10	1	CONNECTOR, SIZE AS REQUIRED
11	1	PLP FIBER OPTIC MARKER, ORANGE

REVERSE CORNER

ID	QTY.	DESCRIPTION
1	3	WASHER, CURVED, 4"SQ, 13/16" HOLE, MEALEABLE IRON
2	3	NUT, LOCKNUT, 3/4"
3	2	BOLT, MACHINE, GALVANIZED, 3/4" x REQUIRED LENGTH
4	1	ATTACHMENT, GUY, MALLEABLE IRON, 'C' GUY HOOK
5	1	CLAMP B, CORNER, SUSPENSION
6	2	SPACER CABLE, 1/2" BELL TYPE
7	2	LASHED CABLE SUPPORT STRAPS, STAINLESS STEEL 16"
8	2	D LASHING WIRE CLAMP, GALVANIZED
9	2	CONNECTOR
10	1	CONNECTOR, SIZE AS REQUIRED
11	1	PLP FIBER OPTIC MARKER, ORANGE

GENERAL NOTES:

1. CABLE BEND RADIUS TO BE DETERMINED.

2. USE 'C' GUY HOOKS ONLY ON WOOD STRUCTURES. SUBSTITUTE ON STEEL OR CONCRETE STRUCTURES.

3. ALL GUYS MUST BE TENSIONED PRIOR TO PLACING STRAND.

4. THE END OF ALL MACHINE OR EYE BOLYS MUST NOT EXTEND MORE THAN 1-1/2" BEYOND THE NUT.

5. ALL STRAND HARDWARE MOUNTED ON SEPERATE BOLT MUST BE BONDED TOGETHER AND TO THE VERTICAL GROUND, IF EXISTING. DO NOT BOND TO ANY PART OF A STANDVISE OR PREFORMED DEADEND.

6. TAIL OF THE GUY WIRE/STRAND MUST NOT EXTEND BEYOND OUTSIDE THE BAIL OF TERMINATING DEVICE.

NO	DATE	BY	REVISION

APPROVED:

DATE	DRAWN BY	CHECKED BY

CORNER ATTACHMENT
10° TO 50°
REVERSE CORNER

FIBER STANDARDS & DESIGN

NO. 3 | SUSA

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	STP-8(52)	U6-18

33021-3231-14

HAMILTON COUNTY
PIN #124080.00

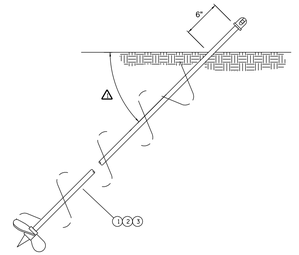
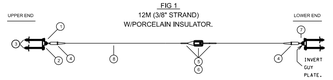
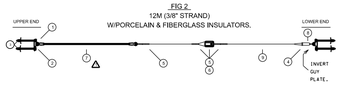


FIG 1
12M (3/8" STRAND)
W/PORCELAIN INSULATOR.



#	QTY	DESCRIPTION	ITEM	CU
1	2	ATTACHMENTS-GUY-POLE EYE PLATE	I0424	DGS12P
2	4	BOLT-MACH-GALV-SHSN-3/4"X14"	I0641	-OR-
3	4	WASHER-CURVED-4"SQ-13/16" HOLE-MALLEABLE IRON	I0333	TGS12P
4	2	DEADEND-AUTOMATIC-BAIL RIGID-3/8" STEEL STRAND	I0405	
5	2	DEADEND-PREFORMED-GUY.STEEL STRAND 3/8"	I0454	
6	1	INSL-GUY STRAIN-12000 LBS- 4" PORC-BROWN OR GRAY	I0142	
7	2	CLEVIS-SHACKLE-ANCHOR 1/2"	I0429A	
8	△	WIRE-GUY-GALV.STEEL-3/8" (7) STRAND (12M)	I0822	

FIG 2
12M (3/8" STRAND)
W/PORCELAIN & FIBERGLASS INSULATORS.



#	QTY	DESCRIPTION	ITEM	CU
1	2	ATTACHMENTS-GUY-POLE EYE PLATE	I0424	DGS12P
2	4	BOLT-MACH-GALV-SHSN-3/4"X14"	I0641	-OR-
3	4	WASHER-CURVED-4"SQ-13/16" HOLE-MALLEABLE IRON	I0333	TGS12P
4	1	DEADEND-AUTOMATIC-BAIL RIGID-3/8" STEEL STRAND	I0405	
5	3	DEADEND-PREFORMED-GUY.STEEL STRAND 3/8"	I0454	
6	1	INSL-GUY STRAIN-12000 LBS- 4" PORC-BROWN OR GRAY	I0142	
7	1	INSL-GUY STRAIN-21000 LBS- 54" FIBERGLASS	I0860	
8	1	CLEVIS-SHACKLE-ANCHOR 1/2"	I0429A	
9	△	WIRE-GUY-GALV.STEEL-3/8" (7) STRAND (12M)	I0822	

△ GENERAL NOTES
1. TO SPECIFY ADDITIONAL LINKS USE:
DIG54WF8, TIG54WF8 FOR 54" FG LINKS.
DIG144WF8,TIG144WF8 FOR 144" LINKS.

THESE ASSEMBLIES FOR ADDITIONAL LINKS INCLUDE THE FIGURE 8 STEEL LINK (ITEM I0370) USED TO CONNECT FG LINKS TOGETHER.

FOR GUIDELINES IN SPECIFYING OR INSTALLING GUY INSULATORS SEE DWGS A-4538 AND A-4539.

FOR FIGURE 2 ASSEMBLY WITH 144" LINK (INSTEAD OF 54") SPECIFY: DGD12PFL. -OR- TGD12PFL.

2. USE 3/4" BOLTS WHEN ATTACHING ANY GUY HOOK OR POLE EYE PLATE TO POLE.

3. DO NOT PLACE ANY FG LINKS IN A BIND. USE EITHER A SHACKLE CLEVIS (ITEM I0429A) OR A DOUBLE 90° CLEVIS (ITEM I0345) TO CONNECT FG LINK TO POLE EYE PLATE (ITEM I0424). AS NEEDED.

4. SPECIFY THE LENGTH OF THE SPAN GUY WHEN USING THIS ASSEMBLY.

NO	DATE	BY	REVISION

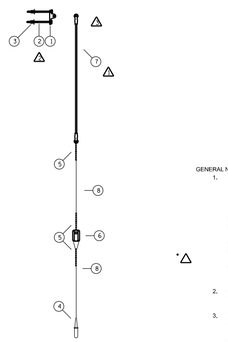
APPROVED:

DATE	DRAWN BY	CHECKED BY

STANDARD GUY ASSEMBLY
12M (3/8") GALV, SPAN GUY

FIBER STANDARDS & DESIGN

NO. A-3093 | OH-GUY



GENERAL NOTES
1. TO SPECIFY ADDITIONAL LINKS USE:
DIG54WF8, TIG54WF8 FOR 54" FG LINKS,
DIG144WF8,TIG144WF8 FOR 144" LINKS.

THESE ASSEMBLIES FOR ADDITIONAL LINKS INCLUDE THE FIGURE 8 STEEL LINKS (ITEM I0370) USED TO CONNECT FG LINKS TOGETHER.

FOR GUIDELINES IN SPECIFYING OR INSTALLING GUY INSULATORS SEE DWGS A-4538 AND A-4539.

FOR FIGURE 2 ASSEMBLY WITH 144" LINK (INSTEAD OF 54") SPECIFY: DGD12PFL -OR- TGD12PFL.

2. USE 3/4" BOLTS WHEN ATTACHING ANY GUY HOOK OR POLE EYE PLATE TO POLE.

3. DO NOT PLACE ANY FG LINKS IN A BIND. USE EITHER A SHACKLE CLEVIS (ITEM I0429A) OR A DOUBLE 90° CLEVIS (ITEM I0345) TO CONNECT FG LINK TO POLE EYE PLATE (ITEM I0424). AS NEEDED.

QTY		DESCRIPTION	ITEM	CU
1	1	ATTACHMENTS-GUY-POLE EYE PLATE	I0424	DGD12PF
2	2	BOLT-MACH-GALV-SHSN-3/4"X14"	I0641	-OR-
3	2	WASHER-CURVED-4"SQ-13/16" HOLE-MALLEABLE IRON	I0333	TGD12PF
4	1	DEADEND-AUTOMATIC-BAIL RIGID-3/8" STEEL STRAND	I0405	
5	3	DEADEND-PREFORMED-GUY.STEEL STRAND 3/8"	I0454	
6	1	INSL-GUY STRAIN-12000 LBS- 4" PORC-BROWN OR GRAY	I0142	
7	1	INSL-GUY STRAIN-21000 LBS- 54" FIBERGLASS	I0860	
8	38	WIRE-GUY-GALV.STEEL-3/8" (7) STRAND (12M)	I0822	

(55' OF GUY WIRE IN TGD12PF)

NO	DATE	BY	REVISION

APPROVED:

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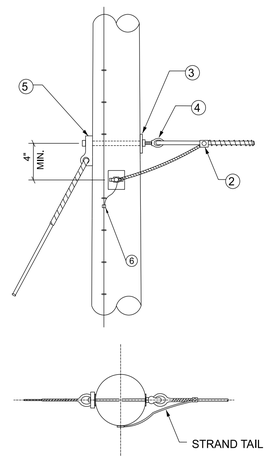
STANDARD GUY ASSEMBLY
12M (3/8") GALV, DOWN GUY

FIBER STANDARDS & DESIGN

NO. A-3090 | DG



NOTES:

1. PREFORMED DEADEND MUST BE PROPER OVAL SHAPE AND FIT COMPLETELY INTO GUY STRAP.

2. IF BOND BETWEEN STRAND AND DOWN GUY IS REQUIRED BY SPECIFIC LOCAL INTERPRETATION USE GUY TAIL AND K-2 BONDING CLAMP.

ID	QTY.	DESCRIPTION
1	AS REQ'D	#4 CU. GROUND WIRE (LENGTH AS REQUIRED)
2	1	K-2 BONDING CLAMP
3	1	5/8" x REQUIRED LENGTH MACHINE BOLT W/ LOCKNUT
4	1	THIMBLEYE NUT
5	1	GUYING BRACKET
6	1	CONNECTOR, SIZE AS REQUIRED

NO	DATE	BY	REVISION

APPROVED:

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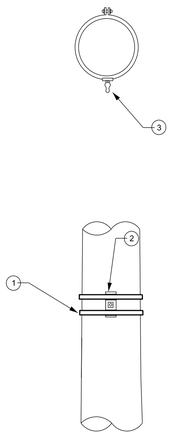
STRAND DEADEND

FIBER STANDARDS & DESIGN

NO. DE



NOTE:

1. EYE NUT NOT USED FOR SUS OR SUSA ASSEMBLY.

ID	QTY.	DESCRIPTION
1		STAINLESS DOUBLE BANDING WITH BUCKLES
2	1	STAINLESS MOUNTING BRACKET, HEAVY DUTY, 3/4" BOLT
3	1	EYE NUT, 3/4"

NO	DATE	BY	REVISION

APPROVED:

DATE	DRAWN BY	CHECKED BY

COMM ATTACHMENT
POLE BAND TYPE

COMM ATTACHMENT

NO. J-HOOK-BAND

GENERAL NOTES:

△ 1. THIS ANGLE DETERMINED BY ATTACHMENT POINT OF GUY ON POLE. ANCHOR ROD SHOULD BE INLINE WITH GUY WIRE.

BILL OF MATERIAL

	SIZE 12M	24M	36M	DESCRIPTION	ITEM
1.	1			ANCHOR - SCREW TYPE - 8" DIA. WITH 1"x 7'-0" TWINEYE ROD	X8833A
				12M,B. 12,000# RATING IN CLASS 5 SOIL	
2.		1		ANCHOR - SCREW TYPE - 14" DIA. WITH 1" x 7'-0" TRIPLEYE ROD	X9690
				24M,B. 24,000LB RATING IN CLASS 5 SOIL	
3.			1	ANCHOR - SCREW TYPE - 10" & 12" DOUBLE WITH TRIPLEYE ADAPTER	X9897
				36M,B. 36,000LB RATING IN CLASS 5 SOIL	

NO	DATE	BY	REVISION

APPROVED:

DATE	DRAWN BY	CHECKED BY

ANCHOR ASSEMBLIES
12M, 24M, 36M ANCHORS

FIBER STANDARDS & DESIGN

NO. A-3090 | 12M,24M, 36M

ELECTRIC POWER BOARD OF CHATTANOOGA

JOB NUMBER:	42027.12
DESIGNED:	BBG
DRAWN:	DRB
CHECKED:	JEB
SCALE	1"=50'
DATE	05.06.26

Gresham Smith
2095 LAKESIDE CENTRE WAY
SUITE 210
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192

TELECOMMUNICATION RELOCATION
CONSTRUCTION DETAILS