

SEE SHEET 1A FOR INDEX.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

HAWKINS COUNTY

STATE ROUTE 31
FROM MOORESBURG TO ADAMS LANE,
LM 0.1 TO 4.35 (***) (IA) (10YP)

PS&E

SPOT IMPROVEMENTS INCLUDING WIDENING,
ADDING A TURN LANE AT HELTON DRIVE, AND
REPLACING THE BRIDGE OVER MOORESBURG
BRANCH AND POOR VALLEY CREEK

STATE HIGHWAY NO. 31 F.A.H.S. NO. N/A

END BRIDGE
STA. 231+37.50



EXCLUSIONS

STATION TO STATION	LENGTH (FT.)
47+37.30 - 69+52.87	2215.57
82+05.49 - 219+07.50	13702.01
-	-
TOTAL=	15917.58

WIDE LOAD DETOUR WILL
BE REQUIRED DURING
CONSTRUCTION

BEGIN BRIDGE
STA. 230+14.50

END SPAN BRIDGE
STA. 23+86.68

BEGIN SPAN BRIDGE
STA. 23+06.68

CONSTRUCTION LIMITS
PROJECT LENGTH

SECTION 1 STA. 10+70.93 TO STA. 47+37.30 = 3,666.37'

SECTION 2 STA. 69+52.87 TO STA. 82+05.49 = 1,252.62'

SECTION 3 STA. 219+07.50 TO STA. 241+00.00 = 2,192.50'
7,111.49

37022-3219-14
END PROJECT NO. STP/HPP-31(12) CONST.

STA. 241+00.00
N 761848.1058 E 2787294.2856

37022-2219-14
END PROJECT NO. STP/HPP-31(12) R.O.W.

STA. 239+00.00
N 761718.6071 E 2787466.6997

37022-2219-14
BEGIN PROJECT NO. STP/HPP-31(12) R.O.W.

STA. 16+93.84
N 743697.4666 E 2784867.9955

37022-3219-14
BEGIN PROJECT NO. STP/HPP-31(12) CONST.

STA. 10+70.93
N 743064.2419 E 2784761.1131

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.

TDOT PROJECT MANAGER: TRACIE WIDNER

DESIGNED BY : STANTEC CONSULTING SERVICES, INC.

DESIGNER : JOSEPH CAINS III, P.E.

CHECKED BY VEDA LOAHOM, P.E. (VEDA NGUYEN)

P.E. NO. 37022-1209-04 (DESIGN)

PIN NO. 101394.00

R.O.W. LENGTH 1.191 MILES
ROADWAY LENGTH 1.308 MILES
SPAN BRIDGE LENGTH 0.015 MILES
BRIDGE LENGTH 0.023 MILES
PROJECT LENGTH 1.346 MILES

SURVEY 09-2001		TRAFFIC DATA	
12-10-04	UPDATED	ADT (2026)	2890
06-10-11	UPDATED	ADT (2046)	3460
03-04-13	UPDATED	DHV (2046)	346
06-11-15	UPDATED	D	65 - 35
04-20-17	UPDATED	T (ADT)	3 %
08-23-24	UPDATED	T (DHV)	2 %
		V	45/ 55 MPH
COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000084 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.			

APPROVED:

SHANE HESTER, CHIEF ENGINEER

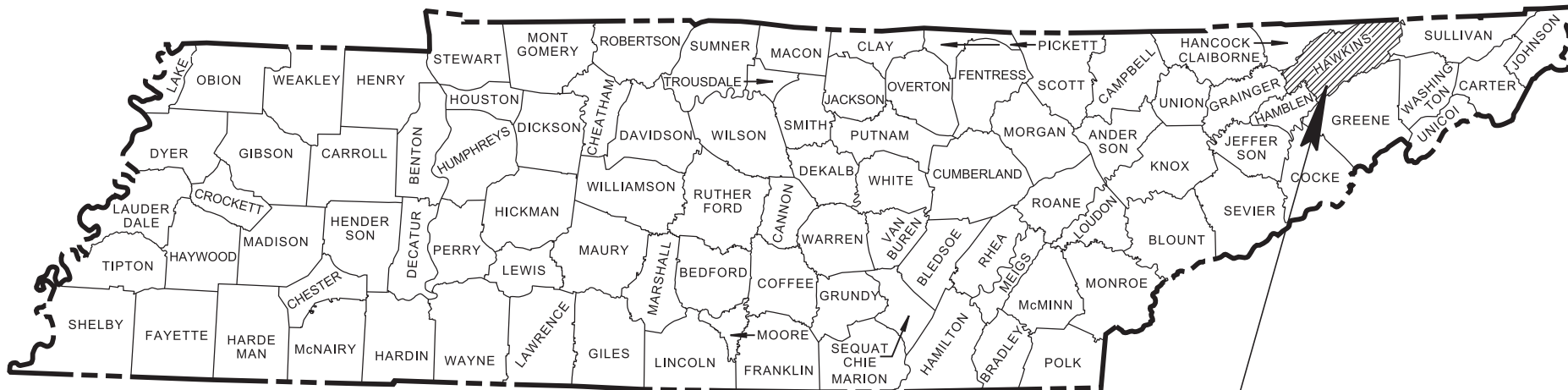
DATE:

APPROVED:

WILL REID, COMMISSIONER

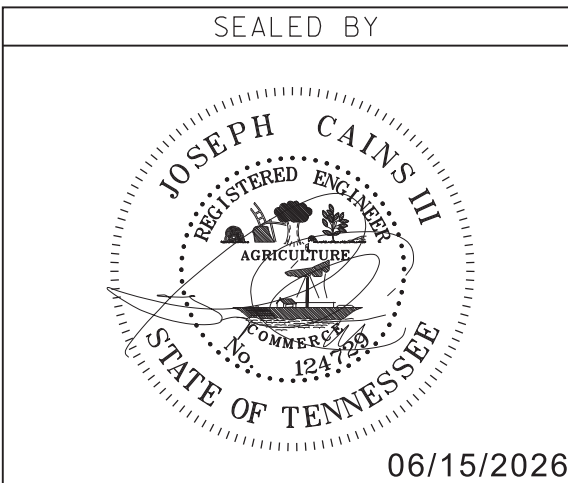
REVISION NOTES:

06-15-2026 UPDATED PROJECT DESCRIPTION;
UPDATED STANDARD SPECIFICATION DATE; REVISED
R.O.W., ROADWAY, AND PROJECT LENGTHS.



PROJECT LOCATION

MOORESBURG BRANCH BRIDGE ID. # 37-SR031-0001
POOR VALLEY CREEK BRIDGE ID. # 37-SR031-0007



6/23/2026 10:27:23 AM
V:\1785\active\178560004\Roadway\Base\001A.sht

ROADWAY INDEX

SHEET NAME	SHEET NO.
SIGNATURE SHEETS	ROADWAY-SIGN1
SIGNATURE SHEETS	ROADWAY-SIGN2
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS.....	1A
STANDARD ROADWAY DRAWINGS.....	1A1 - 1A2
STANDARD STRUCTURE AND TRAFFIC DESIGN DRAWINGS.....	1A3
PROJECT COMMITMENTS	1B
ESTIMATED ROADWAY QUANTITIES	2, 2-1
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B
TYPICAL SECTIONS.....	2B1 – 2B5
GENERAL NOTES.....	2C, 2C1
SPECIAL NOTES.....	2D
ENVIRONMENTAL NOTES.....	2E
TABULATED QUANTITIES	2F, 2F1 – 2F4
CONTROL POINTS TABLE.....	2G
DETAIL SHEET.....	2G1
RIGHT-OF-WAY NOTES, UTILITY NOTES, AND UTILITY OWNERS	3
RIGHT-OF-WAY ACQUISITION TABLE(S)	3A
PROPERTY MAP(S).....	3B -3F
PRESENT LAYOUT(S).....	4 – 11
RIGHT-OF-WAY DETAILS	4A – 11A
PROPOSED LAYOUT(S)	4B – 11B
PROPOSED PROFILE(S)	4C – 11C
SIDE ROAD PROFILE(S)	12 – 13
HAUL ROAD PROFILE(S).....	14
PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILE(S).....	15 – 19
DRAINAGE MAP(S).....	20 – 29
CULVERT SECTIONS	30 – 36
EROSION PREVENTION AND SEDIMENT CONTROL PLANS.....	37, 38, 39-41G
SIGNING AND PAVEMENT MARKING PLANS	42 – 49
SIGN SCHEDULE SHEET(S).....	50 – 53
ROADWAY CROSS SECTIONS	54 – 97
SIDE ROAD CROSS SECTIONS.....	98 – 112
TRAFFIC CONTROL PLANS	T1 – T6G
BRIDGE PLANS.....	B-1
GEOTECHNICAL PLANS.....	G-1
SIGNAL PLANS.....	SIG-1
STORM WATER POLLUTION PREVENTION PLAN (SWPPP).....	S-1
UTILITY PLANS.....	U1-1
NOTE: THE ALPHABETICAL LETTERS “I”, “O”, AND “Q” ARE NOT USED IN THE NUMBERING OF SHEETS.	

DWG.	REV.	DESCRIPTION
10-100.00 STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS		
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	02-20-20	STANDARD LEGEND
RD-L-1A		STANDARD LEGEND
RD-L-2	02-20-20	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	03-01-23	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	10-01-24	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
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
10-101.00 STANDARDS ROADWAY DRAWINGS		
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-1	06-28-19	DESIGN STANDARDS FOR LOW-VOLUME ROADS
RD11-TS-1A	06-28-19	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD11-TS-2		DESIGN STANDARDS FOR COLLECTORS, 2-LANE ROADS AND STREETS
RD11-TS-3		DESIGN STANDARD FOR ARTERIAL HIGHWAYS (2-LANE)
RD11-TS-6		TYPICAL CURB & GUTTER SECTIONS WITH SHOULDERS AND WITH GRASS STRIPS
RD11-TS-6A		TYPICAL CURB & GUTTER SECTIONS WITHOUT SHOULDERS AND WITH GRASS STRIPS
RD11-TS-6B		TYPICAL CURB AND GUTTER SECTIONS WITH SHOULDERS AND WITHOUT GRASS STRIPS
RD11-TS-6C		TYPICAL CURB AND GUTTER SECTIONS WITHOUT SHOULDERS AND WITHOUT GRASS STRIPS
RD11-TS-7	07-17-20	DESIGN STANDARDS 2-LANE CURB & GUTTER WITH CONTINUOUS 2-WAY LEFT-TURN LANE WITHOUT GRASS STRIPS
RD11-TS-7A	07-17-20	DESIGN STANDARDS 2-LANE CURB & GUTTER WITH CONTINUOUS 2-WAY LEFT-TURN LANE WITH GRASS STRIPS
RD11-TS-7B	06-12-25	DESIGN STANDARDS 2-LANE HIGHWAYS WITH CONTINUOUS 2-WAY LEFT-TURN LANE
RD11-LR-1		MINIMUM RUNOFF LENGTHS (LR) FOR URBAN HIGHWAYS
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-S-11B		DESIGN AND CONSTRUCTION DETAILS FOR ROCK CUT SLOPE AND CATCHMENT
RD11-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES

STANDARD ROADWAY DRAWINGS

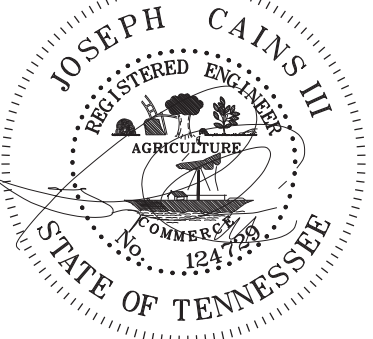
DWG.	REV.	DESCRIPTION
RD11-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD11-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS
10-102.00 PIPE CULVERTS AND ENDWALLS		
D-FLU-2	04-14-25	BRIDGE END DRAIN FLUME DETAILS
D-FLU-2A	03-01-23	BRIDGE END DRAIN FLUME DETAILS
D-FLU-3	04-14-25	BRIDGE END DRAIN FLUME DETAILS
D-PB-1	03-01-23	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PB-2	03-01-23	STANDARD DETAILS FOR FLEXIBLE PIPE INSTALLATION
D-PB-3	11-30-20	INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PB-4	01-09-24	PIPE COLLAR DETAILS
D-PG-3	06-28-19	FERROUS AND ALUMINUM CORRUGATED METAL PIPE
D-PG-4	06-28-19	FERROUS AND ALUMINUM CORRUGATED METAL PIPE ARCHES
D-PO-1	06-28-19	STANDARD OVAL AND REINFORCED CONCRETE ARCH PIPE CULVERT
D-PS-1	06-28-19	STRUTTING DETAILS FOR CORR. METAL & STRUCTURAL PLATE ROUND PIPE
D-PE-18A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 18" PIPE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-18B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 18" PIPE, BILL OF STEEL AND PRECAST NOTES
D-PE-24A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 24" PIPE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-24B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 24" 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-PE-99	03-04-21	TYPE "U" CROSS DRAIN ENDWALL DETAILS, PIPE GRATE & SKEWED CONNECTION
D-SEW-1A	01-30-26	TYPE "SAFETY" SIDE ENDWALL WITH STEEL PIPE GRATE, FOR 15" THRU 48" PIPES, 6:1 SLOPE
D-SEW-12D	01-30-26	TYPE “SAFETY” SIDE DRAIN ENDWALL WITH STEEL PIPE GRATE, FOR 18” PIPE, 12:1 SLOPE
SD-MSE-1	06-28-19	SIDE DRAIN MITERED END SECTION
D-PE-4	06-28-19	STRAIGHT CONCRETE ENDWALLS (PIPE SIZES 18" TO 30")
D-PE-5	09-28-19	STRAIGHT CONCRETE ENDWALLS FOR HORIZONTAL OVAL CONCRETE PIPES (ALL SIZES AND SKEWS)
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)

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	1A
PS & E	2026	STP/HPP-31(12)	1A

REVISION NOTES:

06-15-2026 MODIFIED SHEET INDEX AND REVISED STANDARD ROADWAY DRAWINGS LIST.

SEALED BY



06/15/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX
AND
STANDARD
ROADWAY
DRAWINGS

6/23/2026 10:28:07 AM
V:\1785\active\178560004\Roadway\Bse\001A1.sht

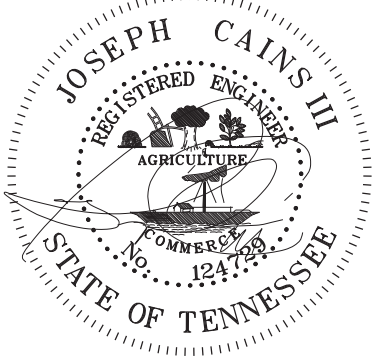
DWG.	REV.	DESCRIPTION						
10-104.00	CATCH BASINS AND MANHOLES							
D-CB-DI		ALTERNATE CATCH BASIN DROP INLET DETAILS	S-F-10A	06-28-19	STANDARD RIGHT-OF-WAY STOCK FENCE WITH TIMBER POSTS	S-GRS-7	01-09-24	SHORT RADIUS-GR SYSTEM (SRGS) CONNECTION TO BRIDGE END
D-CB-12LP	02-20-20	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 12LP CATCH BASIN FOR USE WITH 6" VERTICAL CURB	S-F-10B	06-28-19	STANDARD RIGHT-OF-WAY CHAIN LINK FENCE	S-GRS-7A	07-30-24	SHORT RADIUS-GUARDRAIL SYSTEM (SRGS) ANCHOR DETAILS
D-CB-25P	02-20-20	STANDARD PRECAST RECTANGULAR CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" SLOPING CURB)	S-F-10C	06-28-19	RIGHT-OF-WAY FENCE AT BRIDGES AND BOX CULVERTS	S-GRS-7B		SHORT RADIUS-GR SYSTEM (SRGS) EYE-BOLT SPACING DETAILS
D-CB-25RA	01-28-22	STANDARD PRECAST 48" CIRCULAR NO. 25 CATCH BASIN (FOR USE WITH 6" SLOPING CURB)	S-FG-11	07-30-24	STOCK FENCE GATES AND CHAIN LINK FENCE	S-GRS-8		SAFETY PLAN AT SIDEROADS OR DRIVEWAYS FOR LOW SPEED ROADWAYS
D-CB-25SB	02-20-20	STANDARD 4' X 4' SQUARE CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" SLOPING CURB)	S-FG-20	06-28-19	EXAMPLES OF WATER GATES AND WATER CROSSINGS	S-GRT-1	10-29-21	TYPE 12 GUARDRAIL TERMINAL BURIED-IN-BACKSLOPE
D-CB-25SD	02-20-20	STANDARD 7' X 7' SQUARE CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" SLOPING CURB)	S-RP-2	06-28-19	STANDARD CONCRETE RIGHT-OF-WAY MARKERS	S-GRT-1A		LAYOUT OF FLARED GUARDRAIL (TL- 3)
D-CB-38SB	03-04-21	STANDARD 4' X 4' SQUARE CONCRETE NO. 38 CATCH BASIN	10-108.00	SAFETY DESIGN AND GUARDRAILS		S-GRT-1B		LAYOUT OF FLARED GUARDRAIL (TL- 2)
D-CB-51SC	02-20-20	STANDARD 5' 2" X 5' 2" SQUARE CONCRETE NO. 51 CATCH BASIN (FOR USE IN FRONT OF CONCRETE RETAINING WALL)	S-CZ-1	06-28-19	CLEAR ZONE CRITERIA	S-GRT-2	06-28-19	TYPE 38 GUARDRAIL END TERMINAL
D-CBB-12B	06-28-19	TYPE 'B' CAST IRON FRAME, GRATE & 6" SLOPING INLET	S-PL-1	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED	S-GRT-2P	10-16-20	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
D-CB-99	02-20-20	MISCELLANEOUS DETAILS FOR RECTANGULAR STRUCTURES	S-PL-1A	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED (FOR RIGID OBJECTS)	S-GRT-2R	06-28-19	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL (RETROFIT)
D-RL-1		ROUND LID DETAILS FOR SINGLE CURB AND WALL INLET	S-PL-1B	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED ON CURVED ROADWAYS	S-GRT-3	06-28-19	TYPE 21 GUARDRAIL END TERMINAL
D-RL-2		ROUND LID DETAILS FOR DOUBLE CURB AND WALL INLET	S-PL-3	03-01-23	SAFETY PLAN MINIMUM INSTALLATION AT BRIDGE ENDS	S-GRT-4	01-30-25	TYPE 21 GATING END TERMINAL
D-RL-3		ROUND LID DETAILS FOR SINGLE OPENING AREA DRAIN	S-PL-4	01-09-24	SAFETY PLAN FOR BRIDGE PIERS IN DEPRESSED MEDIAN	S-GRT-4A		TYPE 21 GATING END TERMINAL ANCHOR DETAILS
D-RL-4		ROUND LID DETAILS FOR DOUBLE OPENING AREA DRAIN	S-PL-4A	01-09-24	SAFETY PLAN TO FOR BRIDGE PIERS/ ABUTMENTS OUTSIDE THE SHOULDER	S-GRT-4B		GATING TERMINAL POST & RAIL DETAILS
D-RS-1		PRECAST ROUND STRUCTURES (48" THRU 120")	S-PL-5	06-28-19	SAFETY PLAN FOR BRIDGE ENDS IN MEDIANS	S-GRA-1	06-28-19	TYPE 12 GUARDRAIL ANCHOR
D-RS-2		PRECAST ROUND STRUCTURES REINFORCEMENT DETAILS	S-PL-6	07-30-24	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE	S-GRA-1A	06-28-19	GUARDRAIL ANCHOR FOR TYPE 12 TERMINAL (ALTERNATIVE)
D-RS-3	01-30-26	MISCELLANEOUS DETAILS FOR ROUND STRUCTURES	S-PL-6A	06-28-19	SAFETY PLAN SAFETY HARDWARE PLACEMENT IN MEDIAN	S-GRA-3	01-09-24	TYPE 13 GUARDRAIL ANCHOR
D-RJB-1		PRECAST ROUND JUNCTION BOX STRUCTURES (48" THRU 120")	S-PL-7		SAFETY PLAN HARDWARE PLACEMENT AT INTERSECTIONS	S-GRA-4	03-01-23	IN-LINE GUARDRAIL ANCHOR TO PRIVATE DRIVE
D-MH-2	02-20-20	STANDARD PRECAST NO. 3 MANHOLE	S-CC-1	10-01-24	CRASH CUSHION	S-GRA-5	06-28-19	FLARED GUARDRAIL ANCHOR
D-MH-3	02-20-20	TYPICAL DESIGN OF LIDS FOR NO. 3 MANHOLE	10-109.00	EROSION PREVENTION AND SEDIMENT CONTROL		EC-STR-1	08-01-12	DEWATERING STRUCTURE
D-MH-4	02-20-20	STANDARD NO. 3 MANHOLE CASTINGS AND STEPS	S-CC-2	06-28-19	CRASH CUSHION (GATING) BARREL ARRAY	EC-STR-2	08-01-12	SEDIMENT FILTER BAG
D-MH-5	02-20-20	STANDARD 5' 2" X 5' 2" SQUARE CONCRETE NO. 3 MANHOLE	S-GR31-1	10-31-25	GUARDRAIL DETAILS	EC-STR-3B	06-15-21	SILT FENCE
D-MH-6	02-20-20	STANDARD 7' X 7' SQUARE CONCRETE NO. 3 MANHOLE	S-GR31-1A	06-28-19	GUARDRAIL AND BLOCK-OUT DETAILS	EC-STR-3C	03-01-23	SILT FENCE WITH WIRE BACKING
D-RMH-1		PRECAST MANHOLE STRUCTURES (48" THRU 120")	S-GR31-1B		GUARDRAIL FASTENING HARDWARE	EC-STR-3D	03-01-23	ENHANCED SILT FENCE
10-106.00	ROADWAY, PAVEMENT APPURTENANCES, AND FENCES		S-GR31-1C	07-07-23	GUARDRAIL GENERAL NOTES AND POST DETAILS	EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
RP-D-15	04-01-25	DETAILS OF STANDARD CONCRETE DRIVEWAYS	S-GR31-1D	03-01-23	GUARDRAIL POST PLACEMENT IN ROCK	EC-STR-8	06-10-14	FILTER SOCK
RP-D-16	04-01-25	DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS	S-GRC-4	10-31-25	GUARDRAIL CONNECTION TO BRIDGE RAILING CONCRETE PARAPET	EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
RP-I-5	05-01-20	EXAMPLES OF STREET & ALLEY INTERSECTIONS	S-GRC-5	10-31-25	GUARDRAIL CONNECTION TO BRIDGE ENDS (TRAILING ENDS)	EC-STR-29	08-01-12	PERMANENT SLOPE DRAIN PIPE
RP-R-1	04-21-25	STANDARD RAMP DETAILS FOR ROADWAYS AND DRIVEWAYS	S-GRC-6	10-31-25	GUARDRAIL CONNECTION TO BRIDGE ENDS FOR LOW-SPEED ROADWAYS	EC-STR-34	05-04-22	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
RP-R-1A	04-21-25	STANDARD RAMP DETAILS FOR LOW VOLUME RURAL ROADWAYS	S-GRS-1	06-15-21	SPECIAL CASE LONG SPAN GUARDRAIL 1 POST, 2 OR 3 POSTS OMITTED	EC-STR-35	08-01-12	FILTER BERMS
RP-SC-1	05-04-22	SLOPING CONCRETE CURB AND CURB AND GUTTER	S-GRS-2	01-28-22	SPECIAL CASE GUARDRAIL ATTACHMENT TO CONCRETE DECKS	EC-STR-36	05-04-22	TURF REINFORCEMENT MAT FOR CHANNEL INSTALLATION
RP-VC-11	03-04-21	VERTICAL CONCRETE CURB AND CURB AND GUTTER (FOR 6" & 7" GUTTER DEPTH)	S-GRS-3	06-28-19	SPECIAL CASE GUARDRAIL FOOTING	EC-STR-37	06-10-14	SEDIMENT TUBE
S-F-1	03-01-23	HIGH VISIBILITY FENCE	S-GRS-4	05-04-22	SPECIAL CASE GUARDRAIL HEIGHT TRANSITION DETAIL	EC-STR-4	07-30-24	ENHANCED SILT FENCE CHECK (TRAPEZOIDAL DITCH)
S-F-10	07-17-20	STANDARD RIGHT-OF-WAY STOCK FENCE	S-GRS-5		SPECIAL CASE WEAK-POST GUARDRAIL ATTACHMENT TO CULVERT	EC-STR-4A	07-30-24	ENHANCED SILT FENCE CHECK (V-DITCH)
DWG.	REV.	DESCRIPTION	DWG.	REV.	DESCRIPTION	EC-STR-4B	08-01-12	ENHANCED SILT FENCE CHECK DETAILS
						EC-STR-6	11-30-20	ROCK CHECK DAM
						EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
						EC-STR-7	05-04-22	SEDIMENT TRAP WITH CHECK DAM
						EC-STR-55	08-01-12	GABION CHECK DAM
						EC-STR-56	04-01-08	GABION CHECK DAM DESIGN TABLES
						EC-STR-57	04-01-08	GABION ASSEMBLY DETAILS
						EC-STR-58	04-01-08	GABION ASSEMBLY DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	1A1
PS & E	2026	STP/HPP-31(12)	1A1

REVISION NOTES:

06-15-2026 REVISED STANDARD ROADWAY DRAWINGS LIST.

SEALED BY

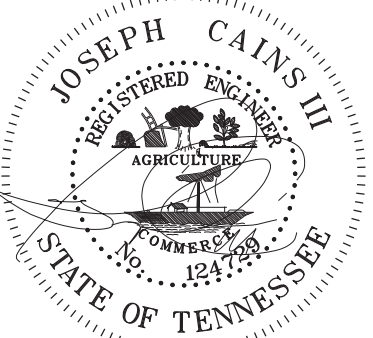


06/15/2026

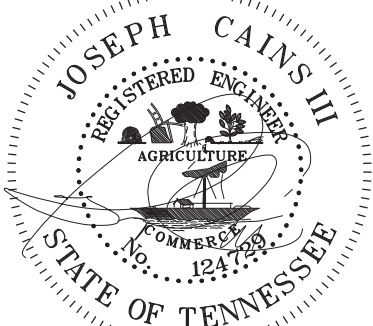
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD
ROADWAY
DRAWINGS

6/15/2026 7:22:51 PM
V:\1785\active\178560004\Roadway\Base\001A2.sht

DWG.	REV.	DESCRIPTION	DWG.	REV.	DESCRIPTION	TYPE	YEAR	PROJECT NO.	SHEET NO.
EC-STR-59	08-01-12	GABION CHECK DAM GENERAL NOTES AND COMPONENT PROPERTIES	EC-STR-32	08-01-12	TEMPORARY DIVERSION CULVERTS	R.O.W	2021	STP/HPP-31(12)	
EC-STR-61	03-16-17	LEVEL SPREADERS	EC-STR-33	08-01-12	SUSPENDED PIPE DIVERSION (DOWNSTREAM)	P-I-H	2025	STP/HPP-31(12)	1A2
EC-STR-11	03-16-17	CULVERT PROTECTION TYPE 1	EC-STR-33A	08-01-12	SUSPENDED PIPE DIVERSION (UPSTREAM)	PS & E	2026	STP/HPP-31(12)	1A2
EC-STR-19	04-01-08	CATCH BASIN PROTECTION	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-38	08-01-12	FLOATING TURBIDITY CURTAIN				
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4							
EC-STR-40		CATCH BASIN FILTER ASSEMBLY FOR CIRCULAR STRUCTURES							
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-43		CATCH BASIN FILTER ASSEMBLY (TYPE 3)							
EC-STR-43A		CATCH BASIN FILTER ASSEMBLY (TYPE 3) SLIPCOVER DETAILS							
EC-STR-44		CATCH BASIN FILTER ASSEMBLY (TYPE 4)							
EC-STR-44A		CATCH BASIN FILTER ASSEMBLY (TYPE 4) SLIPCOVER DETAILS							
EC-STR-45		CATCH BASIN FILTER ASSEMBLY (TYPE 5)							
EC-STR-45A		CATCH BASIN FILTER ASSEMBLY (TYPE 5) SLIPCOVER DETAILS							
EC-STR-46		CATCH BASIN FILTER ASSEMBLY (TYPE 6)							
EC-STR-46A		CATCH BASIN FILTER ASSEMBLY (TYPE 6) SLIPCOVER DETAILS							
EC-STR-47		CATCH BASIN FILTER ASSEMBLY (TYPE 7)							
EC-STR-47A		CATCH BASIN FILTER ASSEMBLY (TYPE 7) SLIPCOVER DETAILS							
EC-STR-48		CATCH BASIN FILTER ASSEMBLY (TYPE 8)							
EC-STR-48A		CATCH BASIN FILTER ASSEMBLY (TYPE 8) SLIPCOVER DETAILS							
EC-STR-49		CATCH BASIN FILTER ASSEMBLY (TYPE 9)							
EC-STR-49A		CATCH BASIN FILTER ASSEMBLY (TYPE 9) SLIPCOVER DETAILS							
EC-STR-50		CATCH BASIN FILTER ASSEMBLY (TYPE 10)							
EC-STR-50A		CATCH BASIN FILTER ASSEMBLY (TYPE 10) SLIPCOVER DETAILS							
EC-STR-51		CATCH BASIN FILTER ASSEMBLY (TYPE 11)							
EC-STR-51A		CATCH BASIN FILTER ASSEMBLY (TYPE 11) SLIPCOVER DETAILS							
EC-STR-12	08-01-12	ROCK SEDIMENT DAM							
EC-STR-13	08-01-12	ROCK AND EARTH SEDIMENT EMBANKMENT							
EC-STR-15	08-01-12	SEDIMENT BASIN							
EC-STR-16	08-01-12	SEDIMENT BASIN RISER AND COLLAR APPURTENANCES							
EC-STR-17	08-01-12	SEDIMENT BASIN EMBANKMENT DETAILS							
EC-STR-18		SEDIMENT BASIN FLOATING OUTLET STRUCTURE							
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-31	05-04-22	TEMPORARY DIVERSION CHANNEL							
EC-STR-31A	04-01-08	TEMPORARY DIVERSION CHANNEL DESIGN							
						REVISION NOTES: 06-15-2026 REVISED STANDARD ROADWAY DRAWINGS LIST.			
						SEALED BY  06/15/2026			
						STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD ROADWAY DRAWINGS			

6/15/2026 7:23:48 PM
V:\1785\active\178560004\Roadway\Base\001A3.sht

STANDARD TRAFFIC DESIGN AND STRUCTURE DRAWINGS												TYPE	YEAR	PROJECT NO.	SHEET NO.
DWG.	REV.	DESCRIPTION	DWG.	REV.	DESCRIPTION	DWG.	REV.	DESCRIPTION	DWG.	REV.	DESCRIPTION	R.O.W	2021	STP/HPP-31(12)	1A4
STANDARD TRAFFIC DESIGN DRAWINGS												P-I-H	2025	STP/HPP-31(12)	1A4
10-200.00 SIGNS												PS & E	2026	STP/HPP-31(12)	1A3
T-S-6	07-30-25	STANDARD MOUNTING DETAILS - BOLTED EXTRUDED PANELS	T-M-15A	01-24-25	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED RURAL ROUTES	STD-6-1	12-08-23	STANDARD SEISMIC DETAILS	REVISION NOTES: 06-15-2026 REVISED STANDARD TRAFFIC DESIGN AND STRUCTURE DRAWINGS LIST.						
T-S-9	07-30-25	STANDARD LAYOUT - GROUND MOUNTED SIGNS	T-M-16	01-24-25	RUMBLE STRIPE INSTALLATION LAYOUT	STD-8-4	02-26-25	SIGN, LUMINAIRE, AND TRAFFIC SIGNAL SUPPORTS							
T-S-10	07-30-25	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS, ALUMINUM-STEEL DESIGN	T-M-16A	01-24-25	RUMBLE STRIPE DETAILS FOR EDGE OF PAVEMENT AND CENTERLINE	STD-8-6	10-03-18	TRI-STAR STATE EMBLEM FINISH DETAILS							
T-S-12	07-30-25	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, SQUARE TUBES	T-M-16B		MUMBLE STRIP/STRIPE DETAILS FOR EDGE OF PAVEMENT	STD-9-1	10-07-08	STANDARD REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLABS							
T-S-16	07-30-25	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS	10-204.02 WORK ZONES			STD-10-1	06-05-23	MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS							
T-S-16A	07-02-15	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS	T-WZ-10	03-26-25	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS	STD-10-2	06-05-23	MISC. ABUTMENT & PAVEMENT AT BRIDGE ENDS BACKFILL DETAILS							
T-S-17	07-30-25	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE	T-WZ-30	03-26-25	TRAFFIC CONTROL 2-LANE, 2-WAY DIVERSION (40 MPH OR LESS)	STD-14-2	03-06-24	STANDARD DETAILS AND INTERMEDIATE DIAPHRAGM DETAILS FOR I-BEAMS							
T-S-18	07-30-25	END OF ROADWAY, DEAD END SIGNS, AND METAL BARRICADES (TYPE III)	T-WZ-30	03-26-25	TRAFFIC CONTROL 2-LANE, 2-WAY DIVERSION (40 MPH OR LESS)	STD-14-3	03-06-24	STANDARD DETAILS FOR PRESTRESSED BOX BEAMS							
T-S-19	07-30-25	STANDARD STEEL SIGN SUPPORTS	T-WZ-31	03-26-25	TRAFFIC CONTROL 2-LANE, 2-WAY DIVERSION (GREATER THAN 40 MPH)	10-301.00 LRFD BOX CULVERTS									
T-S-20	07-30-25	SIGN DETAILS	T-WZ-31	03-26-25	TRAFFIC CONTROL 2-LANE, 2-WAY DIVERSION (GREATER THAN 40 MPH)	STD-17-1		INDEX OF DRAWINGS							
T-S-23A	07-30-25	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY P-POST SIGN SUPPORT	T-WZ-32	03-26-25	TRAFFIC CONTROL PLAN SIGNAL LAYOUT FOR SIGNAL TRAFFIC AT TWO LANE BRIDGE RECONSTRUCTION SITE	STD-17-2		TERMINOLOGY OF DRAWINGS							
T-S-23C	07-30-25	BREAKWAY POST SIGN SUPPORTS	T-WZ-32	03-26-25	TRAFFIC CONTROL PLAN SIGNAL LAYOUT FOR SIGNAL TRAFFIC AT TWO LANE BRIDGE RECONSTRUCTION SITE	STD-17-10		TYPICAL WINGWALL DETAILS AND NOTES							
10-201.00 SIGNALS			T-WZ-34	03-26-25	TRAFFIC CONTROL PLAN GENERAL NOTES FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE	STD-17-11		WINGWALL DIMENSIONS AND QUANTITIES							
T-SG-5	12-18-25	CONTROLLER CABINET DETAILS	T-WZ-34	03-26-25	TRAFFIC CONTROL PLAN GENERAL NOTES FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE	STD-17-12		WINGWALL DIMENSIONS AND QUANTITIES							
T-SG-6	12-18-25	PEDESTRIAN SIGNAL DETAILS	T-WZ-35	03-26-25	TRAFFIC CONTROL PLAN PAY ITEM AND SIGN DETAILS FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE	STD-17-13		WINGWALL DIMENSIONS AND QUANTITIES							
T-SG-7	12-18-25	SIGNAL HEAD ASSEMBLIES	T-WZ-36	03-26-25	LANE CLOSURE ON LOW-VOLUME 2-LANE HIGHWAY	STD-17-14		WINGWALL DIMENSIONS AND QUANTITIES							
T-SG-9A	12-18-25	MISCELLANEOUS SIGNAL DETAILS	T-WZ-56	03-26-25	TRANSVERSE RUMBLE STRIP USE WITHIN WORK ZONES	STD-17-15		WINGWALL AND SPECIAL RETAINING WALL DESIGN SECTIONS							
T-SG-10	12-18-25	MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS	T-WZ-FAB1	03-26-25	FLASHING YELLOW ARROW BOARD	STD-17-16		WINGWALL DESIGN SECTIONS							
T-SG-11	12-18-25	MAINTENANCE OF EXISTING SIGNALS DURING HIGHWAY CONSTRUCTION	T-WZ-PBR1	03-26-25	INTERCONNECTED PORTABLE BARRIER RAIL (Replaced TPBR-1)	STD-17-17	06-01-11	BACKFILL AND DRAINAGE DETAILS							
T-SG-12	12-18-25	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS	T-WZ-PBR2	03-26-25	DETAILS FOR WORK ZONE CHANNELIZATION DEVICES	STD-17-18		BACKFILL DETAILS							
T-SG-13	12-18-25	FLASHING BEACON DETAIL	T-WZ-PCB2	03-26-25	20 FOOT PORTABLE CONCRETE BARRIER RAIL	STD-17-20		LOW FLOW CHANNEL CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET							
10-202.00 LIGHTING AND UTILITY POLES			T-WZ-PCB2A	03-26-25	20 FOOT PORTABLE CONCRETE BARRIER RAIL STIFFENER TUBE	STD-17-21		DEBRIS DEFLECTION WALL FOR BOX BRIDGE EXTENSION DETAILS							
T-FO-1		FIBER OPTIC AERIAL ENTRANCE DETAILS	T-WZ-PCB3	03-26-25	PORTABLE CONCRETE BARRIER RAIL DETAILS	STD-17-26		END SECTION DETAILS							
T-FO-2		FIBER OPTIC UNDERGROUND ENTRANCE DETAILS	10-300.00 NEW STRUCTURES			STD-17-28		END SECTION DETAILS							
T-FO-3		FIBER OPTIC AERIAL CONNECTION DETAILS	STD-1-1SS	07-09-25	BRIDGE RAILING CONCRETE PARAPET	STD-17-29		PRECAST BOX CULVERT DETAILS							
T-FO-4		FIBER OPTIC PULL BOX, CABINET & POLE DETAILS	STD-1-2SS	05-31-24	STEEL SLIDER PLATE ASSEMBLIES FOR SINGLE SLOPE CONCRETE PARAPET AND BRIDGE DECK DRAIN DETAILS	STD-17-34		STANDARD INTERNAL ENERGY DISSIPATOR FOR BOX AND PIPE CULVERTS							
10-204.00 DESIGN - TRAFFIC CONTROL			STD-1-5	06-05-23	REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS	STD-17-51	05-01-14	BOX BRIDGE, 1 BARREL AT 6', CLEAR HTS. 3' - 6', 0 - 60'							
T-M-1	01-24-25	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS	STD-1-7	05-10-21	BRIDGE END DRAIN DETAILS 2' X 8'-7" & 4' X 8'-7" WITH PAVEMENT AT BRIDGE ENDS	SBR-2-134	01-04-96	DETAILS SHOWING GUARDRAIL ATTACHMENT AT BRIDGE ENDS TO EXISTING CONCRETE VERTICAL FACE ENDPOST – 1989							
T-M-2	01-24-25	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS	STD-2-1	08-26-25	BRIDGE MOUNTED INTERCONNECTED PORTABLE BARRIER RAIL	SBR-2-144	01-22-02	STANDARD SHOWING DETAILS OF ATTACHING GUARDRAIL BRIDGERAIL TO TOP OF EXISTING CURBS - 1992							
T-M-3	01-24-25	MARKING STANDARDS FOR TRAFFIC ISLANDS, PAVED SHOULDERS AND MEDIANS FOR CONVENTIONAL ROADS	STD-2-3	08-26-25	BRIDGE MOUNTED INTERCONNECTED PORTABLE BARIER RAIL ALTERNATE CONNECTION DETAIL	SEALED BY  06/15/2026									
T-M-4	01-24-25	STANDARD INTERSECTION PAVEMENT MARKINGS	STD-4-1	04-08-05	STANDARD PRECAST PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS										
			STD-4-2	04-08-05	STANDARD PRECAST PRESTRESSED BRIDGE DECK PANELS DESIGN CRITERIA										
			STD-4-3	03-02-02	STANDARD PRECAST PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS										
			STD-4-4	06-10-96	STANDARD PRECAST PRESTRESSED BRIDGE DECK PANELS CONSTRUCTION DETAILS										
			STD-5-1		STANDARD PILE DETAILS										
								STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD STRUCTURE AND TRAFFIC DESIGN DRAWINGS							

6/24/2026 2:40:48 PM
V:\1785\active\178560004\Roadway\Base\002.sht

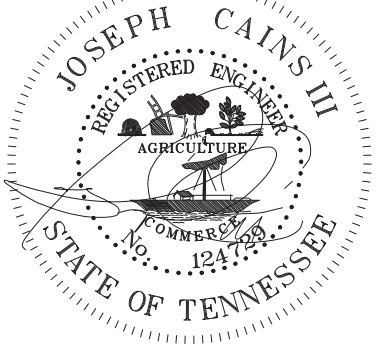
ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 37022-3219-14
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS 1
(1)(2)	106-04.01	SMPLNG & TSTNG OF POTENTIALLY ACIDIC MAT	EACH 112
(3)	201-01	CLEARING AND GRUBBING	LS 1
(4)(48)	202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS 1
(5)	202-04.50	REMOVAL OF STRUCTURES (BOX CULVERT EXTENSION, STA. 10+89.39)	LS 1
(6)	202-06.01	REMOVAL OF BUILDINGS (TRACK NO. 17)	LS 1
(6)	202-06.02	REMOVAL OF BUILDINGS (TRACK NO. 18)	LS 1
(6)	202-06.03	REMOVAL OF BUILDINGS (TRACK NO. 20)	LS 1
(6)	202-06.04	REMOVAL OF BUILDINGS (TRACK NO. 26)	LS 1
(6)	202-06.05	REMOVAL OF BUILDINGS (TRACK NO. 28)	LS 1
(6)	202-06.06	REMOVAL OF BUILDINGS (TRACK NO. 28A)	LS 1
(6)	202-06.07	REMOVAL OF BUILDINGS (TRACK NO. 29)	LS 1
(6)	202-06.08	REMOVAL OF BUILDINGS (TRACK NO. 44A)	LS 1
(6)	202-06.09	REMOVAL OF BUILDINGS (TRACK NO. 52)	LS 1
(6)	202-06.10	REMOVAL OF BUILDINGS (TRACK NO. 53)	LS 1
(6)	202-06.11	REMOVAL OF BUILDINGS (TRACK NO. 54)	LS 1
(6)	202-06.12	REMOVAL OF BUILDINGS (TRACK NO. 57)	LS 1
(6)	202-06.13	REMOVAL OF BUILDINGS (TRACK NO. 112)	LS 1
(6)	202-06.14	REMOVAL OF BUILDINGS (TRACK NO. 113)	LS 1
(7)(8)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y. 44142
(2)(9)	203-01.07	RD & DRNG EXCV (ACID PRODUCING- OFF SITE DISPOSAL)	C.Y. 8640
(2)	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON 1500
	203-04	PLACING AND SPREADING TOPSOIL	C.Y. 5667
(10)	203-05	UNDERCUTTING	C.Y. 206
	203-06	WATER	M.G. 152
(11)	203-50	CONSTRUCTION OF HAUL ROAD (PHASE 1 & 2 HAUL ROAD)	LS 1
(12)	204-01	CULVERT EXCAVATION (UNCLASSIFIED)	C.Y. 37
(13)	204-08	FOUNDATION FILL MATERIAL	C.Y. 6
(14)	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y. 15
	208-01.05	BROOMING & DEGRASSING SHOULDERS	L.M. 1.347
	209-05	SEDIMENT REMOVAL	C.Y. 677
(14)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F. 443
(14)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F. 2100
(14)	209-08.07	ROCK CHECK DAM PER	EACH 36
(14)	209-09.01	SANDBAGS	BAG 4700
(14)	209-09.03	SEDIMENT FILTER BAG (15'X15')	EACH 2
(14)	209-09.40	CURB INLET PROTECTION (TYPE 1)	EACH 18
	209-10.01	TEMPORARY DEWATERING STRUCTURE	C.Y. 298
(14)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y. 39
	209-20.04	POLYETHYLENE SHEETING (10MIL.)	S.Y. 2
(14)	209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH 7
(15)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON 18879
(12)	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON 95
(14)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON 261
	303-10.04	MINERAL AGGREGATE (SIZE 67)	TON 2430
	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON 2444
(16)	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON 3425
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON 27
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON 96
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON 19
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON 295
	411-01.10	ACS MIX(PG64-22) GRADING D	TON 1935
	411-12.01	SCORING SHOULDERS(CONTINUOUS) (16 In WIDTH)	L.M. 1.6
	411-12.05	SCORING FOR CENTERLINE RUMBLE (4In WIDTH - 24In SPACING)	L.M. 1
	415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON 635
	602-01	STRUCTURAL STEEL	LB. 64
(12)(17)	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y. 8
(12)	604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB. 1240
(19)(18)	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F. 1330
(20)(18)	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F. 1125
(20)(18)	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F. 178

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 37022-3219-14
(21)(18)	607-11.03	60" CONCRETE PIPE CULVERT (CLASS III)	L.F. 56
(22)	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F. 495
	607-39.04	30" PIPE CULVERT (SIDE DRAIN)	L.F. 371
	611-01.02	MANHOLES, > 4' - 8' DEPTH	EACH 2
	611-01.03	MANHOLES, > 8' - 12' DEPTH	EACH 1
	611-01.21	REWORK MANHOLE	EACH 1
(23)	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y. 19.92
(24)	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB. 977
	611-07.31	18" ENDWALL (SIDE DRAIN)	EACH 10
	611-07.33	30" ENDWALL (SIDE DRAIN)	EACH 1
(25)	611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH 2
	611-07.55	18IN ENDWALL (CROSS DRAIN) 4:1	EACH 7
	611-07.56	18IN ENDWALL (CROSS DRAIN) 6:1	EACH 1
	611-07.57	24IN ENDWALL (CROSS DRAIN) 3:1	EACH 1
	611-07.63	36IN ENDWALL (CROSS DRAIN) 3:1	EACH 2
(26)	611-09.03	CAPPING EXISTING CATCH BASIN	EACH 1
	611-25.01	CATCH BASINS, TYPE 25, > 0' - 4' DEPTH	EACH 4
	611-25.02	CATCH BASINS, TYPE 25, 4' - 8' DEPTH	EACH 15
	611-38.01	CATCH BASINS, TYPE 38, 0' - 4' DEPTH	EACH 3
	611-38.02	CATCH BASINS, TYPE 38, 4' - 8' DEPTH	EACH 3
(14)	621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F. 100
	701-02	CONCRETE DRIVEWAY	S.F. 247
	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y. 215
	703-01	PORTLAND CEMENT CONCRETE DITCH PAVING	C.Y. 373
(27)	705-01.04	METAL BEAM GUARD FENCE	L.F. 39
(28)	705-06.01	W BEAM GR (TYPE 2) MASH TL3	L.F. 2549
(27)	705-06.09	WEAK-POST GUARDRAIL ATTACHMENT TO CULVERT(MASH TL-3)(TYPE 4)	L.F. 38
	705-06.11	GR TERMINAL (IN-LINE) MASH TL3	EACH 11
	705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH 7
	705-06.25	THRIE BEAM BRIDGE TRANSITION MASH TL-3	EACH 8
(29)	705-06.30	GR TERMINAL (ENERGY ABSORBING) MASH TL2	EACH 6
(30)	706-06.03	RADIUS RAIL	L.F. 270
(30)	706-10.26	ROUNDED END ELEMENT	EACH 10
	707-01.11	CHAIN LINK FENCE (6 FOOT)	L.F. 375
	707-06.01	REMOVAL OF FENCE (CHAIN-LINK FENCE)	L.F. 2493
	707-08.01	FENCE (BARDED WIRE)	L.F. 1033
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F. 390
	708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH 75
(14)(31)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON 569
(32)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON 1744
(33)	709-05.09	MACHINED RIP-RAP (CLASS C)	TON 350
(27)(34)	712-01	TRAFFIC CONTROL	LS 1
(27)	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F. 510
(27)	712-02.10	PORTABLE BARRIER RAIL (MASH TL-3)	L.F. 220
(27)	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH LT-3)	EACH 4
(27)(35)	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH 1233
(27)	712-05.01	WARNING LIGHTS (TYPE A)	EACH 12
(27)	712-05.03	WARNING LIGHTS (TYPE C)	EACH 49
(27)	712-06	SIGNS (CONSTRUCTION)	S.F. 2177
(27)	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F. 160
	713-01.01	CLASS A CONCRETE (FOUNDATION FOR SIGNS SUPPORTS)	C.Y. 8
	713-01.02	STEEL BAR REINFORCEMENT(FOUNDATION FOR SIGNS SUPPORTS)	LB. 1863
	713-02.26	CONCRETE BARRIER/PARAPET DELINEATOR	EACH 6
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB. 2794
	713-11.21	P POST SLIP BASE	EACH 36
	713-11.22	U POST SLIP BASE	EACH 1
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F. 212
(36)	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F. 446
(37)	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS 1
(38)	713-15.02	REMOVAL & RELOCATION OF SIGN & SUPPORT	EACH 12
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH 6

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	2
P-I-H	2025	STP/HPP-31(12)	2
PS & E	2026	STP/HPP-31(12)	2

REVISION NOTES:
06-15-2026 ADDED PAY ITEM 208-01.05 AND 611-25.01;REVISED PAY ITEM QUANTITY FOR 209-09.40, 303-01, 411-01.10, 607-03.02, 607-05.02, 607-07.02, 611-25.02, 702-03, 705-06.01, 705-06.11, 706-06.03; REMOVED PAY ITEMS 611-12.01, 611-12.02, 710-09.01; REMOVED FOOTNOTE (16) FROM PAY ITEM 411-01.10.

SEALED BY



06/15/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED
ROADWAY
QUANTITIES

6/24/2026 4:05:36 PM
V:\1785\active\178560004\Roadway\Base\002- 1.sht

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 37022-3219-14
(27)	716-01.07	TEMPORARY RAISED PAVEMENT MARKERS, YELLOW	EACH 1002
	716-01.21	SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR) (1 COLOR)	EACH 234
	716-01.22	SNOWPLOWABLE RAISED PAVMENT MARKERS (MONO-DIR)(1 COLOR)	EACH 32
	716-02.04	PLASTIC PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y. 29
	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F. 223
(39)	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH 14
	716-02.12	PLASTIC PAVMENT MARKING (8IN LINE)	L.M. 1
	716-04.01	PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH 3
	716-05.01	PAINTED PAVEMENT MARKING(4IN LINE)	L.M. 1
	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F. 304
(27)	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M. 13
(40)	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M. 5
	716-12.05	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN DOTTED LINE)	L.F. 2213
(49)	717-01	MOBILIZATION	LS 1
	730-40.01	PORTABLE TRAFFIC SIGNAL SYSTEM	EACH 10
(41)	740-06.01	GEOMEMBRANE	S.Y. 3356
	740-07.04	GEOGRID REINFORCEMENT (TYPE 2)	S.Y. 2105
	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y. 1137
(14)(42)	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y. 22799
(2)(43)	801-01	SEEDING (WITH MULCH)	UNIT 1084
(44)	801-01.38	NATIVE SEED MIX FINAL STABILIZATION OF SLOPES	UNIT 35
(45)	801-02	SEEDING (WITHOUT MULCH)	UNIT 44
(14)	801-03	WATER (SEEDING & SODDING)	M.G. 22
(46)	803-01	SODDING (NEW SOD)	S.Y. 2407
(14)	805-12.01	EROSION CONTROL BLANKET (TYPE I)	S.Y. 17432
(47)	806-02.03	PROJECT MOWING	CYCL 6
	801-01.36	SPECIAL WETLAND SEED MIXTURE	UNIT 2

FOOTNOTES	
(1)	TO BE CONDUCTED IN ACCORDANCE WITH SP107L. COST TO INCLUDE COLLECTING SAMPLE, PACKAGING, SHIPPING, HANDLING, AND TEST ANALYSIS FROM STA 219+00 TO STA 228+50. COPY OF TEST RESULTS SHALL BE EMAILED TO TDOT.GEOTECH@TN.GOV, INCLUDING PROJECT DESCRIPTION, CONTRACT NUMBER, AND PIN FOR REVIEW.
(2)	REFER TO GEOTECHNICAL PLANS FOR MORE INFORMATION.
(3)	ESTIMATED AT 19.905 ACRES
(4)	SEE TABULATED QUANTITIES SHEET NO. 2F3 FOR REMOVAL OF DRAINAGE PIPES AND DRAINAGE STRUCTURES.
(5)	INCLUDES REMOVAL OF CUT OFF WALLS/TOE WALLS, CURBS, WING WALLS AT THE BOX CULVERT EXTENSION. SEE SHEETS 4B AND 30 FOR MORE DETAILS.
(6)	BID PRICE INCLUDES ALL SALVAGE VALUE OF MATERIAL. SEE TABULATED QUANTITIES SHEET NO. 2F3 FOR REMOVAL OF BUILDINGS AND OBSTRUCTIONS DESCRIPTION BLOCK.
(7)	INCLUDES EXCAVATION OF 537 CY FOR EPSC, AND 43,605 CY OF EMBANKMENT USED THROUGHOUT MAINLINE, SIDE ROADS, AND DRIVEWAYS
(8)	SEE SHEET 2D FOR GRADING SPECIAL NOTES.
(9)	INCLUDES EXCAVATION, HAULING, PERMITTING, AND LANDFILL FEES.
(10)	GRADED SOLID ROCK/UNDERCUT, SEE GEOTECHNICAL SHEETS G-9 TO G-14 FOR MORE DETAILS.
(11)	HAUL ROAD SHALL BE CONSTRUCTED WITHIN PROPOSED RIGHTS-OF-WAY AND EASEMENTS WITHIN THE PROJECT LIMITS AS DEFINED IN THE CONTRACT PLANS. PAYMENT OF THIS ITEM INCLUDES ALL REQUIREMENTS FOR INSTALLATION INCLUDING GRADING, ROCK, GEOTEXTILE, AND 57 STONE NEEDED FOR BUILDING OF THE HAUL ROAD, MAINTENANCE OF THE HAUL ROAD DURING THE LIFE OF THE PROJECT, AND THE REMOVAL OF THE HAUL ROAD TO PREEXISTING CONDITIONS INCLUDING SEEDING AND STRAWING UPON COMPLETION OF THE HAUL ROAD REMOVAL. NO ADDITIONAL COMPENSATION WILL BE MADE FOR CLEARING, SURVEYING OR INCIDENTALS DUE TO THE LOCATION CHOSEN BY THE CONTRACTOR FOR ACCESS TO THE SITE. THE CONTRACTOR IS REQUIRED TO SUBMIT A PROPOSED LOCATION AND PLAN FOR REVIEW AND APPROVAL TO THE TDOT MANAGER PRIOR TO CONSTRUCTION OF HAUL ROAD. IN THE EVENT THAT THE HAUL ROAD FOOTPRINT OVERLAPS WITH PROPOSED RIP-RAP AT THE BRIDGE ABUTMENTS, THE CONTRACTOR MAY USE THE HAUL ROAD 57 STONE AS BEDDING MATERIAL FOR THE PROPOSED RIP-RAP. FINAL SLOPE AND GRADE WILL NOT BE ALTERED BY THIS ACTION.
(12)	USED FOR 6'X4' RCBC EXTENSION AT STATION 10+89.39. ALL INCIDENTALS REQUIRED FOR THE PROPER CONSTRUCTION OF THE BOX AND WING WALLS ARE TO BE INCLUDED IN THE COST OF OTHER ITEMS.
(13)	USED FOR ABANDONED PIPES
(14)	ALL EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY ENGINEER. SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
(15)	USED FOR BASE MATERIAL ON SR 31, SIDE ROADS, AND DRIVEWAYS. INCLUDES 17087 TONS FOR SR 31 & SIDE ROADS, 790 TONS FOR DRIVEWAYS, AND 304 TONS FOR TRAFFIC CONTROL.
(16)	INCLUDES 225 TONS FOR MAINTENANCE OF TRAFFIC, 3005 TONS FOR SR 31 AND SIDE ROADS, AND 195 TONS FOR DRIVEWAYS.
(17)	INCLUDES 1 CY USED FOR SPECIAL CASE GUARDRAIL FOOTING (S-GRS-3) OVER CB15
(18)	BEDDING MATERIAL SHALL BE INCLUDED IN THE COST OF THE PROPOSED PIPE CULVERT. SEE STANDARD DRAWING NO. D-PB-1 AND D-PB-2 FOR ADDITIONAL DETAILS.
(19)	INCLUDES 297 LF FOR CROSS DRAINS & 1033 LF FOR STORM DRAIN
(20)	FOR STORM DRAINS

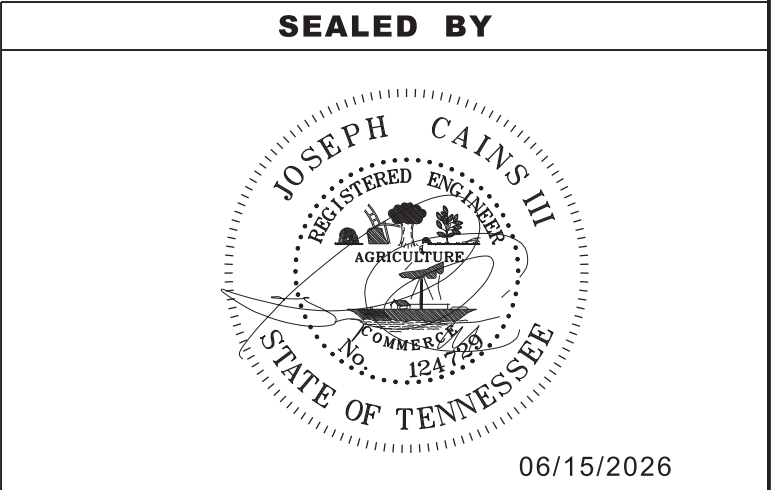
FOOTNOTES	
(21)	FOR CROSS DRAINS
(22)	METAL PIPES SHALL NOT BE CONSIDERED AS AN ACCEPTABLE PIPE MATERIAL FOR SIDE DRAIN
(23)	INCLUDES 2.84 CY FOR STORM DRAINS AT ENDWALLS 16 & 20 AND 17.08 CY FOR CROSS DRAINS
(24)	INCLUDES 109 LBS FOR STORM DRAINS AT ENDWALLS 16 & 20 AND 868 LBS FOR CROSS DRAINS
(25)	USED FOR CROSS DRAINS
(26)	ITEM INCLUDES THE CONTRACTOR PROVIDING A TRAFFIC RATED COVER THAT MEETS TDOT STANDARDS & SPECIFICATIONS. SURVEY LAYOUT AND INCIDENTALS REQUIRED FOR FIELD VERIFICATION DURING CONSTRUCTION ARE INCLUDED IN THE COST OF THE ITEM.
(27)	USED FOR MAINTENANCE OF TRAFFIC
(28)	INCLUDES 2217 LF USED FOR PROPOSED LAYOUT AND 332 LF USED FOR TRAFFIC CONTROL PLANS QUANTITIES.
(29)	INCLUDES 4 EA FOR MAINTENANCE OF TRAFFIC
(30)	USED FOR DRIVEWAY ENTERANCE RETURNS AND SIDE STREETS
(31)	USED FOR CULVERT PROTECTION TYPE 1 ON EPSC PLANS AND INCLUDES 6 TONS USED FOR TEMPORARY SLOPE DRAIN PIPE
(32)	USED FOR BRIDGE ABUTMENT AREA AND INCLUDED 105 TON FOR 6'X4' RCBC EXTENSION. RIP-RAP INSTALLATION ON MOORSBURG BRANCH BRIDGE # 37-SR031-0001 NEEDS TO BE EXTENDED TO ROCK IN ALL LOCATIONS UNLESS OTHERWISE. IF ROCK IS ENCOUNTERED HIGHER THAN EXPECTED, THE ABUTMENT BERM ELEVATION CAN BE INCREASED TO MAINTAIN THE MINIMUM RIP-RAP THICKNESS WITH THE APPROVAL OF THE STRUCTURAL EMGINEER.
(33)	USED FOR ENDWALLS 111,113,115, AND 116 AND INCLUDES 54 TONS USED FOR EPSC PLANS
(34)	INCLUDES THE COST OF BLACKOUT TAPE AND REMOVAL OF PAVEMENT MARKINGS
(35)	TO BE INCREASED OR DECREASED AS DIRECTED THE TDOT ENGINEER
(36)	INCLUDES 168 SF FOR I2-5 AND D12-5 SIGNS
(37)	REMOVE SIGNS, SUPPORTS, AND FOOTINGS ON ALL THREE SEGMENTS PER THE SIGNING AND
	PAVEMENT MARKING SHEETS. APPROXIMATELY 40 EXISTING SIGNS AND SUPPORTS.
(38)	RELOCATE SIGNS AS SHOWN IN THE PLANS. COORDINATE WITH THE TDOT TRAFFIC DESIGN DIVISION IF THE SIGNS AND SUPPORTS NEED TO BE REPLACED.
(39)	FOR PERMANENT STRIPING ON SIDE ROADS (LOCAL ROADS).
(40)	FOR PERMANENT STRIPING ON SR 31. CONTRACTOR SHALL USE THE EXTRUDED OR RIBBON METHOD FOR APPLICATION.
(41)	USED UNDER CEMENT CONCRETE DITCH PAVING ON SECTIONS 1 AND 2
(42)	INCLUDES 11 SY FOR PIPE OUTLET PROTECTION, 904 SY FOR 15 CULVERT PROTECTIONS (TYPE 1), AND 222 SY FOR TEMPORARY SEDIMENT FILTER BAG AND FLEXIBLE PIPE DIVERSION.
(43)	INCLUDES 780 SY FROM GEOTECHNICAL PLANS AND 1152 SY FOR ABUTMENT AND PAVEMENT AT BRIDGE ENDS FOR SEGMENTS 1 AND 3.
(44)	INCLUDES QUANTITY NEEDED FOR DITCHES
(45)	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 FEET OF THE EDGE OF WATER. THE APPROXIMATE SEED MIXTURE FOR THE REGION AND SITE CONDITIONS SHALL 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 EDTION.
(46)	INCLUDES 14,530 GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
(47)	ITEM INCLUDES LITTER AND TRASH REMOVAL. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY BUT WILL BE INCLUDED IN THE COST OF ITEM NO. 806-02.03 PROJECT MOWING PER CYCLE.
(48)	CONTRACTOR SHALL NOT DISTURB PRIVATE WATERLINE ON PARCEL 28 DURING DEMOLITION OF STRUCTURES.
(49)	PLEASE REFER TO SPECIAL PROVISION REGARDING TEMPORARY TRAFFIC CONTROL (SIGNALIZATION) 730A, STANDARD SPECIFICATION 730, SUBSECTION 730.28C, AND THE DEPARTMENT'S CURRENT QPL PRODUCT CATEGORY 44 FOR APPROVED DEVICES.

NOTES:
1. COST OF BRIDGE REMOVAL IS INCLUDED IN THE COST OF THE NEW BRIDGE.
2. METAL PIPES SHALL NOT BE CONSIDERED AS AN ACCEPTABLE PIPE MATERIAL FOR THIS PROJECT.
3. FOR ITEMS 607-39.04 AND 611-07.33, SEE FOOTNOTES (4) AND (5) ON EPSC SHEET 38.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	2
P-I-H	2025	STP/HPP-31(12)	2-1
PS & E	2026	STP/HPP-31(12)	2-1

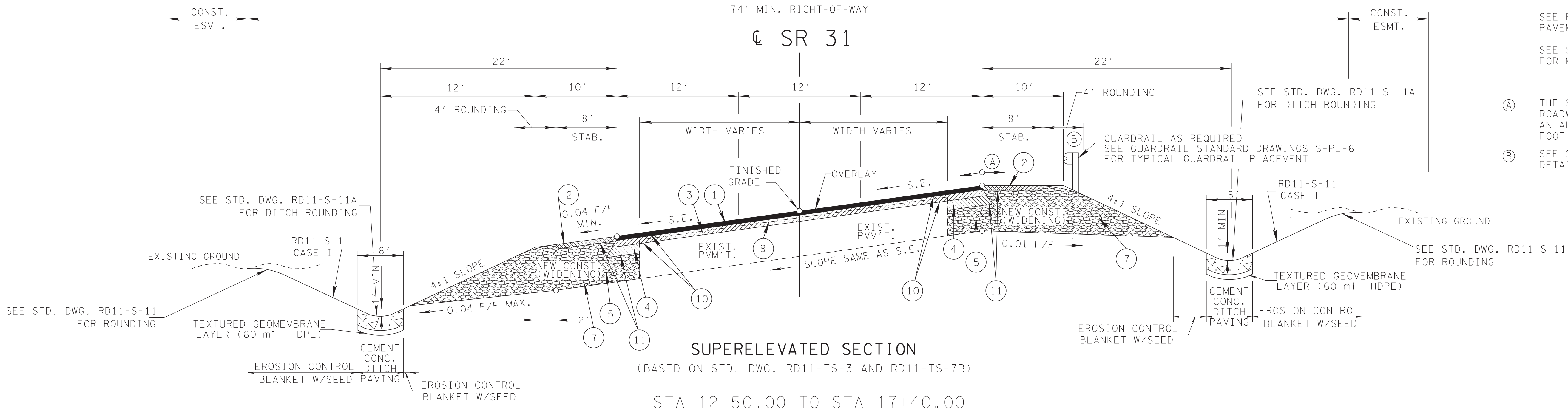
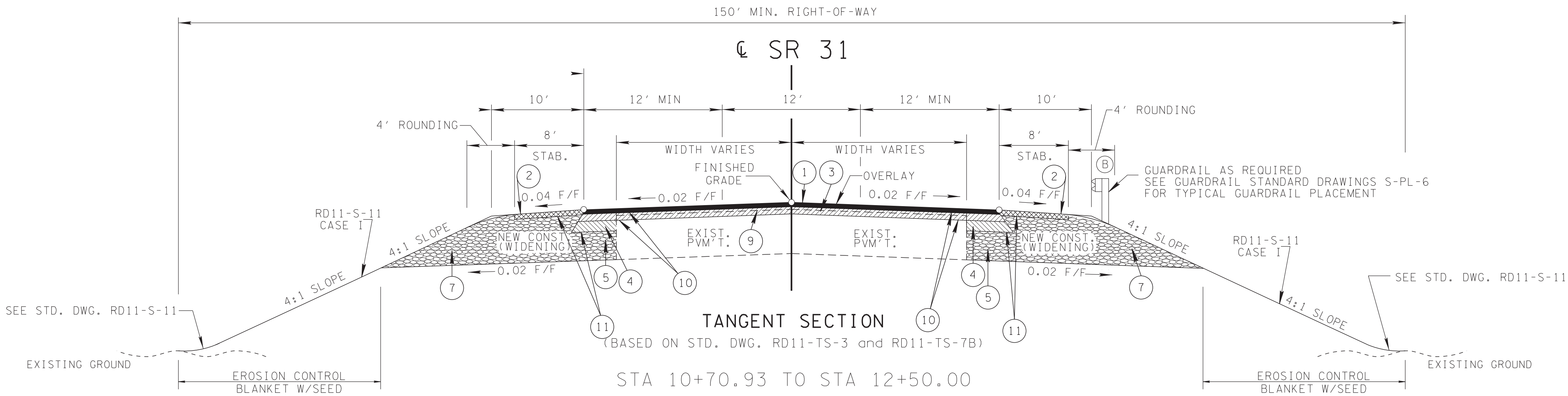
REVISION NOTES:

06-15-2026 MODIFIED FOOTNOTE (12), (15), (16), (19), (28), AND (39); ADDED FOOTNOTE (49).



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED
ROADWAY
QUANTITIES



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	2B
P-I-H	2025	STP/HPP-31(12)	2B
PS & E	2026	STP/HPP-31(12)	2B

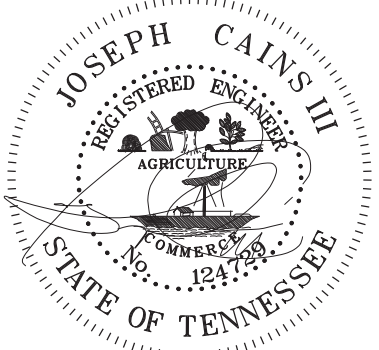
REVISION NOTES:
06-15-2026 REVISED STD. DWG. REFERENCE, CURB AND GUTTER TYPE, SHOULDER WIDTH, AND LEGEND 8 DESCRIPTION; ADDED LEGEND 12.

- NOTE: REFER TO PROPOSED LAYOUT SHEET FOR DITCH LINING
- SEE PROPOSED LAYOUT SHEET 4B FOR PAVEMENT TRANSITIONS
- SEE STD. DWG. RD11-SE-2 & RD11-SE-2A FOR MORE DETAILS
- (A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07 FOOT PER FOOT
- (B) SEE SHEET 2B5 FOR SHOULDER WIDENING DETAIL FOR GUARDRAIL WHEN REQUIRED

PROPOSED PAVEMENT SCHEDULE

(1) ASPHALTIC CONCRETE SURFACE (HOT MIX) @ 1.25" THICK APPROX. 132.5 LBS./SQ.YD. 411-01.10 ACS MIX (PG64-22) GRADING "D"	(5) MINERAL AGGREGATE BASE @ 8" THICK (ROADWAY) 303-01 MINERAL AGGREGATE, TYPE "A" BASE GRADING "D"	(9) COLD PLANING OF BITUMINOUS PAVEMENT @ 1.25" THICK 415-01.01 COLD PLANING OF BITUMINOUS PAVEMENT
(2) ASPHALTIC CONCRETE SURFACE (HOT MIX) @ 1.50" THICK APPROX. 128.75 LBS./SQ.YD. 411-01.07 ACS MIX (PG64-22) GRADING E SHOULDER	(6) MINERAL AGGREGATE BASE @ 10.00" THICK (ROADWAY) 303-01 MINERAL AGGREGATE, TYPE "A" BASE GRADING "D"	(10) BITUMINOUS TACK COAT 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) (SEE 403.05 FOR DETERMINING APPLICATION RATE IN THE FIELD)
(3) BITUMINOUS PLANT MIX BASE (HOT MIX) @ 2" THICK (APPROX. 226 LBS./SQ.YD) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING 'B-M2'	(7) MINERAL AGGREGATE BASE @ 12.75" THICK (ROADWAY) 303-01 MINERAL AGGREGATE, TYPE "A" BASE GRADING "D"	(11) BITUMINOUS PRIME COAT 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) (RATE 0.35 GAL./SQ.YD.)
(4) BITUMINOUS PLANT MIX BASE (HOT MIX) @ 3" THICK APPROX. 345 LBS./SQ.YD. 307-01.01 ASPHALT CONCRETE MIX (PG64-22) (BPMB) GRADING 'A'	(8) CONCRETE COMBINED CURB AND GUTTER TYPE 6-30 DEPTH 8" 702-03 CONCRETE CURB AND GUTTER DWG. NO. RP-SC-1	(12) CONCRETE COMBINED CURD AND GUTTER TYPE 6-30 DEPTH 6" 702-03 CONCRETE CURB AND GUTTER DWG. NO RP-VC-11
		402-02 AGGREGATE FOR COVER MATERIAL (PC) (RATE 10 LBS./SQ.YD.)

SEALED BY



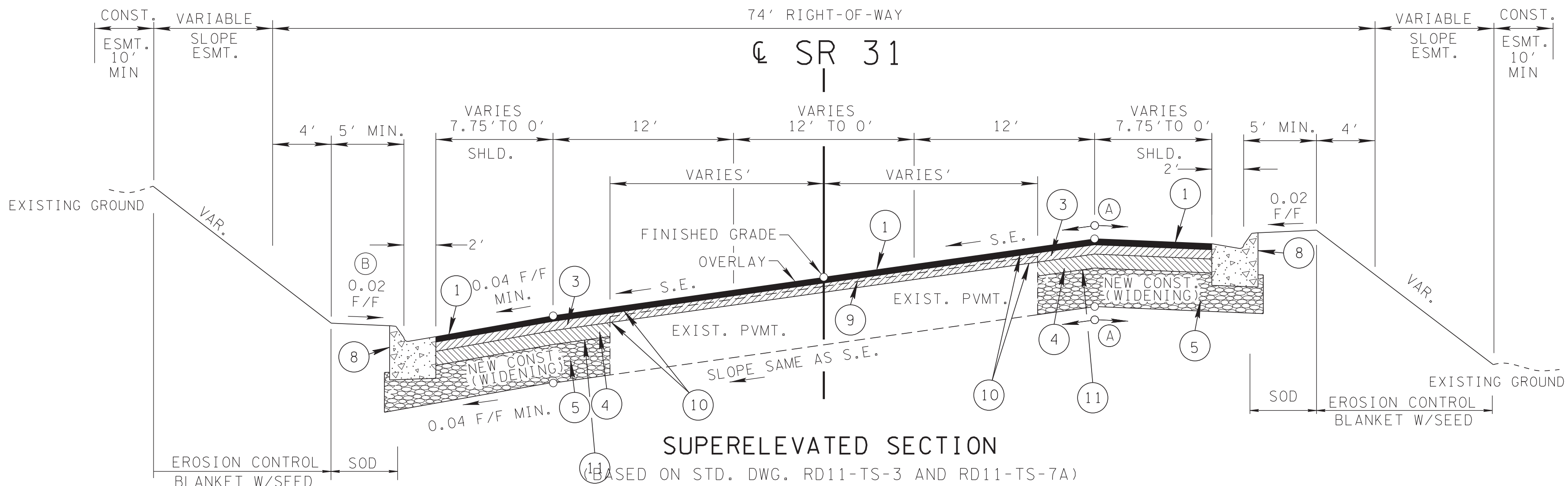
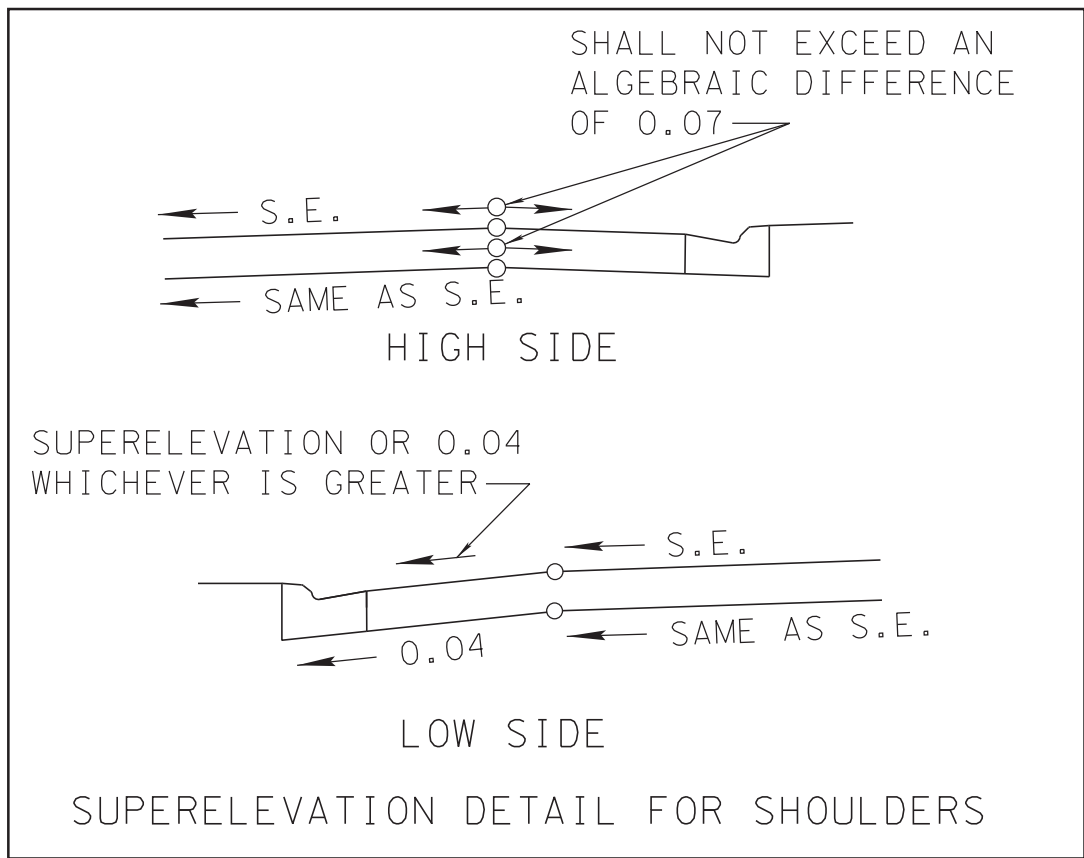
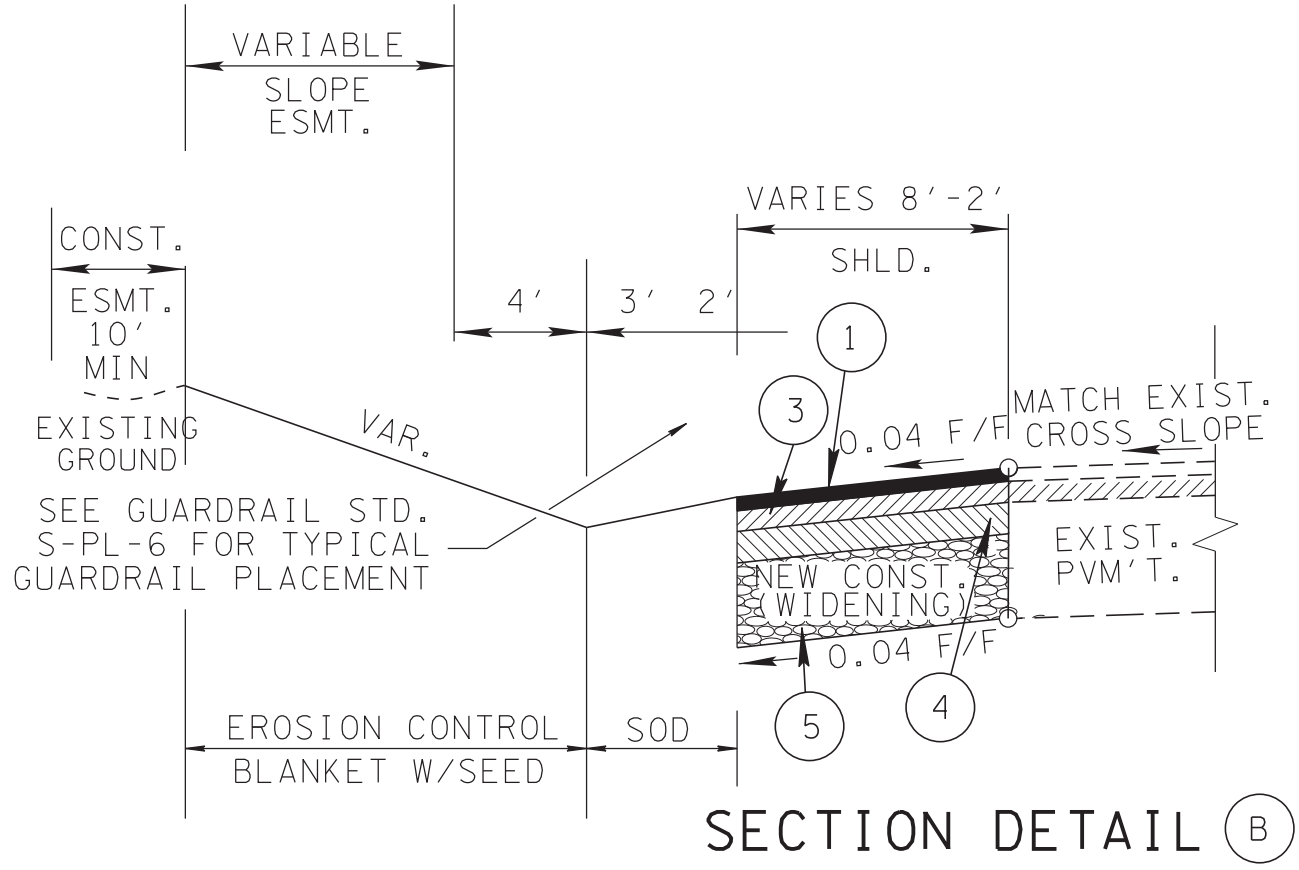
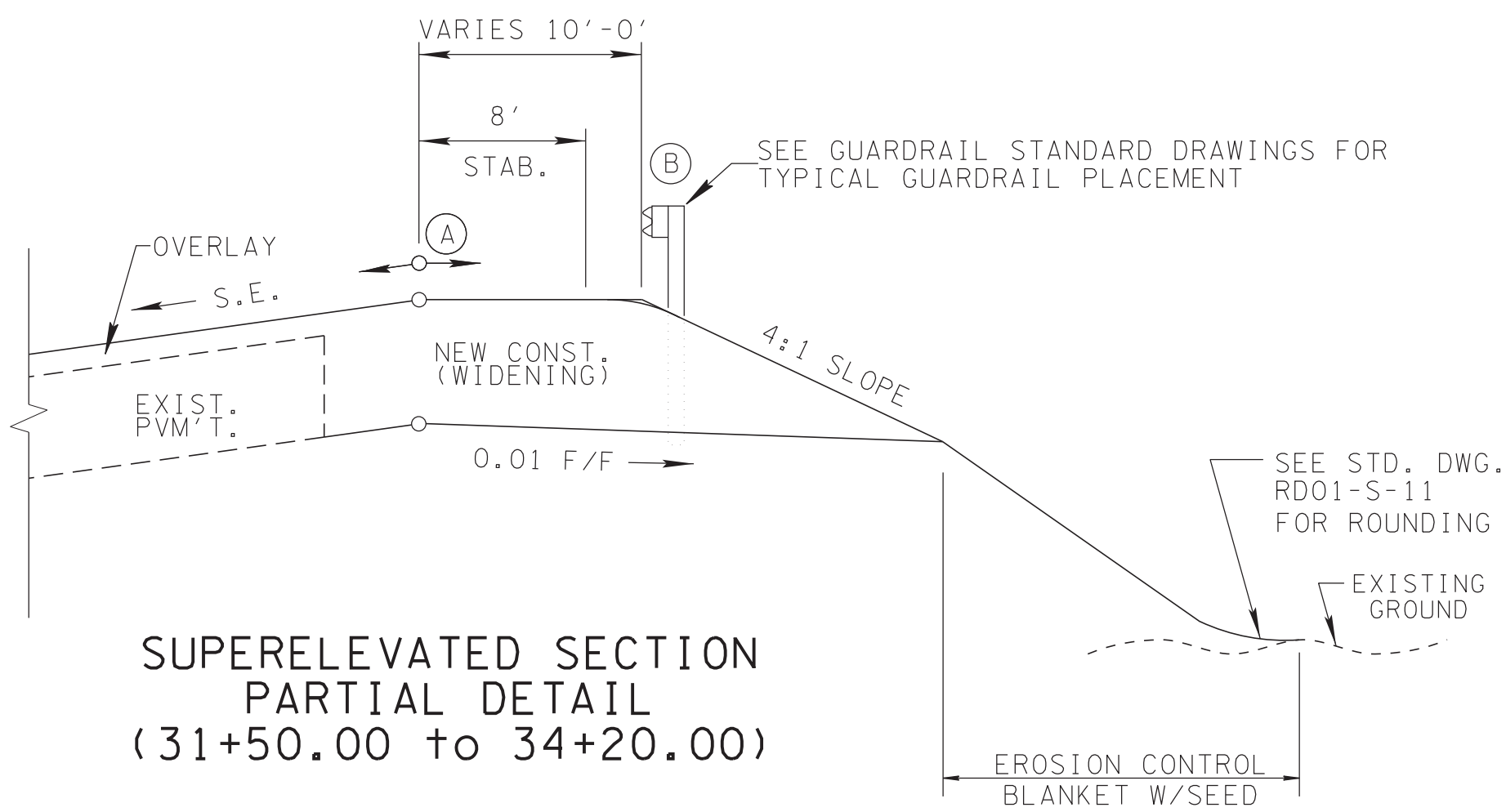
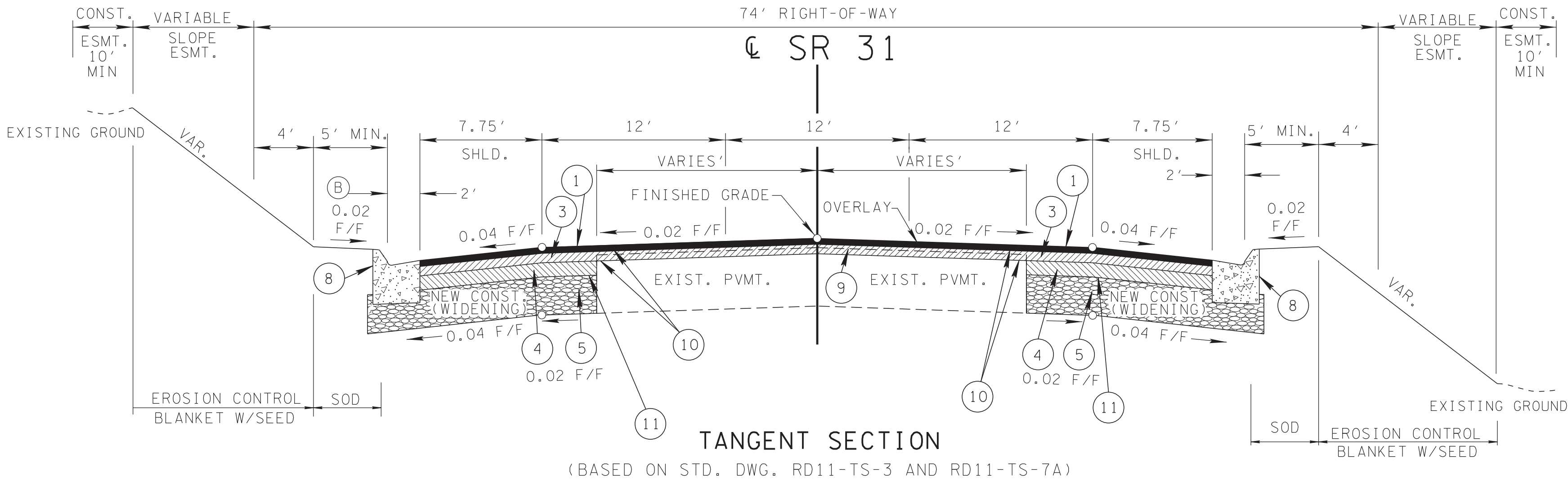
06/15/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTIONS AND
PAVEMENT SCHEDULE

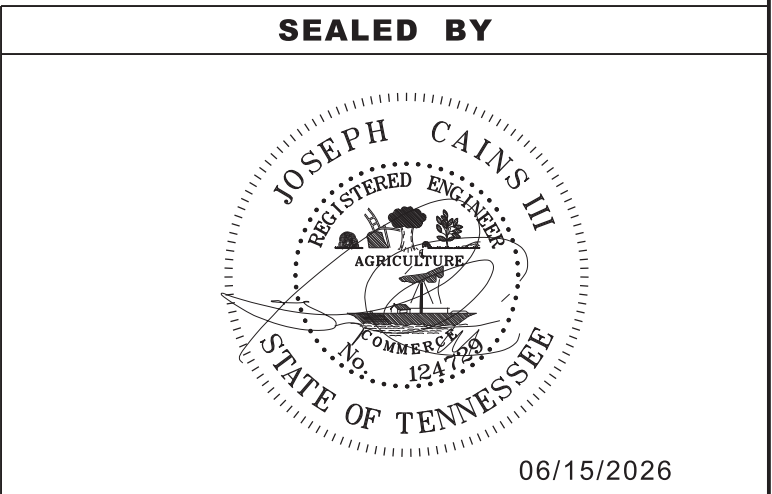
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	2B1
P-I-H	2025	STP/HPP-31(12)	2B1
PS & E	2026	STP/HPP-31(12)	2B1

REVISION NOTES:
06-15-2026 REVISED STD. DWG. REFERENCE, CURB AND GUTTER TYPE, SHOULDER WIDTH; ADDED PARTIAL DETAIL; ADDED NEW NOTE.



- (A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07 FOOT PER FOOT
- (B) SEE SHEET 2B5 FOR SHOULDER WIDENING DETAIL FOR GUARDRAIL WHEN REQUIRED

NOTE: SEE PROPOSED LAYOUT SHEETS 4B, 5B & 6B FOR PAVEMENT TRANSITION NOTES. TRANSITION FROM SLOPING CURB ON THE SR 31 MAINLINE TO VERTICAL CURB ON SIDE ROADS SHALL BE CONSTRUCTED OVER A 4-FOOT LENGTH BEGINNING AT THE P.C. OF THE TURNOUT RADIUS OF THE SIDE STREET (ALONG SR 31).

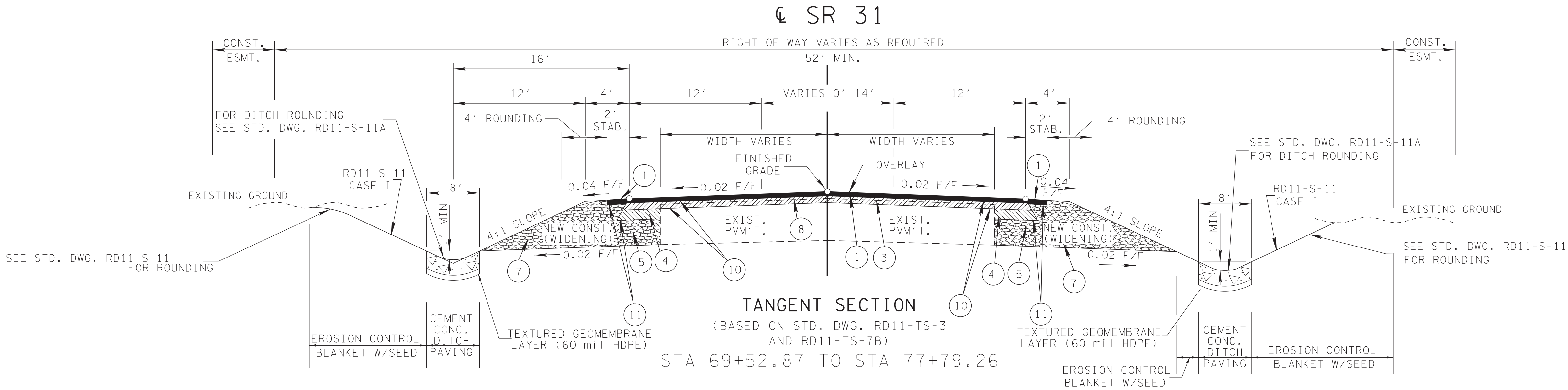


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

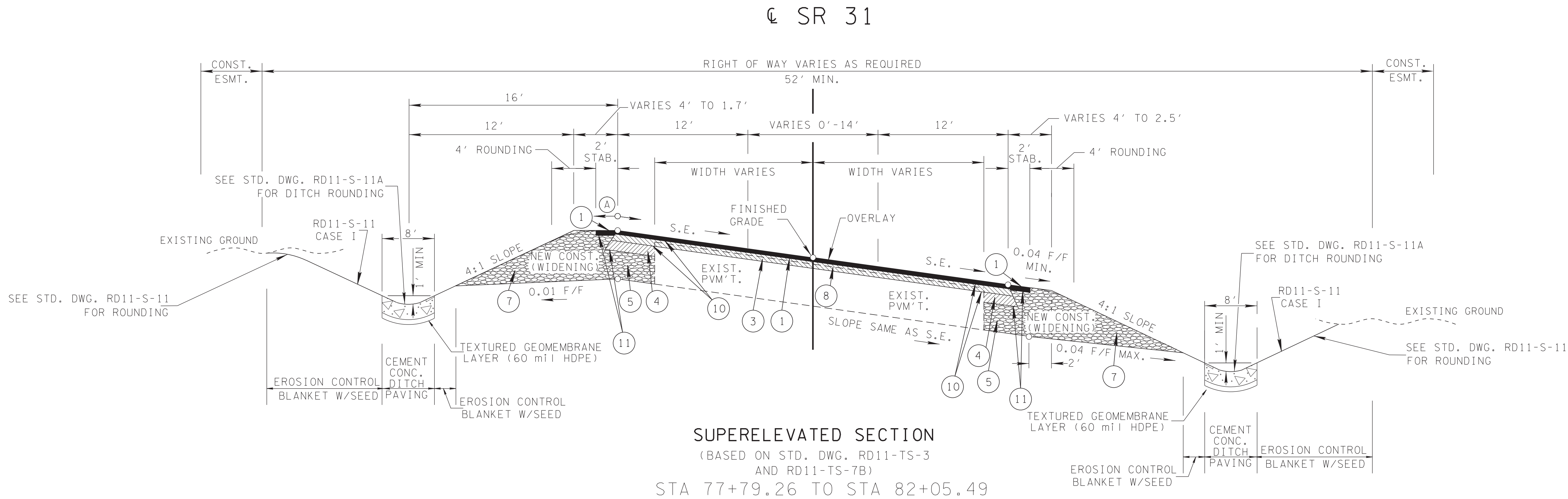
TYPICAL
SECTIONS

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	2B2
P-I-H	2025	STP/HPP-31(12)	2B2
PS & E	2026	STP/HPP-31(12)	2B2

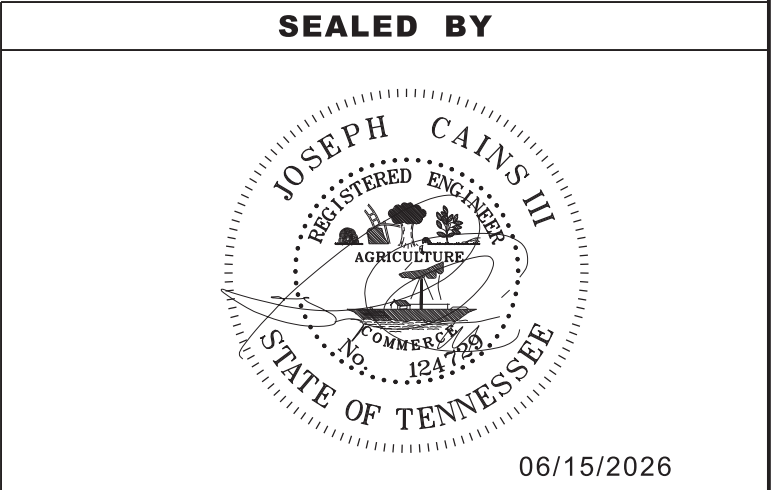
REVISION NOTES:
06-15-2026 REVISED STD. DWG. REFERENCE.



NOTE: SEE PROPOSED LAYOUT SHEETS 8B & 9B
FOR PAVEMENT TRANSITIONS.



- ① THE SLOPES OF THE SHOULDER AND ROADWAY
PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC
DIFFERENCE OF 0.07 FOOT PER FOOT
- ② SEE SHEET 2B5 FOR SHOULDER WIDENING DETAIL
FOR GUARDRAIL WHEN REQUIRED

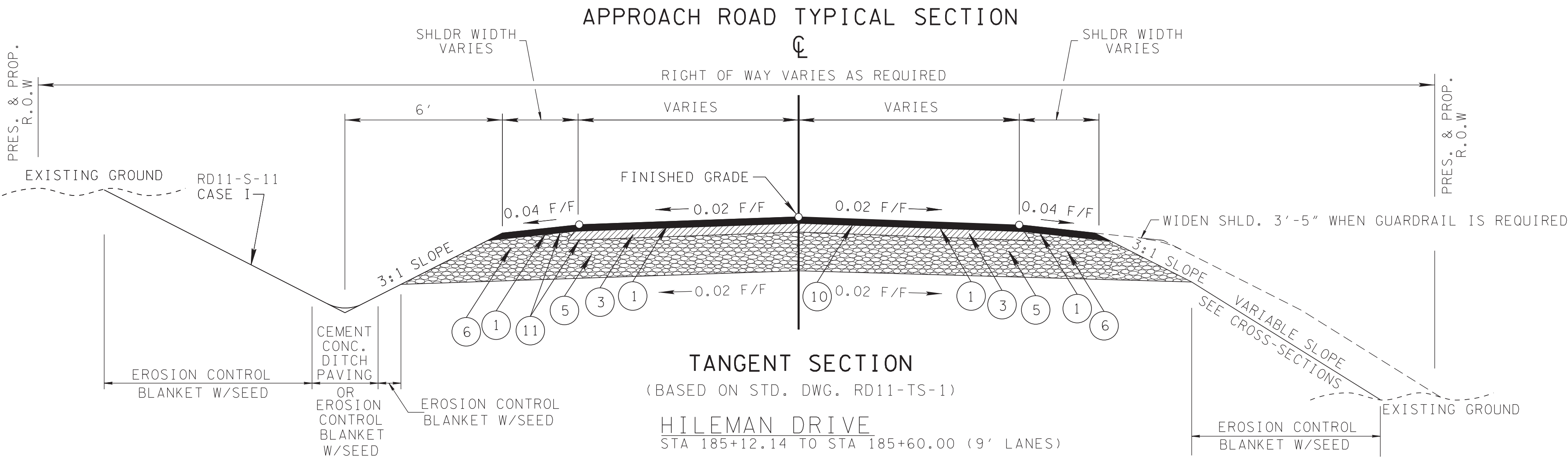


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTIONS

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	2B4
P-I-H	2025	STP/HPP-31(12)	2B4
PS & E	2026	STP/HPP-31(12)	2B4

REVISION NOTES:
06-15-2026 REVISED STD. DWG. REFERENCE, CURB AND GUTTER TYPE, SHOULDER HATCH; ADDED FORE SLOPE RATES.

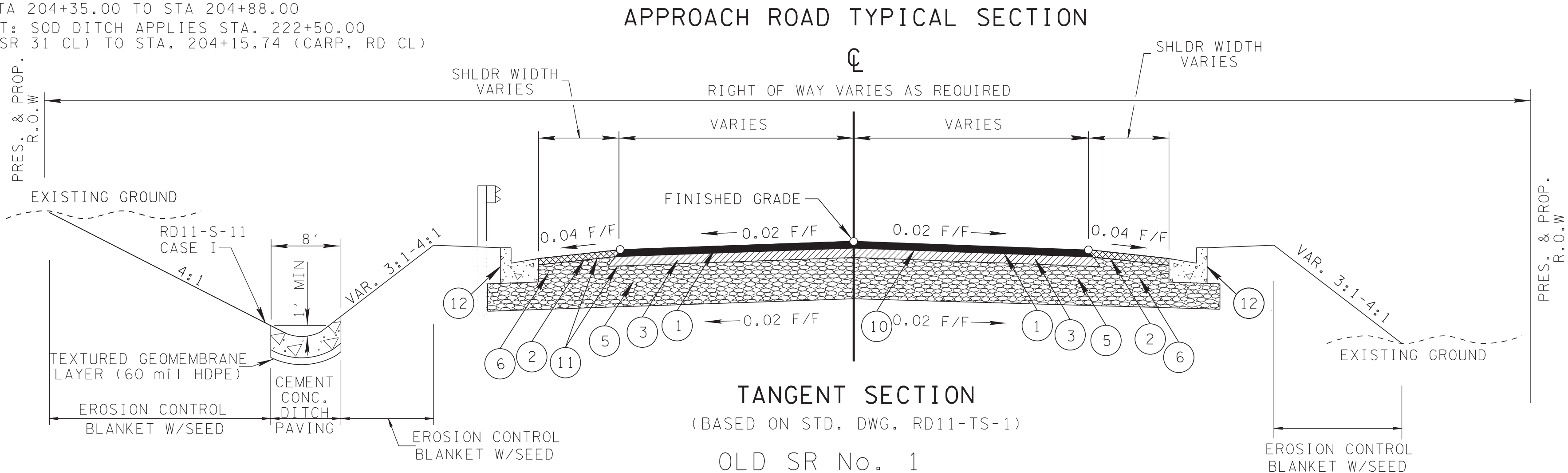


TANGENT SECTION
(BASED ON STD. DWG. RD11-TS-1)

HILEMAN DRIVE
STA 185+12.14 TO STA 185+60.00 (9' LANES)

HELTON LANE BASED ON STD. DWG. RD11-TS-1A ①
STA 188+25.00 TO STA 189+78.62
LT: CONCRETE DITCH APPLIES STA. 188+30.00 (HELTON LANE CL) TO STA. 80+00.00 (SR 31 CL)

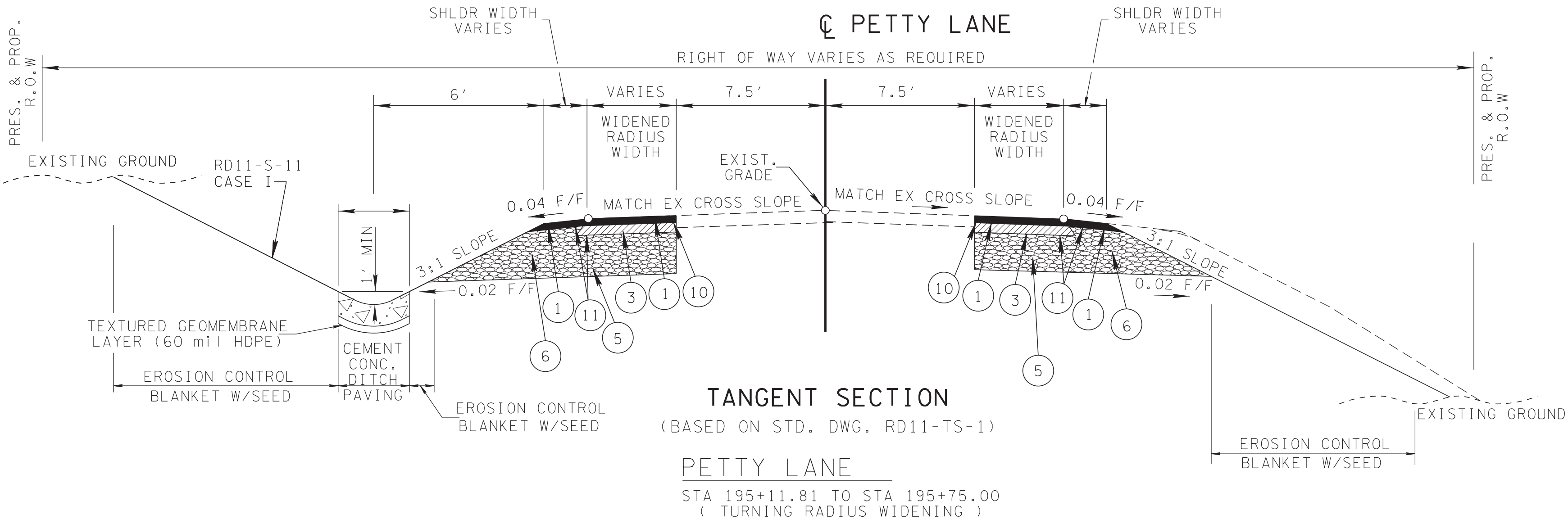
CARPENTER ROAD
STA 204+35.00 TO STA 204+88.00
LT: SOD DITCH APPLIES STA. 222+50.00 (SR 31 CL) TO STA. 204+15.74 (CARP. RD CL)



TANGENT SECTION
(BASED ON STD. DWG. RD11-TS-1)

OLD SR No. 1
STA 148+48.29 TO STA 151+51.24
STA 151+51.24 TO STA 152+37.81 (OVERLAY ONLY)
RT: CONCRETE DITCH APPLIES STA. 150+80.02 TO STA.150+92.79
LT: CONCRETE DITCH APPLIES STA. 151+18.25(OLD SR1 CL) TO STA. 22+17.50 (SR31 CL)

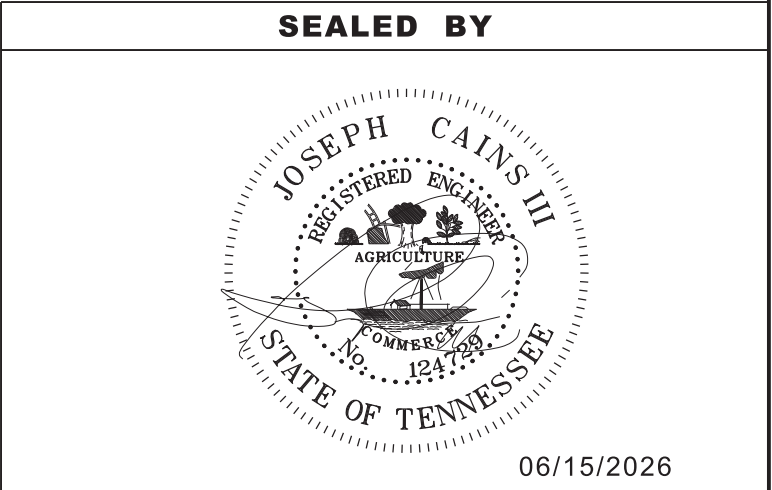
CHURCH LANE
STA 155+17.93 TO STA 155+75.00



TANGENT SECTION
(BASED ON STD. DWG. RD11-TS-1)

PETTY LANE
STA 195+11.81 TO STA 195+75.00
(TURNING RADIUS WIDENING)

- ① THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07 FOOT PER FOOT
- ② SEE SHEET 2B5 FOR SHOULDER WIDENING DETAIL FOR GUARDRAIL WHEN REQUIRED
- ③ FOR HELTON LANE USE S.R. 31 PAVEMENT DESIGN FULL DEPTH, TRAVEL LANES AND SHOULDERS
- NOTE: SEE PROPOSED LAYOUT SHEETS 5B, 7B, 8B, 9B & 10B FOR PAVEMENT TRANSITIONS.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTIONS

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.
- (3)

THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOODWAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) WITHOUT APPROVAL BY FEMA. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

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. 801-01, SEEDING (WITH MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.
- (4)

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.
- (2)

IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE "A" LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING TEMPORARY BARRICADES OR DRUMS WITH TYPE "A" LIGHTS TO DELINEATE GUARDRAIL END AND A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL END TERMINAL.
- (3)

GUARDRAIL IS TO BE COMPLETE IN PLACE BEFORE THE MAINLINE ROADWAY IS OPENED TO TRAFFIC.

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 PIPES CULVERTS AND STORM SEWERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE.
- (3)

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).
- (4)

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 WILL NOT RESULT IN AN INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT THAT WILL BE MADE DUE TO SUCH CHANGE.

- (5)

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.

FENCING

- (1)

LOCATION OF THE FENCE SHALL BE ONE FOOT INSIDE THE RIGHT-OF-WAY EXCEPT WERE SHOWN OTHERWISE ON THE PLANS.
- (2)

FENCES SHALL BE TURNED IN AT DRAINAGE STRUCTURES, STOCK PASSES AND BRIDGES WHERE DIRECTED BY THE ENGINEER SO AS TO ABUT WINGWALLS AND/OR ABUTMENTS.
- (3)

THE CONTRACTOR SHALL GIVE THE AFFECTED PROPERTY OWNERS A TWO-WEEK NOTICE PRIOR TO CUTTING FENCES.

MISCELLANEOUS

- (1)

ALL DETOUR, ACCESS, SERVICE AND FRONTAGE ROADS SHALL BE CONSTRUCTED WITH A MINIMUM OF ONE (1) COURSE OF BASE MATERIAL BEFORE TRAFFIC IS INTERRUPTED ON EXISTING ROADS.
- (2)

THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES AND POSTS WHERE AND AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR OTHER CONSTRUCTION ITEMS.
- (3)

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.

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKINGS ON INTERMEDIATE LAYERS

- (1)

TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01, PAINTED PAVEMENT MARKING (4" LINE), L.M.
- (2)

TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.20, PAINTED PAVEMENT MARKING (6" LINE), L.M.

FINAL PAVEMENT MARKING

- (1)

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 SHOULDER), 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.
- (2)

PERMANENT PAVEMENT LINE MARKINGS SHALL BE 4" 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. 716-12.01, ENHANCED FLATLINE THERMO PVMT MRKNG (4IN 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.

- (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.

- (4)

PERMANENT PAVEMENT LINE MARKINGS SHALL BE 8" 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. 716-12.06, ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE), L.F. 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

- (1)

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.

PAVING

- (1)

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

RESURFACING

- (1)

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.
- (2)

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.
- (3)

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.
- (4)

ON CURB AND GUTTER SECTIONS, PUBLIC ROAD INTERSECTIONS SHALL BE RESURFACED TO THE END OF RADIUS. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD SHALL BE PROVIDED.
- (5)

ON URBAN TYPICAL SECTIONS, (CURB AND GUTTER), RESIDENTIAL DRIVEWAYS AND BUSINESS ENTRANCES SHALL HAVE A MINIMUM WIDTH OF MATERIAL NOT LESS THAN ONE FOOT USED IN THE TRANSITION TO FEATHER THE PAVEMENT EDGE.
- (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.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	2C
PS & E	2026	STP/HPP-31(12)	2C

REVISION NOTES:

06-15-2026 REVISED GENERAL NOTES FOR GUARDRAIL, DRAINAGE, FENCING, FINAL PAVEMENT MARKING, AND PAVING.

SEALED BY
 JOSEPH CAINS II REGISTERED ENGINEER 124700 OWNER STATE OF TENNESSEE 06/15/2026

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
GENERAL NOTES

6/23/2026 10:33:37 AM
V:\1785\active\178560004\Roadway\Base\002C1.sht

GENERAL NOTES (CONT'D)

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 LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUT-OUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND. THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL EXTRUDED PANEL SIGNS SHALL BE DIRECT APPLIED OR DEMOUNTABLE. ALL EXTRUDED PANEL SIGNS SHALL BE ATTACHED TO THE SIGN FACE, AS OUTLINED IN THE STANDARD SPECIFICATIONS.

ALL SHIELDS ON GUIDE SIGNS SHALL BE DIRECT APPLIED OR DEMOUNTABLE AND ATTACHED TO THE SIGN FACE AS OUTLINED IN THE STANDARD SPECIFICATIONS.
- (2)

FOR ALL PERMANENT PANEL SIGNS WITH A SILVER-WHITE, YELLOW, RED, GREEN, BROWN, OR BLUE BACKGROUND, PROVIDE REFLECTIVE SHEETING THAT MEETS OR EXCEEDS AASHTO M268, TYPE D.
- (3)

THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE LENGTHS WERE COMPUTED FROM THE CROSS-SECTIONS CONTAINED IN THE CONSTRUCTION PLANS. IN THE EVENT THE SUPPORT LENGTHS ARE 2 FEET SHORTER OR LONGER THAN SHOWN ON THE PLANS, THE ENGINEER SHALL VERIFY THE SUPPORT TYPE WITH THE TRAFFIC DESIGN DIVISION, SIGNING SECTION, TELEPHONE NO. (615)-741-0802. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ORDERING MATERIAL.
- (4)

THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.
- (5)

AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.
- (6)

THE CONTRACTOR SHALL BE REQUIRED TO FURNISH LAYOUT DRAWINGS OF ALL EXTRUDED PANEL SIGNS WITH SPACING OF ALL LETTERS, NUMERALS, SHIELDS, AND ARROWS. ONE PDF SET OF THE LAYOUT DRAWINGS SHALL BE SENT TO THE TRAFFIC DESIGN DIVISION, SIGNING SECTION (TDOT.TrafficDesign.SignsandMarking@tn.gov) FOR REVIEW. ONE PDF SET OF THE LAYOUT DRAWINGS SHALL BE SENT TO THE REGIONAL SIGN DESIGNER FOR REVIEW.
- (7)

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.
- (8)

THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.
- (9)

THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUT-OUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND, OR BROWN BACKGROUND
- (10)

THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS.
- (11)

AFTER THE PERMANENT SIGN LOCATIONS HAVE BEEN STAKED, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE CONSTRUCTION

FIELD OFFICE. PAYMENT FOR LOCATION AND STAKING SHOULD BE INCLUDED IN THE BID PRICE FOR OTHER ITEMS OF CONSTRUCTION. ANY

RELOCATION REQUIRED, DUE TO THE SIGN NOT BEING INSTALLED IN THE CORRECT LOCATION, WILL BE DONE AT THE CONTRACTOR'S EXPENSE.

SIGNALIZATION

- (1)

EQUIPMENT AND INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS, SECTION 730.
- (2)

SALVAGEABLE EQUIPMENT SHALL BECOME THE PROPERTY OF THE COUNTY AND SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE ENGINEER FOR PICKUP BY THE COUNTY.

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 GREATER AND 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 THE 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)

ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED, AND FLEXIBLE DRUMS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.
- (9)

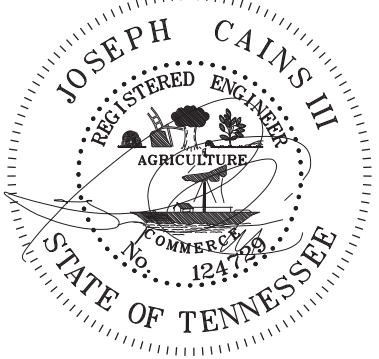
THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING CONSTRUCTION SIGNS. THE COST OF THIS WORK SHALL BE INCLUDED IN ITEM NO. 712-06, SIGNS (CONSTRUCTION), S.F.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	2C1
PS & E	2026	STP/HPP-31(12)	2C1

REVISION NOTES:

06-15-2026 ADDED GRADED SOLID ROCK
GENERAL NOTES; REVISED SIGNING, AND
SIGNALIZATION GENERAL NOTES.

SEALED BY



06/15/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL
NOTES

6/15/2026 7:30:15 PM
V:\1785\active\178560004\Roadway\Base\002D.sht

SPECIAL NOTES

GRADING

- (1)

THE GRADING TABULATIONS AND RESULTING EARTHWORK ASSOCIATED BID QUANTITIES WERE PREPARED UTILIZING AVAILABLE GEOTECHNICAL INFORMATION AND/OR REPORTS PREPARED FOR THIS PROJECT. THIS INFORMATION IS PROVIDED FOR GENERAL INFORMATION AND ESTIMATION GUIDANCE ONLY.
- (2)

BORING DEPICTIONS SHOWN ON THE FOUNDATION DATA SHEETS, SOILS SHEETS, PLANS, AND CROSS-SECTIONS INDICATE SOIL AND ROCK CONDITIONS AT THE SPECIFIC BORING LOCATIONS. ANY SOIL PROFILE AND/OR ROCK LINE IS INTERPRETIVE BASED ON THE JUDGMENT OF THE GEOTECHNICAL ENGINEER/GEOLOGIST. THE TRANSITION BETWEEN BORINGS AND LAYERS MAY VARY SIGNIFICANTLY DEPENDING ON THE GEOLOGIC FORMATIONS ENCOUNTERED.
- (3)

TO ASSIST IN BID PREPARATION FOR EARTHWORK AND FOUNDATION CONSTRUCTION, DETAIL ROCK AND SOIL DESCRIPTION AND ON SOME PROJECTS, ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION AT THE MATERIALS AND TESTS HEADQUARTERS AT 6601 CENTENNIAL BOULEVARD, NASHVILLE, TN OR AT THE TDOT REGION 1 BUILDING IN KNOXVILLE, TN.
- (4)

THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE, SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE EQUIPMENT AND MEANS NECESSARY TO CONDUCT THE EXCAVATION ACTIVITIES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
- (5)

EARTHWORK IS PAID FOR UNDER ITEM NO. 203-01, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED). NO ADDITIONAL PAYMENT WILL BE MADE FOR EARTHWORK QUANTITIES BASED SOLELY ON A CLAIM THAT THE QUANTITIES SHOWN IN THE GRADING TABULATION OR ELSEWHERE IN THE PLANS ARE INACCURATE WITH RESPECT TO THE TYPE OF MATERIALS ENCOUNTERED DURING CONSTRUCTION EXCEPT AS PROVIDED FOR BY SECTION 104.02 IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS AMENDED IN SUPPLEMENTAL SPECIFICATIONS.
- (6)

THE CONTRACTOR SHALL CONSTRUCT AND COMPACT ALL EMBANKMENTS AND BRIDGE APPROACHES WITHIN THE PROJECT LIMITS AS PER 205.04.C IN THE STANDARD SPECIFICATIONS FOR DEGRADABLE ROCK. STOCKPILING OF NON-DEGRADABLE MATERIAL MAY BE REQUIRED FOR USE IN CAPPING EMBANKMENT. NO SEPARATE PAYMENT WILL BE MADE FOR STOCKPILING OR ADDITIONAL HANDLING OF NON-DEGRADABLE MATERIAL.
- (7)

ACID PRODUCING MATERIAL (APM) SHALL BE TRANSPORTED OFF-SITE FOR DISPOSAL AT AN APPROPRIATE WASTE FACILITY. ONSITE ENCAPSULATION OR BLENDING SHALL NOT BE ALLOWED.
- (8)

AT ALL SIDE DRAIN LOCATIONS, CONTRACTOR SHALL HARMONIZE UPSTREAM ENDWALL INVERT WITH EXISTING SWALE USING A 1:6 SLOPE.
- (9)

ALL EXISTING STRUCTURES TO BE REMOVED UNLESS NOTED OTHERWISE IN THE PLANS. SEE SHEET 2F3 FOR TABLE SHOWING DRAINAGE PIPES AND OTHER RELEVANT DRAINAGE STRUCTURES TO BE REMOVED.
- (10)

CONTRACTOR SHALL REMOVED EXISTING FENCING WITHIN THE LIMITS OF THE PROPOSED RIGHT OF WAY.

DEMOLITION

DEMOLITION OF BUILDINGS

- (1)

IF THE ASBESTOS SURVEY AND ABATEMENT IS NOT PART OF THE CONTRACT, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE TDOT HAZARDOUS MATERIALS OFFICE TO VERIFY THAT AN ASBESTOS SURVEY HAS BEEN COMPLETED FOR ANY BUILDING TO BE REMOVED. IN THE CASE THAT NO SURVEY HAS BEEN COMPLETED, THE CONTRACTOR SHALL COORDINATE WITH THE HAZARDOUS MATERIAL OFFICE IN SCHEDULING A SURVEY.
- (2)

ASBESTOS-CONTAINING MATERIALS (ACM) ABATEMENT SHALL BE COMPLETED PRIOR TO ANY DEMOLITION ACTIVITIES FOR BUILDINGS INCLUDED IN THE PROJECT. ABATEMENT SHOULD BE ACCOMPLISHED PER SP202ACM SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS-CONTAINING MATERIALS. STATE OF TENNESSEE ASBESTOS ACCREDITATION REQUIREMENTS (TCA 1200-01-20) MANDATE THAT ACM ABATEMENT WORK BE PERFORMED BY AN ACCREDITED FIRM (CONTRACTOR) USING ACCREDITED ABATEMENT WORKERS AND SUPERVISORS.

- (3)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE TO THE TDEC, DIVISION OF AIR POLLUTION CONTROL TEN (10) DAYS IN ADVANCE OF ANY ACM ABATEMENT, DEMOLITION, OR MAJOR REPAIR INVOLVING THE REMOVAL/REPLACEMENT OF A STRUCTURAL COMPONENT.

DEMOLITION, REPAIR, OR REHABILITATION OF BRIDGES

- (1)

THE CONTRACTOR SHALL VERIFY THAT AN ASBESTOS SURVEY HAS BEEN COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATIONS ACTIVITIES (NOT INCLUDING ASPHALT MILLING OR OVERLAY).
- (2)

ASBESTOS-CONTAINING MATERIALS (ACM) ABATEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATION OF BRIDGE(S). ABATEMENT SHOULD BE ACCOMPLISHED PER SP202ACM SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS-CONTAINING MATERIALS. STATE OF TENNESSEE ASBESTOS ACCREDITATION REQUIREMENTS (TCA 1200-01-20) MANDATE THAT ACM ABATEMENT WORK BE PERFORMED BY AN ACCREDITED FIRM (CONTRACTOR) USING ACCREDITED ABATEMENT WORKERS AND SUPERVISORS.
- (3)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE TO THE TDEC, DIVISION OF AIR POLLUTION CONTROL TEN (10) DAYS IN ADVANCE OF ANY ACM ABATEMENT, DEMOLITION, OR MAJOR REPAIR INVOLVING THE REMOVAL/REPLACEMENT OF A STRUCTURAL COMPONENT.

PAVEMENT

RESURFACING

- (1)

THE CONTRACTOR WILL BE REQUIRED TO PERFORM THE FOLLOWING WORK:

A.

BROOMING & DEGRASSING SHALL INCLUDE NOTCHING THE GRAVEL SHOULDER PRIOR TO MILLING. THE NOTCH SHALL BE 1.5 IN DEEP AND 2 FT WIDE, OR AS DIRECTED BY THE TDOT PROJECT ENGINEER.

B.

ALL MATERIAL FROM NOTCHING AND BROOMING SHOULDERS SHALL BE PICKED UP, REMOVED AND PROPERLY DISPOSED AS DIRECTED BY THE TDOT PROJECT ENGINEER.

C.

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

DRAINAGE

- (1)

DURING CONSTRUCTION OF DRAINAGE STRUCTURES EXCEPT THE 60" PROPOSED CULVERT IN SECTION 3, 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.

SIGNING

- (1)

ALL SIGNS WHICH INTERFERE WITH CONSTRUCTION WILL BE RELOCATED OUTSIDE LIMITS OF CONSTRUCTION BY THE CONTRACTOR. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR WILL RELOCATE THE SIGNS TO THE PROPOSED LOCATION. THE CONTRACTOR SHALL CHECK WITH THE REGIONAL TRAFFIC ENGINEER FOR STATE MAINTAINED SIGNAGE AND WITH HAWKINS COUNTY HIGHWAY SUPERINTENDENT FOR COUNTY MAINTAINED SIGNS PRIOR TO MOVING ANY PERMANENT SIGNS.

RIGHT-OF-WAY

- (1)

RIGHT-OF-WAY MARKERS ARE TO BE INSTALLED FLUSH WITH THE FINISHED GRADED OR PRESENT PAVED SURFACE IN AREAS WHERE MOTORIZED VEHICLES ARE ANTICIPATED.

HIGH VISIBILITY FENCE

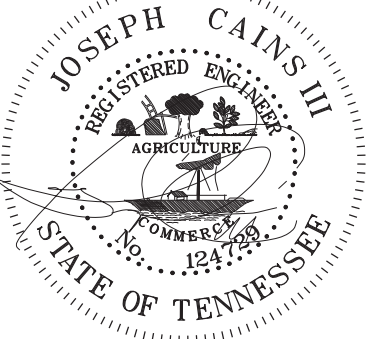
- (1)

HIGH VISIBILITY FENCE THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACE AT THE CONTRACTORS EXPENSE ON THE SAME DAY THE DAMAGE OCCURS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	2D
PS & E	2026	STP/HPP-31(12)	2D

REVISION NOTES:
06-15-2026 ADDED DEMOLITION HEADING;
REMOVED HISTORICAL SPECIAL NOTE; REVISED
HIGH VISIBILITY FENCE SPECIAL NOTE.

SEALED BY



06/15/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL
NOTES

6/15/2026 7:30:52 PM
V:\1785\active\178560004\Roadway\Base\002E.sht

ENVIRONMENTAL NOTES

ENVIRONMENTAL

- (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.
- (20)

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.

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 PRECONSTRUCTION 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.
- (4)

ALL PROJECTS WITH LEGALLY PROTECTED SPECIES OR CRITICAL HABITAT IDENTIFIED SHALL HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER WATERS OF THE STATE/U.S.

PROJECT COMMITMENTS

- (5)

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

SCOPE OF WORK

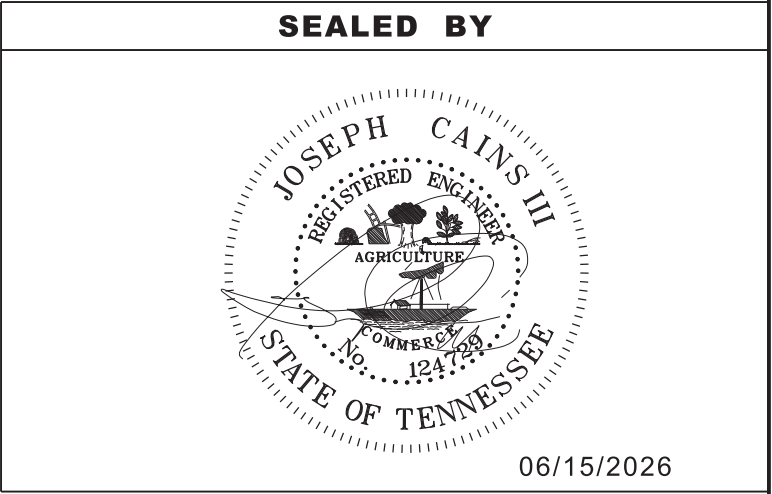
- (6)

ROADWAY WIDENING, INTERSECTION AND DRAINAGE IMPROVEMENTS, AND BRIDGE REPLACEMENT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	2E
PS & E	2026	STP/HPP-31(12)	2E

REVISION NOTES:

06-15-2026 ADDED ENVIRONMENTAL HEADING;
REVISED NOTE NUMBERING; ADDED SUPPORT
ACTIVITIES SECTION NOTE.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL
NOTES

6/23/2026 11:40:55 AM
V:\1785\active\178560004\Roadway\Base\002F.sht

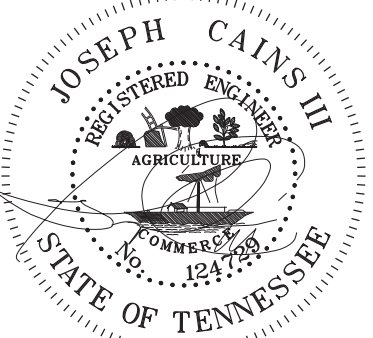
CATCH BASINS AND MANHOLES															
SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/ TOP ELEV.	INVERT ELEV.	DEPTH (FT.)	INSIDE DIM.	STANDARD DRAWING NO.	PAY ITEMS					
										TYPE 3 611-01.02 4'-8'	NO. 3 611-01.03 8'-12'	TYPE 25 611-25.01 0'-4'	TYPE 25 611-25.02 4'-8'	TYPE 38 611-38.01 0'-4'	TYPE 38 611-38.02 4'-8'
4B	RT - S.R. 31	17+08.13	43.98	CB2	1097.50	1093.00	4.50	4' X 4'	D-CB-38SB						1
4B	LT - S.R. 31	17+17.82	43.01	CB1	1095.17	1090.81	4.36	4' X 4'	D-CB-38SB						1
4B	RT - S.R. 31	17+35.14	27.02	MH201	1098.90	1089.92	8.98	60"X 60"	D-MH-2		1				
5B	RT - S.R. 31	19+50.00	26.32	CB202	1090.72	1086.22	4.50	48" X 36"	D-CB-25P				1		
5B	RT - S.R. 31	20+32.27	33.71	CB9	1089.93	1085.43	4.50	48" X 36"	D-CB-25P				1		
5B	RT - S.R. 31	20+45.00	21.24	JB6	1089.36	1085.06	4.30	EXIST.							
5B	LT - S.R. 31	20+45.59	30.44	CB5	1090.05	1085.46	4.59	48" X 36"	D-CB-25P				1		
5B	LT - S.R. 31	20+01.22	109.06	CB3	1090.40	1086.22	4.18	4' X 4'	D-CB-38SB						1
5B	LT - S.R. 31	20+45.17	21.13	JB203	1089.25	1085.30	3.95	EXIST.							
5B	RT - S.R. 31	20+56.77	47.56	CB8	1089.75	1085.01	4.74	48" X 36"	D-CB-25P				1		
5B	RT - S.R. 31	20+79.46	23.10	MH7	1090.34	1084.70	5.64	EXIST.							
5B	LT - S.R. 31	20+91.00	53.00	CB4	1089.60	1085.78	3.82	48" X 36"	D-CB-25P			1			
5B	RT - S.R. 31	21+27.00	24.23	MH13	1090.39	1084.18	6.21	60"X 60"	D-MH-2	1					
5B	RT - S.R. 31	21+28.00	41.64	CB14	1089.49	1085.02	4.47	48" X 36"	D-CB-25P				1		
5B	LT - S.R. 31	21+55.00	42.32	CB10	1089.85	1085.53	4.32	48" X 36"	D-CB-25P				1		
5B	LT - S.R. 31	21+81.34	32.40	CB11	1090.08	1083.78	6.30	48" X 36"	D-CB-25P				1		
5B	RT - S.R. 31	21+81.34	25.16	MH12	1090.38	1085.20	5.18	60"X 60"	D-MH-2	1					
5B	RT - S.R. 31	22+75.43	27.14	CB15	1090.19	1083.08	7.11	7' X7'	D-CB-25SD				1		
5B	RT - S.R. 31	24+16.93	27.17	CB21	1090.21	1083.23	6.98	7' X 7'	D-CB-25SD				1		
5B	LT - S.R. 31	24+40.08	26.00	CB22	1090.48	1086.38	4.10	7' X 7'	D-CB-25SD				1		
5B	LT - S.R. 31	24+50.00	26.00	CB22A	1090.27	1086.65	3.62	7' X 7'	D-CB-25SD			1			
5B	RT - S.R. 31	25+10.00	27.04	CB25	1090.27	1083.76	6.51	48" X 36"	D-CB-25P				1		
5B	LT - S.R. 31	25+15.39	27.04	CB24	1090.28	1085.86	4.42	48" X 36"	D-CB-25P				1		
5B	LT - S.R. 31	25+25.00	27.04	CB24A	1090.28	1086.63	3.65	48" X 36"	D-CB-25P			1			
5B	LT - S.R. 31	27+25.00	27.04	CB26	1092.23	1088.23	4.00	48" X 36"	D-CB-25P			1			
5B	RT - S.R. 31	27+25.00	27.04	CB27	1092.23	1087.09	5.14	48" X 36"	D-CB-25P				1		
5B	LT - S.R. 31	30+75.00	27.04	CB28	1100.91	1096.79	4.12	48" X 36"	D-CB-25P				1		
5B	RT - S.R. 31	30+75.00	27.04	CB29	1100.91	1095.77	5.14	48" X 36"	D-CB-25P				1		
6B	RT - S.R. 31	34+00.00	24.14	CB30	1109.22	1105.22	4.00	4' X 4'	D-CB-38SB					1	
6B	LT - S.R. 31	34+00.00	29.00	CB31	1107.50	1103.03	4.47	4' X 4'	D-CB-38SB					1	
6B	LT - S.R. 31	36+30.00	25.50	CB32	1114.55	1110.55	4.00	4' X 4'	D-CB-38SB					1	
TOTALS										2	1	4	15	3	3

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	2E
P-I-H	2025	STP/HPP-31(12)	2F
PS & E	2026	STP/HPP-31(12)	2F

REVISION NOTES:

06-15-2026 REVISED AND ADDED DRAINAGE STRUCTURE INFO AND QUANTITIES FOR CATCH BASIN AND MANHOLES TABLE; REMOVED SD ENDWALL TABLE.

SEALED BY



06/15/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED
QUANTITIES

SHEET 1 OF 5

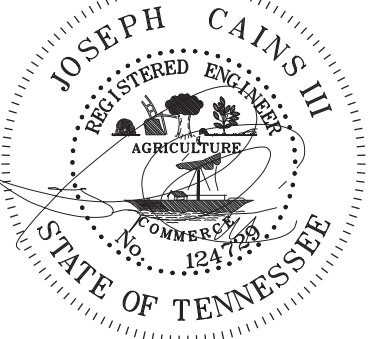
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	2E1
P-I-H	2025	STP/HPP-31(12)	2F1
PS & E	2026	STP/HPP-31(12)	2F1

REVISION NOTES:
06-15-2026 ADDED AND REVISED SD
ENDWALL TABLE; REVISED CROSS DRAIN
ENDWALL; REMOVED CROSS DRAIN
TABULATION AND ROW MARKER TABLE.

SIDE DRAIN ENDWALLS								
LOCATION \ SHEET NO.	STATION	OFFSET (FT.)	SKEW	CODE	TYPE	STANDARD DRAWING NO.	SAFETY ENDWALLS (ITEM NO. 611-07.30 THRU 611-07.36 SERIES)	
							18" IN. 6:1 07.31 (EACH)	30" IN. 6:1 07.33 (EACH)
SR 31/4B	11+91.63	41.12 LT	90°	EW1A	SAFETY	D-SEW-1A	1	
SR 31/4B	12+31.48	41.41 LT	90°	EW1B	SAFETY	D-SEW-1A	1	
OLD SR 1/5B	152+11.25	21.94 LT	90°	EW2A	SAFETY	D-SEW-1A	1	
OLD SR 1/5B	151+79.18	22.88 LT	90°	EW2B	SAFETY	D-SEW-1A	1	
SR 31/8B	70+09.24	37.00 LT	90°	EW117C	SAFETY	D-SEW-1A	1	
SR 31/8B	69+77.73	37.00 LT	90°	EW117D	SAFETY	D-SEW-1A	1	
SR 31/8B	72+10.28	32.85 RT	90°	EW117A	SAFETY	D-SEW-1A	1	
SR 31/8B	72+42.27	33.49 RT	90°	EW117B	SAFETY	D-SEW-1A	1	
SR 31/9B	77+67.39	38.95 RT	90°	EW112B	SAFETY	D-SEW-1A	1	
SR 31/9B	78+17.22	34.08 RT	90°	EW112A	SAFETY	D-SEW-1A	1	
SR 31/39G, 40G, &41G	240+ 50.00	22.75' RT	90°	EW (TEMP.)	SAFETY	D-SEW-1A		1
TOTALS							10	1

CROSS DRAIN ENDWALLS														
LOCATION	STATION	OFFSET (FT.)	SKEW	DRAINAGE CODE	TYPE	STANDARD DRAWING NO.	RIP-RAP CLASS "C" 709-05.09 (TON)	PROTECTED ENDWALLS		SAFETY ENDWALLS (ITEM NO. 611-07.54 THRU 611-07.71 SERIES)				
								CLASS "A" CONCRETE 611-07.01 (C.Y.)	STEEL BAR REINFORCING 611-07.02 (LB.)	18 IN. 3:1 07.54 (EACH)	18 IN. 4:1 07.55 (EACH)	18 IN. 6:1 07.56 (EACH)	24 IN. 3:1 07.57 (EACH)	36 IN. 3:1 07.63 (EACH)
SR 31/5B	22+81.97	45.23	90°	EW16	A	D-PEW-1 & D-PEW-2		2.84	109					1
SR 31/5B	24+05.35	48.84	90°	EW20	U	D-PE-24A							1	
CHURCH LANE/5B	155+50.00	22.00 LT	90°	EW19	U	D-PE-18A					1			
CHURCH LANE/5B	155+50.00	22.00 RT	90°	EW18	U	D-PE-18A				1				
PETTY LANE/7B	195+19.97	27.50 LT	90°	EW110	U	D-PE-18A					1			
PETTY LANE/7B	195+19.97	39.18' RT	90°	EW109	U	D-PE-18A					1			
HILEMAN DR/8B	185+26.77	19.00 RT	90°	EW 117	U	D-PE-18A					1			
HILEMAN DR/8B	185+28.73	17.00 LT	90°	EW118	U	D-PE-18A					1			
SR 31/9B	77+43.61	46.41 LT	90°	EW 111	U	D-PE-18A	28				1			
SR 31/9B	77+53.59	29.75 LT	90°	EW112	U	D-PE-18A					1			
SR 31/10B	220+50.00	40.00 LT	90°	EW113	U	D-PE-18A	28			1				
SR 31/10B	220+50.00	33.00 RT	90°	EW114	U	D-PE-18A						1		1
SR 31/11B	236+56.23	28.18 LT	90°	EW115	A	D-PEW-1 & D-PEW-2	165	8.54	434					
SR 31/11B	236+56.23	28.09 RT	90°	EW116	A	D-PEW-1 & D-PEW-2	75	8.54	434					
TOTALS							296	19.92	977	2	7	1	1	2

SEALED BY



06/15/2026

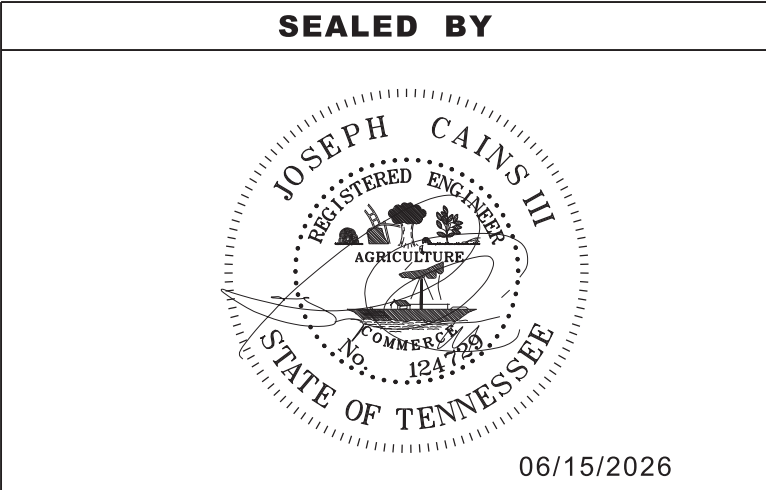
6/15/2026 7:32:35 PM
V:\1785\active\178560004\Roadway\Base\002F2.sht

CROSS DRAIN TABULATION											
STATION	SKEW	DRAINAGE CODE	RCP CLASS III OR CMP 14 GA OR PVC OR SRTRP OR HDPE OR PP FILL HEIGHT ≤ 16 FT.				END TREATMENT				REMARKS
			607-03.02	607-05.02	607.07.02	607-11.03	INLET		OUTLET		
			18"	24"	36"	60"	TYPE	DRAWING NO.	TYPE	DRAWING NO.	
SECTION 1											
155+49.25	90°	EW18 / EW19	44				U	D-PE-18A	U	D-PE-18A	CHURCH LANE
195+19.97	90°	EW109 / EW110	68				U	D-PE-18A	U	D-PE-18A	PETTY LANE
22+81.97	90°	EW16		15			A				S.R. 31
24+05.35	90°	EW20			21		U				S.R. 31
SECTION 2											
185+28.24	90°	EW117 / EW118	36				U	D-PE-18A	U	D-PE-18A	HILEMAN DRIVE
77+50.00	82°39'11" LT	EW111 / EW112	76				U	D-PE-18A	U	D-PE-18A	S.R. 31
SECTION 3											
220+50.00	90°	EW113 / EW114	73				U	D-PE-18A	U	D-PE-18A	S.R. 31
236+56.23	90°	EW115 / EW116				56	A	D-PEW-1 & D-PEW-2	A	D-PEW-1 & D-PEW-2	S.R. 31
TOTALS			297	15	21	56					

REVISION NOTES:
06-15-2026 ADDED CROSS DRAIN TABULATION
TABLE; REMOVED PROPOSED GUARDRAIL
TABLE.

STORM DRAINAGE PIPES								
SHEET NO.					% 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 607-07.02 36"
4B	CB2	1093.00	MH201	1090.09	11.19%		26	
4B	CB1	1090.81	MH201	1090.00	1.23%		66	
4B-5B	MH201	1089.92	CB202	1086.39	1.68%		210	
5B	CB202	1086.22	CB9	1085.60	0.78%		79	
5B	CB9	1085.43	CB8	1085.01	1.62%		26	
5B	CB8	1085.01	MH7	1084.70	1.07%		29	
5B	CB5	1085.54	JB203	1085.30	4.00%		6	
5B	CB3	1086.22	CB4	1085.95	0.49%	55		
5B	CB4	1085.78	CB5	1085.54	0.50%	48		
5B	CB14	1085.02	MH13	1084.49	4.08%	13		
5B	CB10	1085.53	CB11	1085.28	1.00%	25		
5B	CB11	1085.20	MH12	1083.95	2.36%	53		
5B	MH12	1083.78	CB15	1083.08	0.80%			87
5B	MH13	1084.49	MH12	1083.95	0.98%			55
5B	CB15	1083.08	EW16	1082.52	3.73%			15
5B	CB21	1083.23	EW20	1082.91	1.52%		21	
5B	CB22	1086.38	CB22A	1086.31	0.70%	10		
5B	CB22A	1086.31	CB24	1085.86	0.69%	65		
5B	CB24A	1085.95	CB24	1085.86	0.90%	10		
5B	CB25	1083.76	CB21	1083.31	0.50%		90	
5B	CB24	1085.95	CB25	1083.84	4.14%	51		
5B	CB27	1087.09	CB25	1083.93	1.50%		211	
5B	CB26	1088.23	CB27	1087.17	2.08%	51		
5B	CB29	1095.85	CB27	1087.26	2.48%		346	
5B	CB28	1096.87	CB29	1095.85	2.00%	51		
5B-6B	CB31	1103.03	CB28	1096.87	1.91%	323		
6B	CB30	1105.22	CB31	1103.03	4.29%	51		
6B	CB32	1110.50	CB31	1103.20	3.22%	227		
TOTALS						1033	1110	157

RIGHT OF WAY MARKERS				
	Item #: 708-02.01			
SHEET NO.	QUANTITIES			
	"A"	"B"	"C"	TOTALS
4A			2	2
5A	20		3	23
6A	7		2	9
7A			2	2
8A	7			7
9A	9		2	11
10A	6	1	3	10
11A	9		2	11
TOTALS	58	1	16	75



6/15/2026 7:33:19 PM
V:\1785\active\178560004\Roadway\Base\002F3.sht

PROPOSED GUARDRAIL													
SHEET NO.	LOCATION	SIDE		STATIONS		GUARDRAIL			TERMINAL ANCHORS				REMARKS
						W BEAM GR (TYPE 2) MASH TL3 705-06.01 (L.F.)	IN-LINE MASH TL3 705-06.11 (EACH)	TYPE 38 MASH TL3 (46.875') 705-06.20 (EACH)	THRIE BEAM BRIDGE TRAN. MASH TL-3 (20.65') 705-06.25 (EACH)	TYPE 21 MASH TL2 (21.875') 705-06.30 (EACH)	RADIUS RAIL 706-06.03 (EACH)	ROUND END ELEMENT (21.875') 706-10.26 (EACH)	
		LT	RT	FROM	TO								
4B	SR 31 SECT-1		X	10+57.95	12+13.39	173		2			70		
5B	SR 31 SECT-1	X		22+68.90	22+91.68	31	1		1		9	1	
5B	SR 31 SECT-1		X	21+41.68	22+91.68	137	1		1		14	1	SPECIAL CASE GUARDRAIL FOOTING QUANTITES ARE INCLUDED THE ESTIMATED ROADWAY QUANTITES TABLES
5B	SR 31 SECT-1	X		24+20.00	24+80.12	77	1		1		24	1	
5B	SR 31 SECT-1		X	24+01.68	24+55.82	56	1		1	1	54		SPECIAL CASE GUARDRAIL FOOTING QUANTITES ARE INCLUDED THE ESTIMATED ROADWAY QUANTITES TABLES
5B	SR 31 SECT-1		X	31+27.04	32+39.50	119	2				22	2	
6B	SR 31 SECT-1	X		32+62.50	35+25.00	278		1		1	9	1	
10B	SR 31 SECT-3	X		228+36.39	229+00.00	64		1	1			1	
10B	SR 31 SECT-3		X	227+57.65	229+00.00	144	1		1		21		
11B	SR 31 SECT-3	X		229+00.00	230+21.29	122			1				
11B	SR 31 SECT-3		X	229+00.00	229+71.95	73			1			1	
11B	SR 31 SECT-3	X		232+16.11	236+21.61	400	1				21		
11B	SR 31 SECT-3		X	231+66.70	233+38.13	173	1	1				1	
11B	SR 31 SECT-3	X		236+37.73	238+14.78	186	1	1			13	1	
11B	SR 31 SECT-3		X	236+35.10	238+15.24	184	1	1			13		
TOTALS						2217	11	7	8	2	270	10	

NOTE: FOR TEMPORARY GUARDRAIL QUANTITIES, REFER TO TRAFFIC CONTROL PLANS.

REMOVAL OF DRAINAGE PIPES AND DRAINAGE STRUCTURES					
SHEET NO.	STATION	LOCATION	DESCRIPTION	SIZE	REMARKS
4	11+91.63	LEFT OF CENTERLINE SR 31	CONCRETE ENDWALL & PIPE FROM EXISTING DRIVEWAY	18"	5 FT LONG PIPE 41.12 FT OFFSET
4	12+31.48	LEFT OF CENTERLINE SR 31	CONCRETE ENDWALL & PIPE FROM EXISTING DRIVEWAY	18"	6 FT LONG PIPE 41.12 FT OFFSET
4	16+00.00	RIGHT OF CENTERLINE SR 31	CONCRETE DITCH	259'X5'	39.05 FT OFFSET
4	16+00.00	LEFT OF CENTERLINE SR 31	CONCRETE DITCH	366'X3'	40.92 FT OFFSET
4	18+19.75	RIGHT OF CENTERLINE SR. 31	DRAINAGE PIPE	24"	61.00 FT LONG 23.64 FT OFFSET
5	19+71.50	RIGHT OF CENTERLINE SR 31	DRAINAGE PIPE	24"	143.00 FT LONG 21.98 FT OFFSET
5	149+09.90	RIGHT OF CENTERLINE OLD SR NO. 1	CONCRETE ENDWALL & PIPE FROM EXISTING DRIVEWAY	18"	50.00 FT LONG PIPE 18.59 FT OFFSET
5	149+35.29	RIGHT OF CENTERLINE OLD SR NO. 2	CONCRETE CATCH BASIN	12'X4'	18.85 FT OFFSET
5	150+90.52	RIGHT OF CENTERLINE SR 31	METAL PIPE	15"	20.00 FT LONG 21.87 FT OFFSET
5	24+64.43	RIGHT OF CENTERLINE SR 31	RCP	24"	30.00 FT LONG 25.19 FT OFFSET
5	24+94.64	LEFT OF CENTERLINE SR 31	CONCRETE ENDWALL & METAL PIPE FROM EXISTING DRIVEWAY	18"	48.00 FT LONG 20.98 FT OFFSET
5	25+53.85	RIGHT OF CENTERLINE SR 31	METAL PIPE	18"	31.00 FT LONG 23.23 FT OFFSET
5	26+54.59	RIGHT OF CENTERLINE SR 31	METAL PIPE	15"	25.00 FT LONG 19.98 FT OFFSET
5	26+91.49	RIGHT OF CENTERLINE SR 31	METAL PIPE	15"	30.00 FT LONG 20.43 FT OFFSET
5	27+62.54	RIGHT OF CENTERLINE SR 31	METAL PIPE	15"	47.00 FT LONG 19.70FT OFFSET
5	29+08.62	RIGHT OF CENTERLINE SR 31	RCP	18"	50.00 FT LONG 21.26 FT OFFSET
5	29+20.79	LEFT OF CENTERLINE SR 31	METAL PIPE	24"	36.00 FT LONG 20.95 FT OFFSET
5	30+16.35	RIGHT OF CENTERLINE SR 31	METAL PIPE	15"	50.00 FT LONG 20.38 FT OFFSET
5	31+11.92	LEFT OF CENTERLINE SR 31	METAL PIPE	18"	41.00 FT LONG 21.34 FT OFFSET
6	32+28.10	LEFT OF CENTERLINE SR 31	METAL PIPE	18"	28.00 FT LONG 20.41 FT OFFSET
6	32+51.46	RIGHT OF CENTERLINE SR 31	METAL PIPE	15"	24.00 FT LONG 21.58 FT OFFSET
6	33+97.42	CROSS CENTERLINE SR 31	RCP	18"	45.00 FT LONG

REMOVAL OF DRAINAGE PIPES AND DRAINAGE STRUCTURES (CONT'D)					
6	36+08.91	RIGHT OF CENTERLINE SR 31	METAL PIPE	15"	20.00 FT LONG 20.22 FT OFFSET
8	69+88.33	RIGHT OF CENTERLINE SR 31	METAL PIPE	15"	36.00 FT LONG 22.87 FT OFFSET
8	72+26.27	RIGHT OF CENTERLINE SR 31	METAL PIPE	18"	21.00 FT LONG 21.72 FT OFFSET
9	77+92.34	RIGHT OF CENTERLINE SR 31	PLASTIC PIPE	18"	47.00 FT LONG 23.09 FT OFFSET
10	220+52.36	CROSS CENTERLINE SR 31	METAL PIPE	18"	47.00 FT LONG
11	236+56.23	CROSS CENTERLINE SR 31	METAL PIPE	60"	42.00 FT LONG

NOTE: TO BE PAID FOR UNDER ITEM 202-01

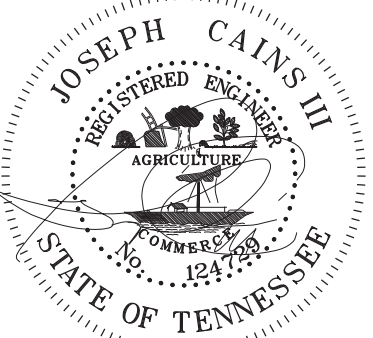
REMOVAL OF BUILDINGS AND OBTRUCTIONS DESCRIPTION BLOCK		
PAY ITEM	TRACT NO.	DESCRIPTION
203-06.01	17	204 SF OF CONCRETE DRIVEWAY
203-06.02	18	66 LF OF 4' CHAIN LINK FENCE, 40 LF OF CONCRETE CURB, 26 LF OF 18" METAL STORM DRAINAGE PIPE
203-06.03	20	395 LF OF 4' CHAIN LINK FENCE, 190 SF ONE-STORY RESTROOM BUILDING, 115 LF OF 24" CORRUGATED METAL STORM DRAINAGE PIPE.
203-06.04	26	52 SF OF MASONRY BLOCK & BRICK RETAINING WALLS.
203-06.05	28	ONE-STORY, 896 SF FORMER DWELLING IN POOR CONDITION, CONCRETE SEPTIC SYSTEM, 75' DEEP WATER WALL.
203-06.06	28A	SEPTIC SYSTEM DRAINFIELD.
203-06.07	29	28 LF OF 24" METAL STORM DRAINAGE PIPE.
203-06.08	44A	223 LF OF 3- STRAND BARBED WIRE FENCE.
203-06.09	52	400 LF WOVEN WIRE FENCE.
203-06.10	53	215 LF OF 3- STRAND BARBED WIRE FENCE.
203-06.11	54	4' & 6' METAL BARRIER POLES, 65 LF OF 24" METAL DRAINAGE PIPE, 35 LF WATER LINE.
203-06.12	57	25 SF OF MASONRY BLOCK, STONE VENEER DRIVEWAY COLUMNS.
203-06.13	112	265 LF OF 3" WOVEN WIRE FENCING.
203-06.14	113	282 LF OF 2-STRAND BARBED WIRE FENCING, 140 LF OF 2-STRAND BARBED WIRE FENCING (ENCROACHMENT ON CURRENT ROW).

NOTE: TO BE PAID FOR UNDER ITEMS 202-06.01 TO 202-06.14
NOTE: TO BE PAID FOR UNDER ITEMS 202-06.01 TO 202-06.14

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	2F3
PS & E	2026	STP/HPP-31(12)	2F3

REVISION NOTES:
06-15-2026 ADDED PROPOSED GUARDRAIL TABLE.

SEALED BY



06/15/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED
QUANTITIES

SHEET 4 OF 5

BOX CULVERT \ BRIDGE TABULATION																		
STATION/OFFSET	LOCATION	DRAINAGE CODE	TYPE		SKEW	NO. BARRELS	WIDTH	HEIGHT	LENGTH	DRAINAGE AREA ACRES	STANDARD DRAWING NO.	CULVERT ≤ 20 FT.		STD. DWG. STD-17-17 & 18		RIP-RAP CLASS B 709-05.08 TON	CHANNEL EXC. 203-08 CU. YD.	CULVERT EXC. 204-01 CU. YD.
			BOX	SLAB								CLASS "A" CONCRETE 604-01.01 CU. YD.	STEEL BAR REINF. 604-01.02 LB.	FOUNDATION FILL MATERIAL 204-08 CU. YD.	GRANULAR BACKFILL 303-01.01 TONS			
10+89.39/ 57.07' RT	SR 31	EW1	X		90°	1	6	4	6	35	STD-17-11, STD-17-26, & STD-17-51	6.63	1240	6	95	105		37
TOTALS												6.63	1240	6	95	105	0	37

NOTE: QUANTITY SHOWN FOR PAY ITEMS 604-01.01 AND 604-01.02
ACCOUNTS FOR BOX CULVERT EXTENSION AND WINGWALLS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	2F4
PS & E	2026	STP/HPP-31(12)	2F4

REVISION NOTES:
06-15-2026 REVISED TACK COAT QUANTITY.

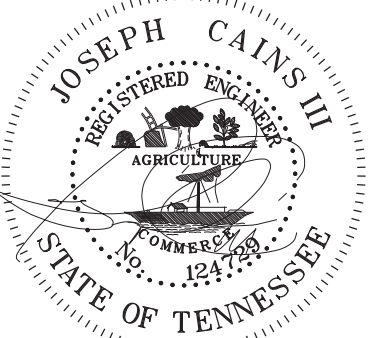
ESTIMATED GRADING QUANTITIES											
DESCRIPTION		UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY						
		EXC.	EMB.	EXC.	SHRINK = 5 % SWELL = 0 %						
MAINLINE		24559	12411	23332	EXC.	VS.	EMB.	29541	-12661		
SIDE ROADS		2556	705	2429							
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES		341	395	324							
INDEPENDENT DITCHES		0	0								
TEMPORARY CONSTRUCTION EXITS		0	0								
OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...)		0	0		AVAILABLE	=	16880	WASTE MATERIAL	= 17724		
TOPSOIL (EMB.)											
TOPSOIL (EXC.)											
TOPSOIL TOTALS (SEE TOPSOIL TAB)											
ROCK (C.Y.)		TOTALS (C.Y.)					BORROW ROCK = 894				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)					
3456	851	30913	12661	27457	27457	29541					

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.
305980	0	0	14152	5667	5667	0	8485
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.
	N/A	N/A	N/A	0	N/A	0	N/A

PAVEMENT QUANTITIES									
LOCATION (ROADWAY)	TYPE - GRADE - PAY ITEM (TON)							COLD PLANING	
	MINERAL AGG.	BITUMINOUS PLANT MIX BASE (HOT MIX)		PRIME COAT		TACK COAT	ASPHALTIC CONCRETE SURFACE (HOT MIX)		BITUMINOUS PLANT MIX
	D	A	B-M2				D	E	TON
	303-01	307-01.01	307-01.08	402-01	402-02	403-01	411-01.10	411-01.07	415-01.01
SECTION 1	7757	1301	1867	13	44	10	1102	82	412
SECTION 2	2709	351	708	4	13	4	455		222
SECTION 3	7411	791	625	12	38	5	377	213	
TOTALS	17877	2444	3200	29	95	19	1935	295	635

Quantities include all sideroads and driveways along each section

SEALED BY

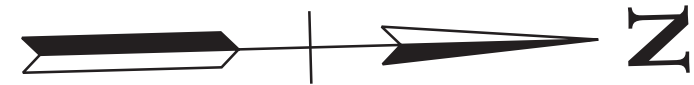


06/15/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED
QUANTITIES

SHEET 5 OF 5

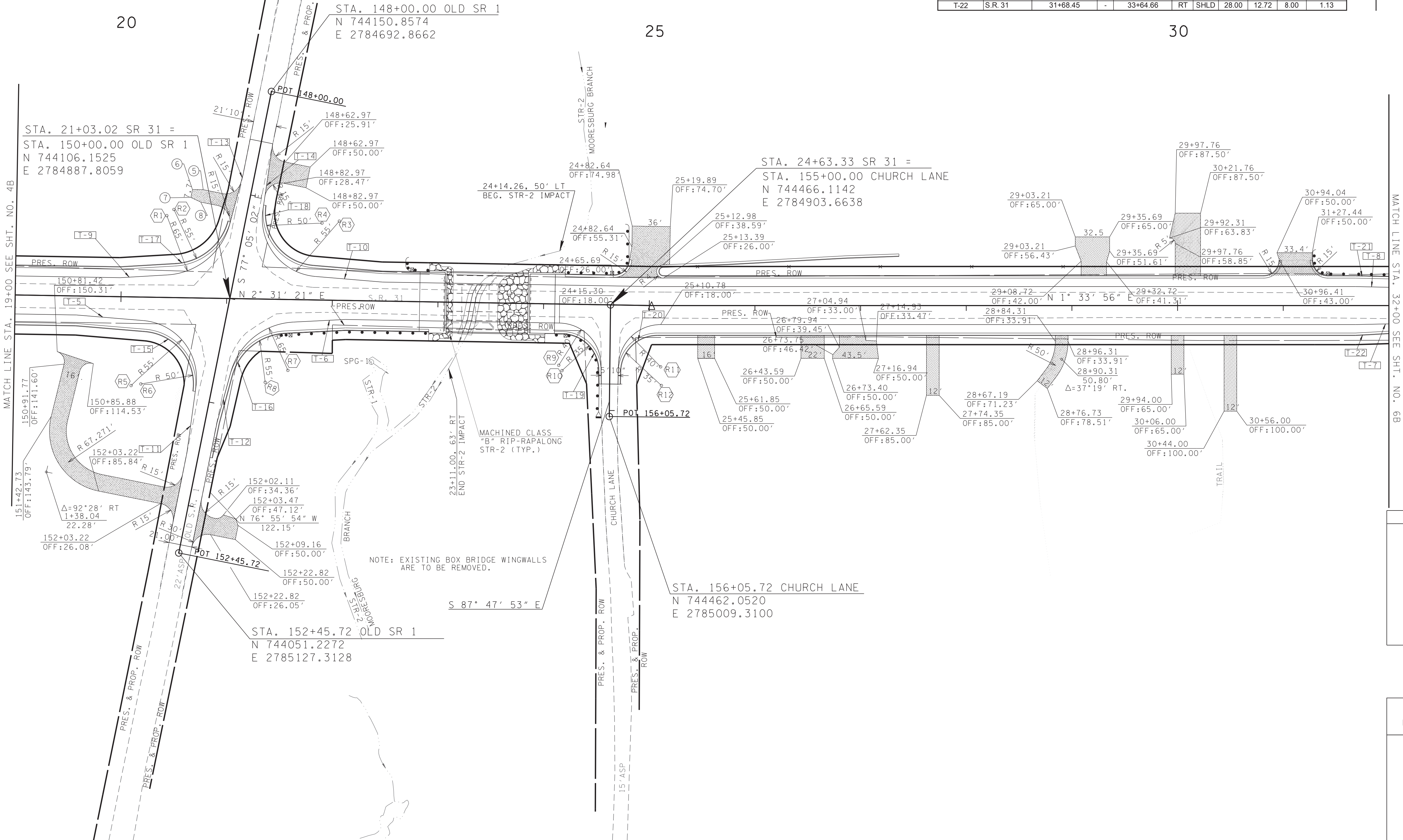


TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	
PS & E	2026	STP/HPP-31(12)	2G1

REVISION NOTES:
06-17-2024 REVISED STRUCTURE TYPE AT STR-2 CROSSING.
06-15-2026 REVISED GUARDRAIL AND TEXT.

PAVEMENT / SHOULDER TRANSITIONS											
TRANS. NO	LOCATION	BEGIN STATION	TO	END STATION	SIDE	TYPE	OFFSET (FT)		LANE WITH (FT)		
T-5	S.R. 31	19+58.04	-	20+21.43	RT	PVMT	18.00	22.24	12.32	16.24	
T-6	S.R. 31	21+63.61	-	22+12.73	RT	PVMT	21.28	18.00	15.28	12.00	
T-7	S.R. 31	31+68.45	-	34+20.00	RT	PVMT	18.00	12.72	12.00	12.72	
T-8	S.R. 32	31+68.46	-	34+20.00	LT	PVMT	18.00	12.72	12.00	12.72	
T-9	S.R. 31	19+98.96	-	20+43.54	LT	PVMT	18.00	21.36	12.00	15.36	
T-10	S.R. 31	21+83.74	-	22+47.13	LT	PVMT	22.24	18.00	16.24	12.00	
T-11	OLD S.R. 1	150+87.82	-	151+51.24	RT	PVMT	11.12	15.05	11.12	15.05	
T-12	OLD S.R. 1	150+68.59	-	151+17.70	RT	PVMT	14.55	11.20	14.55	11.20	
T-13	OLD S.R. 1	148+81.95	-	149+31.03	RT	PVMT	10.83	14.00	10.83	14.00	
T-14	OLD S.R. 1	148+48.29	-	149+11.74	LT	PVMT	10.91	14.16	10.91	14.16	
T-15	S.R. 31	20+20.77	-	20+69.81	RT	SHLD	32.21	88.24	8.00	0.00	
T-16	S.R. 31	21+06.25	-	21+64.28	RT	SHLD	73.12	31.26	0.00	8.00	
T-17	S.R. 31	20+42.79	-	21+00.41	LT	SHLD	31.33	73.73	8.00	0.00	
T-18	S.R. 31	21+35.48	-	21+84.40	LT	SHLD	88.78	32.21	0.00	8.00	
T-19	S.R. 31	24+15.30	-	24+53.44	RT	SHLD	28.00	61.98	8.00	0.00	
T-20	S.R. 31	24+73.72	-	25+10.78	RT	SHLD	62.67	28.00	0.00	8.00	
T-21	S.R. 31	31+68.45	-	33+50.00	LT	SHLD	28.00	14.58	8.00	1.73	
T-22	S.R. 31	31+68.45	-	33+64.66	RT	SHLD	28.00	12.72	8.00	1.13	

RADIUS POINT TABLE				
NO.	BASELINE	STA.	OFF.	SIDE RADIUS
R1	SR 31	20+38.65	86.18'	LT. 65.00'
R2	SR 31	20+47.05	86.82'	LT. 55.00'
R3	SR 31	21+87.40	77.11'	LT. 55.00'
R4	SR 31	21+85.04	82.29'	LT. 50.00'
R5	SR 31	20+17.77	77.11'	RT. 55.00'
R6	SR 31	20+20.16	82.27'	RT. 50.00'
R7	SR 31	21+67.94	86.14'	RT. 65.00'
R8	SR 31	21+59.55	86.70'	RT. 55.00'
R9	SR 31	24+15.30	58.00'	RT. 40.00'
R10	SR 31	24+18.45	63.00'	RT. 35.00'
R11	SR 31	25+10.78	58.00'	RT. 40.00'
R12	SR 31	25+07.67	63.00'	RT. 35.00'



MATCH LINE STA. 32+00 SEE SHT. NO. 6B

SEALED BY

06/15/2026

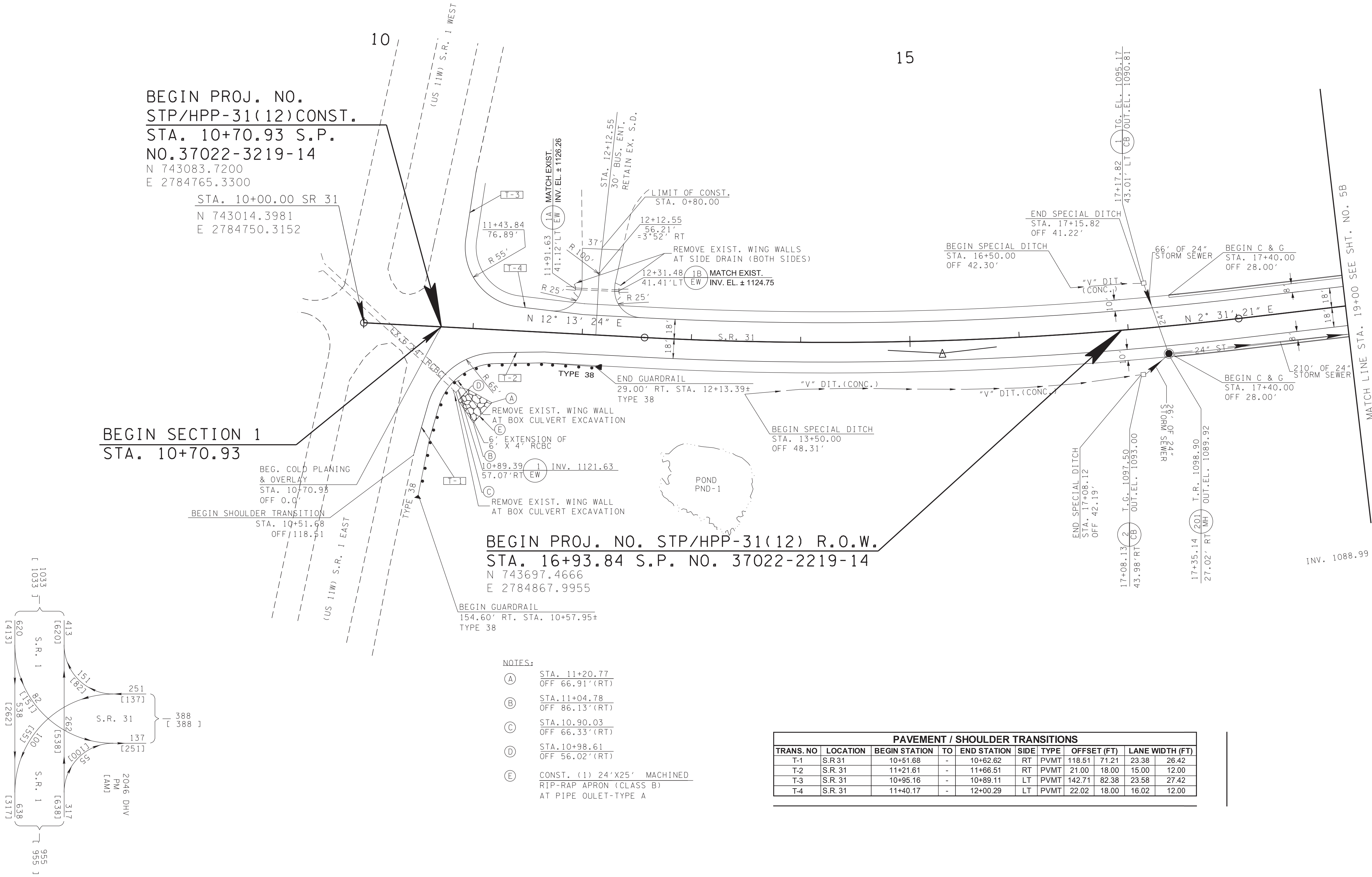
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETAIL SHEET

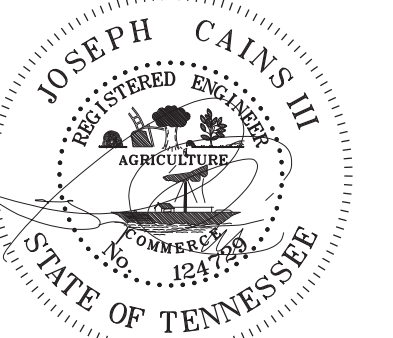
STA. 19+00 TO STA. 32+00
SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	4B
P-I-H	2025	STP/HPP-31(12)	4B
PS & E	2026	STP/HPP-31(12)	4B

REVISION NOTE:
06-15-2026 REVISED THE PROPOSED DRAINAGE FEATURES TABLE.



SEALED BY



06/15/2026

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 99.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

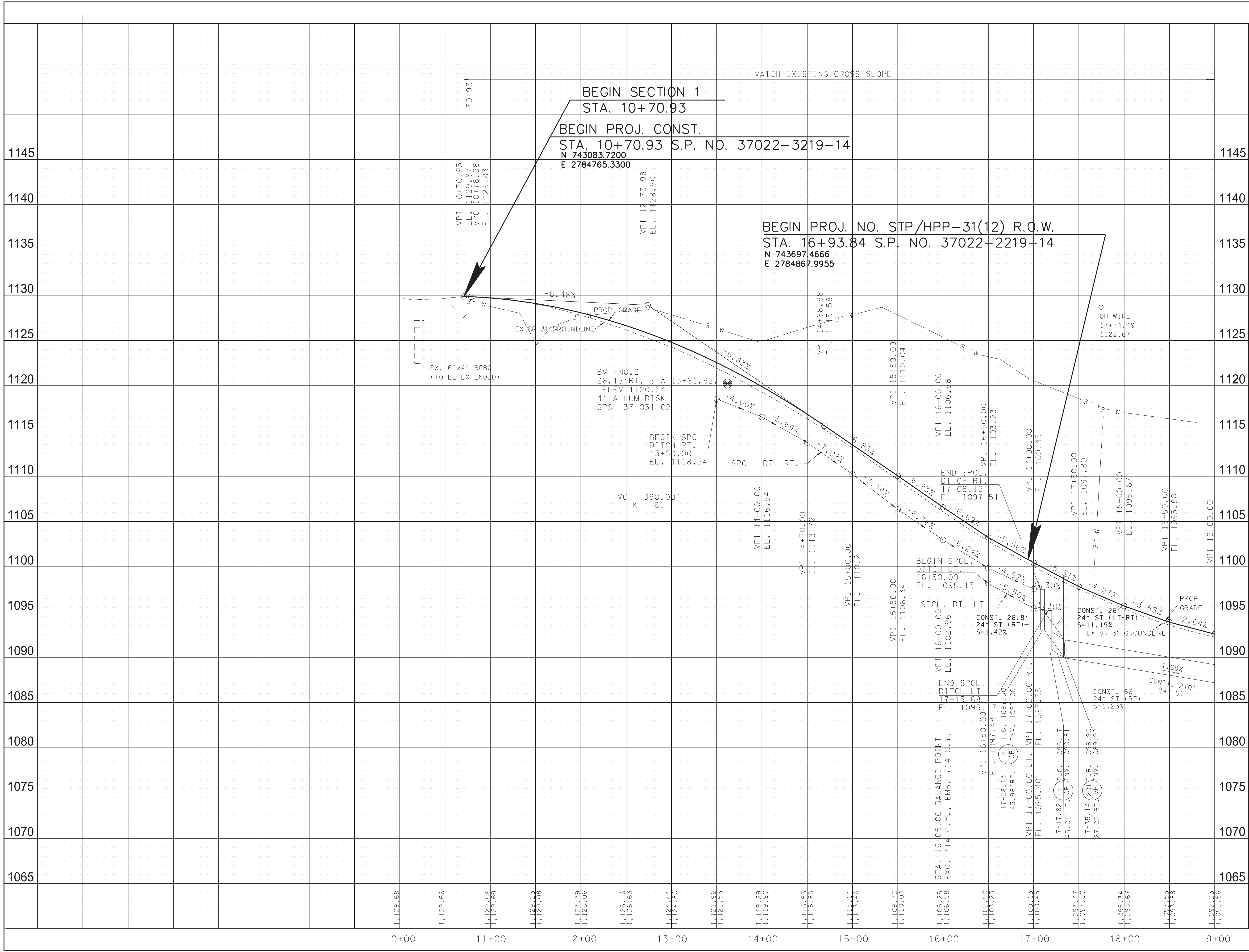
PROPOSED LAYOUT

STA. 10+51.68 STA. 19+00
SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP/HPP-31(12)	4C
P-I-H	2025	STP/HPP-31(12)	4C
PS&E	2026	STP/HPP-31(12)	4C

REVISION NOTE:

06-15-2026 REVISED DRAINAGE INVERTS
AND SLOPES



SEALED BY



06/15/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

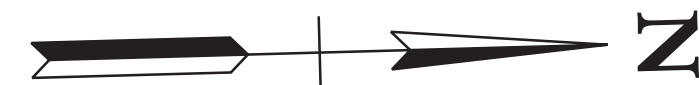
**PROPOSED
PROFILE**

STA. 10+51.68 STA. 19+00

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

- 6 LINDA MAYNARD
7 LINDA MAYNARD
155 DAVID N. COOK AND WIFE, KATHY K. COOK

FENCE REMOVAL (SECTION 1)						
BEGIN STATION	OFFSET	END STATION	OFFSET	SIDE	BASE LINE	TYPE
25+14.15	31.15'	28+92.95	31.70'	LT	SR 31	CHAIN-LINK
						378.81
						378.81



LYNN RODDY
AND WIFE,
MAUREEN RODDY

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	5
P-I-H	2025	STP/HPP-31(12)	5
PS & E	2026	STP/HPP-31(12)	5

REVISION NOTE:

06-17-2024 REVISED STRUCTURE TYPE AT STR-2 CROSSING. UPDATED PERM. DRAINAGE, SLOPE, AND CONST. ESMT. FOR TRACT 15, CREATED TRACT 15S.

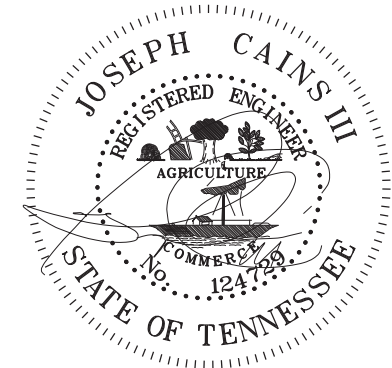
03-25-2026 UPDATED PROPERTY OWNERS NAMES FOR TRACTS 4A, 5, 6, 7, 12, 13, 15, 15S, 18, 22, 24, AND 25 AND ADDED STRIKETHROUGH LINES FOR TRACT 21.

06-15-2026 REVISED TEXT FOR CLARITY.

Legend:
Proposed R.O.W. Line
Proposed Easement Line
Proposed Const. Easement Line
Proposed Slope Easement
Proposed Drainage Easement
SCARIFY & OBLITERATE
EXIST. PAVEMENT

MATCH LINE STA. 32+00 SEE SHT. NO. 6

SEALED BY



COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 99.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT
LAYOUT

STA. 19+00 TO STA. 32+00
SCALE: 1"= 50'

GPS # 3
N 744054.54
E 2784909.47
EL. 1089.90
STA 20+52.41
23.92' RT

JAMES N. & MARJORIE G. DALTON

13 GRANT HOWZE AND WIFE, CHRISTINE HOWZE

WILBUR & GEORGIA E. SHROPSHIRE

NOTE: EXISTING BOX BRIDGE WINGWALLS ARE TO BE REMOVED.

DAVID N. COOK AND WIFE, KATHY K. COOK

STA. 156+05.72 CHURCH LANE
N 744462.0520
E 2785009.3100

ROBERT L. & PHYLLIS J. ARMS

SANDRA FAYE ELKINS & REBECCA MICHELLE ELKINS

JASON A. HURST AND AMANDA L. HURST

DICKENSON CEMETERY

LINDA MORIE GLENDA DAVIS, PATRICK DOUGLAS, AND JACKIE WEBB

NOTE: THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-1, STR-2 AND SPG-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.

GPS # 4
N 744908.51
E 2784885.42
EL. 1095.82
STA 29+05.07
30.98' LT

- ① EXISTING 41'-30" STORM SEWER PIPE (TO REMAIN)
② EXISTING 32'-36" STORM SEWER PIPE (TO REMAIN)
③ EXISTING 43'-36" STORM SEWER PIPE (TO REMAIN)
④ PROPOSED 13'-18" STORM SEWER PIPE

PROPOSED DRAINAGE FEATURES							
STATION	OFFSET	SIDE	NO.	BASE LINE	TYPE	TOP GRATE/INLET OR RIM ELEV.	OUTLET/ FLOW LINE/ INV. ELEV.
21+01.22	109.06'	LT	3	SR 31	CB	1090.40	1086.22
20+91.00	53.00'	LT	4	SR 31	CB	1090.78	1085.78
20+45.59	30.44'	LT	5	SR 31	CB	1090.05	1085.46
21+55.00	42.32'	LT	10	SR 31	CB	1089.85	1085.53
21+81.34	32.40'	LT	11	SR 31	CB	1090.08	1085.20
24+40.08	26.00'	LT	22	SR 31	CB	1090.30	1086.38
24+50.00	26.00'	LT	22A	SR 31	CB	1090.27	1086.31
25+15.39	27.04'	LT	24	SR 31	CB	1090.28	1085.86
25+25.00	27.04'	LT	24A	SR 31	CB	1090.28	1086.63
27+25.00	27.04'	LT	26	SR 31	CB	1092.23	1088.23
30+75.00	27.04'	LT	28	SR 31	CB	1100.91	1096.79
20+45.17	21.13'	LT	203	SR 31	JB	1089.25	1085.30

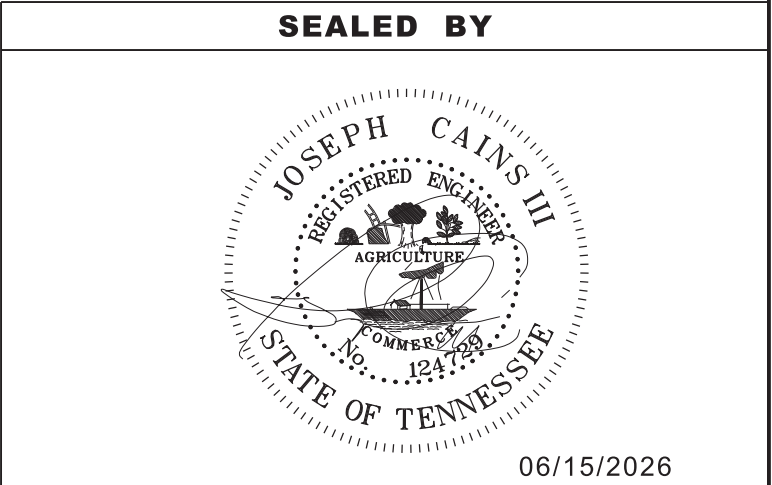
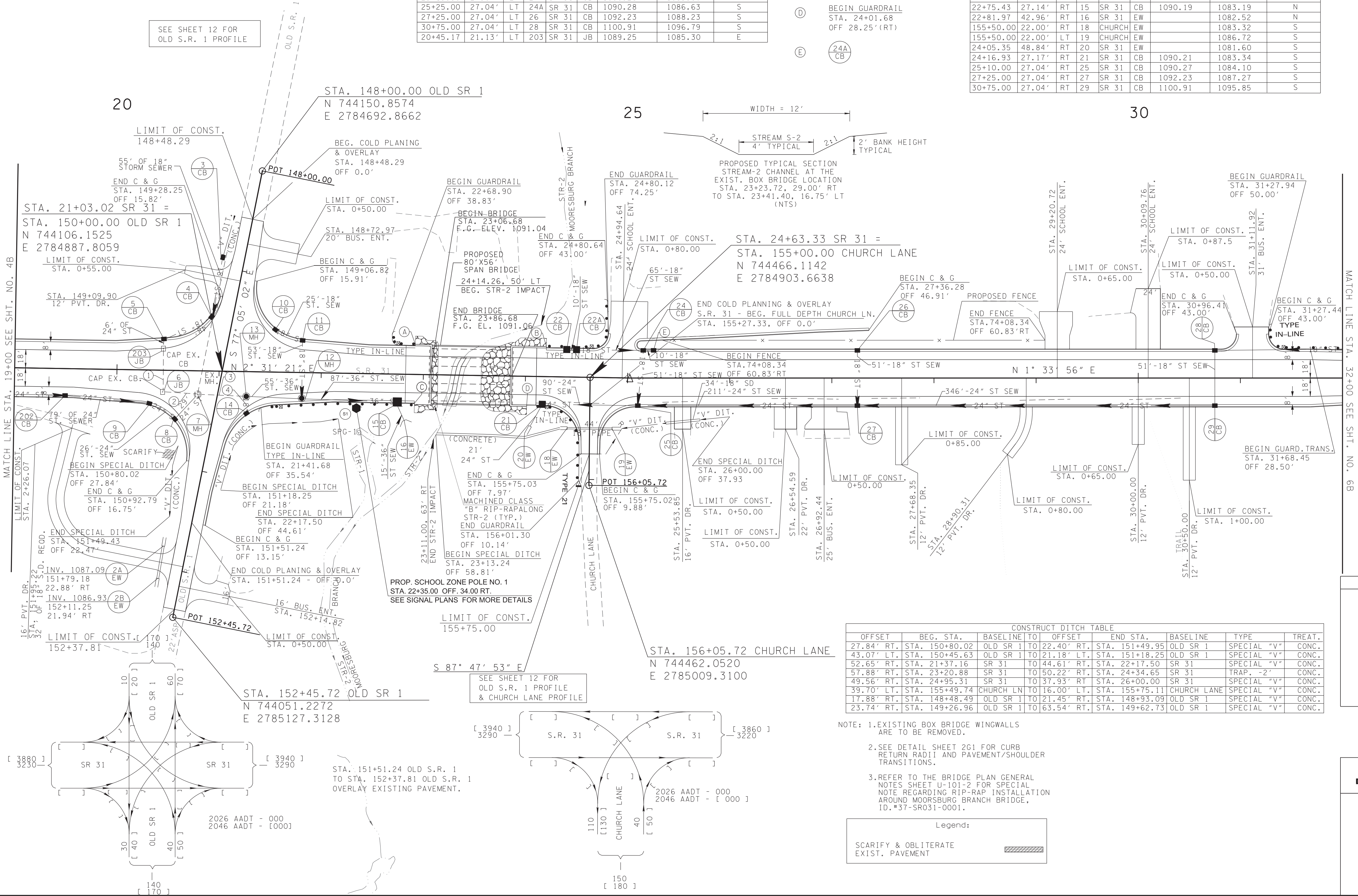
NOTES:

- (A) END GUARDRAIL
STA. 22+91.68
OFF 28.25' (LT)
(B) BEGIN GUARDRAIL
STA. 24+20.00
OFF 28.25' (LT)
(C) END GUARDRAIL
STA. 22+91.68
OFF 28.25' (RT)
(D) BEGIN GUARDRAIL
STA. 24+01.68
OFF 28.25' (RT)
(E) (24A)
CB

PROPOSED DRAINAGE FEATURES							
STATION	OFFSET	SIDE	NO.	BASE LINE	TYPE	TOP GRATE/INLET OR RIM ELEV.	OUTLET/ FLOW LINE/ INV. ELEV.
19+50.00	26.32'	RT	202	SR 31	CB	1090.72	1086.22
20+45.00	21.24'	RT	6	SR 31	JB	1089.36	1085.06
20+79.46	23.10'	RT	7	SR 31	MH	1090.34	1084.70
20+56.77	47.56'	RT	8	SR 31	CB	1089.75	1084.99
20+32.27	33.71'	RT	9	SR 31	CB	1089.93	1085.43
21+81.34	25.16'	RT	12	SR 31	MH	1090.38	1084.02
21+27.00	24.23'	RT	13	SR 31	MH	1090.39	1084.19
21+28.00	41.64'	RT	14	SR 31	CB	1089.49	1085.02
22+75.43	27.14'	RT	15	SR 31	CB	1090.19	1083.19
22+81.97	42.96'	RT	16	SR 31	EW		1082.52
155+50.00	22.00'	RT	18	CHURCH	EW		1083.32
155+50.00	22.00'	LT	19	CHURCH	EW		1086.72
24+05.35	48.84'	RT	20	SR 31	EW		1081.60
24+16.93	27.17'	RT	21	SR 31	CB	1090.21	1083.34
25+10.00	27.04'	RT	25	SR 31	CB	1090.27	1084.10
27+25.00	27.04'	RT	27	SR 31	CB	1092.23	1087.27
30+75.00	27.04'	RT	29	SR 31	CB	1100.91	1095.85

REVISION NOTES:

- 06-17-2024 REVISED STRUCTURE TYPE AT STR-2 CROSSING
06-15-2026 REVISED PROPOSED DRNG. SYSTEM AND DRNG. FEATURE TABLE; REVISED AND ADDED GUARDRAIL



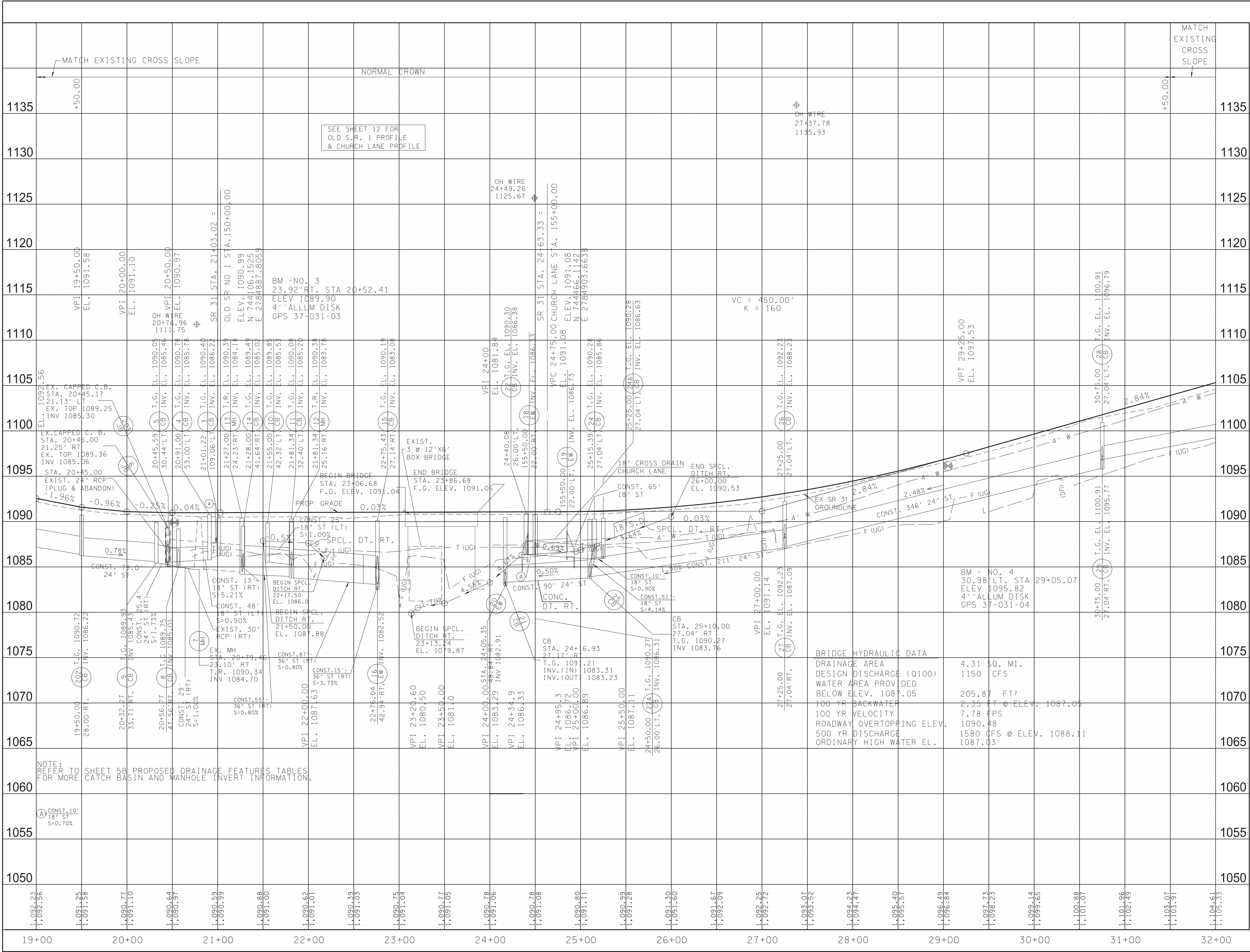
COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 99.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
LAYOUT

STA. 19+00 TO STA. 32+00
SCALE: 1"= 50'

6/23/2026 12:36:56 PM
V:\1785\active\178560004\Roadway\Base\005C.sht



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP/HPP-31(12)	5C
P-I-H	2025	STP/HPP-31(12)	5C
PS&E	2026	STP/HPP-31(12)	5C

SEAL BY

JOSEPH CAINS II
REGISTERED ENGINEER
STATE OF TENNESSEE
06/15/2026

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

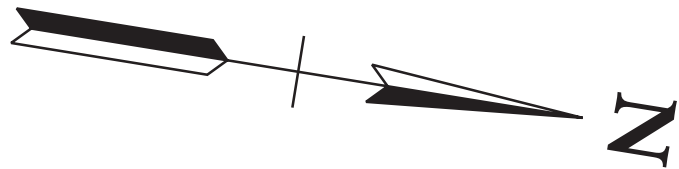
PROPOSED PROFILE
STA. 19+00 TO STA. 32+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	6B
P-I-H	2025	STP/HPP-31(12)	6B
PS & E	2026	STP/HPP-31(12)	6B

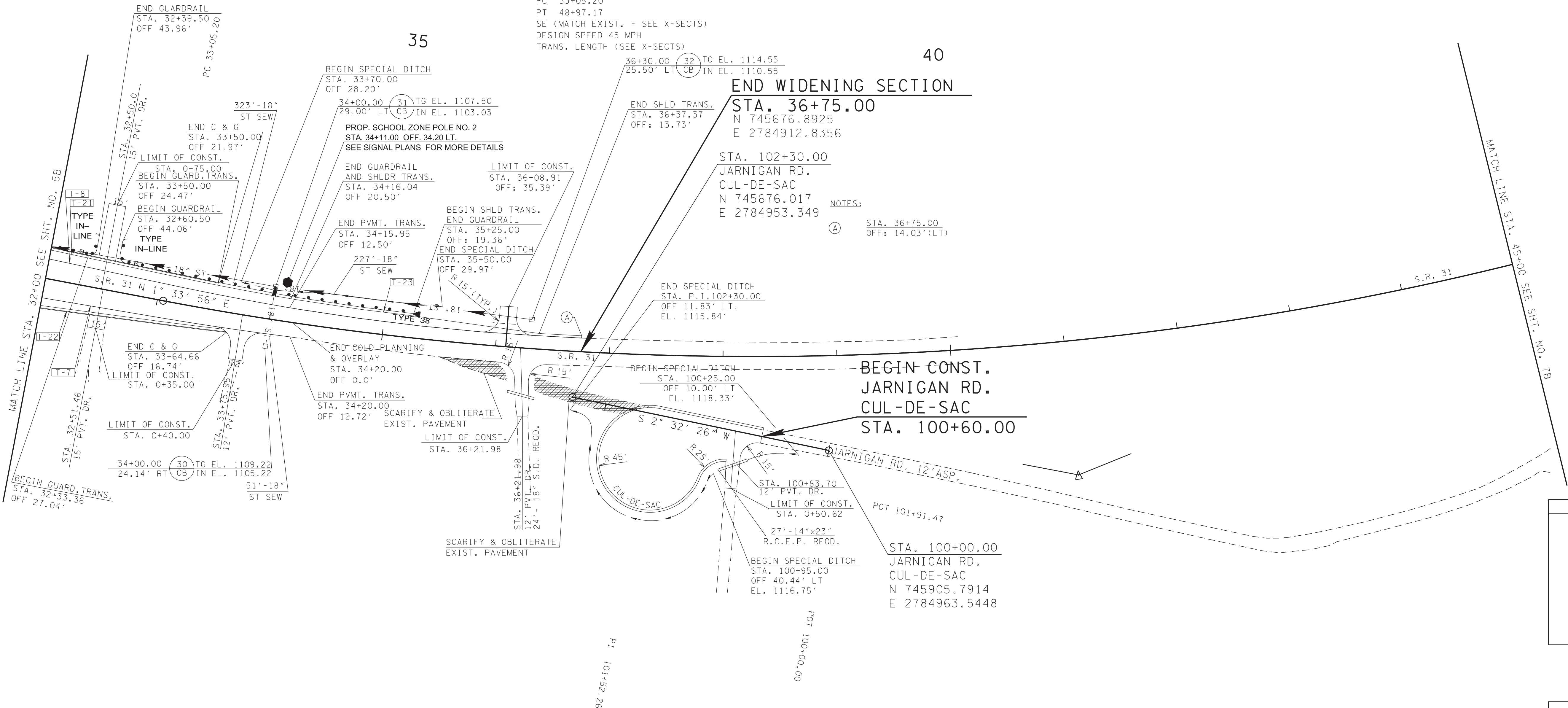
REVISION NOTE:

06-15-2026 REVISED PROPOSED DRNG. SYSTEM;
REVISED GUARDRAIL AND ADDED NEW GUARDRAIL

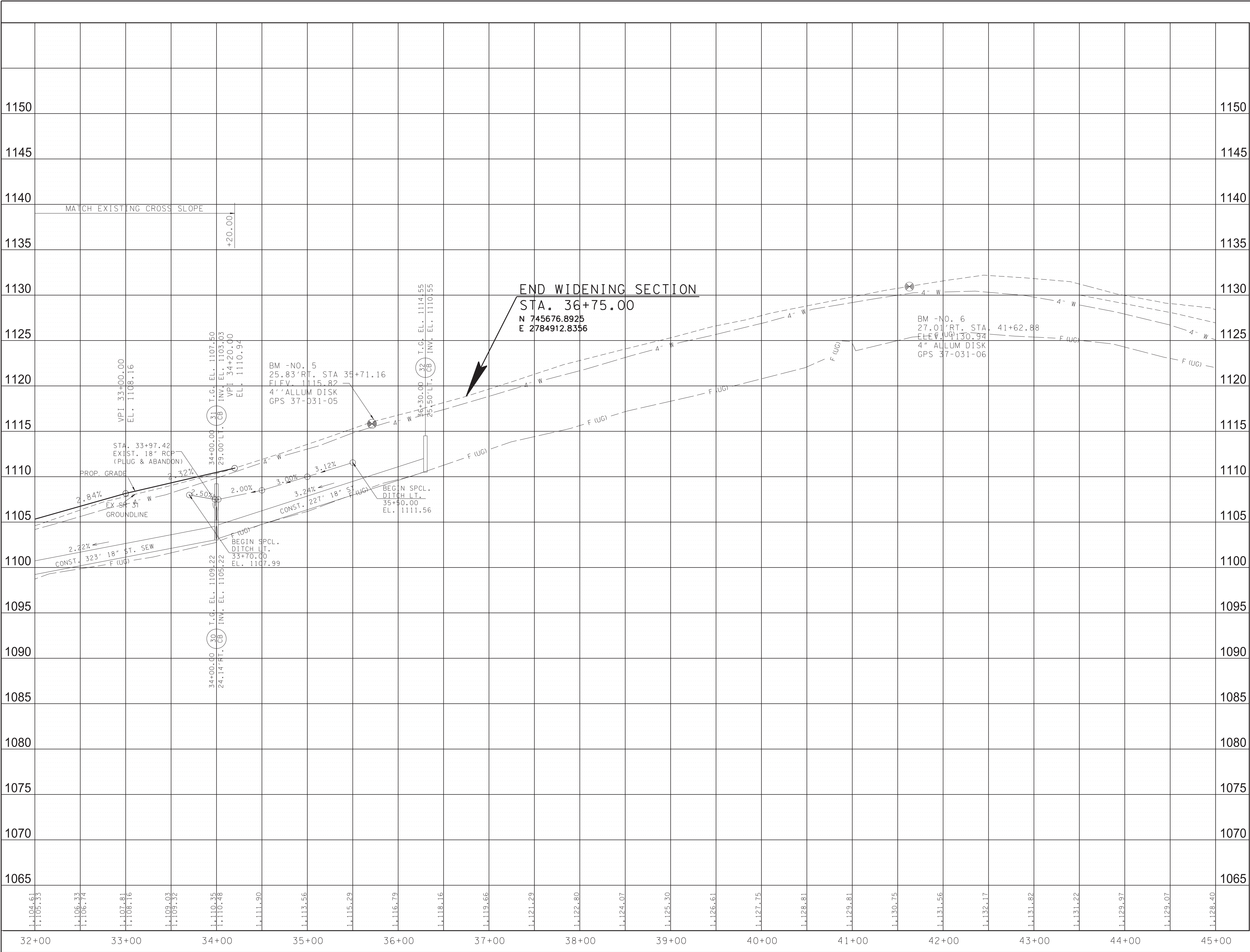
PAVEMENT / SHOULDER TRANSITIONS										
TRANS. NO	LOCATION	BEGIN STATION	TO	END STATION	SIDE	TYPE	OFFSET (FT)		LANE WITH (FT)	
T-7	S.R. 31	31+68.45	-	34+20.00	RT	PVMT	18.00	12.72	12.00	12.72
T-8	S.R. 32	31+68.46	-	34+16.04	LT	PVMT	18.00	12.50	12.00	12.50
T-21	S.R. 31	31+68.45	-	34+15.00	LT	SHLD	28.00	14.58	8.00	1.73
T-22	S.R. 31	31+68.45	-	33+64.66	RT	SHLD	28.00	12.72	8.00	1.13
T-23	S.R. 31	34+16.04	-	36+37.37	RT	PVMT	20.50	13.73	8.00	2.00



SR 31
CURVE DC51
PI 41+23.67
N 746,125.8089
E 2,784,949.6750
Δ 32° 48' 38" (LT)
D 2° 03' 40"
R 2,780.00
L 1,591.97
T 818.47
PC 33+05.20
PT 48+97.17
SE (MATCH EXIST. - SEE X-SECTS)
DESIGN SPEED 45 MPH
TRANS. LENGTH (SEE X-SECTS)



6/24/2026 12:08:03 PM
V:\1785\active\178560004\Roadway\Base\006C.sht



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP/HPP-31(12)	6C
P-I-P	2025	STP/HPP-31(12)	6C
PS&E	2026	STP/HPP-31(12)	6C

REVISION NOTE:
06-15-2026 ADJUSTED INVERT ELEVATIONS,
PIPE SLOPE, AND PIPE LENGTH. MOVED
OVERLAPPING TEXT.

SEALED BY

06/15/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**PROPOSED
PROFILE**

STA. 32+00 TO STA. 45+00

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

6/16/2026 11:48:11 AM
V:\1785\active\178560004\Roadway\Base\020.sht

DRAINAGE DATA FOR 7'X4' BOX CULVERT
STATION
DIRECTION OF FLOW: RIGHT
DRAINAGE AREA 35 AC , () FLAT; () ROLLING; () HILLY; () MTNS.
PRESENT STRUCTURE:
EXISTING STRUCTURE CONDITION: UNKNOWN
REMARKS: q50=38.8 q100=46.9

DRAINAGE DATA FOR PIPE
STATION 20+22.59
DIRECTION OF FLOW LT. TO RT.
DRAINAGE AREA 28.09 AC. FLAT, ROLLING, HILLY, MTNS.
PRESENT STRUCTURE: 36" RCP
EXISTING STRUCTURE CONDITION: FAIR
REMARKS: FAIR

SECTION 1 - STA. 10+51.68 TO STA.34+20.00



REVISION NOTES:

06-17-2024 REVISED STRUCTURE TYPE
AT STR-2 CROSSING. ADJUSTED CB-21,
CB-22, AND EW-20
06-15-2026 REVISED PROPOSED
DRAINAGE SYSTEM.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	17
P-I-H	2025	STP/HPP-31(12)	15
PS & E	2026	STP/HPP-31(12)	20

BEGIN PROJ. NO. STP/HPP-31(12) CONST.
STA. 10+70.93 S.P.
NO. 37022-3219-14
N 743083.7200
E 2784765.3300

STA. 10+00.00 SR 31
N 743014.3981
E 2784750.3152

BEGIN SECTION 1
STA. 10+70.93

BEGIN PROJ. NO. STP/HPP-31(12) R.O.W.
STA. 16+93.84 S.P. NO. 37022-2219-14
N 743697.4666
E 2784867.9955

STA 21+01.19
DA=1.39 ac
Q10=2.17 CFS
ROLLING

STA 20+45.00
DA=10.31 ac
Q10=13.7 CFS
ROLLING

STA 20+45.00
DA=5.23 ac
Q10=13.7 CFS
ROLLING

STA. 148+00.00 OLD SR 1
N 744150.8574
E 2784692.8662

POT 148+00.00

STA. 21+03.02 SR 31 =
STA. 150+00.00 OLD SR 1
N 744106.1525
E 2784887.8059

POT 152+45.72

STA. 152+45.72 OLD SR 1
N 744051.2272
E 2785127.3128

STA. 24+63.33 SR 31 =
STA. 155+00.00 CHURCH LANE
N 744466.1142
E 2784903.6638

STA 25+25
DA=0.75 ac

POT 156+05.72

STA 34+00
DA=2.45 ac

STA. 156+05.72 CHURCH LANE
N 744462.0520
E 2785009.3100

STA 27+25
DA=0.92 ac

30
STA 30+75
DA=6.7 ac
Q10= 8.55 CFS
ROLLING

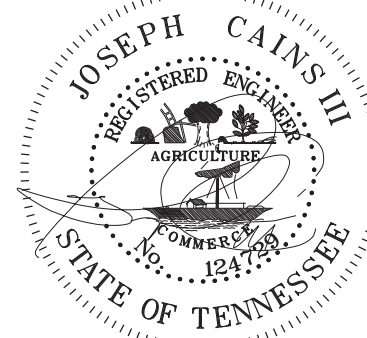
MATCH LINE STA. 31+00 SEE SHT. NO.21

DRAINAGE / HYDRAULIC DATA FOR BRIDGE
STATION 23+29.32 STREAM NAME MOORESBURG BRANCH

STREAM BED LINING: ROCKY
DIRECTION OF FLOW LT TO RT
DRAINAGE AREA 2675.2 AC. FLAT, ROLLING, HILLY, MTNS.
PRESENT STRUCTURE: SPAN 3@12' HEIGHT 6' STRUCTURE CONC
BEGIN STATION-OFFSET 22+86.86 END STATION-OFFSET 23+25.68
LOW BEAM ELEV. 1087.34 LOCATION. C.L. CULV UPSTREAM
INLET INVERT ELEV. 1081.44 OUTLET INVERT. 1081.14
NORMAL WATER ELEV. 1081.05 EXTREME HIGHWATER ELEV. 1087.04 DATE. SPRING 1977
HOW OBTAINED. LOCAL INFO

BACKWATER FROM WHAT STREAM (IF APPLICABLE):
EXISTING STRUCTURE CONDITION: FAIR
SEE STREAM CROSS-SECTIONS FOR VEGETATIVE COVER, SEE PRESENT LAYOUT (LEVEL 40) FOR STREAM ALIGNMENT AND CRC
SEE CENTERLINE PROFILE OR FIELD BOOK FOR EXISTING BRIDGE OPENING SKETCHES.
REMARKS: DRAINAGE AREA TAKEN FROM T.V.A. DATA

SEALED BY



06/15/2026

COORDINATES ARE NAD 83(1995), ARE
DATUM ADJUSTED BY THE FACTOR
OF 1.00006 AND TIED TO THE TGRN.
ALL ELEVATIONS ARE REFERENCED
TO THE NAVD 1988 WITH GEOID 99.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

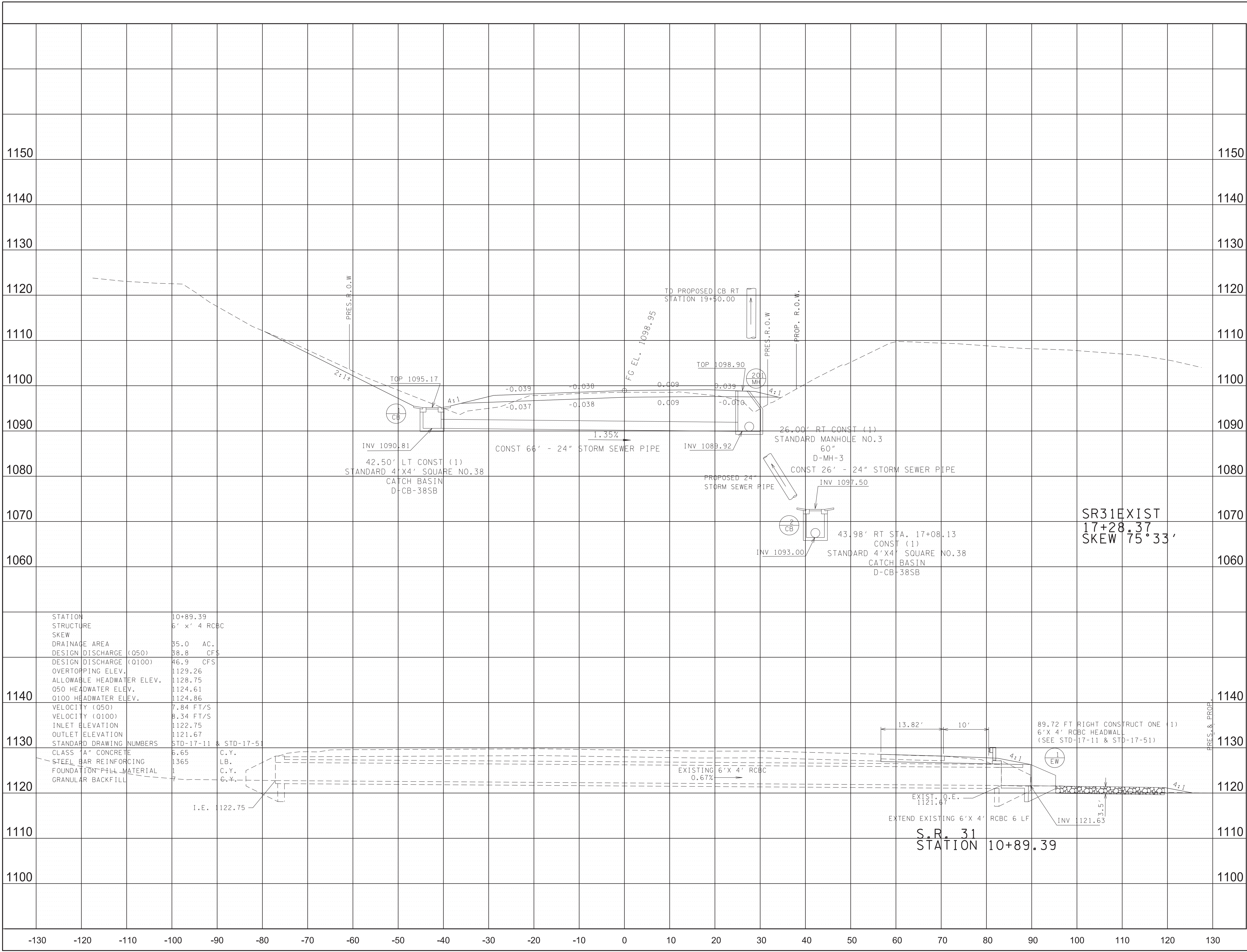
DRAINAGE
MAP

STA. 10+51.68 TO STA. 31+00
SCALE: 1"=100'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP/HPP-31(12)	18
P-I-H	2025	STP/HPP-31(12)	25
PS & E	2026	STP/HPP-31(12)	30

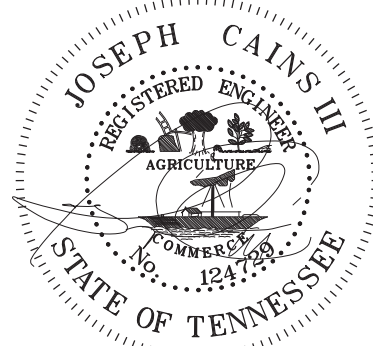
REVISION NOTES:

06-15-2026 REVISED INVERT
ELEVATIONS, STATIONS, AND
LABELS



6/16/2026 11:48:31 AM
V:\1785\active\178560004\Roadway\Base\030.sht

SEALED BY



06/15/2026

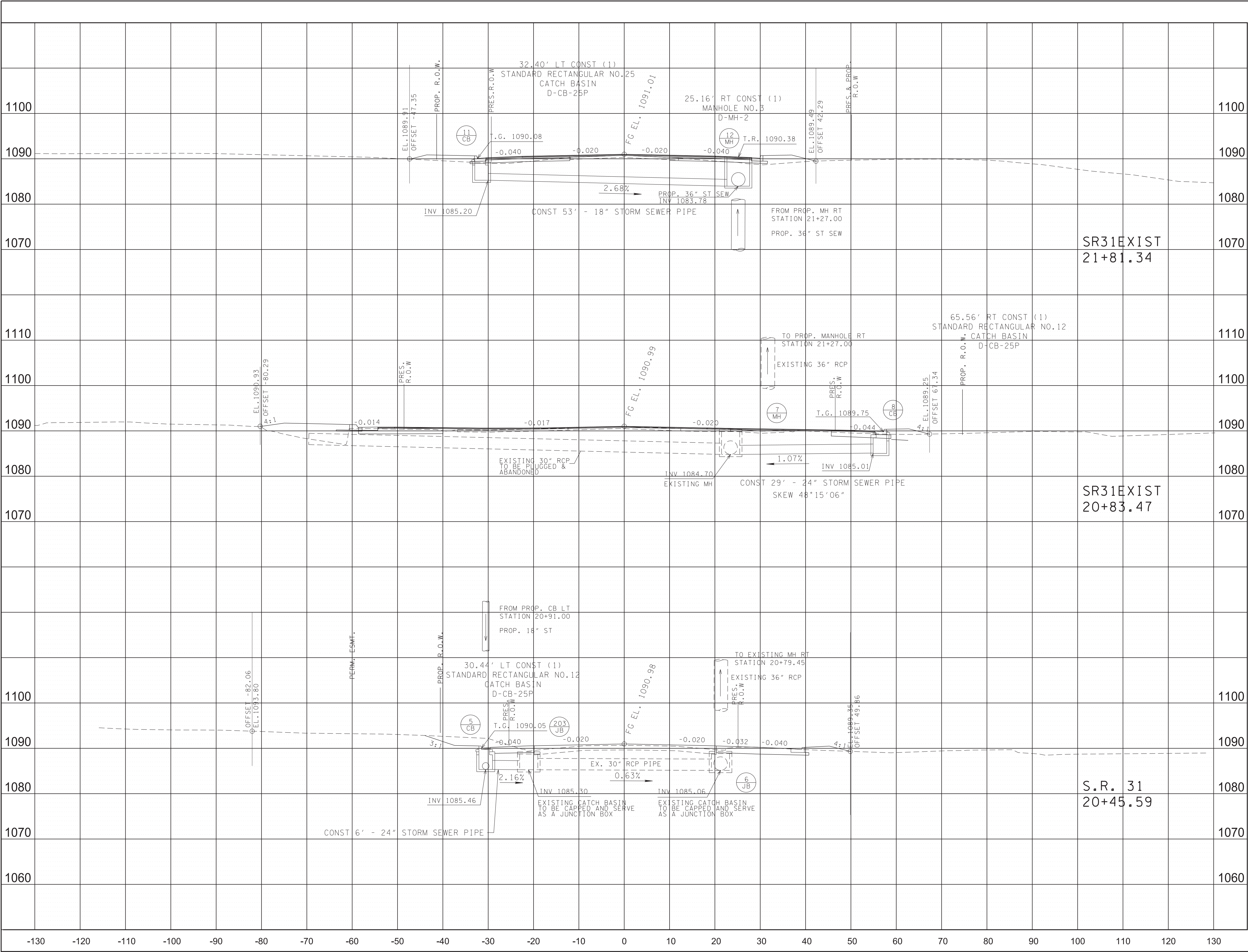
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

STA. 10+20.18
STA 17+28.37

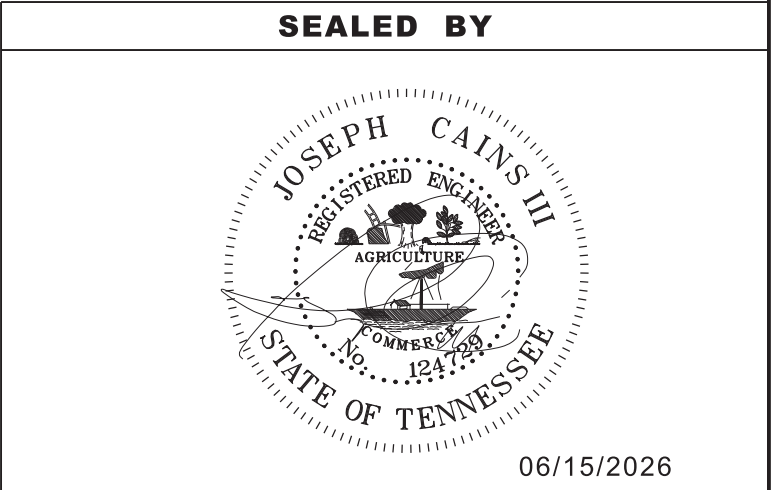
SCALE: 1"= 10' HORIZ.
1"=10' VERT.

6/15/2026 8:28:34 PM
V:\1785\active\178560004\Roadway\Base\031.sht



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP/HPP-31(12)	18A
P-I-H	2025	STP/HPP-31(12)	26
PS & E	2026	STP/HPP-31(12)	31

REVISION NOTES:
06-15-2026 REVISED INVERT ELEVATIONS,
STATIONS, AND LABELS

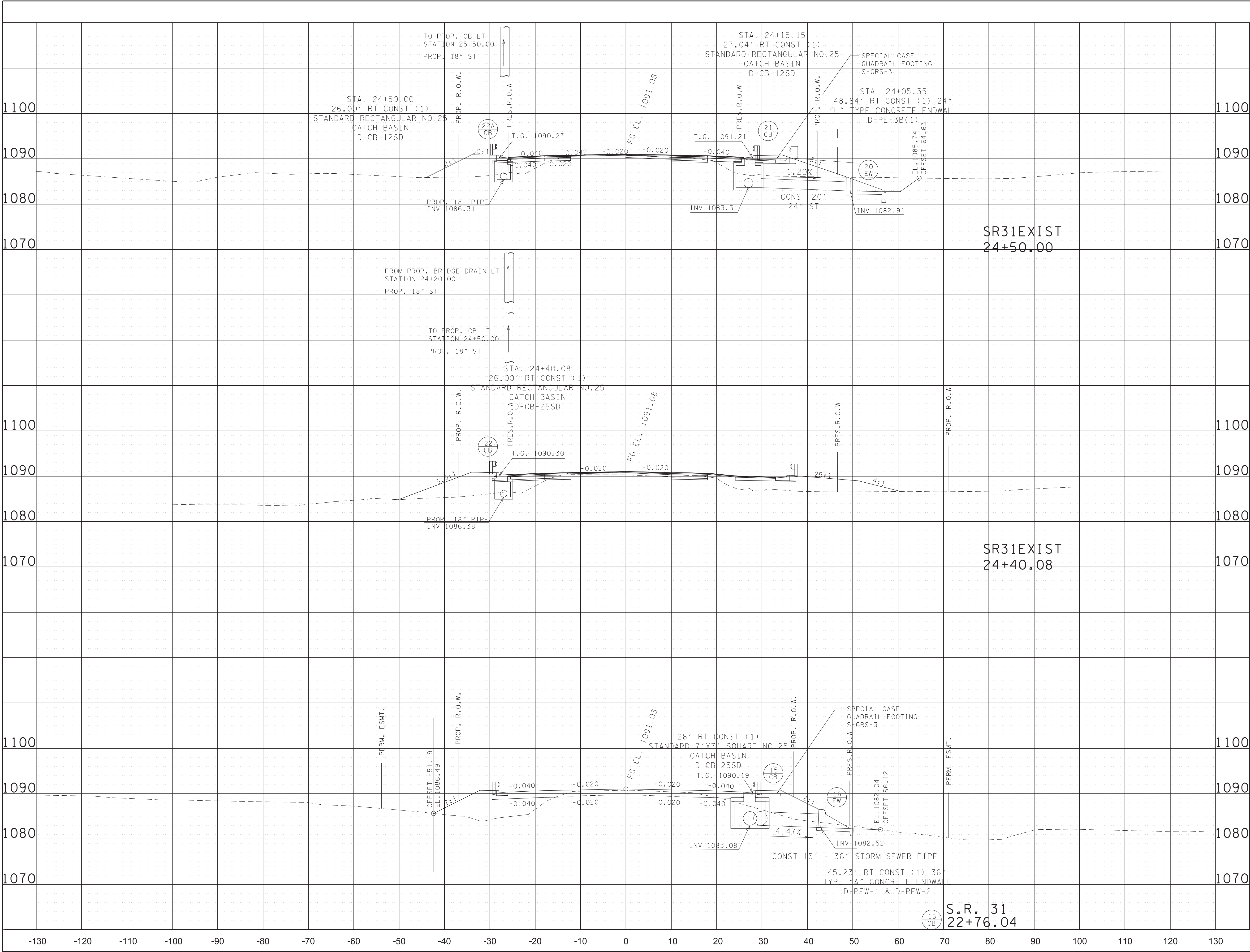


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT
SECTIONS

STA. 20+45.59
STA. 20+83.47
STA. 21+81.34
SCALE: 1"= 10' HORIZ.
1"=10' VERT.

6/24/2026 12:08:33 PM
V:\1785\active\178560004\Roadway\Base\032.sht

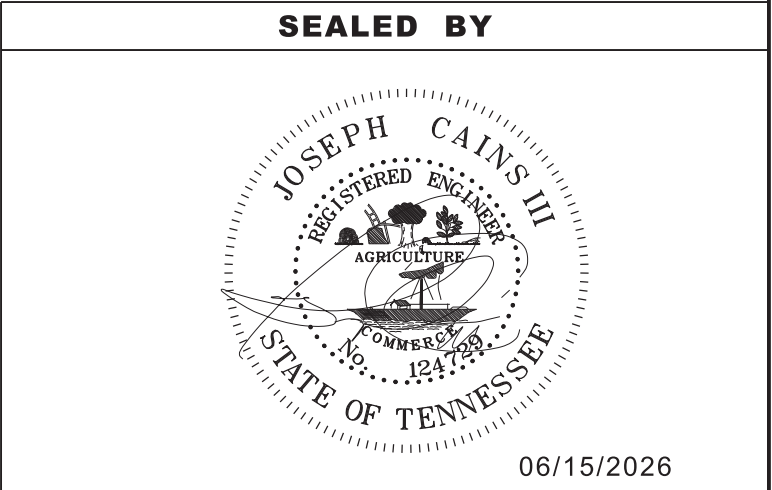


TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP/HPP-31(12)	18B
P-I-H	2025	STP/HPP-31(12)	27
PS & E	2026	STP/HPP-31(12)	32

REVISION NOTES:

06-17-2024 REVISED STRUCTURE TYPE AT STR-2 CROSSING. REMOVED CULVERT SECTION 23+29.32. REPLACED CULVERT SECTION 23+65.43 WITH CULVERT SECTION 24+01.68

06-15-2026 REVISED INVERT ELEVATIONS, STATIONS, LABELS, AND ADDED CB22A

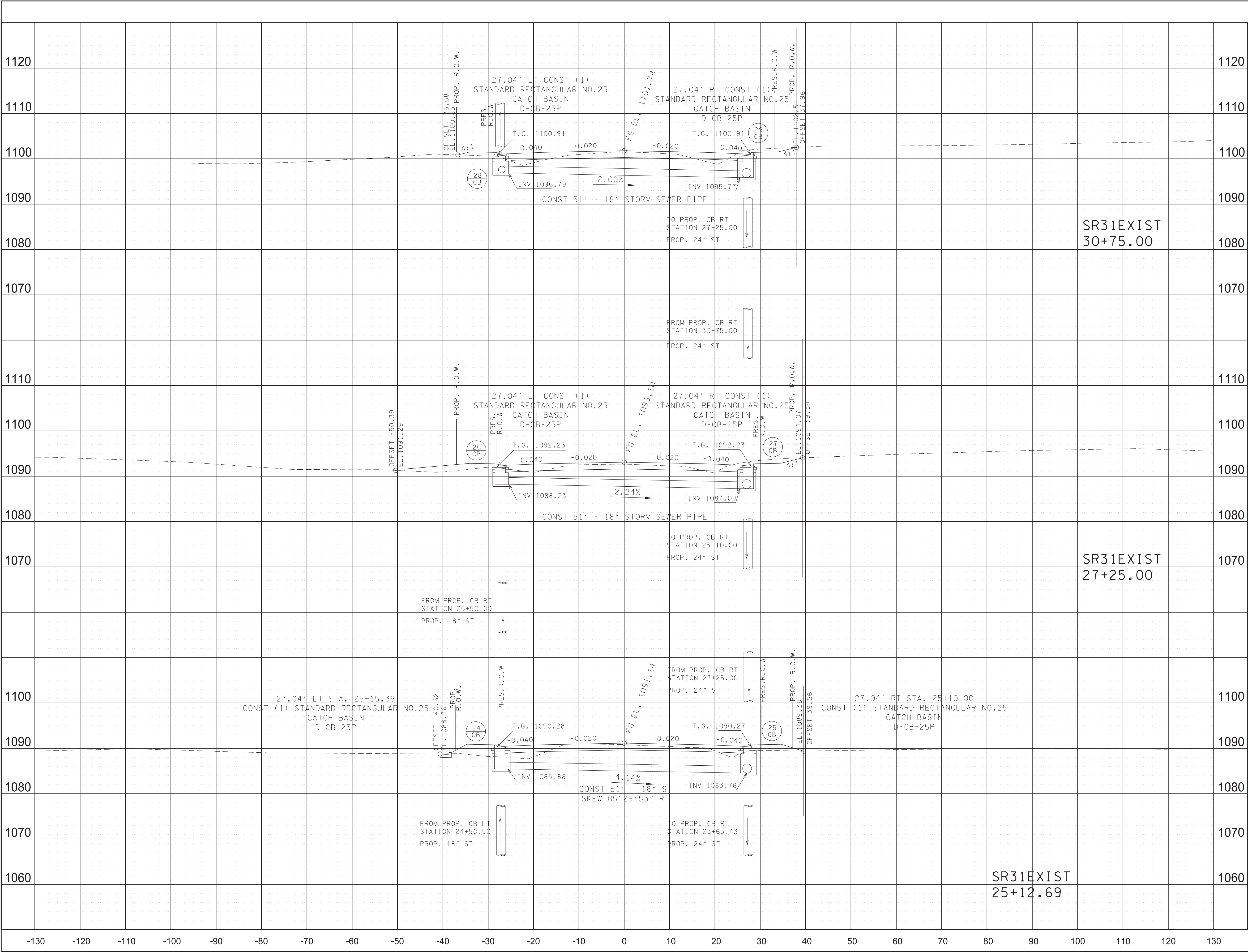


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**CULVERT
SECTIONS**

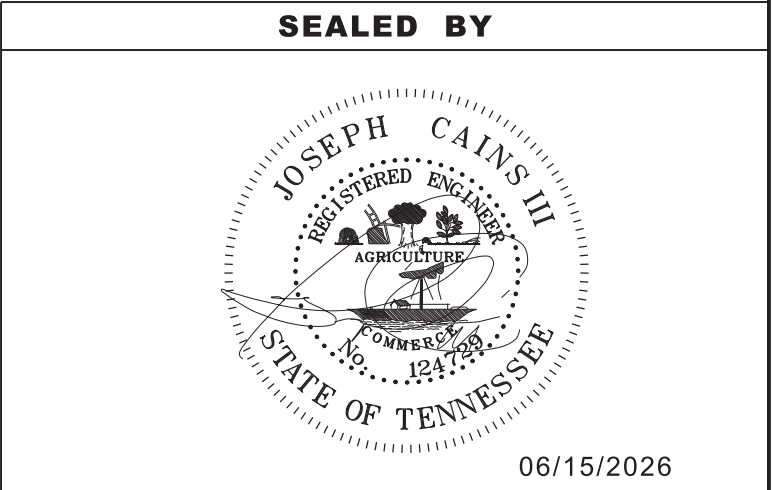
STA. 22+76.04
STA. 24+01.67
STA. 24+27.90
SCALE: 1"= 10' HORIZ.
1"=10' VERT.

6/16/2026 11:50:16 AM
V:\1785\active\178560004\Roadway\Base\033.sht



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP/HPP-31(12)	18C
P-I-H	2025	STP/HPP-31(12)	28
PS & E	2026	STP/HPP-31(12)	33

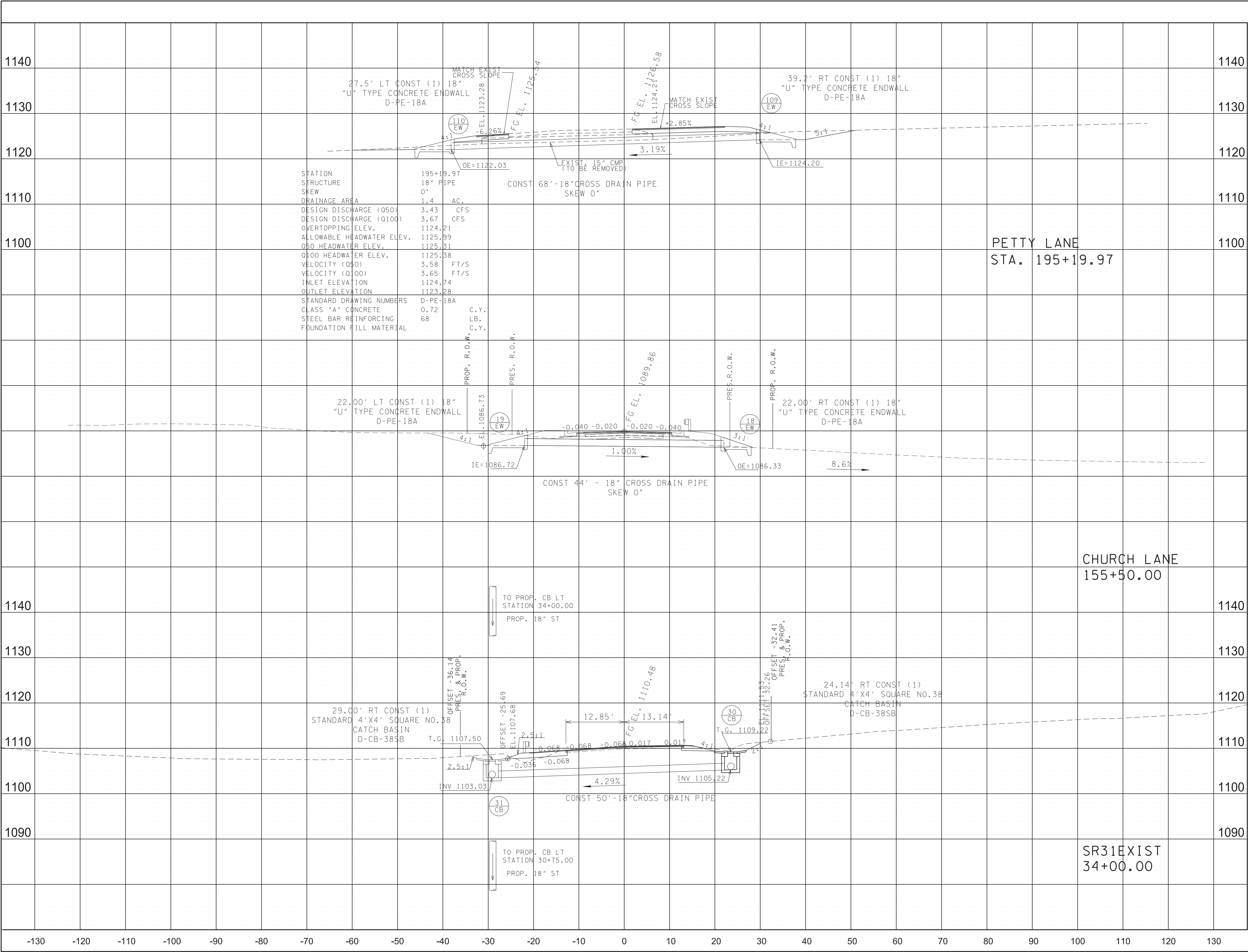
REVISION NOTES:
06-15-2026 REVISED INVERT
ELEVATIONS, STATIONS, AND
LABELS



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

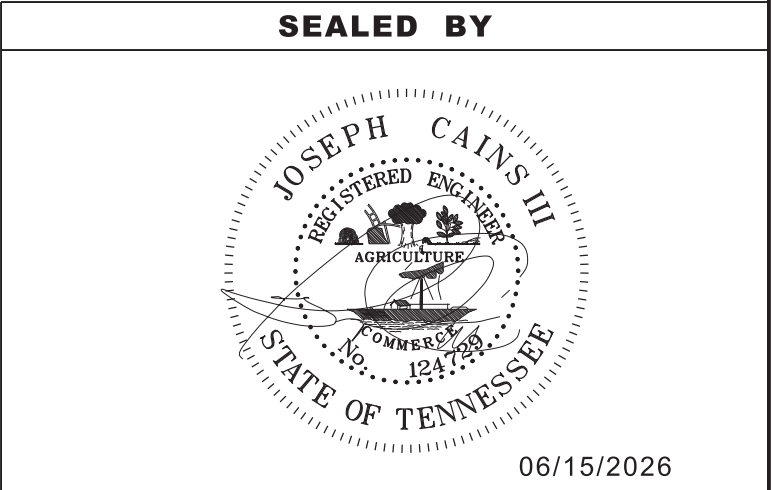
**CULVERT
SECTIONS**
STA. 25+12.69
STA. 27+25.00
STA. 30+75.00
SCALE: 1"= 10' HORIZ.
1"=10' VERT.

6/23/2026 10:45:06 AM
V:\1785\active\178560004\Roadway\Base\034.sht



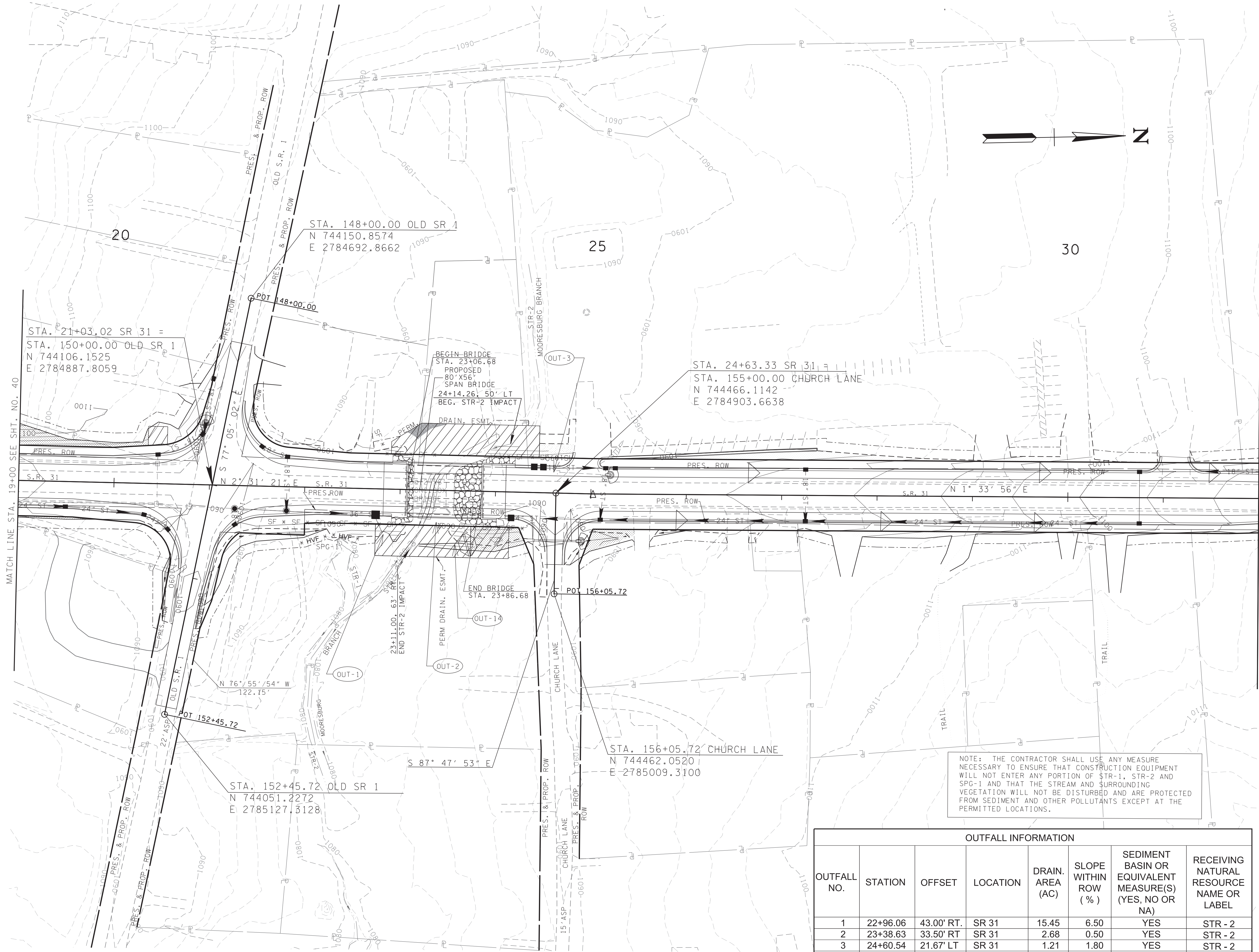
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP/HPP-31(12)	18D
P-I-H	2025	STP/HPP-31(12)	29
PS & E	2026	STP/HPP-31(12)	34

REVISION NOTES:
06-15-2026 REVISED INVERT
ELEVATIONS AND SLOPES.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**CULVERT
SECTIONS**
STA. 34+00.00
STA. 155+50.00
STA. 195+19.97
SCALE: 1"= 10' HORIZ.
1"=10' VERT.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	21B
P-I-H	2025	STP/HPP-31(12)	34
PS & E	2026	STP/HPP-31(12)	40A

REVISION NOTES:

06-17-2024 REVISED STRUCTURE TYPE AT STR-2 CROSSING.

09-06-2024 TRACT 4A: ADDED 1SF TO FEE SIMPLE TOTAL. TRACT 11: REMOVED TCE FROM THE NORTH SIDE OF THE ENTRANCE. TRACT 28: CORRECTED THE TOTAL ACREAGE AND AREA REMAINING.

06-15-2026 REVISED PROPOSED DRNG. SYSTEM.

LEGEND:	
Existing contours:	----
Proposed Contours:	----
Undisturbed Area:	
Permanent Drainage Easement Area:	

STAGE 2
INTERMEDIATE
GRADING

SEALED BY

06/15/2026

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 99.

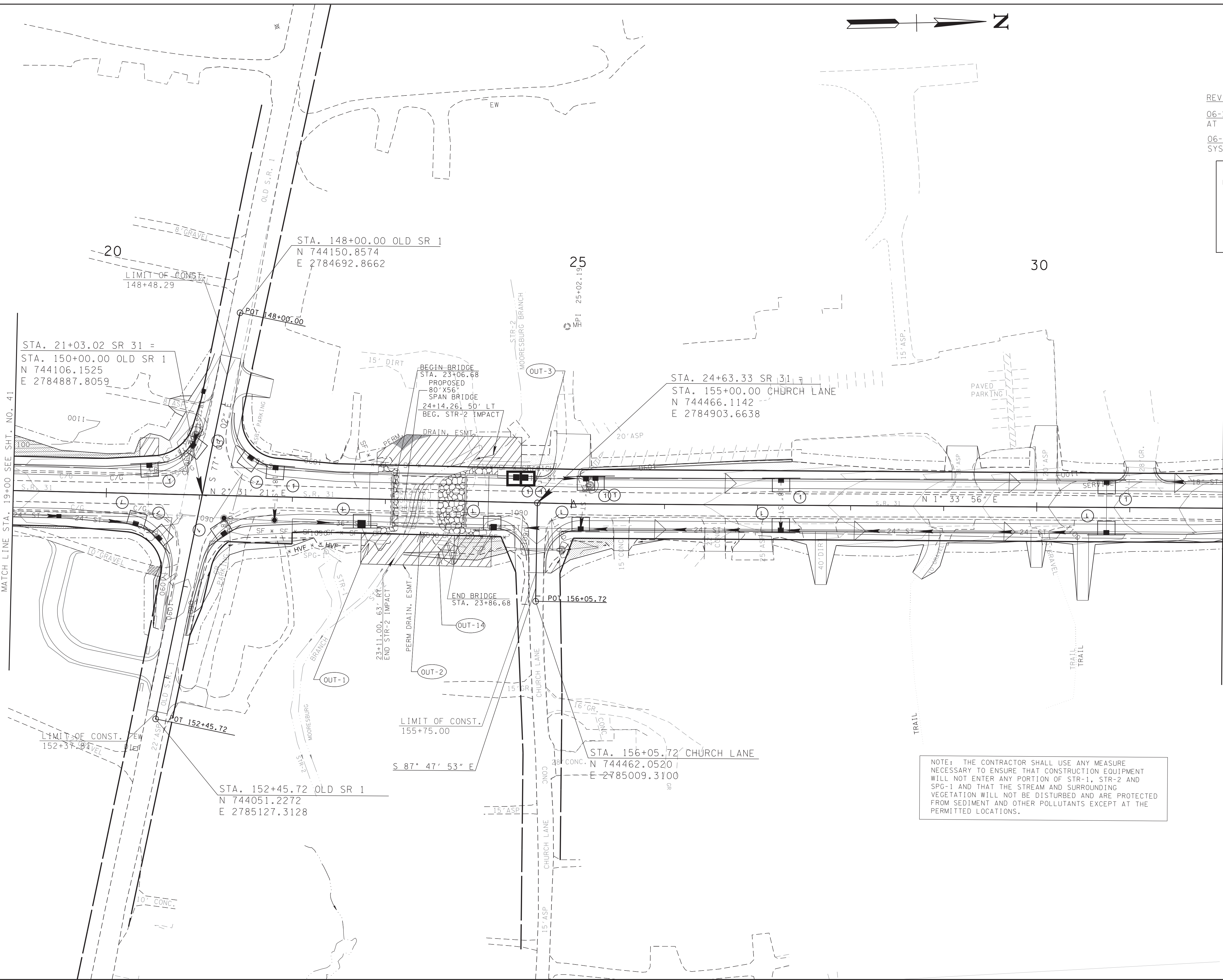
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION
AND SEDIMENT
CONTROL PLANS

STA. 19+00 TO STA. 32+00
SCALE: 1" =50'

NOTE: THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-1, STR-2 AND SPG-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.

OUTFALL INFORMATION							
OUTFALL NO.	STATION	OFFSET	LOCATION	DRAIN. AREA (AC)	SLOPE WITHIN ROW (%)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR NA)	RECEIVING NATURAL RESOURCE NAME OR LABEL
1	22+96.06	43.00' RT.	SR 31	15.45	6.50	YES	STR - 2
2	23+38.63	33.50' RT	SR 31	2.68	0.50	YES	STR - 2
3	24+60.54	21.67' LT	SR 31	1.21	1.80	YES	STR - 2
14	23+58.31	56.61' RT	SR 31	18.80	1.80	YES	STR - 2



NOTE: THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-1, STR-2 AND SPG-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.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	21J
P-I-H	2025	STP/HPP-31(12)	36F
PS & E	2026	STP/HPP-31(12)	41A

REVISION NOTES:
06-17-2024 REVISED STRUCTURE TYPE AT STR-2 CROSSING
06-15-2026 REVISED PROPOSED DRNG. SYSTEM.

LEGEND:

Proposed Contours:

Undisturbed Area:

Permanent Drainage Easement Area:

XXXX

MATCH LINE STA. 32+00 SEE SHT. NO. 41B

STAGE 3
FINAL
CONSTRUCTION

SEALED BY

06/15/2026

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 99.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

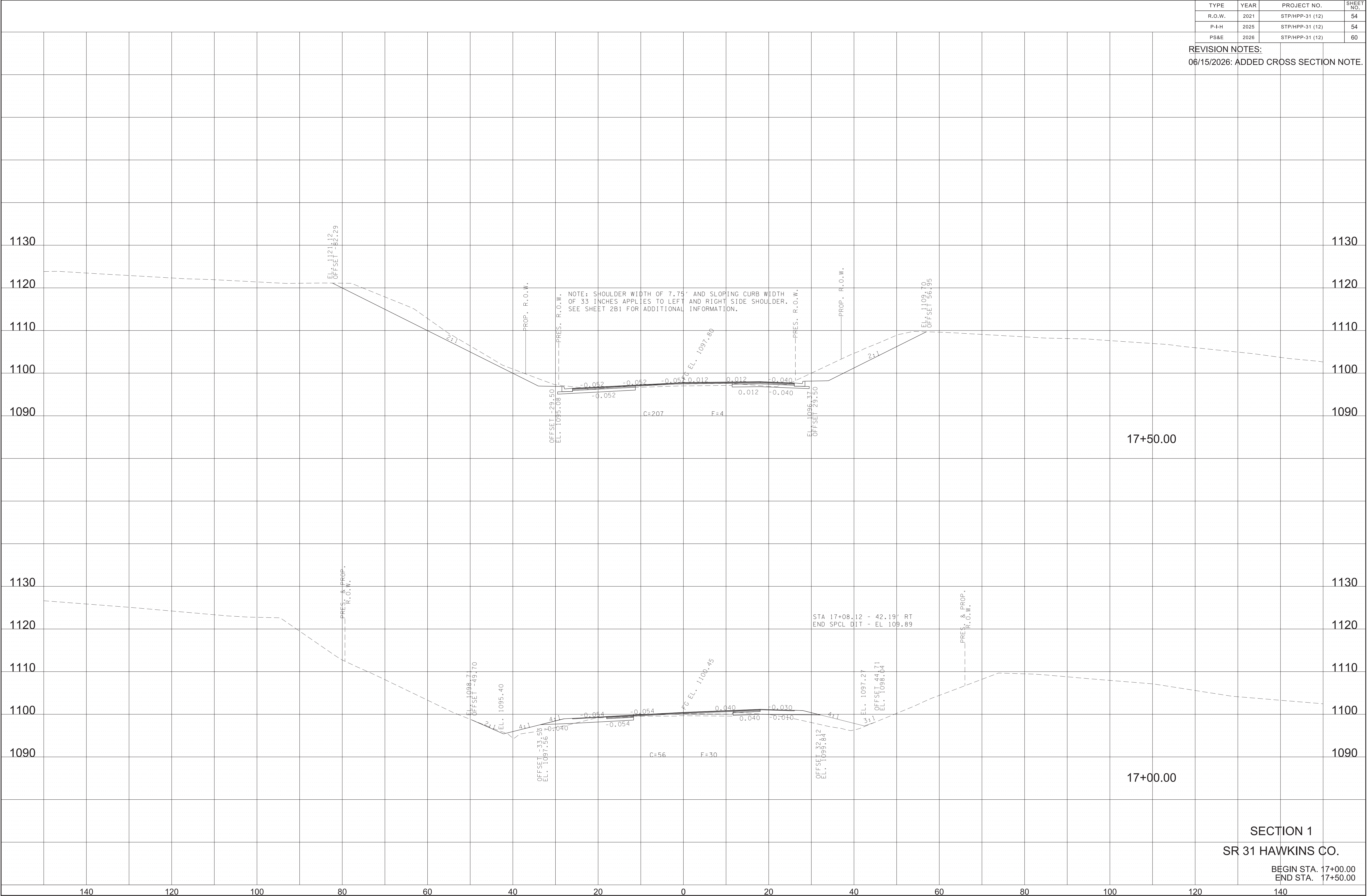
EROSION
PREVENTION
AND SEDIMENT
CONTROL PLANS
STA. 19+00 TO STA. 32+00
SCALE: 1"= 50'

6/16/2026 7:19:14 AM

V:\1785\active\178560004\Roadway\Base\Drawing\HKS\031_SEG1_XS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP/HPP-31 (12)	54
P-I-H	2025	STP/HPP-31 (12)	54
PS&E	2026	STP/HPP-31 (12)	60

REVISION NOTES:
06/15/2026: ADDED CROSS SECTION NOTE.

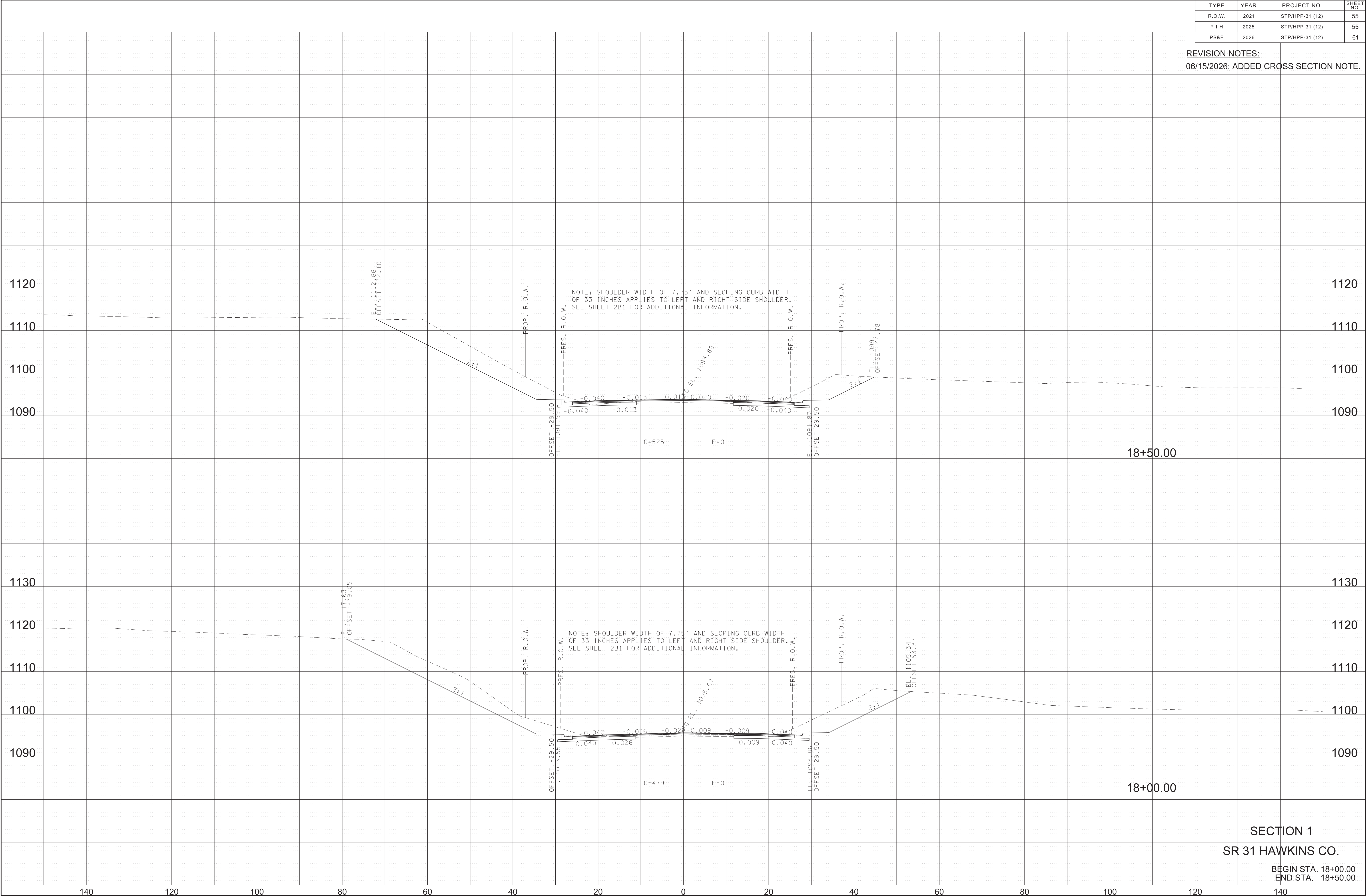


6/16/2026 7:19:24 AM

V:\1785\active\178560004\Roadway\Base\Drawing\HKS\031_SEG1_XS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP/HPP-31 (12)	55
P-I-H	2025	STP/HPP-31 (12)	55
PS&E	2026	STP/HPP-31 (12)	61

REVISION NOTES:
06/15/2026: ADDED CROSS SECTION NOTE.



SECTION 1
SR 31 HAWKINS CO.

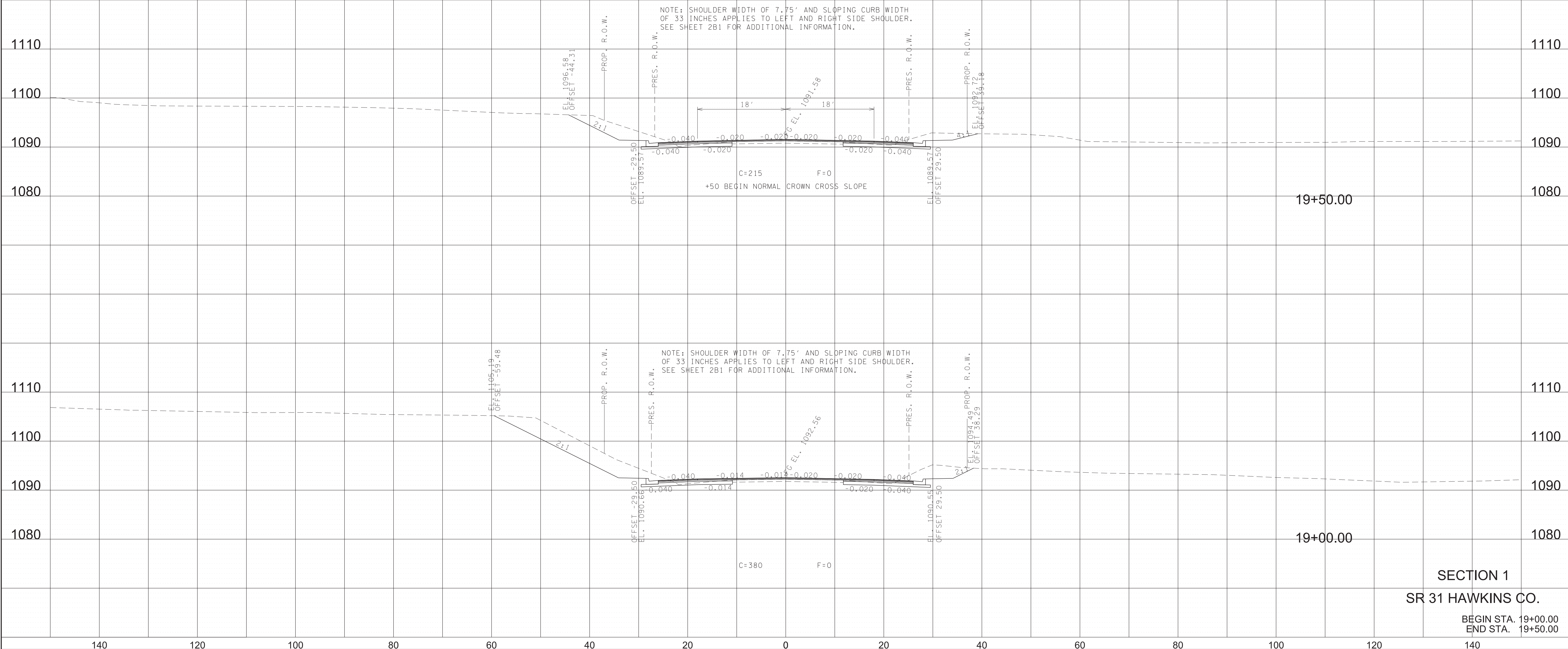
BEGIN STA. 18+00.00
END STA. 18+50.00

6/16/2026 7:19:34 AM

V:\1785\active\178560004\Roadway\Base\Drawing\HKSR031_SEG1_XS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP/HPP-31 (12)	56
P-I-H	2025	STP/HPP-31 (12)	56
PS&E	2026	STP/HPP-31 (12)	62

REVISION NOTES:
06/15/2026: ADDED CROSS SECTION NOTE.

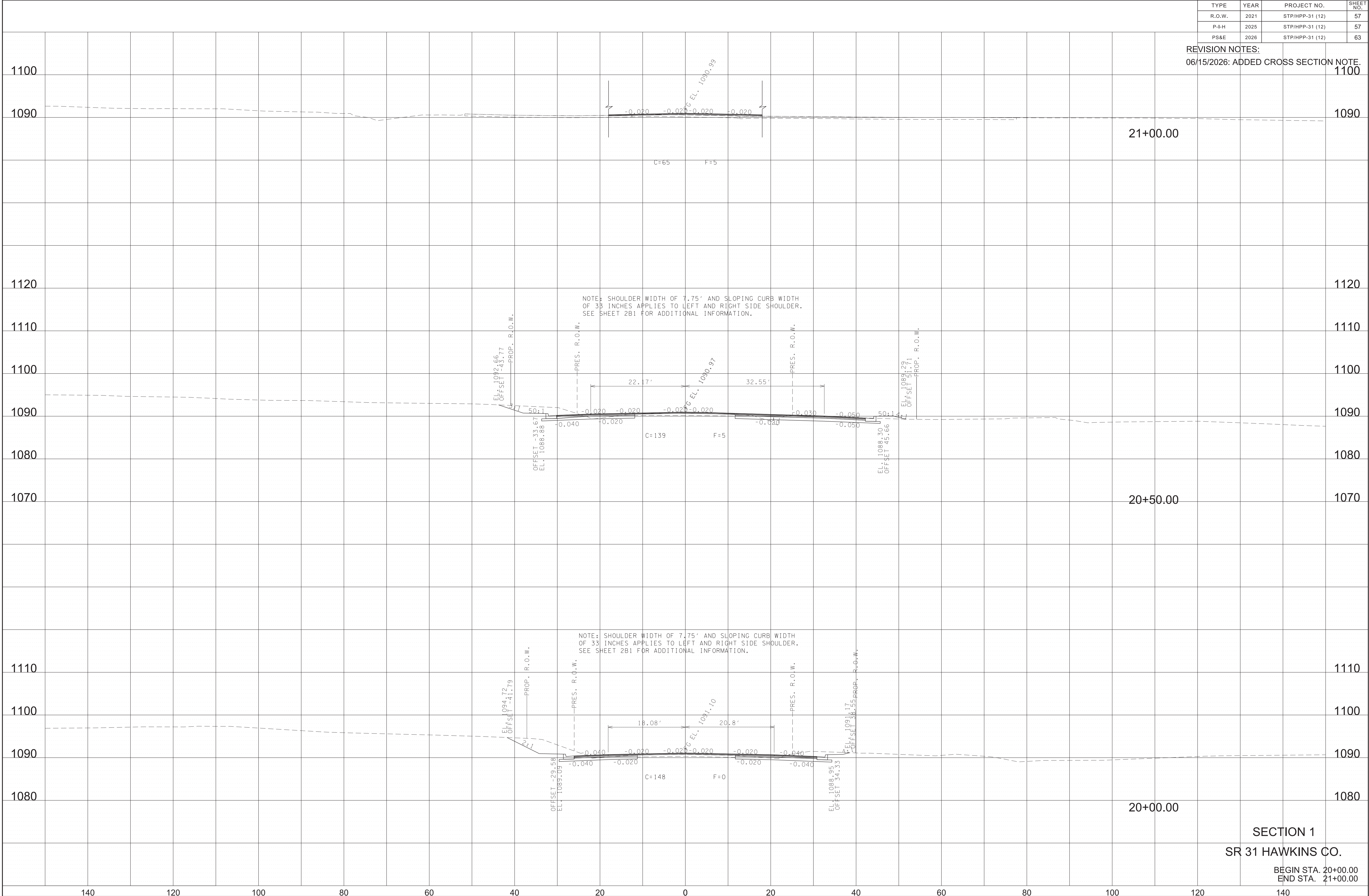


SECTION 1
SR 31 HAWKINS CO.
BEGIN STA. 19+00.00
END STA. 19+50.00

6/16/2026 7:19:43 AM
V:\1785\active\178560004\Roadway\Bse\Drawing\HKSR031_SEG1_XS.dgn

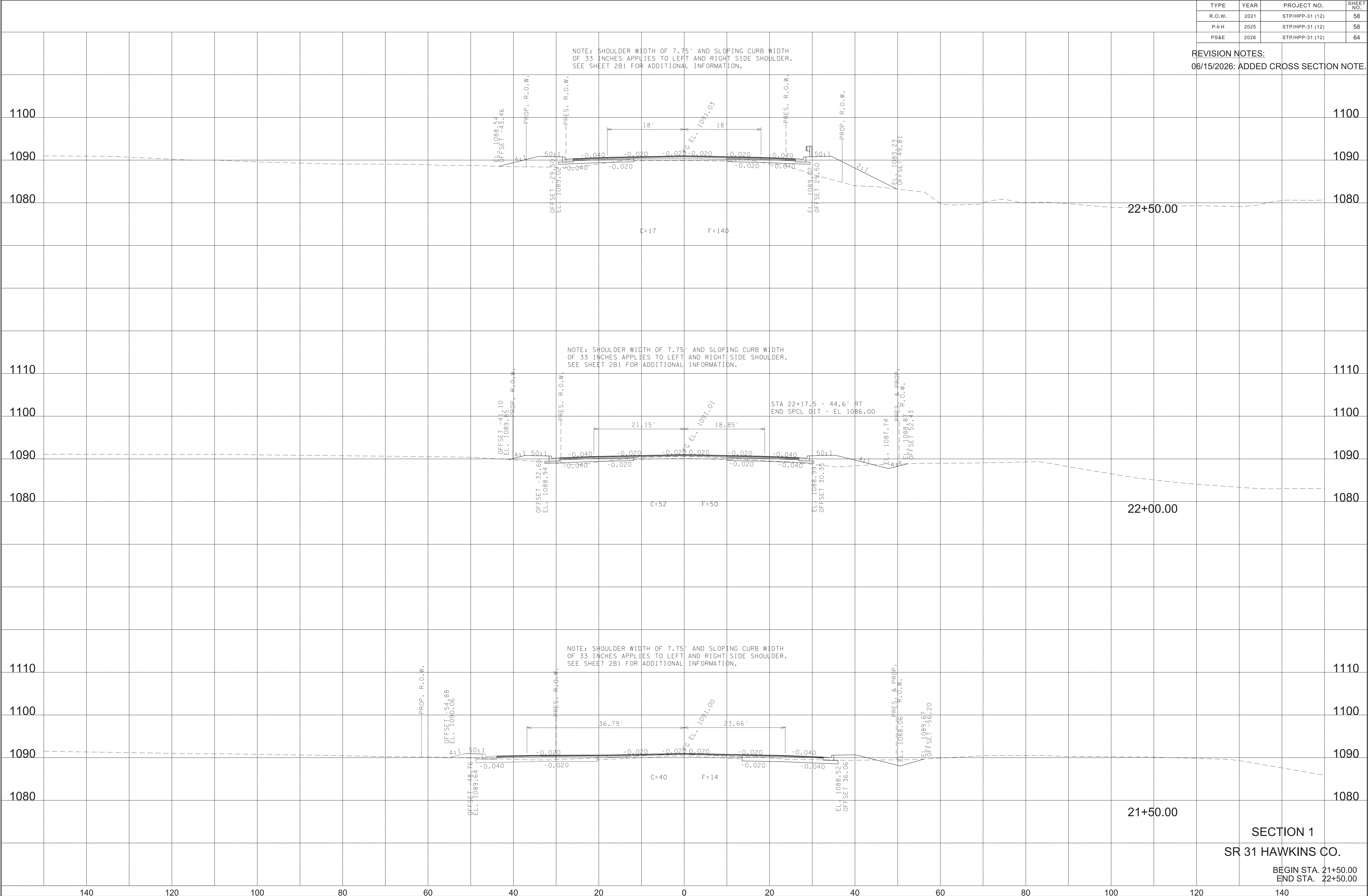
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP/HPP-31 (12)	57
P-I-H	2025	STP/HPP-31 (12)	57
PS&E	2026	STP/HPP-31 (12)	63

REVISION NOTES:
06/15/2026: ADDED CROSS SECTION NOTE.



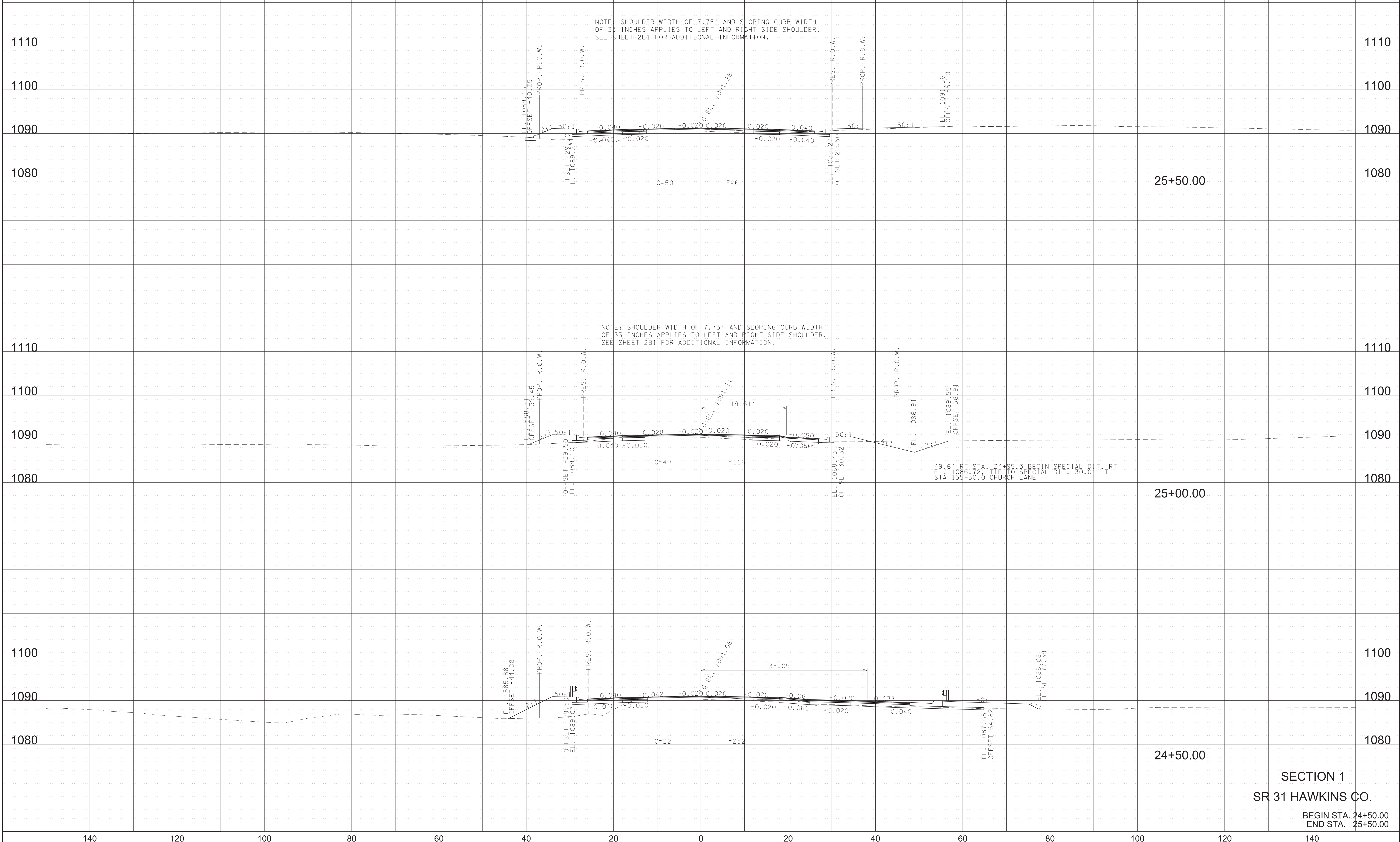
6/16/2026 7:19:52 AM

V:\1785\active\178560004\Roadway\Base\Drawing\HKS\031_SEG1_XS.dgn

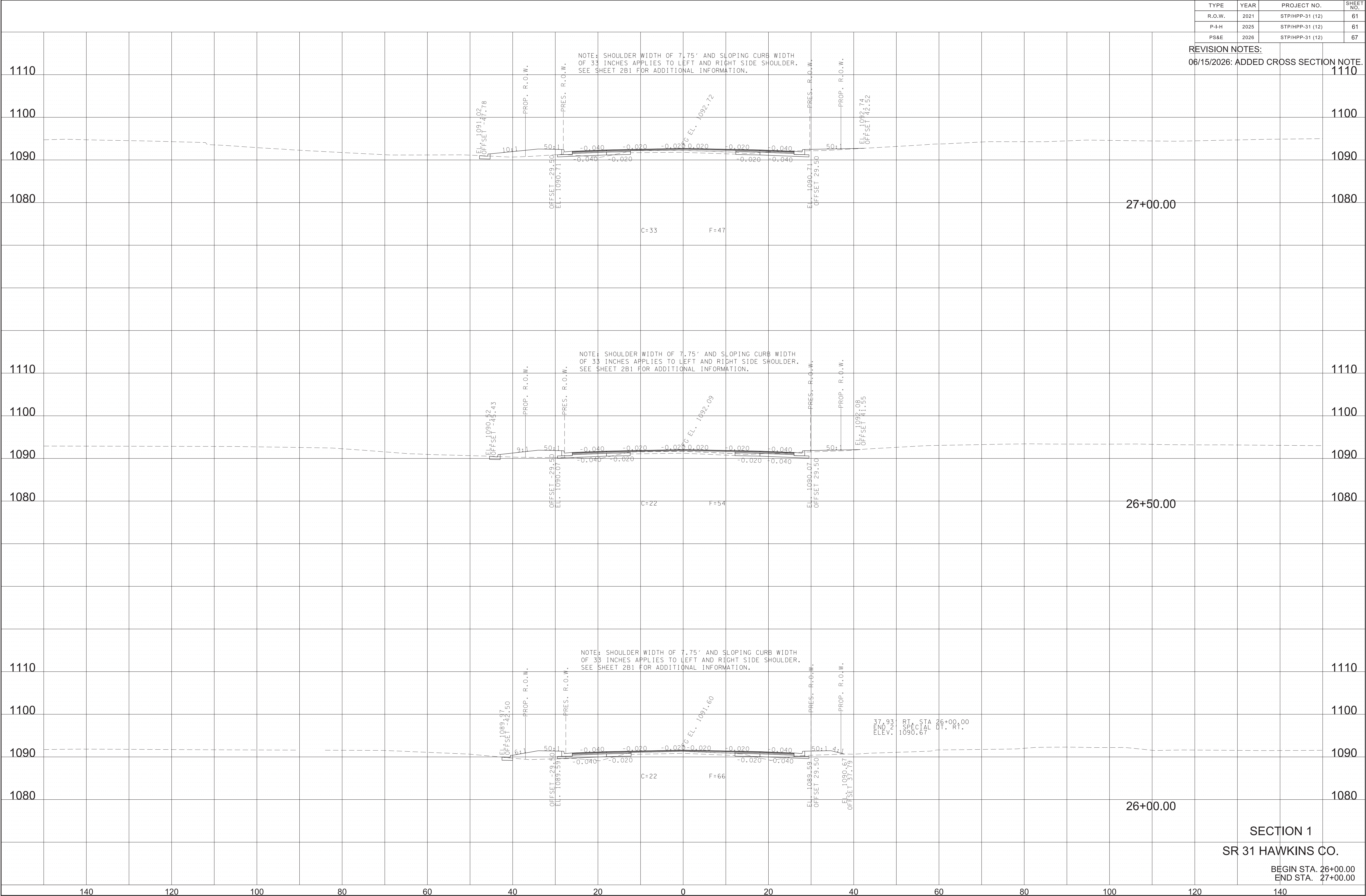


TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP/HPP-31 (12)	60
P-I-H	2025	STP/HPP-31 (12)	60
PS&E	2026	STP/HPP-31 (12)	66

REVISION NOTES:
06/15/2026: ADDED CROSS SECTION NOTE.



6/16/2026 7:20:21 AM
V:\1785\active\178560004\Roadway\Base\Drawing\HKSR031_SEG1_XS.dgn



REVISION NOTES:

6/15/2026: ADDED CROSS SECTION NOTE.

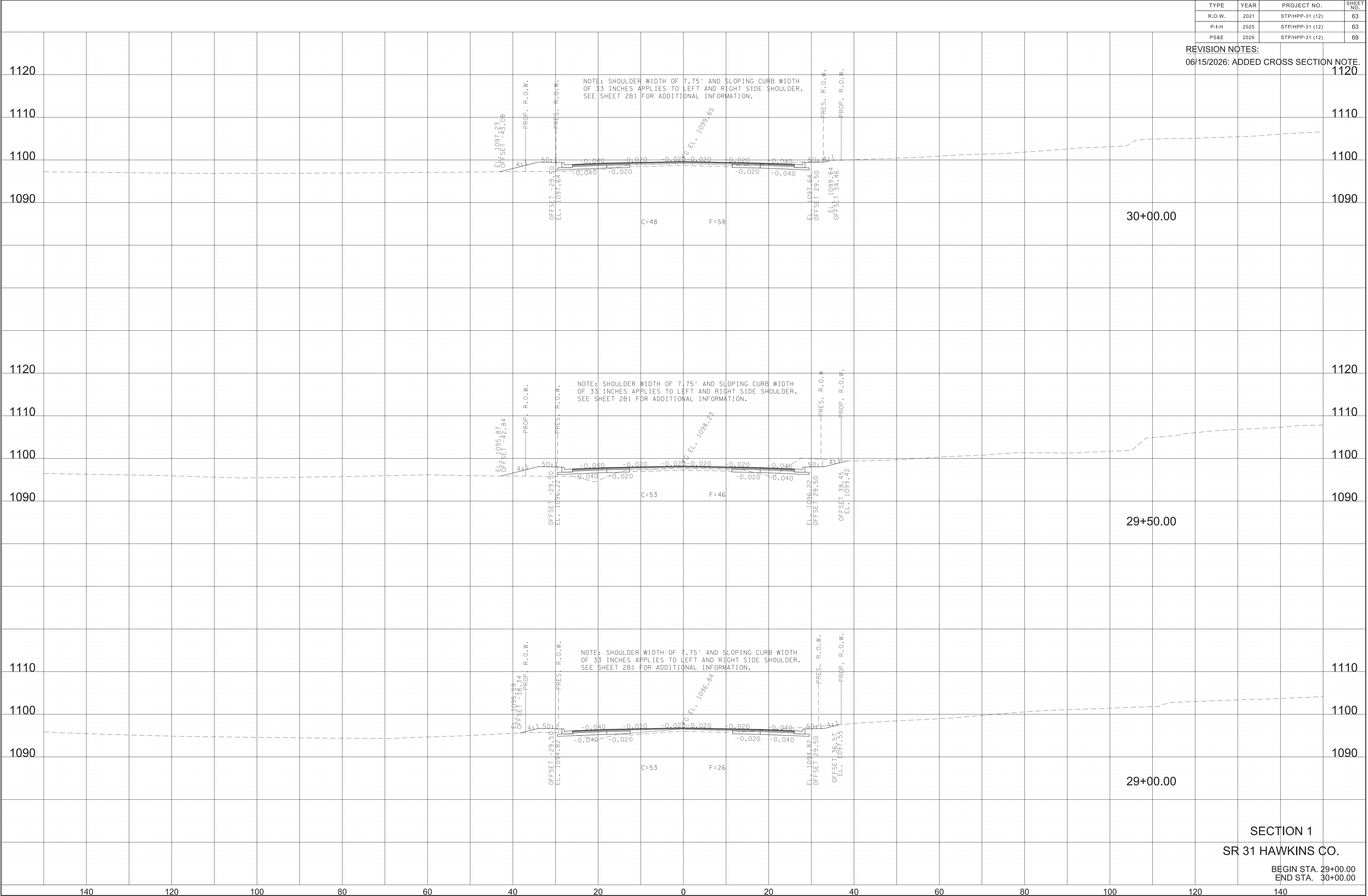


6/16/2026 7:20:41 AM

V:\1785\active\178560004\Roadway\Base\Drawing\HKS\031_SEG1_XS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP/HPP-31 (12)	63
P-I-H	2025	STP/HPP-31 (12)	63
PS&E	2026	STP/HPP-31 (12)	69

REVISION NOTES:
06/15/2026: ADDED CROSS SECTION NOTE.

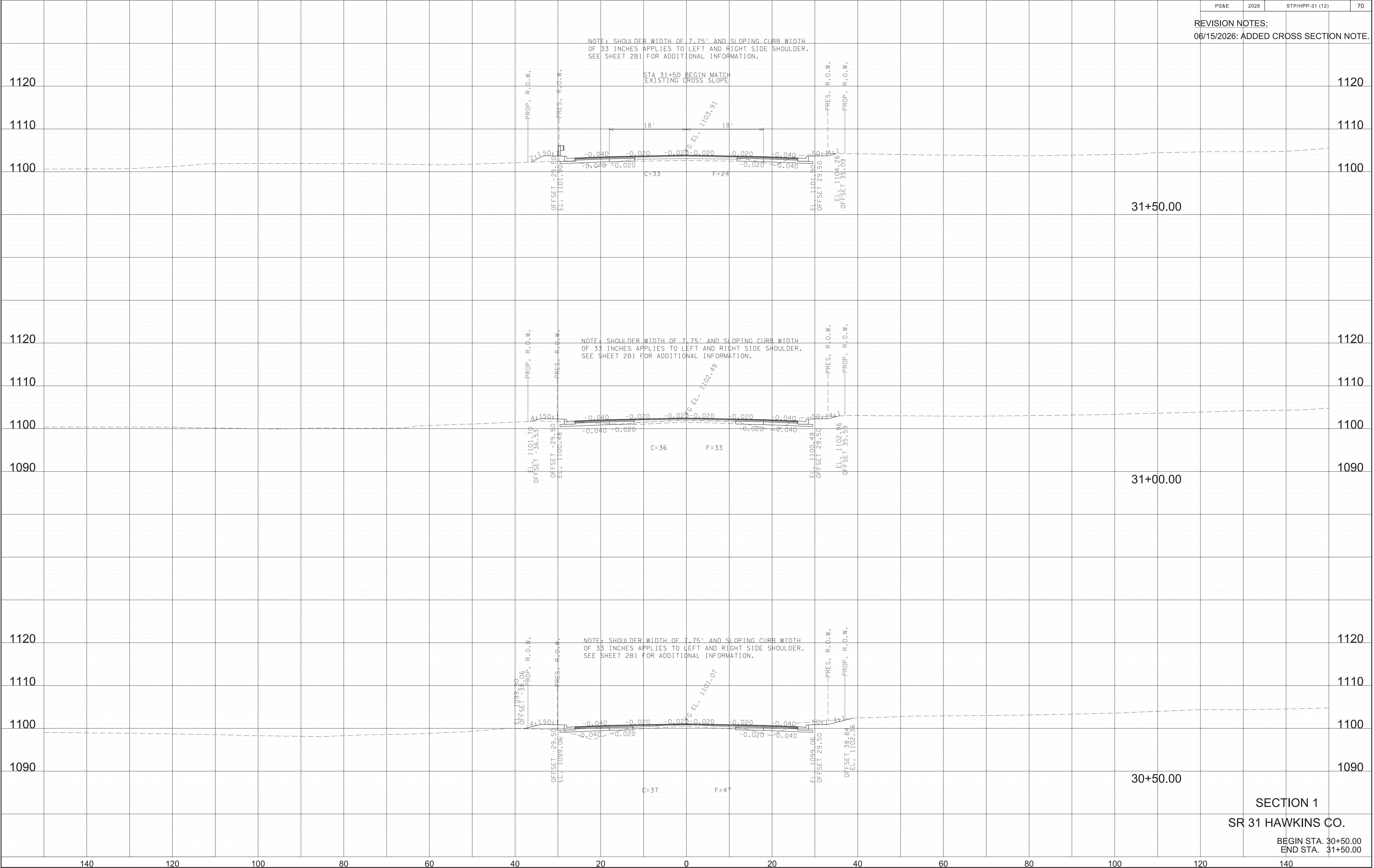


SECTION 1
SR 31 HAWKINS CO.
BEGIN STA. 29+00.00
END STA. 30+00.00

6/16/2026 7:20:50 AM
V:\1785\active\178560004\Roadway\Base\Drawing\HKSR031_SEG1_XS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP/HPP-31 (12)	64
P-I-H	2025	STP/HPP-31 (12)	64
PS&E	2026	STP/HPP-31 (12)	70

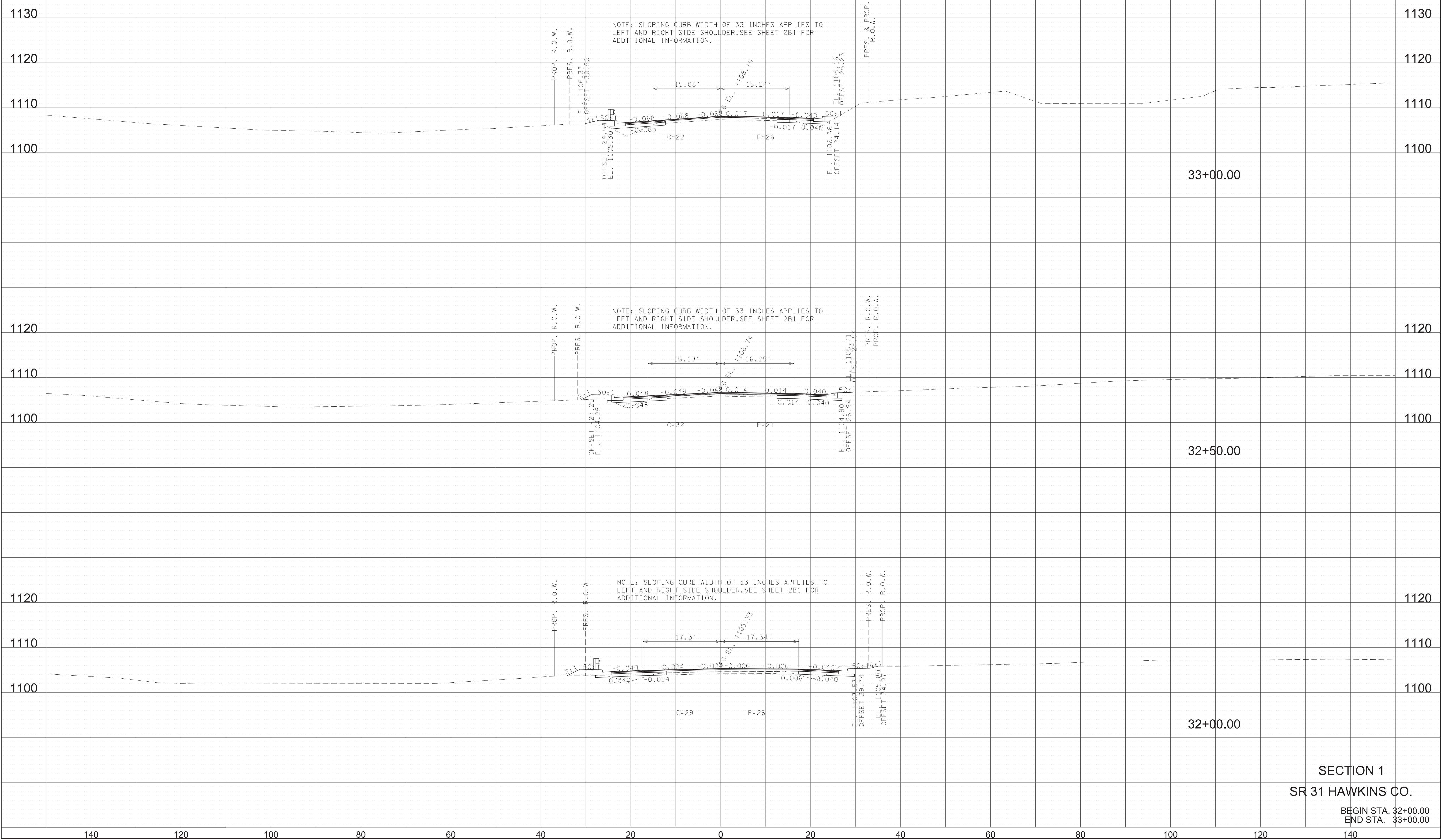
REVISION NOTES:
06/15/2026: ADDED CROSS SECTION NOTE.



6/16/2026 7:21:00 AM
V:\1785\active\178560004\Roadway\Base\Drawing\HKSR031_SEG1_XS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP/HPP-31 (12)	65
P-I-H	2025	STP/HPP-31 (12)	65
PS&E	2026	STP/HPP-31 (12)	71

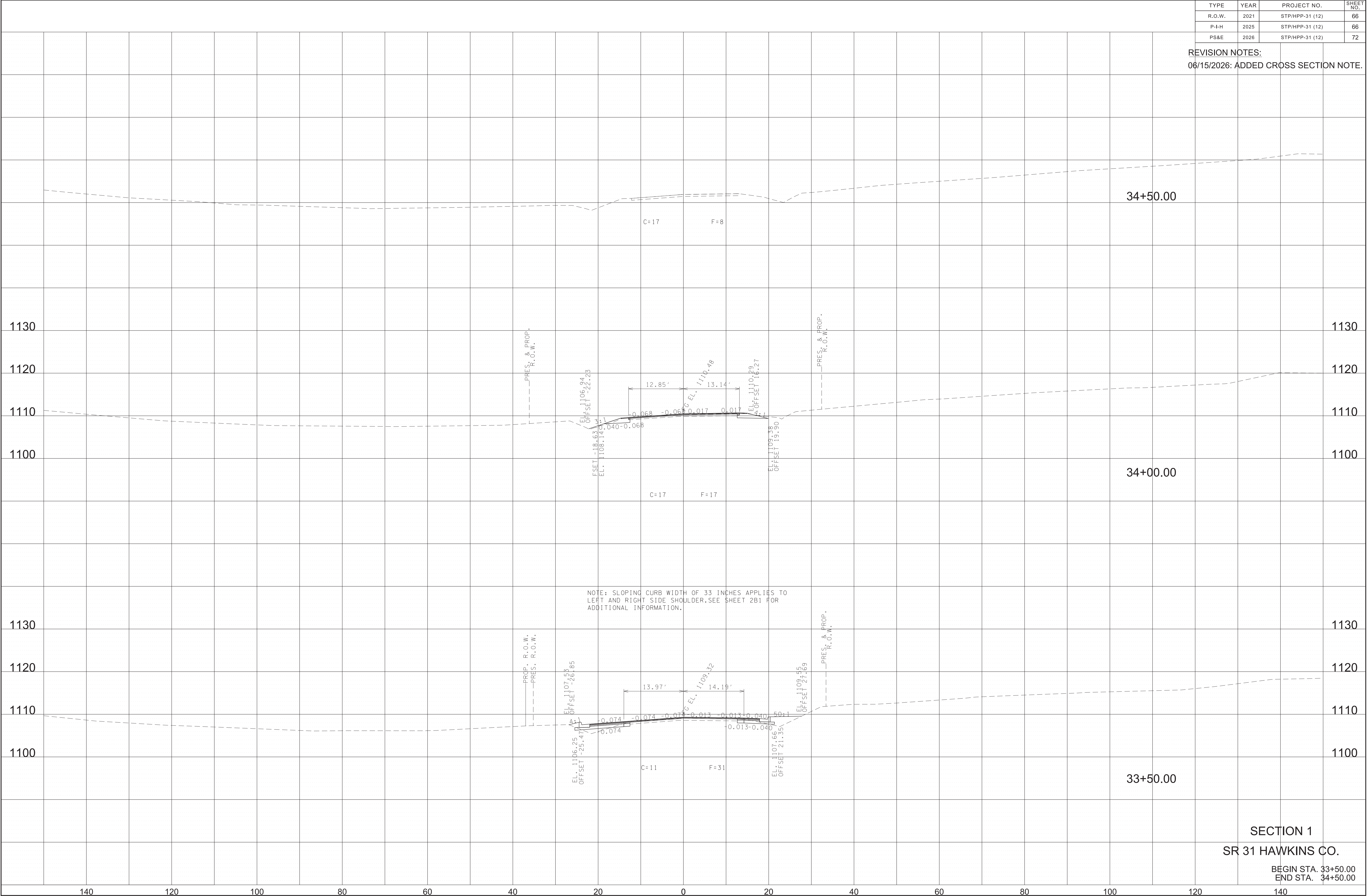
REVISION NOTES:
06/15/2026: ADDED CROSS SECTION NOTE.



6/16/2026 7:21:09 AM
V:\1785\active\178560004\Roadway\Base\Drawing\HKS\031_SEG1_XS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP/HPP-31 (12)	66
P-I-H	2025	STP/HPP-31 (12)	66
PS&E	2026	STP/HPP-31 (12)	72

REVISION NOTES:
06/15/2026: ADDED CROSS SECTION NOTE.



SECTION 1
SR 31 HAWKINS CO.
BEGIN STA. 33+50.00
END STA. 34+50.00

6/24/2026 5:20:45 PM
V:\1785\active\178560004\Roadway\Base\T1.sht

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. 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 INCHES, THE CONTRACTOR MAY USE WARNING SIGNS AND/OR PROTECTIVE DEVICES AS APPLICABLE AND APPROVED BY THE REGIONAL TRAFFIC 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 6 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 0.75 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.

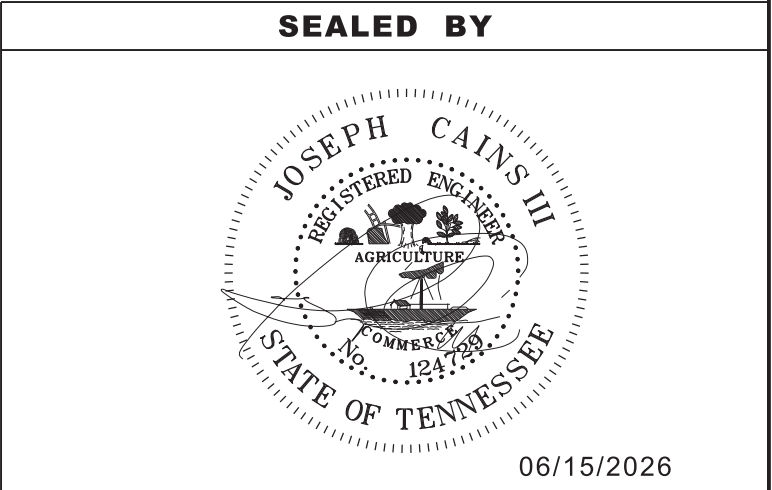
2.IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES:
a.SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:
(1)WHERE POSTED SPEEDS ARE 50 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.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	T1
PS & E	2026	STP/HPP-31(12)	T1

REVISION NOTE:

06/15/26 REMOVED AND MODIFIED NOTES;
REVISED SHEET TITLE



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC
CONTROL PLANS
(PAVEMENT EDGE
DROP-OFF
TRAFFIC CONTROL
NOTES)

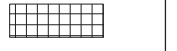
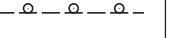
PHASING NOTES

DRAINAGE CONSTRUCTION PRE PHASE IA

1. CONSTRUCTION OF CROSS DRAIN AT STA. 236+56.2 TO BE CONSTRUCTED BEFORE PHASE I CONSTRUCTION BEGINS.
2. USE SINGLE LANE TWO WAY DIVERSION IN A TWO PHASE SEQUENCE OF CONSTRUCTION FOR CROSS DRAIN BEGINNING ON DOWNSTREAM END.
3. PLACE ANCHORED PORTABLE CONCRETE BARRIER IN THE CONFIGURATION SHOWN WITH CHANNELIZING DEVICES, STOP BARS, SIGNS, AND PORTABLE WIRELESS SIGNALS TO ESTABLISH A SINGLE LANE TWO-WAY DIVERSION AS SHOWN IN PLANS.
4. CONSTRUCT DOWNSTREAM PORTION OF CROSS DRAIN UP TO WITHIN 6 INCHES OF THE BACK OF THE PORTABLE CONCRETE BARRIER. A SUMP AND PUMP SYSTEM WILL COLLECT ANY RUNOFF AND CONVEY IT THROUGH CROSS DRAIN TO THE DOWNSTREAM SIDE OF THE CROSS DRAIN CONSTRUCTION.
5. WHEN THE CONSTRUCTION OF THE DOWNSTREAM PORTION OF CROSS DRAIN IS COMPLETE, SHIFT TRAFFIC ONTO FINISHED ROADWAY AND REVERSE ANCHORED PORTABLE CONCRETE AND CHANNELIZING DEVICES TO PROVIDE WORK ZONE FOR REMAINING PORTION OF CROSS DRAIN AS SHOWN IN TYPICAL SECTION.
6. COMPLETE CONSTRUCTION OF CROSS DRAIN AND REMOVE PORTABLE CONCRETE BARRIER, CHANNELIZING DEVICES, SIGNS, AND PORTABLE SIGNALS. OPEN COMPLETED CROSS DRAIN TO TRAFFIC AND INITIATE SEGMENT 3 PHASE I TTCP.

SECTION 1

- PHASE 1
1. REDUCE LANES TO 10 FEET AND SHIFT LANES WITHIN EXISTING PAVEMENT LIMITS. PLACE CHANNELIZING DEVICES AT 30' SPACING ON BOTH SIDES. CONSTRUCT WIDENING ON BOTH SIDES. LIMIT LENGTH OF LINEAR SEGMENTS OF ROADWAY CONSTRUCTION SO THAT EXCAVATED AREAS ADJACENT TO EXISTING PAVEMENT CAN BE BACK FILLED TO EXISTING GRADE AT THE END OF DAILY WORK PERIOD.
- 2.CONSTRUCT WIDENING AND ASSOCIATED DRAINAGE FACILITIES ON BOTH SIDES. CONSTRUCT ENTRANCE TO PETTY LANE WITH CLOSURE TO PETTY LANE AND DETOUR THROUGH JARNIGAN ROAD. WORK ON PETTY LANE MUST BE COMPLETED PRIOR TO STARTING CONSTRUCTION ON JARNIGAN ROAD. CONSTRUCT CUL-DE-SAC ON JARNIGAN ROAD. CLOSE PORTION OF JARNIGAN ROAD TO COMPLETE CONSTRUCTION THROUGH PETTY LANE. MAINTAIN ACCESS TO PROPERTIES DURING CONSTRUCTION.
3. CONSTRUCT PAVEMENT TO BOTTOM OF FRICTION COURSE AND INSTALL GUARDRAIL AS REQUIRED. EDGES OF PAVEMENT SHALL RECEIVE SAFETY WEDGE TO AVOID DROP OFF CONDITIONS.
4. SHIFT TRAFFIC TO RIGHT ON EXISTING BRIDGE CULVERT USING SINGLE LANE 12 FOOT WIDE LANE. MOUNT WEAK POST GUARDRAIL ON RIGHT SIDE OF BRIDGE CULVERT HEADWALL WITH TYPE 21 TERMINALS. MOUNT GUARDRAIL TO DECK OF EXISTING CULVERT AND CONNECT TO TYPE 21 TERMINALS. REMOVE WESTERN PORTION OF CULVERT AND BUILD FIRST PHASE OF PROPOSED BRIDGE OVER MOORESBURG BRANCH TO PROVIDE 2 LANES OF TRAFFIC OVER BRIDGE. MOUNT STIFFENED PORTABLE CONCRETE BARRIER ALONG RIGHT EDGE OF PROPOSEDBRIDGE DECK WITH ADJOINING ANCHORED PORTABLE CONCRETE BARRIER SEGMENTS AND ATTENUATORS.
- PHASE 2
1. SHIFT TRAFFIC TO OUTER LIMITS OF WIDENED SHOULDER PAVEMENT AND PLACE CHANNELIZING DEVICES.
2. CONSTRUCT ROADWAY OVER EXISTING PAVEMENT THAT HAS BEEN COLD PLANED. PROVIDE TEMPORARY CROSSEOVERS AS NEEDED FOR PROPERTY ACCESS.
3. SUBSTANTIALLY COMPLETE PROPOSED BRIDGE CONSTRUCTION OVER MOORESBURG BRANCH.
4. CONSTRUCT PAVEMENT TO BOTTOM OF FRICTION COURSE AND INSTALL GUARDRAIL AS REQUIRED. PROVIDE SAFETY EDGES OF PAVEMENT LAYER 3 TO AVOID DROP OFF CONDITIONS.
- PHASE 3
1. USING THE PAVED SHOULDER SHIFT TRAFFIC LEFT TO 2-11 FOOT LANES WITH A 2-FOOT OFFSET FROM CENTERLINE. PAVE RIGHT SIDE OF ROADWAY WITH FRICTION COURSE. AT TAPERS USE SINGLE LANE CLOSURES WITH FLAGGERS USING MUTCD TYPICAL APPLICATION 10 (FLAGGER OPERATION) TO COMPLETE PAVING ON RIGHT SIDE TO CENTERLINE.
2. REVERSE TRAFFIC, SHIFT TO THE RIGHT SIDE OF ROADWAY WITH TRAFFIC CONES TO CHANNELIZE TRAFFIC LANES AND USING FLAGGERS WITH MUTCD TYPICAL APPLICATION 10 (FLAGGER OPERATION) FOR TAPER PAVING. PAVE LEFT SIDE OF ROADWAY WITH FRICTION COURSE.
3. SPLIT TRAFFIC ONTO SHOULDERS NB AND SB AND PLACE STRIPING FOR CENTER TWO-WAY LEFT TURN LANE. SHIFT TRAFFIC TO TRAFFIC LANE AND CENTER LANE TO PLACE EDGE LINES. REMOVE CHANNELIZING DEVICES AND TRAFFIC CONTROL SIGNS. OPEN TO TRAFFIC.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE AREA
	FLEXIBLE DRUM (CHANNELIZING)
	TEMPORARY PAVEMENT
	TRAFFIC DIRECTION ARROWS
	TEMPORARY TRAFFIC CONTROL SIGN
	MOBILE WIRELESS SIGNAL TRAILER
	TEMPORARY GUARDRAIL
	TEMPORARY BARRICADE (TYPE III)
	WARNING FLAGS (ON SIGN)
	ATTENUATOR

SECTION 2

- PHASE 1
1. PLACE ADVANCE SIGNING ACCORDING TO T-WZ-10 AND POSITION CHANNELIZING DEVICES AT 30 FOOT SPACING WITH REMOVABLE TAPE TO TRANSITION THE EXISTING LANES TO 11-FOOT-WIDE TRAVEL LANES WITHIN THE WORK ZONE AND CENTERED ON THE EXISTING CENTERLINE. MAINTAIN ACCESS TO SIDE STREETS AND DRIVEWAYS.
2. COMPLETE WIDENING AND MILLING & RESURFACING ON HELTON LANE USING FLAGGERS AND SINGLE LANE CLOSURES. PLACE FINAL STRIPPING ON HELTON LANE UP TO SR 31.
- PHASE 2
1. PLACE TEMPORARY PAVEMENT ON OUTSIDE PROPOSED SHOULDERS SUFFICIENT TO PROVIDE 11' WIDE TRAVEL LANES FOR PHASE 2.
2. CONSTRUCT THE IMPROVEMENTS ON THE INSIDE OF THE TCP TRAVEL LANES UP TO THE FINAL SURFACE COURSE OF PAVEMENT. AVOID DROP-OFF CONDITIONS BY BACK FILLING NEXT TO EXISTING PAVEMENT AT THE END OF EACH WORK PERIOD WITH SAFETY WEDGE.
3. COMPLETE FINAL GRADING AND ROADSIDE FEATURES OUTSIDE THE TEMPORARY TRAVEL LANES ACCORDING TO THE PLANS.

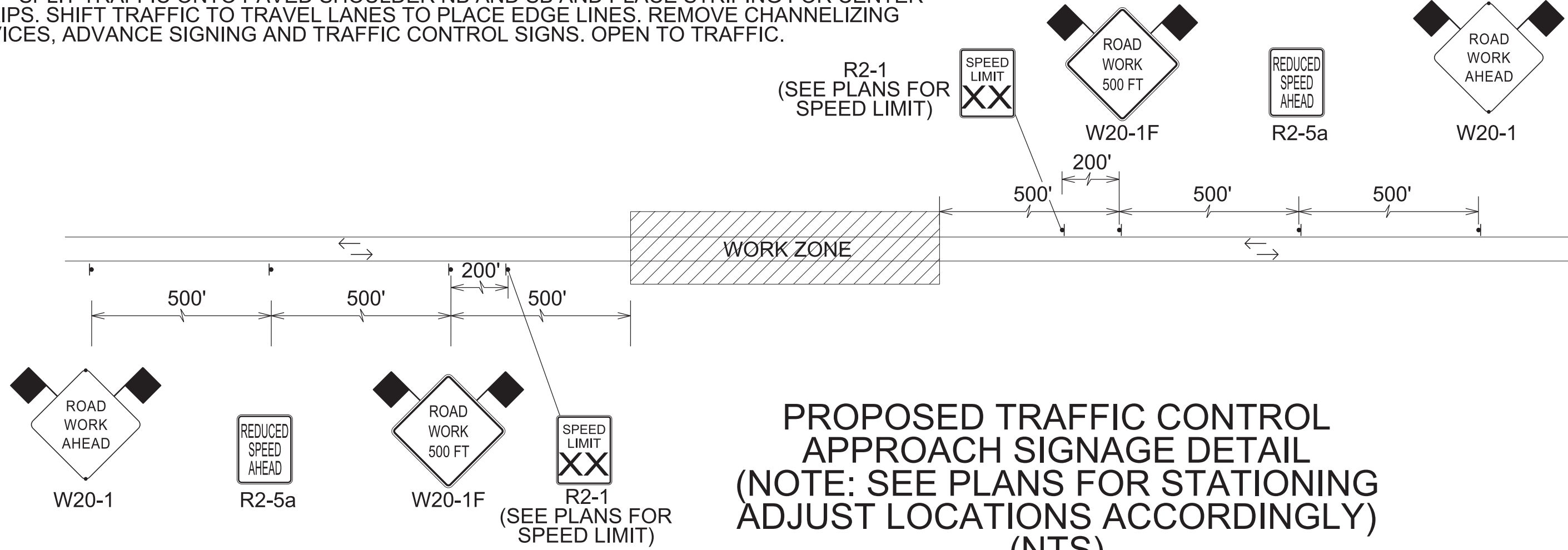
- PHASE 3
1. USING THE PAVED SHOULDER AND TEMPORARY PAVEMENT, SHIFT TRAFFIC RIGHT TO 2-11 FOOT TRAVEL LANES WITH 1-FOOT OFFSET FROM OUTSIDE EDGE OF SHOULDER AND A 1-FOOT OFFSET FROM THE CENTERLINE. PAVE LEFT SIDE OF ROADWAY WITH FRICTION COURSE. AT TAPERS USE SINGLE LANE CLOSURES WITH FLAGGERS USING MUTCD TYPICAL APPLICATION 10 (FLAGGER OPERATION) TO COMPLETE PAVING ON THE LEFT SIDE TO CENTERLINE.
2. REVERSE TRAFFIC SHIFT TO LEFT SIDE OF ROADWAY WITH TRAFFIC CONES TO CHANNELIZE TRAFFIC INTO 2-10 FOOT TRAVEL LANES AND USING FLAGGERS WITH MUTCD TYPICAL APPLICATION 10 (FLAGGER OPERATION)FOR TAPER AREAS. PAVE FRICTION COURSE ON RIGHT SIDE.
3. SPLIT TRAFFIC ONTO PAVED SHOULDERS NB AND SB AND PLACE STRIPING FOR CENTER TWO-WAY LEFT TURN LANE. SHIFT TRAFFIC TO TRAVEL LANE AND CENTER LANE TO PLACE EDGE LINES LEFT AND RIGHT. REMOVE TEMPORARY PAVEMENT AND RESTORE ROADSIDE WITH FINAL GRADING AND SOD. REMOVE CHANNELIZING DEVICES AND TRAFFIC CONTROL SIGNS. OPEN TO TRAFFIC.

SECTION 3

- PHASE 1B
1. INSTALL ADVANCE SIGNING AND SHIFT TRAFFIC LEFT WITHIN EXISTING PAVEMENT USING 2-11' WIDE LANES.
2. IN ALIGNMENT OVERLAP AREAS SHIFT TRAFFIC LEFT WITHIN EXISTING PAVEMENT USING 2-10' WIDE LANES WITH A 200' TRANSITION.
3. USE CHANNELIZING DEVICES AT 30' SPACING ALONG NB & SB TRAVEL LANES. USE 6" DOUBLE YELLOW CENTER STRIP AND 6" WHITE STRIP ON RIGHT SIDE OF NB TRAVEL LANE.
4. MAINTAIN TRAFFIC ON CARPENTER ROAD.
5. MAINTAIN SHOULDER SURFACES AT END OF WORK PERIOD TO AVOID DROP OFFS.
6. MAINTAIN ACCESS TO DRIVEWAYS.
7. USE HAUL ROADS TO CONSTRUCT NEW BRIDGE AND ROADWAY APPROACHES ON NEW ALIGNMENT AND PROFILE.
- PHASE 2
1. MAINTAIN ADVANCE SIGNING.
2. DIVERT TRAFFIC TO NEW ALIGNMENT OVER NEW BRIDGE USING CHANNELIZING DEVICES AND PROPOSED STRIPING.
3. USE HAUL ROADS TO REMOVE EXISTING BRIDGE AND ROAD BED AS REQUIRED AND REGRADE FOR FINAL DRESSING.
4. MAINTAIN ACCESS TO EXISTING ROADS AND DRIVEWAYS.

PHASE 3

1. USING PAVED SHOULDERS, SHIFT TRAFFIC LEFT TO 2-10 TRAVEL LANES WITH 1-FOOT OFFSET FROM OUTSIDE EDGE OF SHOULDER AND A 1-FOOT OFFSET FROM CENTERLINE. PAVE RIGHT SIDE OF ROADWAY WITH FRICTION COURSE.
2. REVERSE TRAFFIC SHIFT TO RIGHT SIDE OF ROADWAY WITH TRAFFIC CONES TO CHANNELIZE TRAFFIC LANES. PAVE LEFT SIDE OF ROADWAY WITH FRICTION COURSE.
3. SPLIT TRAFFIC ONTO PAVED SHOULDER NB AND SB AND PLACE STRIPING FOR CENTER STRIPS. SHIFT TRAFFIC TO TRAVEL LANES TO PLACE EDGE LINES. REMOVE CHANNELIZING DEVICES, ADVANCE SIGNING AND TRAFFIC CONTROL SIGNS. OPEN TO TRAFFIC.

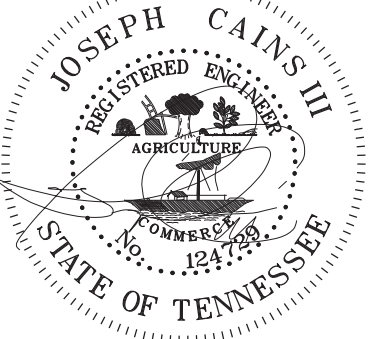


TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	T2
PS & E	2026	STP/HPP-31(12)	T2

REVISION NOTE:

06/15/26 RENUMBERED SHEET AND REVISED PHASING NOTES, LEGEND, AND SHEET TITLE

SEALED BY



06/15/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS
(TRAFFIC PHASING NOTES, LEGEND AND TABULATION)

6/24/2026 5:20:55 PM
V:\1785\active\178560004\Roadway\Base\T2A.sht

TRAFFIC CONTROL SIGN TABULATION											
M.U.T.C.D. SIGN NO. OR TDOT	LEGEND	SIZE IN INCHES L X W	S.F.	NO. REQUIRED SECT. 3 CULVERT	NO. REQUIRED PHASE I	NO. REQUIRED PHASE II	NO. REQUIRED PHASE III	TOTAL NO. REQUIRED	ITEM NO. 712-06 S.F.	STANDARD DRAWING NO.	REMARKS
M4-9L	DETOUR	24" x 30"	5	0	1	0	0	1	5		SEE MUTCD FOR MORE INFORMATION
G20-2	END ROADWORK	18" x 36"	4.5	3	15	13	7	38	171		
R1-1	STOP SIGN	24" x 24"	4	0	0	3	0	3	12		
R2-1	SPEED LIMIT (35 MPH)	24" x 30"	5	0	2	1	2	5	25		
R2-1	SPEED LIMIT (45 MPH)	24" x 30"	5	0	4	4	5	13	65		
R2-5a	REDUCE SPEED AHEAD	24" x 30"	5	0	6	5	5	16	80		
R4-7	KEEP RIGHT (SYMBOL)	24" x 30"	5	2	0	5	0	7	35		
R10-6	STOP HERE ON RED	24" x 30"	5	2	2	0	0	4	20	T-WZ-32	
R11-2	ROAD CLOSED	30" x 48"	10	0	1	2	0	3	30		
W1-4	REVERSE CURVE	30" x 30"	6.25	4	2	0	0	6	38	T-WZ-32	
W3-3	SIGNAL AHEAD	36" x 36"	9	2	2	2	0	6	54	T-WZ-32	
W3-4	BE PREPARED TO STOP	36" x 36"	9	4	2	0	0	6	54	T-WZ-32	
W5-1	NARROW ROAD	36" x 36"	9	0	0	1	0	1	9		
W5-2	NARROW BRIDGE	36" x 36"	9	0	2	0	0	2	18		
W20-1	ROAD WORK AHEAD	48" x 48"	16	1	12	13	5	30	496		
W20-1F	ROAD WORK (500FT)	36" x 36"	9	2	5	5	5	17	153	T-WZ-32	
W20-1F	ROAD WORK (1000FT)	36" x 36"	9	0	4	4	4	12	108	T-WZ-10	
W20-1M	ROAD WORK (1 MILE)	48" x 48"	16	2	4	4	4	14	224	T-WZ-10	
W20-1M	ROAD WORK (1/2 MILE)	48" x 48"	16	2	4	4	4	14	224	T-WZ-10	
W20-4	ONE LANE ROAD AHEAD (1500 FT)	36" x 36"	9	2	2	4	5	9	117	T-WZ-32	
W20-7	FLAGGER (SYMBOL)	36" x 36"	9	0	0	4	0	4	36		
W21-5aR	RIGHT SHOULDER CLOSED	36" x 36"	9	0	3	0	0	3	27		
SPEC1	MAXIMUM X MINUTE RED	24" x 30"	5	2	2	0	0	4	20	T-WZ-32	
SPEC2	MAINTAIN XX MPH SPEED	18" x 24"	3	4	2	0	0	6	18	T-WZ-32	
								DETOUR	192.0	S.F.	
								TOTAL	2177	S.F.	

TRAFFIC CONTROL QUANTITIES								
PAY ITEM	DESCRIPTION	UNITS	NO. REQUIRED SECT. 3 CULVERT	NO. REQUIRED PHASE I	NO. REQUIRED PHASE II	NO. REQUIRED PHASE III	TOTAL NO. REQUIRED	REMARKS
303-01	MINERAL AGGREGATE, TYPE A BASE	TON		304			304	
307-01.08	ASPHALT CONCRETE MIX (PG 64-22) (BPMB-HM) GRADING B-M2	TON		225			225	
705-01.04	METAL BEAM GUARD FENCE	LF		39			39	
705-06.01	W BEAM GR (TYPE 2) MASH TL3	LF		219	113		332	
705-06.09	WEAK POST GUARDRAIL ATTACHMENT TO CULVERT (MASH TL-3)(TYPE 4)	LF		38			38	
712-01	TRAFFIC CONTROL	LS					1	
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	LF	260		250		510	
712-02.10	PORTABLE BARRIER RAIL (MASH TL-3)	LF			220		220	
712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EA	2		2		4	
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EA	28	479	534	192	1233	INCLUDE ALL SECTIONS PER PHASE
712-05.01	WARNING LIGHTS (TYPE A)	EA		12	0		12	
712-05.03	WARNING LIGHTS (TYPE C)	EA		16	33		49	
712-06	SIGNS (CONSTRUCTION)	SF	215	663	682	425	2177	INCLUDES 192 S.F. DETOUR SIGNS
712-07.03	TEMPORARY BARRICADES (TYPE III)	LF	20	20	120		160	
716-01.07	TEMPORARY RAISED PAVEMENT MARKERS, YELLOW	EA		547	198	257	1002	
716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	LF		99	50	155	304	
716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	LM		4.3	5.0	3.8	13.1	BLACKOUT TAPE IS OPTIONAL
730-40.01	PORTABLE TRAFFIC SIGNAL SYSTEM	LS	3	7	0		10	QUANTITY PER PHASE

TRAFFIC CONTROL GENERAL NOTES

THE CONTRACTOR SHALL COMPLY WITH 712 REGARDING "TEMPORARY TRAFFIC CONTROL" OF STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN THE IMPLEMENTATION OF THIS TRAFFIC CONTROL PLAN AND IN ACCORDANCE WITH THE CURRENT EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".

AN ELEVEN FOOT TEMPORARY TRAFFIC LANE IS DESIRABLE, A NINE FOOT TRAFFIC LANE IS ACCEPTABLE, IF CONDITIONS WARRANT.

EXISTING REGULATORY AND WARNING SIGNS WHICH CONFLICT WITH THE CONSTRUCTION SIGNING SHALL BE REMOVED DURING CONSTRUCTION AND REINSTALLED AS DIRECTED BY THE ENGINEER. ALL COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 712-01, TRAFFIC CONTROL, PER LUMP SUM.

THE SPACING OF SIGNS AND CHANNELIZATION DEVICES MY BE ADJUSTED TO FIT THE GEOMETRIC CONDITIONS ENCOUNTERED, SUCH AS DRIVEWAYS, INTERSECTING ROADWAYS, VERTICAL AND HORIZONTAL ALIGNMENT , ETC., AS APPROVED BY THE ENGINEER.

TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE COORDINATED WITH UTILITY REMOVALS, RELOCATIONS AND INSTALLATIONS TO AVOID CONFLICTS AND DELAYS. ISSUES DISCOVERED WILL BE REPORTED TO THE ENGINEER FOR RESOLUTION.

THE CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS THROUGHOUT THE CONSTRUCTION PERIOD TO ALLOW PASSAGE OF PRIVATE VEHICLES AND DELIVERIES. COST TO MAINTAIN DRIVEWAYS WILL BE INCLUDE IN OTHER BID ITEMS. WHEN DRIVEWAYS ARE RESURFACED DURING CONSTRUCTION, RESURFACING SHALL BE PHASED OR SCHEDULED TO MAINTAIN NORMAL ACCESS THROUGH THE DRIVEWAY. COORDINATION SHALL BE MAINTAINED WITH THE ENTITY SERVED BY THE DRIVEWAY TO MINIMIZE DISRUPTION TO NORMAL OPERATIONS.

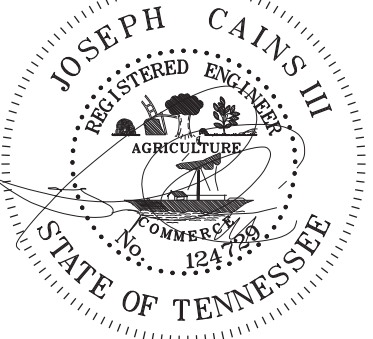
NOTE: PAY ITEM 712-06: 2 FLAGS ARE TO BE MOUNTED ON ALL ROAD WORK ADVANCE WARNING SIGNS. FLAGS ARE TO BE 18"X18" AND FLOURESCENT RED-ORANGE IN COLOR. COST OF THE FLAGS IS TO BE INCLUDED IN THE COST OF OTHER ITEMS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	T2
PS & E	2026	STP/HPP-31(12)	T2A

REVISION NOTE:

06/15/26 RENUMBERED SHEET AND REVISED SHEET TITLE, SIGNING TABULATION, AND TRAFFIC CONTROL QUANTITIES; ADDED TRAFFIC CONTROL GENERAL NOTES AND NOTE FOR FLAGS ON SIGNS.

SEALED BY



06/15/2026

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

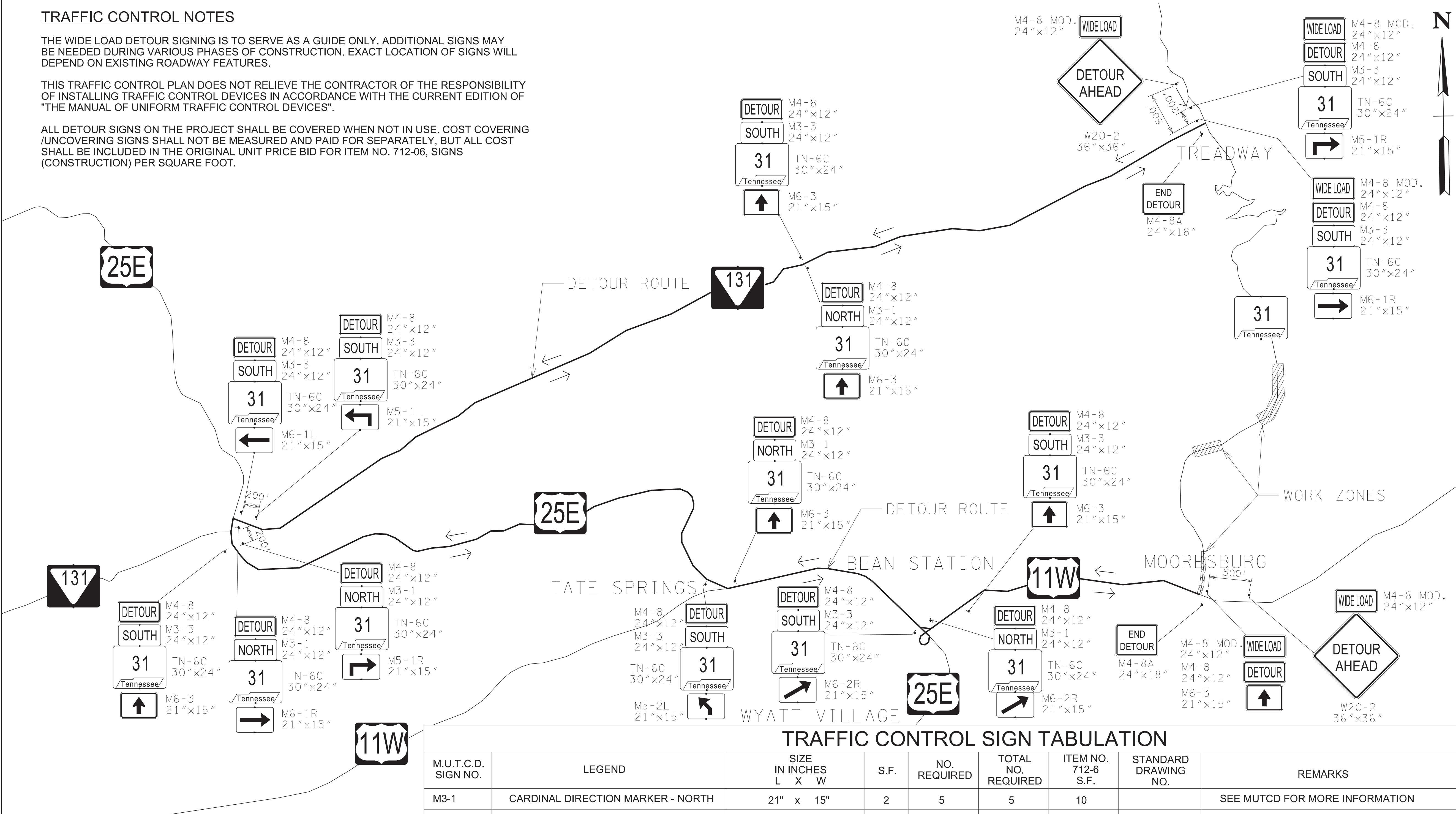
TRAFFIC
CONTROL PLANS
(TRAFFIC PHASING
NOTES, LEGEND AND
TABULATION)

TRAFFIC CONTROL NOTES

THE WIDE LOAD DETOUR SIGNING IS TO SERVE AS A GUIDE ONLY. ADDITIONAL SIGNS MAY BE NEEDED DURING VARIOUS PHASES OF CONSTRUCTION. EXACT LOCATION OF SIGNS WILL DEPEND ON EXISTING ROADWAY FEATURES.

THIS TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT EDITION OF "THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".

ALL DETOUR SIGNS ON THE PROJECT SHALL BE COVERED WHEN NOT IN USE. COST COVERING /UNCOVERING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COST SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO. 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	T3
P-I-H	2025	STP/HPP-31(12)	T3
PS & E	2026	STP/HPP-31(12)	T3

REVISION NOTE:
06/15/26 UPDATED FONT FOR NOTES.

SEALED BY

06/15/2026

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 99.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC
CONTROL PLANS
(WIDE LOAD DETOUR)

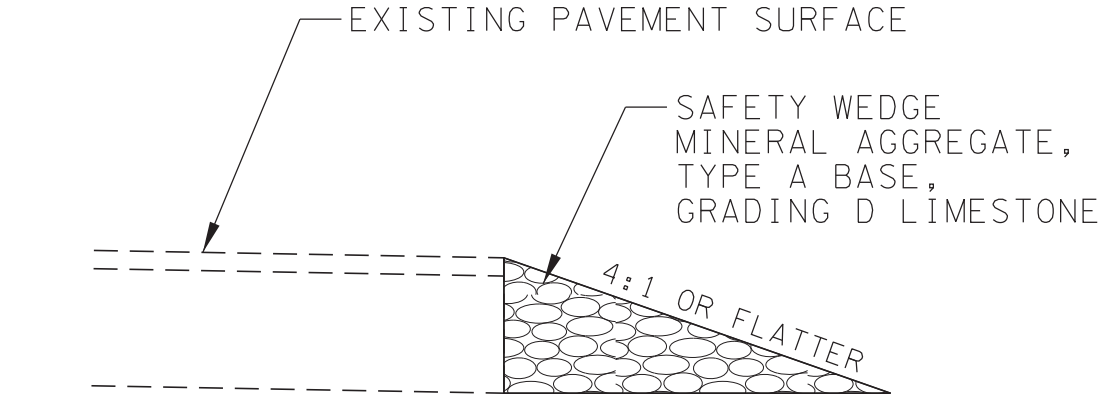
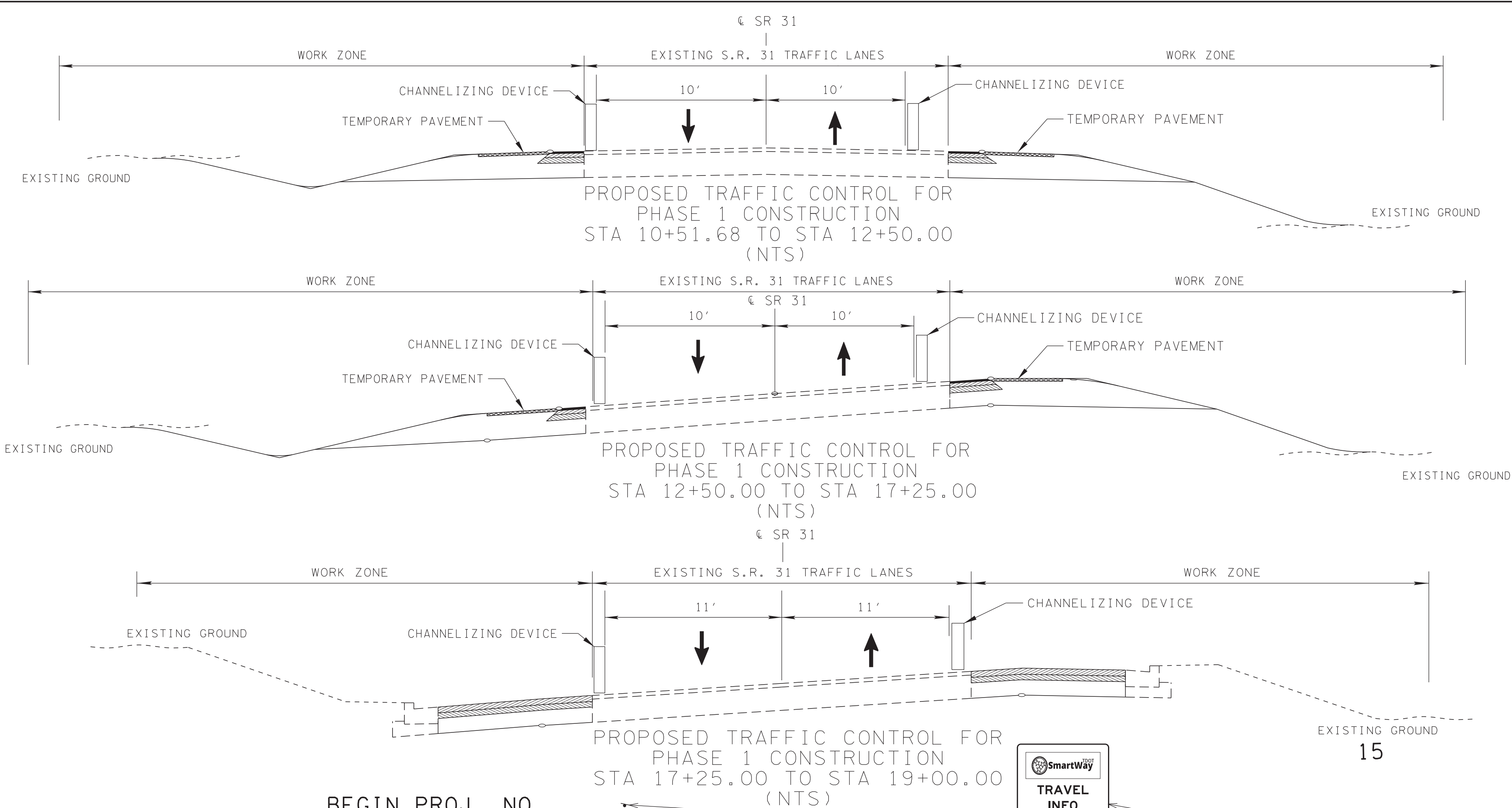
SCALE: N.T.S.

TRAFFIC CONTROL SIGN TABULATION									
M.U.T.C.D. SIGN NO.	LEGEND	SIZE IN INCHES L X W	S.F.	NO. REQUIRED	TOTAL NO. REQUIRED	ITEM NO. 712-6 S.F.	STANDARD DRAWING NO.	REMARKS	
M3-1	CARDINAL DIRECTION MARKER - NORTH	21" x 15"	2	5	5	10		SEE MUTCD FOR MORE INFORMATION	
M3-3	CARDINAL DIRECTION MARKER - SOUTH	21" x 15"	2	9	9	18			
M4-8	DETOUR	24" x 12"	2	15	15	30			
M4-8A	END DETOUR	24" x 18"	3	2	2	6			
M4-8 MOD.	WIDE LOAD	24" x 12"	2	5	5	10			
M5-1L	ADVANCE TURN ARROW 90	21" x 15"	2	1	1	2			
M5-1R	ADVANCE TURN ARROW 90	21" x 15"	2	2	2	4			
M5-2L	ADVANCE TURN ARROW 45	21" x 15"	2	1	1	2			
M6-1L	DIRECTIONAL ARROW LT	21" x 15"	2	1	1	2			
M6-1R	DIRECTIONAL ARROW RT	21" x 15"	2	2	2	4			
M6-2R	DIRECTIONAL ARROW 45 RT	21" x 15"	2	2	2	4			
M6-3	STRAIGHT ARROW	21" x 15"	2	6	6	12			
TN-6C	STATE ROUTE NUMBER (2 DIGITS)	30" x 24"	5	14	14	70			
W20-2	DETOUR AHEAD	36" x 36"	9	2	2	18			
					TOTAL	192	S.F.		

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	T3A
PS & E	2026	STP/HPP-31(12)	T4

REVISION NOTE:

06/15/26 RENUMBERED TO SHEET T4
(PREVIOUSLY T4A)

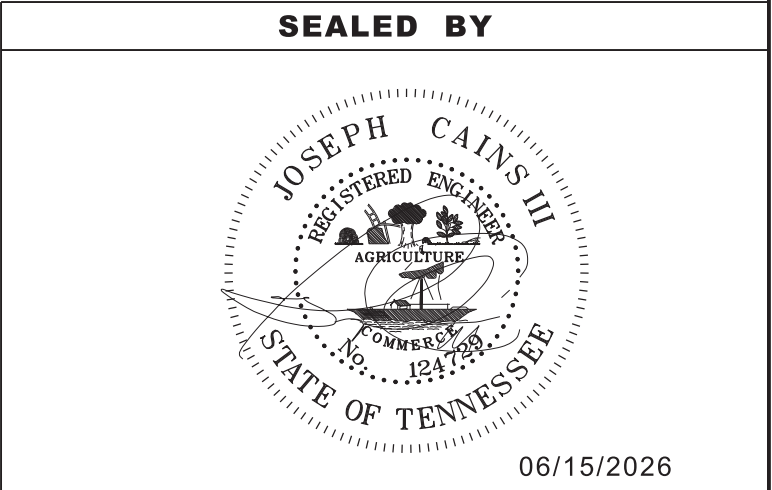
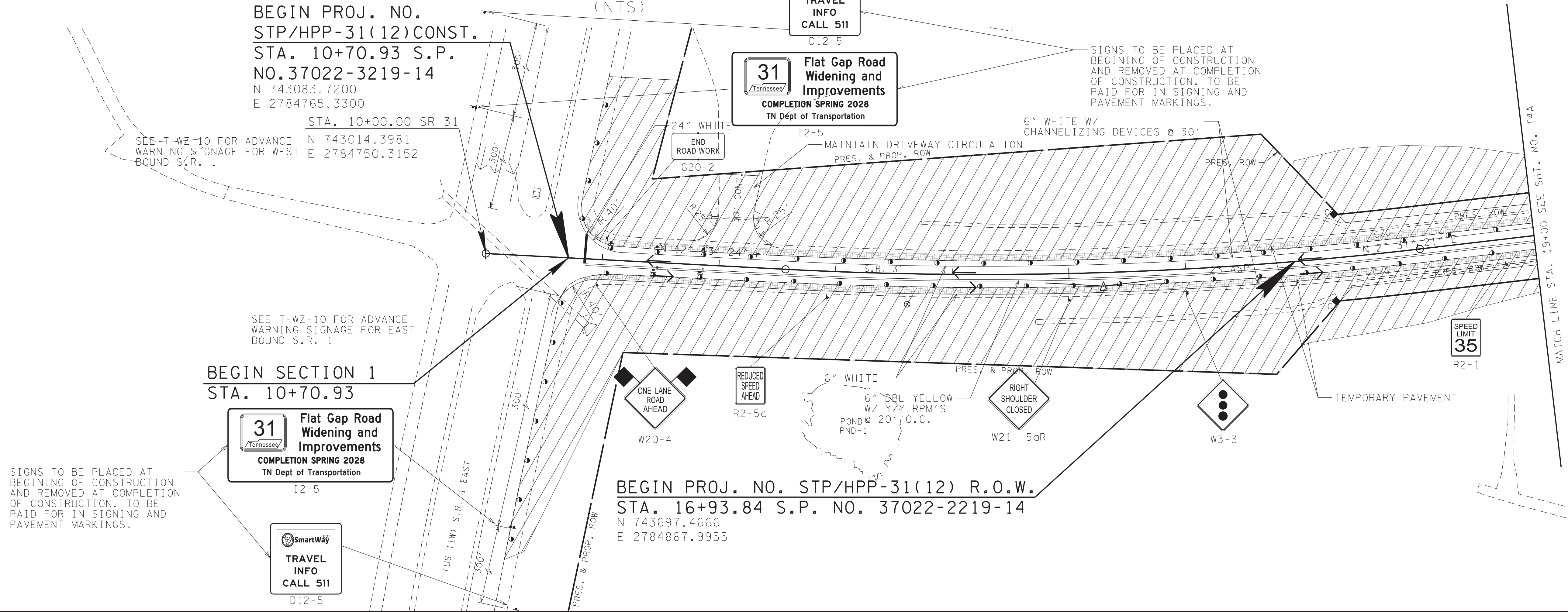


SAFETY WEDGE DETAIL
(NTS)

SAFETY WEDGE SHALL BE PLACED AT COMPLETION OF
DAILY WORK PERIODS TO AVOID DROP-OFFS.
SAFETY WEDGE SHALL BE COMPACTED, FIRM AND UNYIELDING.

NOTES:

- DURING PAVING OPERATION FOR TEMPORARY PAVEMENT, CHANNELIZING DEVICES WILL BE MOVED TO OUTSIDE EDGE OF SHOULDER OR FURTHER DEPENDING ON PAVING EQUIPMENT WIDTH. UPON COMPLETION OF PAVING TEMPORARY PAVEMENT, CHANNELING DEVICES SHALL BE RELOCATED TO THEIR ORIGINAL LOCATION.
- PROVIDE ADVANCE SIGNING CONSISTENT WITH T-WZ-10 ON US HWY 11 (SR 1 EAST) EB & WB.
- PROVIDE 4 ADVANCE WARNING SIGNS CONSISTENT WITH T-WZ-32 ON SR 31 NB & SB APPROACHES TO TEMPORARY SIGNALS.



COORDINATES ARE NAD 83(1995), ARE
DATUM ADJUSTED BY THE FACTOR
OF 1.00006 AND TIED TO THE TGRN.
ALL ELEVATIONS ARE REFERENCED
TO THE NAVD 1988 WITH GEOID 99.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC
CONTROL PLANS
(PHASE 1)
STA. 10+51.68 TO STA. 19+00
SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	T3B
PS & E	2026	STP/HPP-31(12)	T4A

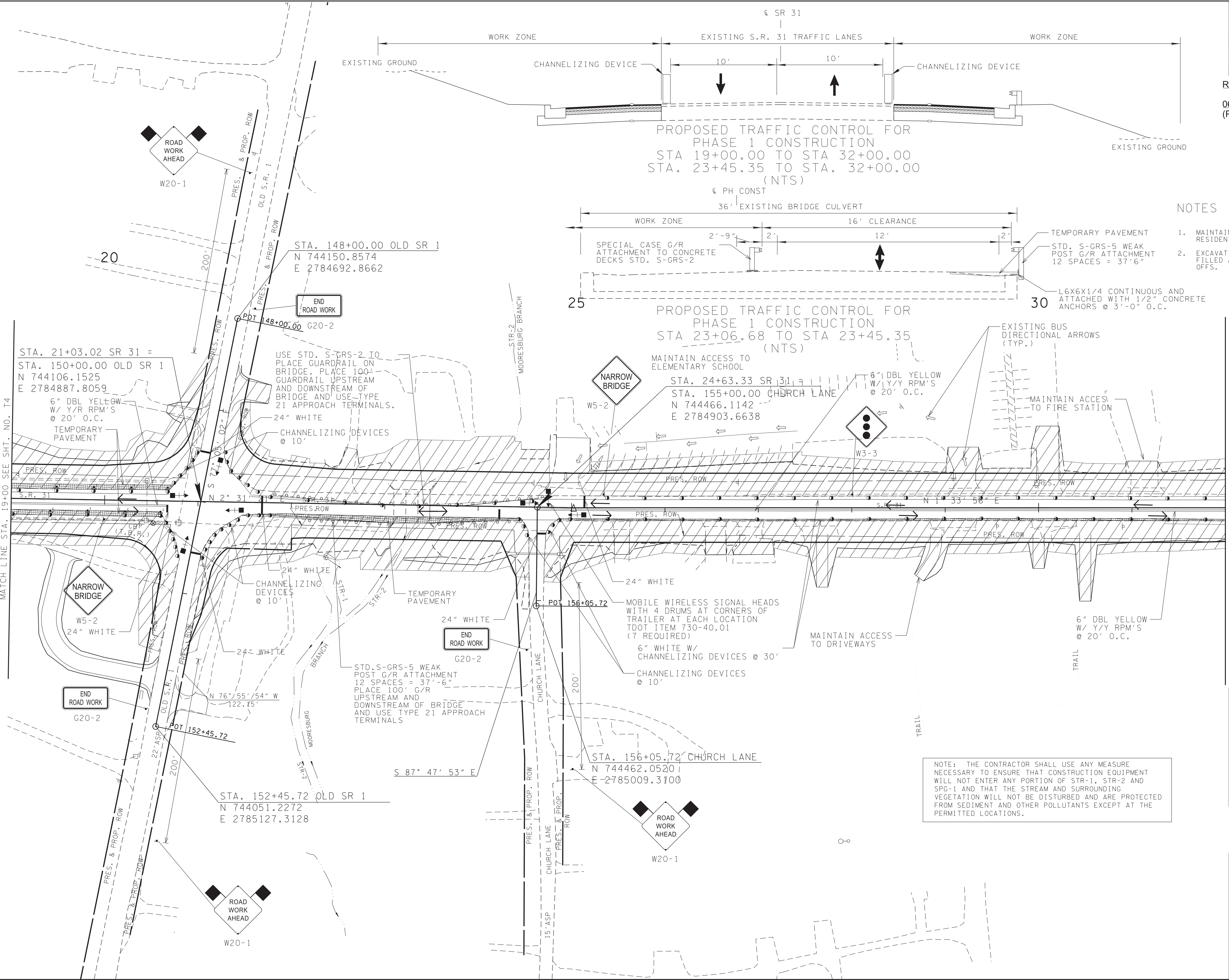
REVISION NOTE:

06/15/26 RENUMBERED TO SHEET T4A
(PREVIOUSLY T4B)

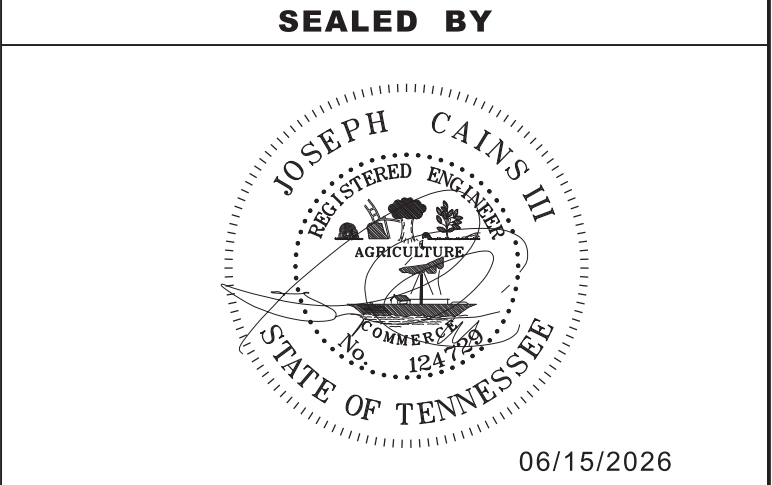


NOTES

1. MAINTAIN ACCESS TO SCHOOL, BUSINESS AND RESIDENTS.
2. EXCAVATIONS NEXT TO EXISTING LANES SHALL BE FILLED AT THE END OF WORK PERIOD TO AVOID DROP OFFS.



NOTE: THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-1, STR-2 AND SPG-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.

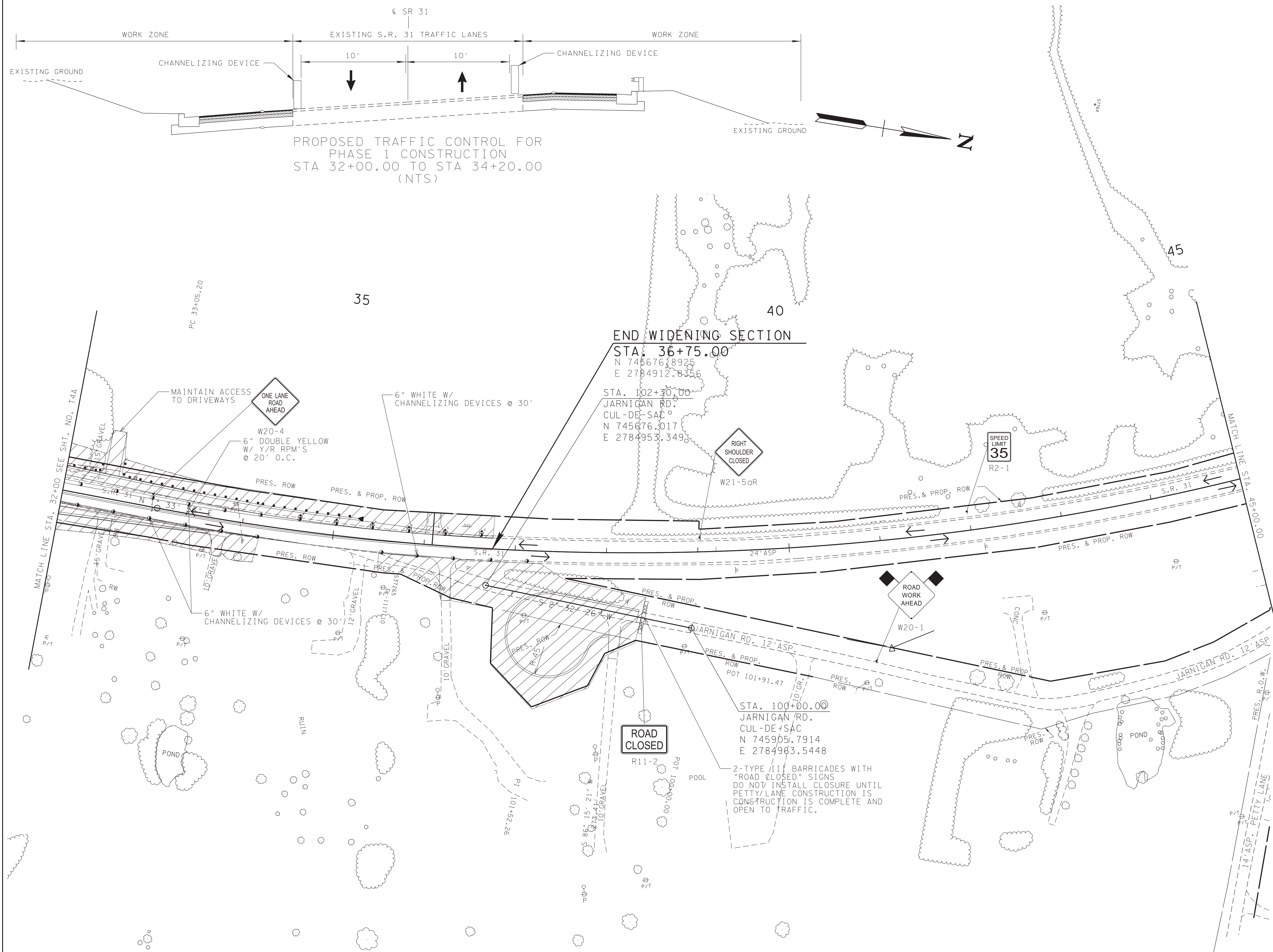


COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 99.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC
CONTROL PLANS
(PHASE 1)
STA. 19+00 TO STA. 32+00
SCALE: 1"= 50'

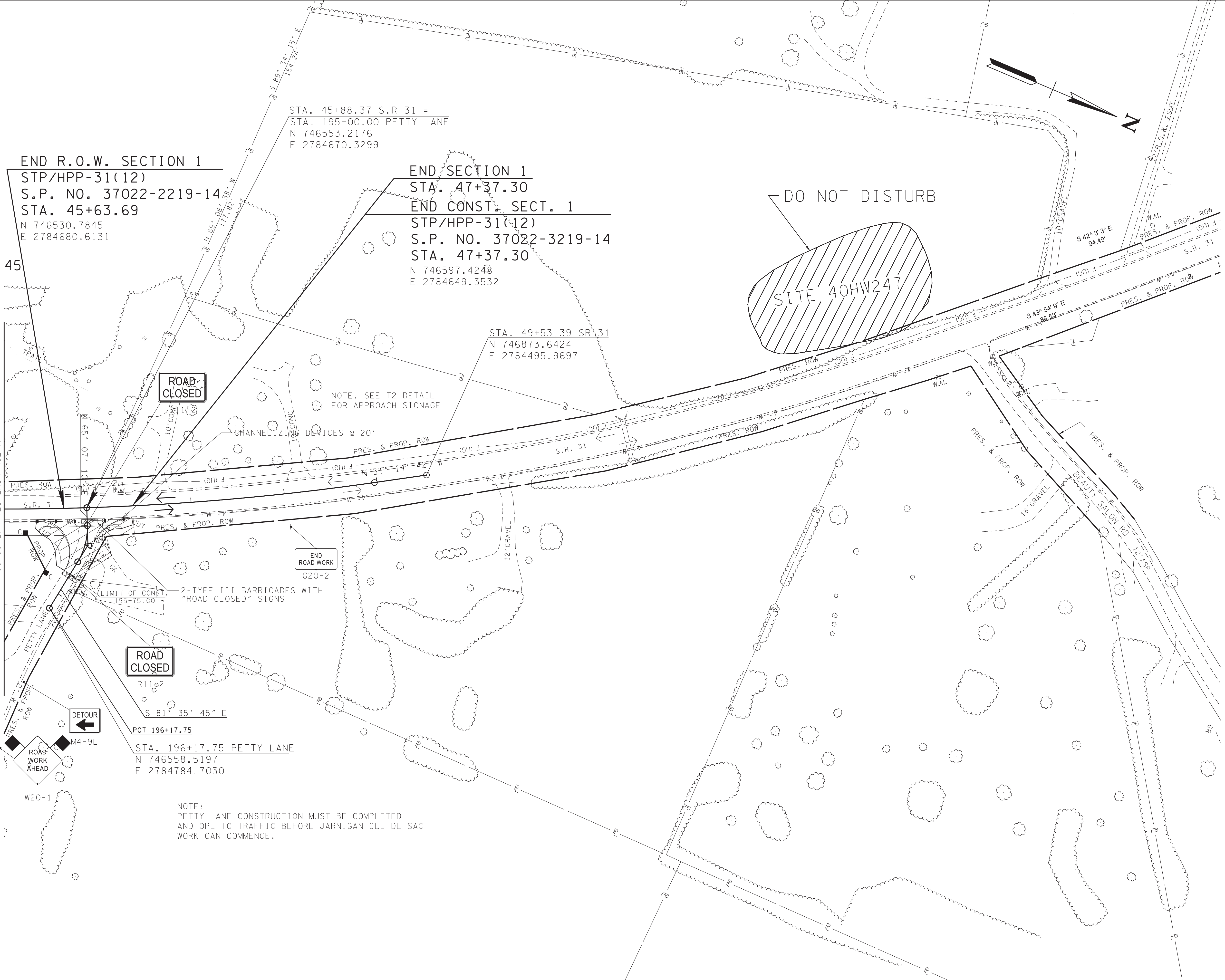
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	T3C
PS & E	2026	STP/HPP-31(12)	T4B



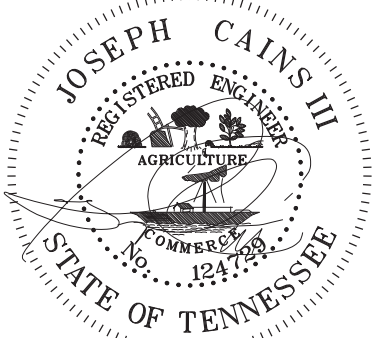
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	7
P-I-H	2025	STP/HPP-31(12)	
PS & E	2026	STP/HPP-31(12)	T4C

REVISION NOTE:

06/15/26 RENUMBERED TO SHEET T4C
(PREVIOUSLY T4D)



SEALED BY



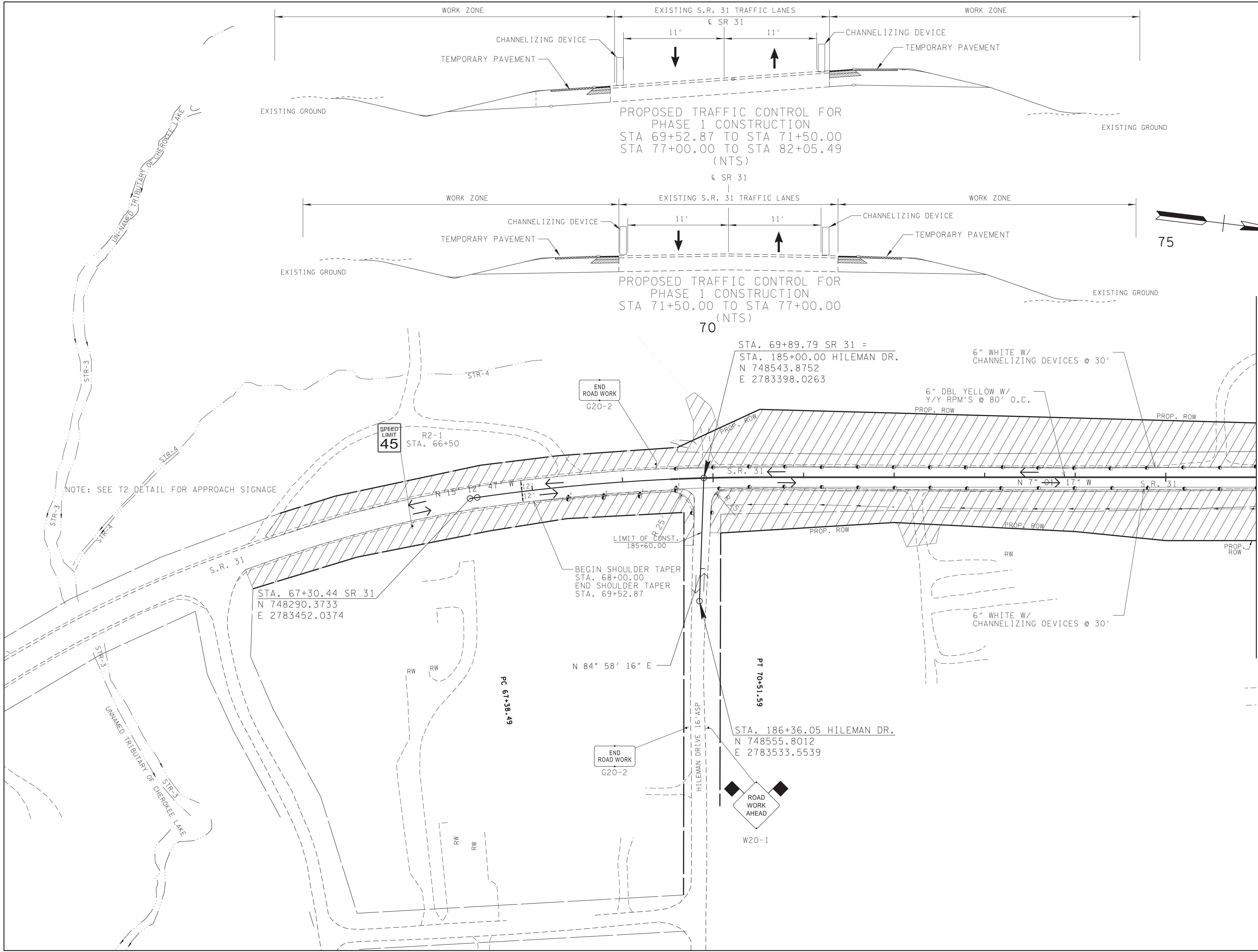
06/15/2026

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 99.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC
CONTROL PLANS
(PHASE 1)
STA. 45+00 TO STA. 50+00
SCALE: 1"= 50'

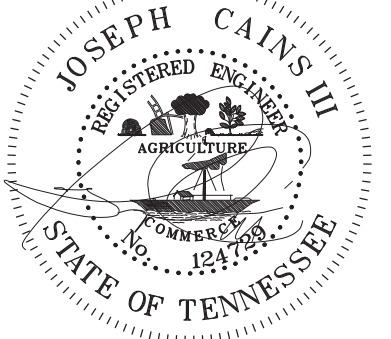
6/24/2026 6:31:31 PM
V:\1785\active\178560004\Roadway\Base\T4D.sht



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	T3G
PS & E	2026	STP/HPP-31(12)	T4D

REVISION NOTE:
06/15/26 RENUMBERED TO SHEET T4D
(PREVIOUSLY T4E)

SEALED BY



06/15/2026

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 99.

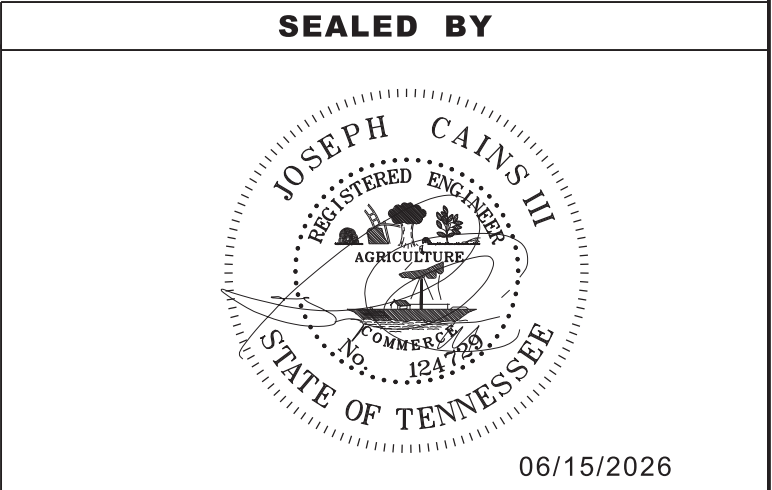
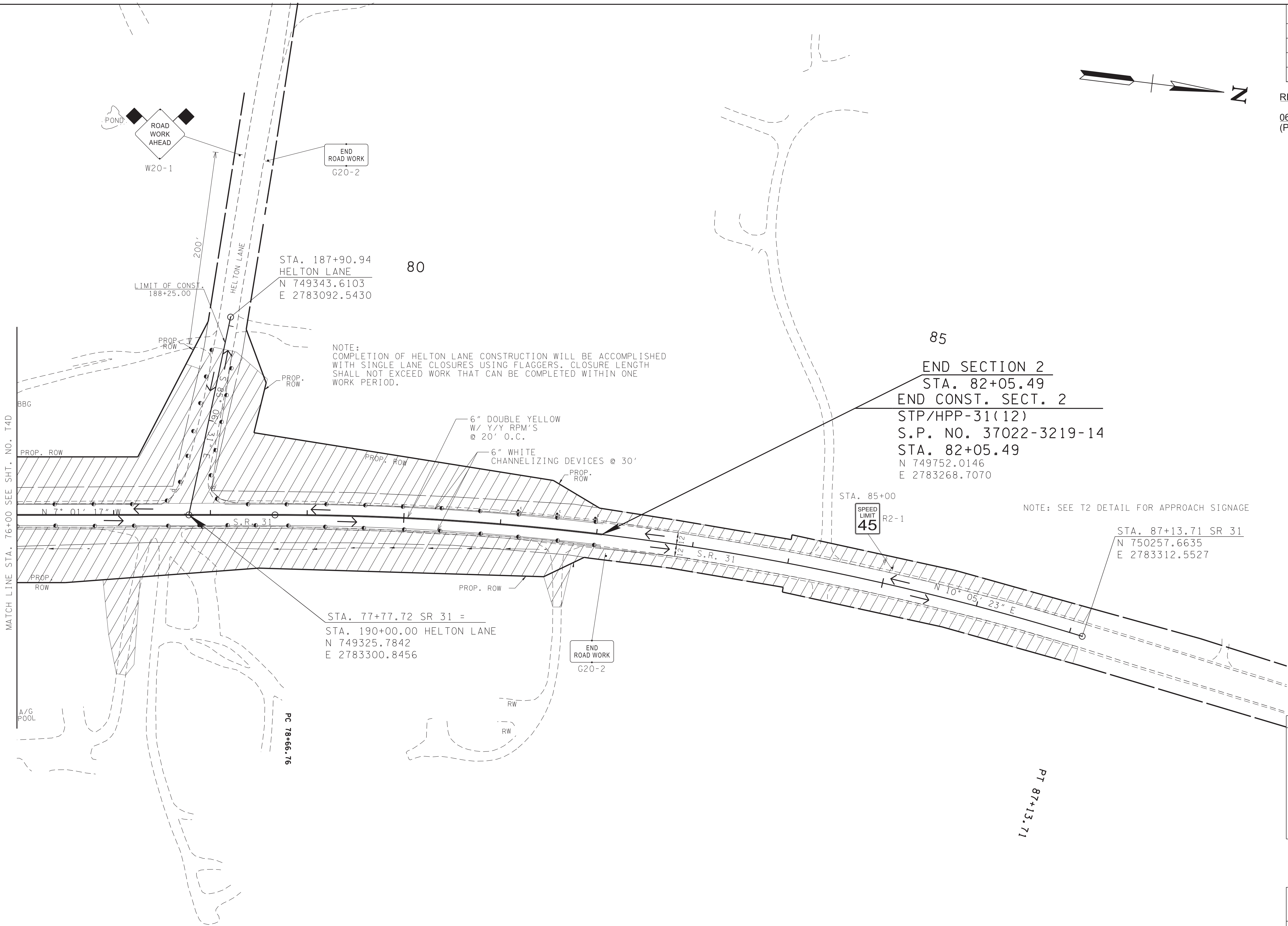
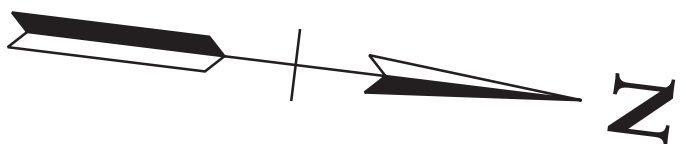
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC
CONTROL PLANS
(PHASE 1)
STA. 62+52.87 TO STA. 76+00
SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	T3H
PS & E	2026	STP/HPP-31(12)	T4E

REVISION NOTE:

06/15/26 RENUMBERED TO SHEET T4E
(PREVIOUSLY T4F)



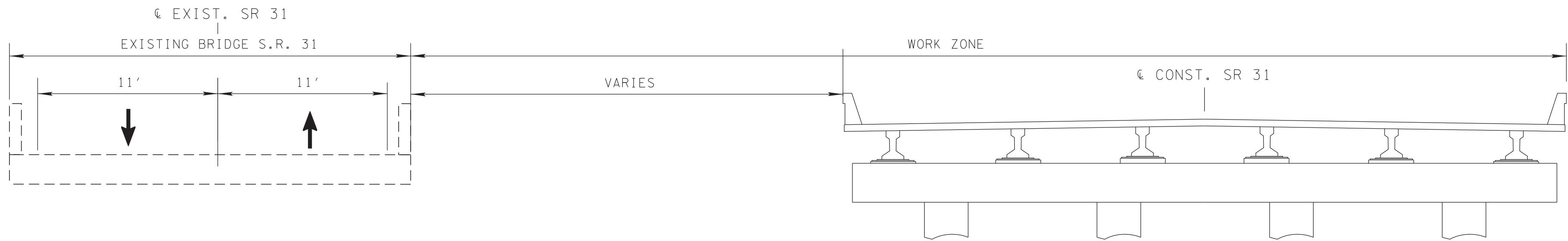
COORDINATES ARE NAD 83(1995), ARE
DATUM ADJUSTED BY THE FACTOR
OF 1.00006 AND TIED TO THE TGRN.
ALL ELEVATIONS ARE REFERENCED
TO THE NAVD 1988 WITH GEOID 99.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

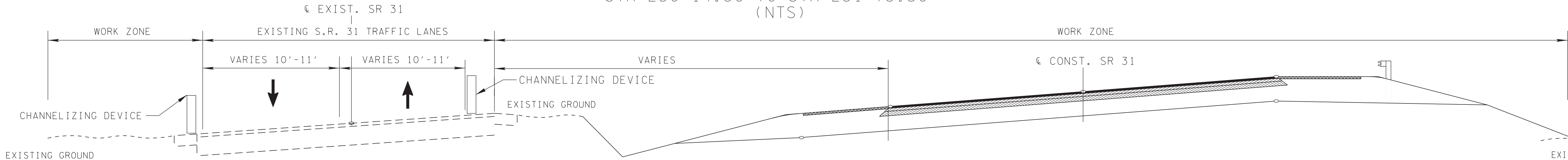
TRAFFIC
CONTROL PLANS
(PHASE 1)
STA. 76+00 TO STA. 82+05.49
SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	T3M
PS & E	2026	STP/HPP-31(12)	T4G

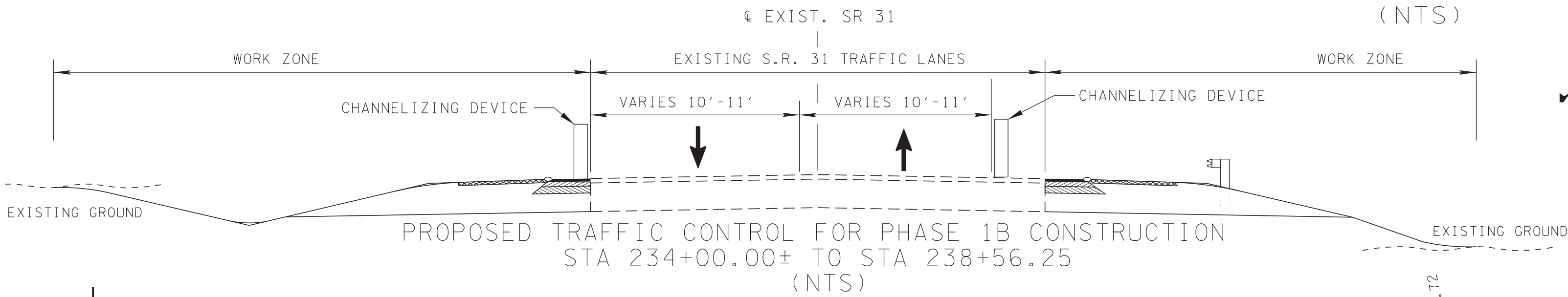
REVISION NOTE:
06/15/26 RENUMBERED TO SHEET T4G
(PREVIOUSLY T4J); REVISED PHASING
SEQUENCE AND SHEET TITLE



PROPOSED TRAFFIC CONTROL FOR PHASE 1B CONSTRUCTION
STA 230+14.50 TO STA 231+73.50±
(NTS)



PROPOSED TRAFFIC CONTROL FOR PHASE 1B CONSTRUCTION
STA 231+75.50± TO STA 234+00.00±
(NTS)



END PROJ. NO.
STP/HPP-31(12) CONST.
STA. 241+00.00 S.P.
NO. 37022-3219-14
N 761848.1058
E 2787294.2856

GRADED SOLID ROCK/UNDERCUT
SEE GEOTECHNICAL SHEET G-9
FOR MORE DETAILS

SIGNS TO BE PLACED AT
BEGINNING OF CONSTRUCTION
AND REMOVED AT COMPLETION
OF CONSTRUCTION. TO BE
PAID FOR IN SIGNING AND
PAVEMENT MARKINGS.

31 Flat Gap Road
Widening and
Improvements
COMPLETION SPRING 2028
TN Dept of Transportation

SmartWay
TRAVEL
INFO
CALL 511
D12-5

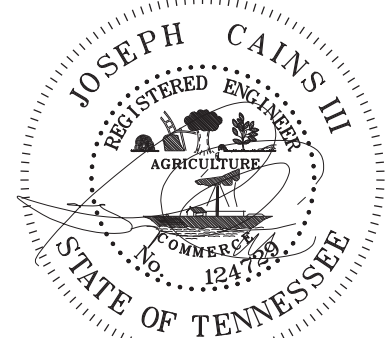
NOTE: SEE T2 DETAIL FOR APPROACH SIGNAGE

SPEED
LIMIT
45
R2-1

STA. 239+97.55 SR 31
N 761781.7716
E 2787372.3580

END SECTION 3
STA. 239+00.00

SEALED BY



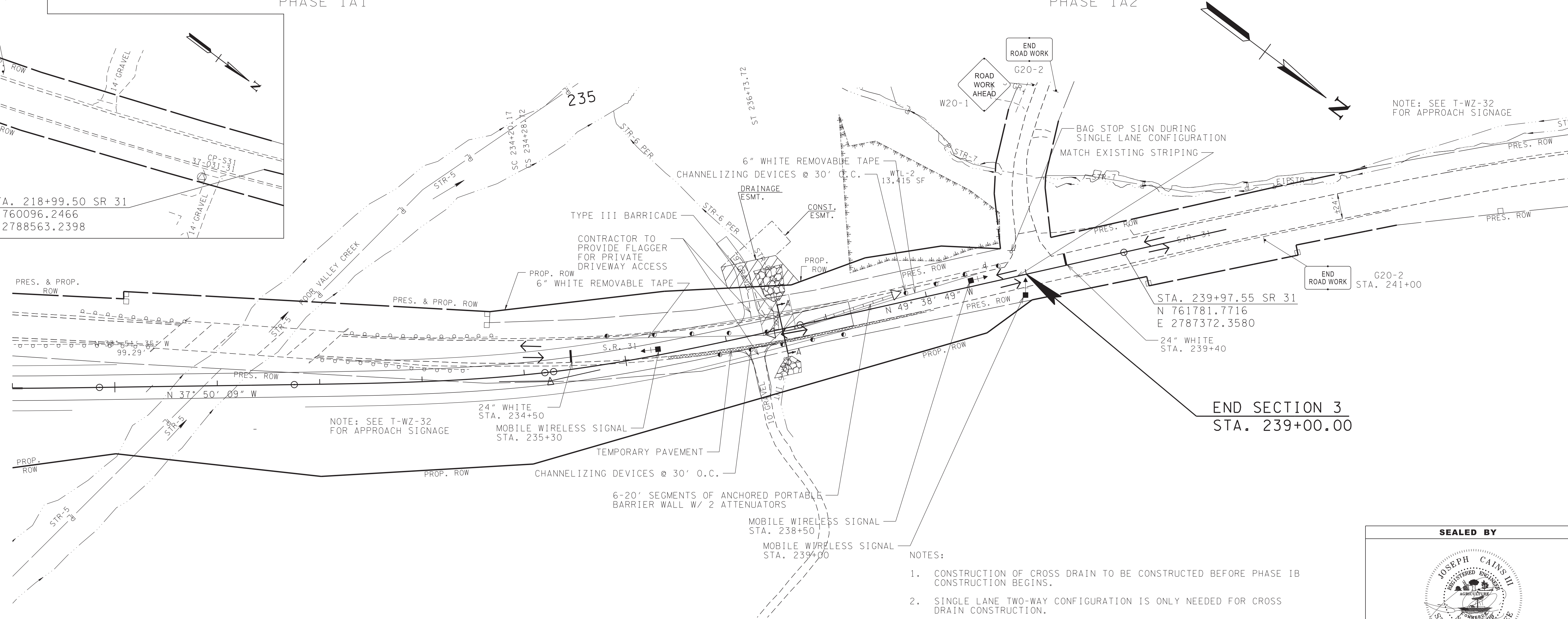
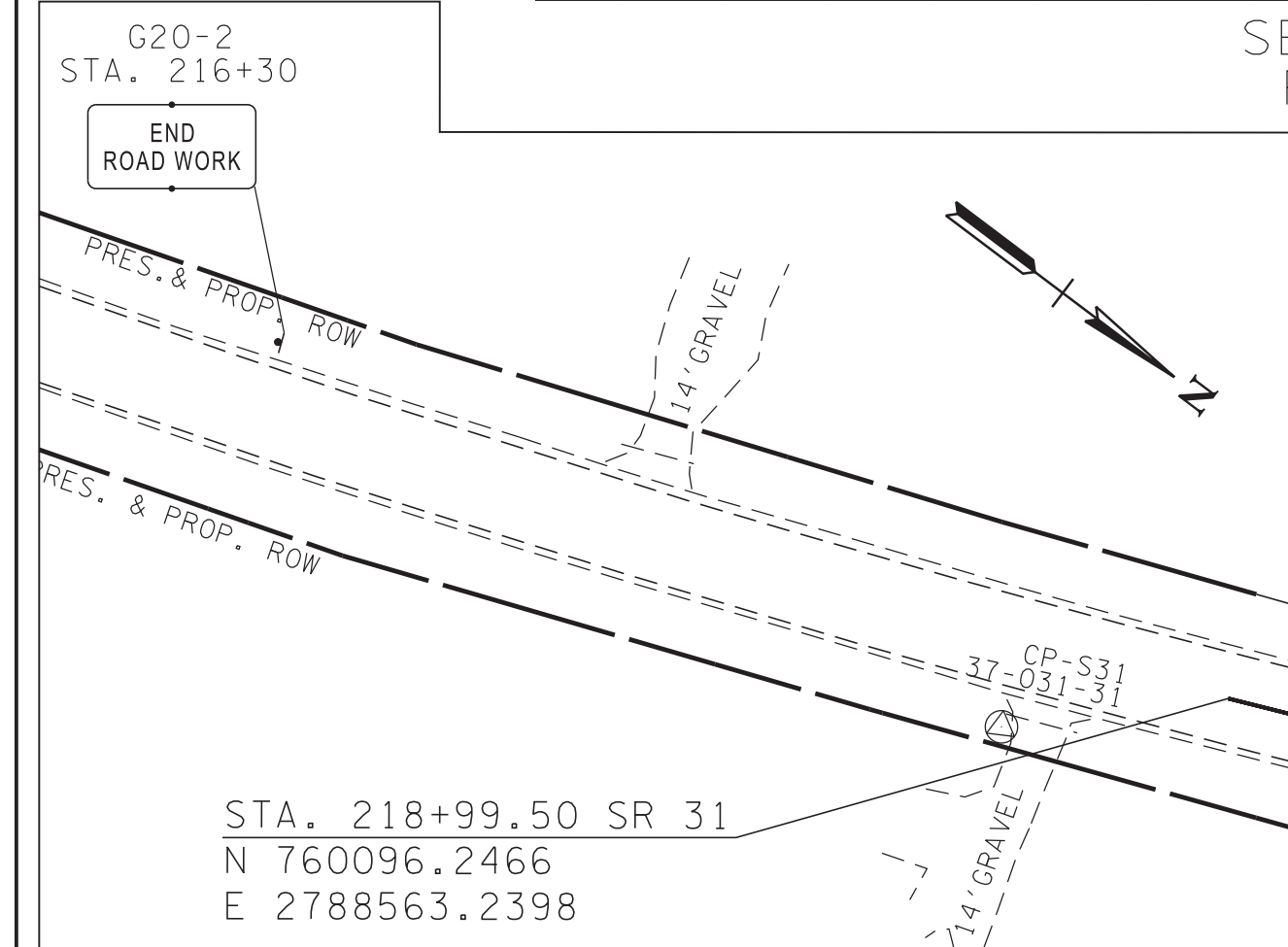
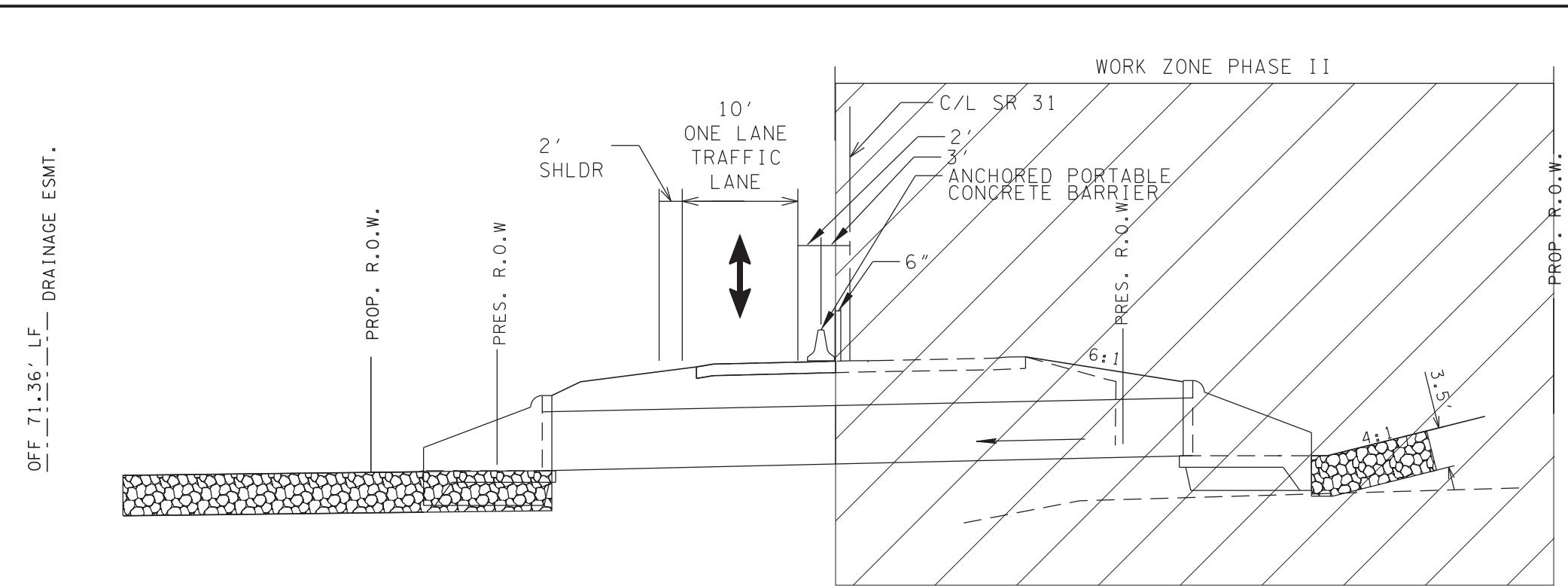
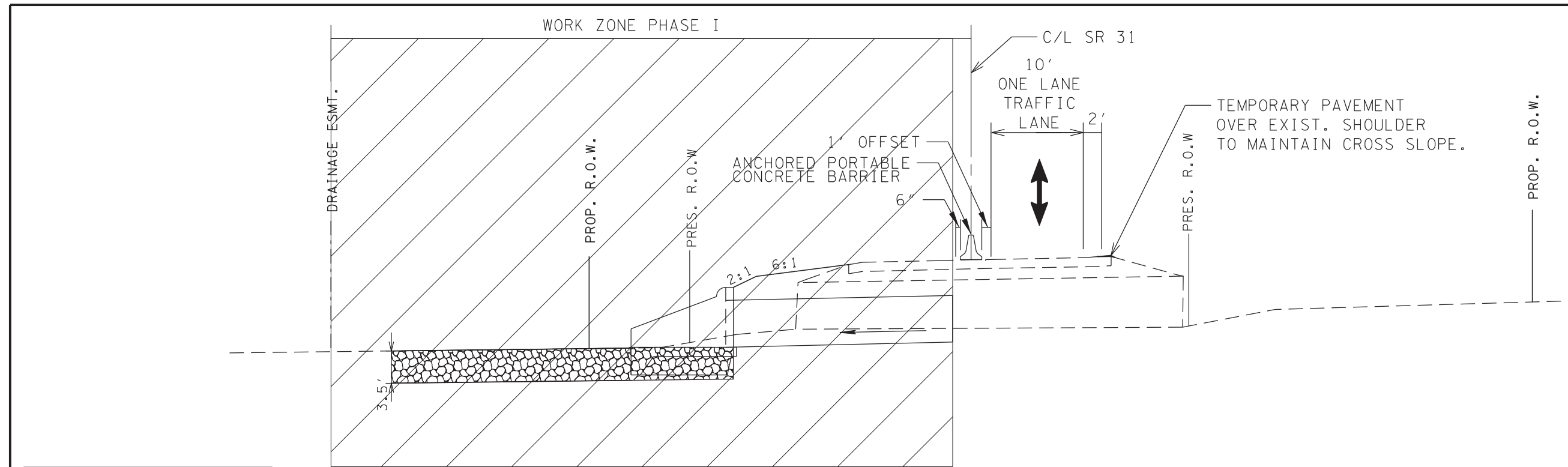
06/15/2026

COORDINATES ARE NAD 83(1995), ARE
DATUM ADJUSTED BY THE FACTOR
OF 1.00006 AND TIED TO THE TGRN.
ALL ELEVATIONS ARE REFERENCED
TO THE NAVD 1988 WITH GEOID 99.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC
CONTROL PLANS
(PHASE 1B)
STA. 229+00 TO STA. 239+00
SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	T4
PS & E	2026	STP/HPP-31(12)	T4G1



LEGEND	
SYMBOL	ITEM
	WORK ZONE AREA
	FLEXIBLE DRUM (CHANNELIZING)
	TEMPORARY PAVEMENT
	TRAFFIC DIRECTION ARROWS
	MOBILE WIRELESS SIGNAL TRAILER
	ATTENUATOR

- NOTES:
1. CONSTRUCTION OF CROSS DRAIN TO BE CONSTRUCTED BEFORE PHASE IB CONSTRUCTION BEGINS.
 2. SINGLE LANE TWO-WAY CONFIGURATION IS ONLY NEEDED FOR CROSS DRAIN CONSTRUCTION.
 3. ADJUSTMENTS TO CONFIGURATION ARE ACCEPTABLE PENDING APPROVAL BY ENGINEER.
 4. CONFIGURATION FOR REMAINING CROSS DRAIN WORK WILL BE SIMILAR TO TYPICALS.
 5. SINGLE LANE TWO-WAY CONFIGURATION WILL BE DEACTIVATED AND REMOVED AS SOON AS WORK IS COMPLETED AND ACCEPTED.
 6. ADVANCE SIGNING FOR SINGLE LANE TWO-WAY CONFIGURATION TO BE IN ACCORDANCE WITH T-WZ-32.
 7. CONTRACTOR MAY COORDINATE WITH PROPERTY OWNER TO CLOSE DRIVEWAY WHILE WORK ZONE IS ACTIVE AND AVOID USING ATTENUATOR AND ACUTE PLACEMENT OF BARRIER.
 8. CONTRACTOR SHALL INSTALL TEMPORARY SLOPE DRAIN TO ISOLATE AND CONVEY OFFSITE DRAINAGE TO OUTFALL. CONTRACTOR SHALL MAINTAIN POSITIVE ONSITE DRAINAGE WHILE TEMPORARY SLOPE DRAIN IS INSTALLED.
 9. ANY SHORING OF THE ROADWAY FOR DRAINAGE STRUCTURES, MAINTENANCE OF TRAFFIC OR OTHER INCIDENTALS ARE INCLUDED IN THE COST OF THE ITEMS AND WILL NOT BE PAID DIRECTLY.

SEALED BY

The seal of the State of Tennessee is circular. It features a central emblem with a plow, a sheaf of wheat, and a cotton plant, symbolizing agriculture. The words "REGISTERED ENGINEER" are arched above the emblem, and "AGRICULTURE" and "COMMERCE" are on either side. The outer ring of the seal contains the text "JOSEPH CAIN III" at the top and "STATE OF TENNESSEE" at the bottom, with the year "1796" at the very bottom.

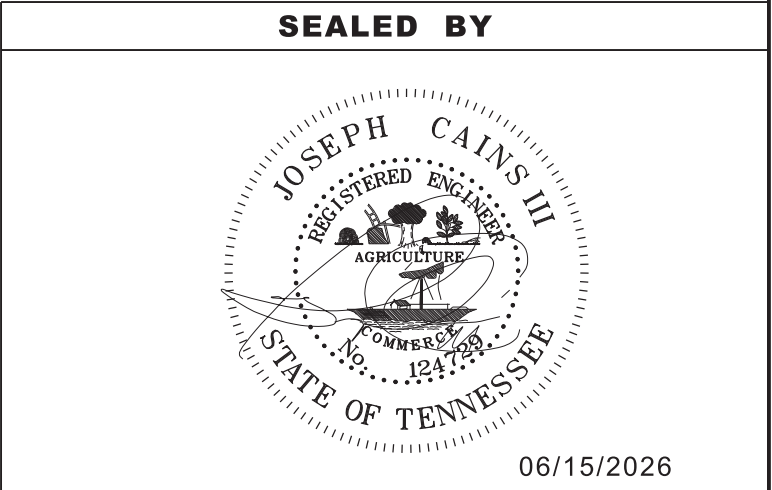
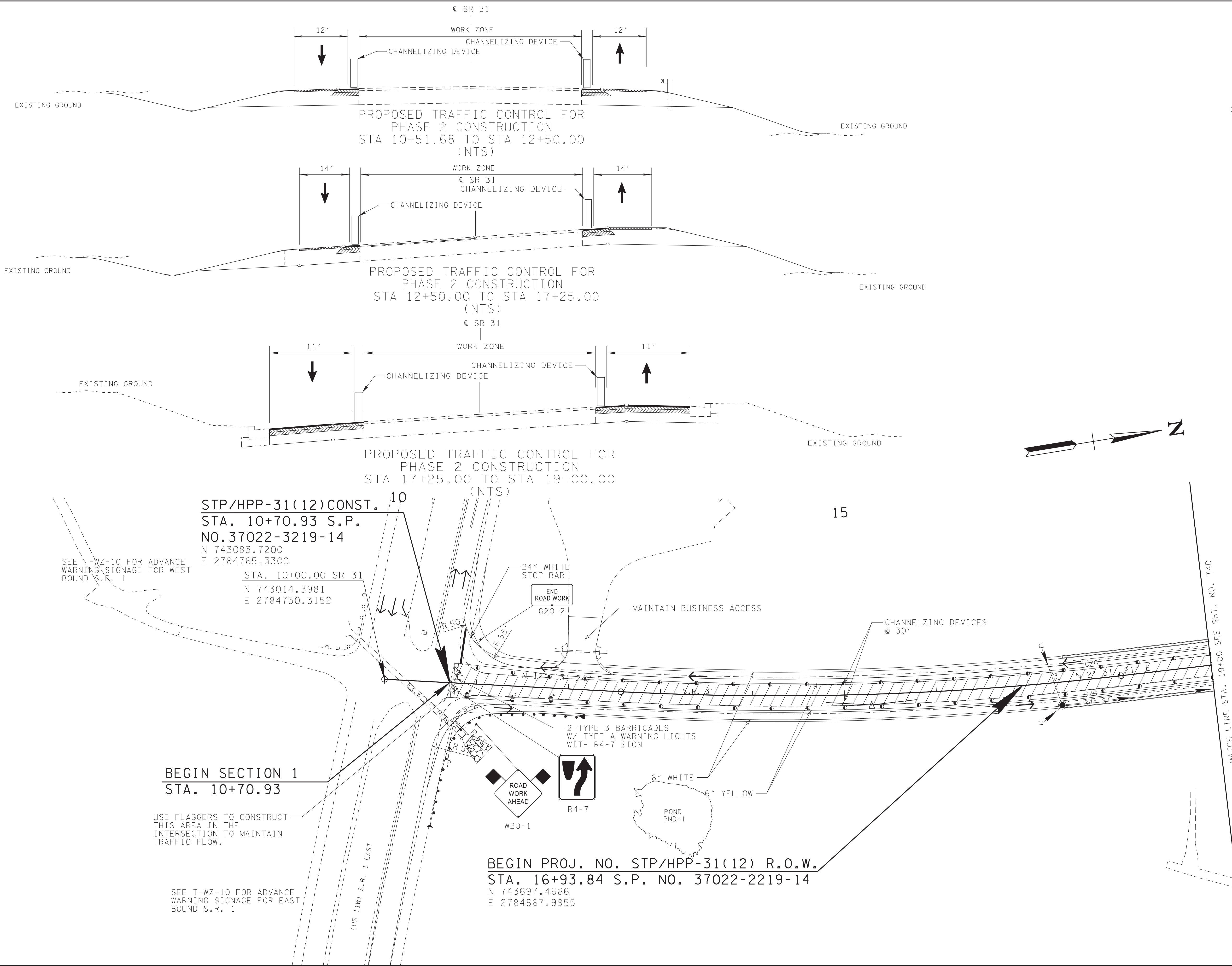
06/15/2026

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	T3D
PS & E	2026	STP/HPP-31(12)	T5

REVISION NOTES:
06-15-2026 REVISED ENTIRE SHEET ORDER.

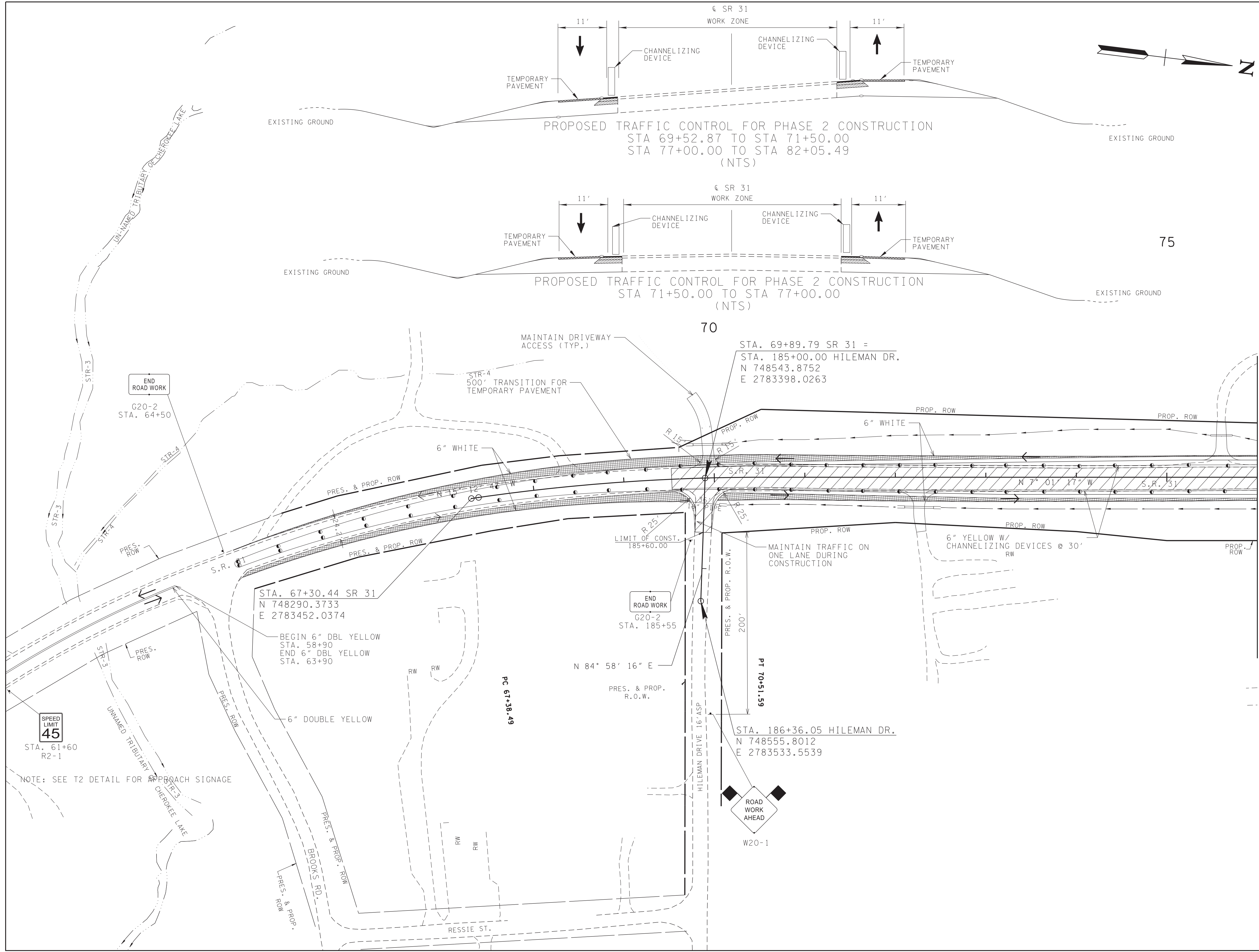


COORDINATES ARE NAD 83(1995), ARE
DATUM ADJUSTED BY THE FACTOR
OF 1.00006 AND TIED TO THE TGRN.
ALL ELEVATIONS ARE REFERENCED
TO THE NAVD 1988 WITH GEOID 99.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC
CONTROL PLANS
(PHASE 2)
STA. 10+51.68 TO STA. 19+00
SCALE: 1"= 50'

6/24/2026 5:27:03 PM
V:\1785\active\178560004\Roadway\Base\T5D.sht



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	T3I
PS & E	2026	STP/HPP-31(12)	T5D

REVISION NOTE:

06/15/26 RENUMBERED TO SHEET T5D
(PREVIOUSLY T5C)

SEALED BY

06/15/2026

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 99.

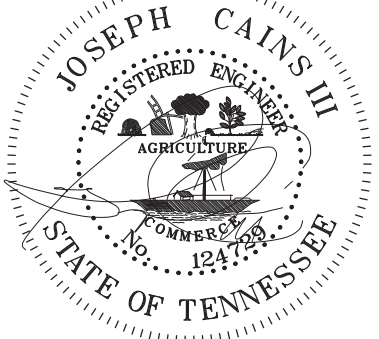
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC
CONTROL PLANS
(PHASE 2)
STA. 62+52.87 TO STA. 76+00
SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	7
P-I-H	2025	STP/HPP-31(12)	
PS & E	2026	STP/HPP-31(12)	T6C

REVISION NOTE:
06/15/26 NEW SHEET

SEALED BY

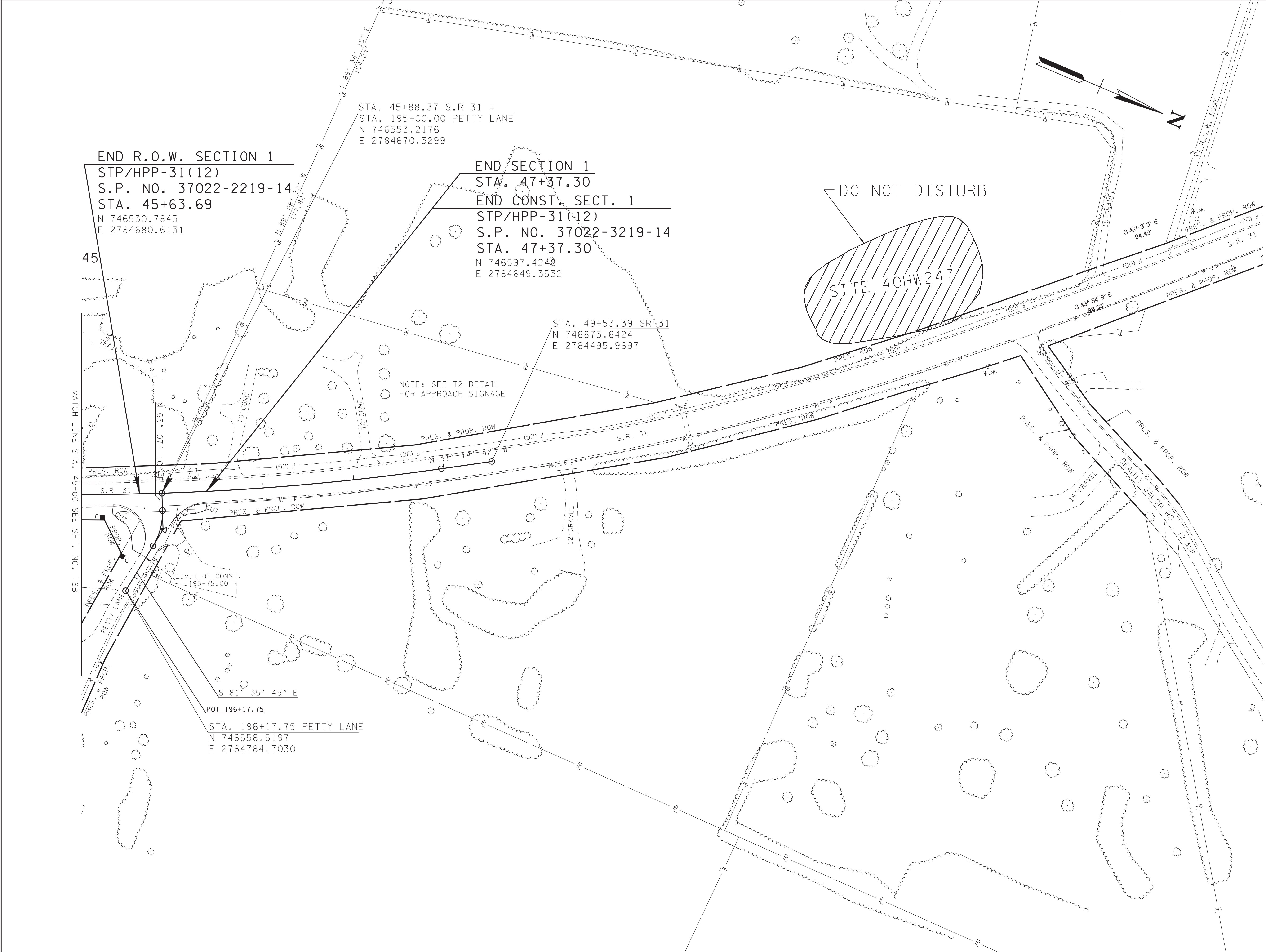


06/15/2026

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 99.

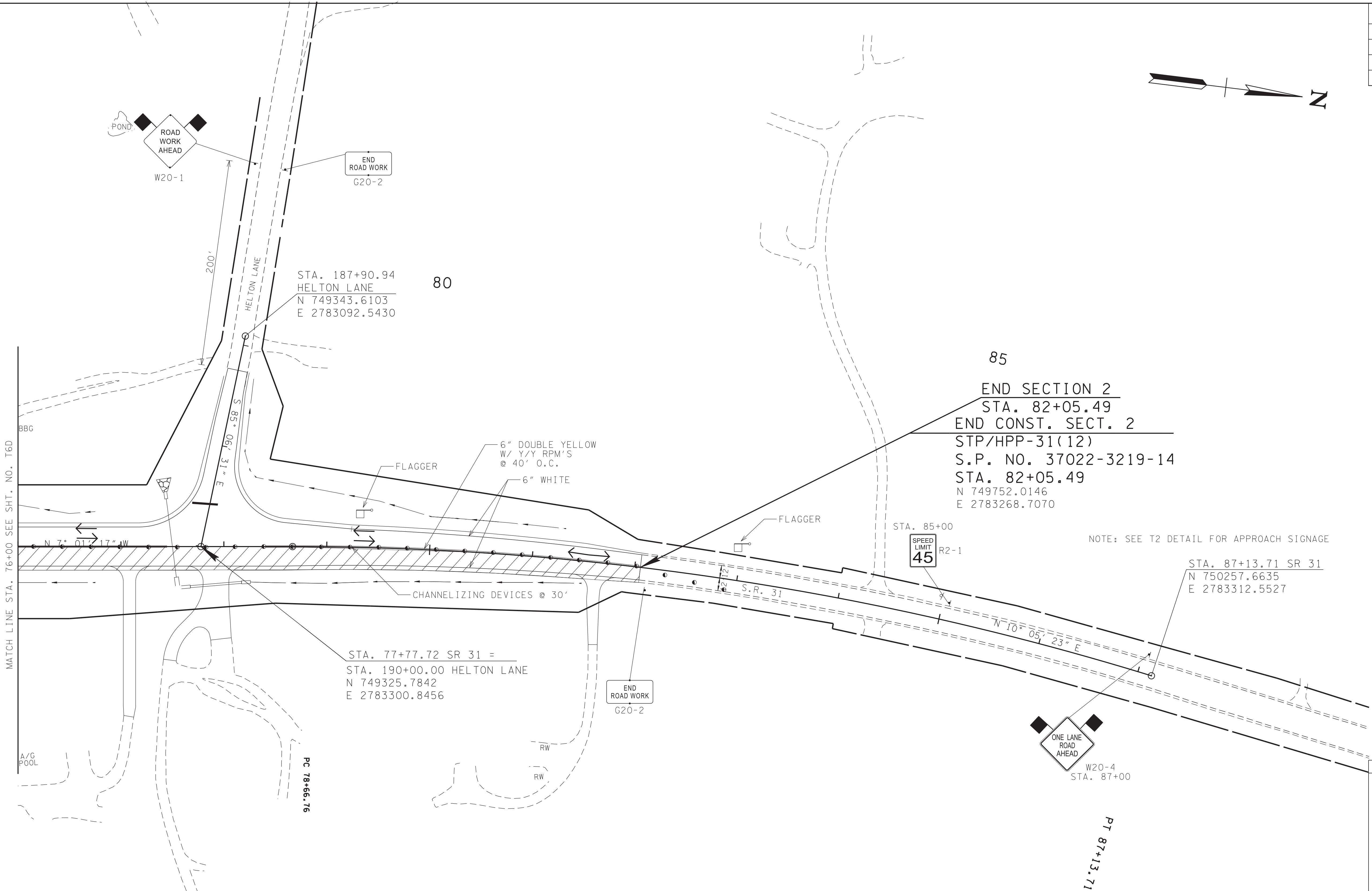
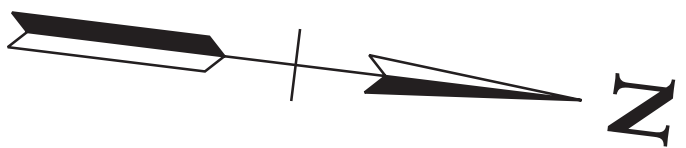
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC
CONTROL PLANS
(PHASE 3)
STA. 45+00 TO STA. 50+00
SCALE: 1"= 50'

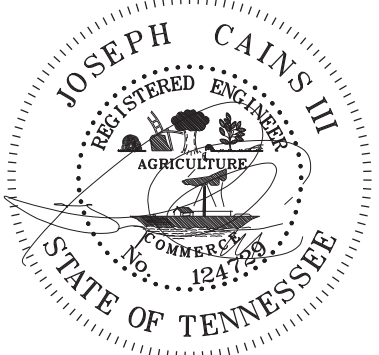


TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2021	STP/HPP-31(12)	
P-I-H	2025	STP/HPP-31(12)	T3H
PS & E	2026	STP/HPP-31(12)	T6E

REVISION NOTE:
06/15/26 RENUMBERED TO SHEET T6E
(PREVIOUSLY T6D)



SEALED BY



06/15/2026

COORDINATES ARE NAD 83(1995), ARE
DATUM ADJUSTED BY THE FACTOR
OF 1.00006 AND TIED TO THE TGRN.
ALL ELEVATIONS ARE REFERENCED
TO THE NAVD 1988 WITH GEOID 99.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC
CONTROL PLANS
(PHASE 3)
STA. 76+00 TO STA. 82+05.49
SCALE: 1"= 50'