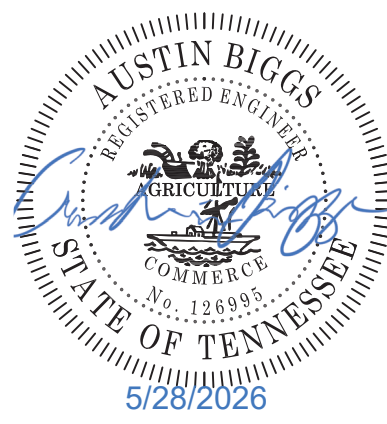




THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Austin Biggs

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GRESHAM SMITH
2222 2ND AVE SOUTH, SUITE 1400
NASHVILLE, TN 37201-2308
AUSTIN BIGGS, P.E. NO. 126995

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE
SHEET

ROADWAY INDEX

STANDARD ROADWAY DRAWINGS

SHEET NAME	SHEET NO.	DWG.	REV.	DESCRIPTION
SIGNATURE SHEET	ROADWAY-SIGN1	RD-L-5	07-30-24	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
.....	ROADWAY-SIGN2	RD-L-6	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
TITLE SHEET	1	RD-L-7	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS.....	1A			
STANDARD TRAFFIC DESIGN DRAWINGS	1A1			
PROJECT COMMITMENTS	1B			
ESTIMATED ROADWAY QUANTITIES.....	2, 2-1			
TYPICAL SECTIONS AND PAVEMENT SCHEDULE.....	2B, 2B1, 2B2			
GENERAL NOTES	2C			
SPECIAL NOTES	2D			
ENVIRONMENTAL NOTES.....	2E			
TABULATED QUANTITIES.....	2F, 2F1			
DETAIL SHEET	2G			
BANK STABILIZATION AND TREE PLANTING DETAILS.....	2G1			
RIGHT-OF-WAY NOTES, UTILITY NOTES, AND UTILITY OWNERS	3			
RIGHT-OF-WAY ACQUISITION TABLE AND PROPERTY MAP.....	3A – 3B			
PRESENT LAYOUT.....	4			
RIGHT-OF-WAY DETAILS	4A			
PROPOSED LAYOUT	4B			
PROPOSED PROFILE	4C			
PRESENT UTILITIES LAYOUT	4D			
HAUL ROAD PROFILES	5			
CULVERT CROSS SECTION.....	5A			
DRAINAGE MAP	6			
EROSION PREVENTION AND SEDIMENT CONTROL PLANS.....	7, 7A, 8, 9, 10			
SIGNING AND PAVEMENT MARKING PLAN.....	11			
SIGN SCHEDULE SHEETS.....	12, 12A			
ROADWAY CROSS SECTIONS.....	13-28			
HAUL ROAD CROSS SECTIONS	29-34			
TRAFFIC CONTROL PLANS	T1 – T8			
BRIDGE PLANS	B-1 – B-30			
LIGHTING PLANS	L-1 – L-6			
RETAINING WALL PLANS	R1			
UTLITY PLANS.....	U1-1 – U5-3			
NOTE: THE ALPHABETICAL LETTERS “I”, “O” & “Q” ARE NOT USED IN THE NUMBERING OF SHEETS.				

10-100.00 STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS			
RD-TP-1	09-26-16	STANDARD ROADWAY DRAWINGS TITLE SHEET	
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L	
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z	
RD-L-1	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	

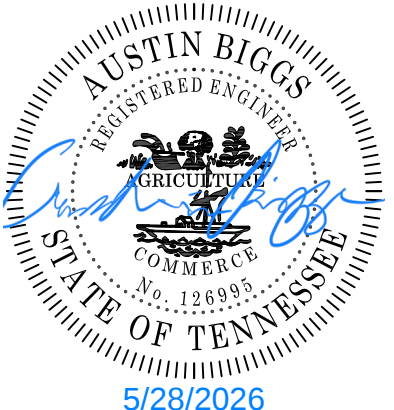
DWG.	REV.	DESCRIPTION
		10-101.00 STANDARDS ROADWAY DRAWINGS
RD11-SE-1		TRANSITION AND CROSS SLOPE DETAILS
RD11-SE-2		SUPERELEVATION TRANSITION DETAILS FOR UNDIVIDED ROADWAYS
RD11-SE-2A		SUPERELEVATION TRANSITION SECTIONS FOR UNDIVIDED ROADWAYS
RD11-LR-1		MINIMUM RUNOFF LENGTHS (LR) FOR URBAN HIGHWAY
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
RD18-TS-5	10-01-25	URBAN MINOR ARTERIAL (2-3 LANE)
		10-102.00 PIPE CULVERTS AND ENDWALLS
D-PB-1	03-01-23	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PB-3	11-30-20	INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PEW-1		PROTECTED ENDWALLS FOR ROUND & OVAL PIPES (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)
		10-103.00 CATCH BASINS AND MANHOLES
D-RL-2		ROUND LID DETAILS FOR DOUBLE CURB AND WALL INLET
D-RS-1		PRECAST ROUND STRUCTURES (48” THRU 120”)
D-RS-2		PRECAST ROUND STRUCTURES REINFORCEMENT DETAILS
D-RS-3		MISCELLANEOUS DETAILS FO ROUND STRUCTURES
		10-105.00 ROADWAY, PAVEMENT APPURTENANCES, AND FENCES
RP-D-16	04-01-25	DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS
RP-SC-1	05-04-22	SLOPING CONCRETE CURB AND CURB AND GUTTER
RP-VC-10	03-04-21	VERTICAL CONCRETE CURB AND CURB AND GUTTER (FOR 8” TO 12” GUTTER DEPTH)
S-F-1	03-01-23	HIGH VISIBILITY FENCE
		10-106.00 MULTIMODAL
MM-PM-2	07-30-24	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANE OR ROUTES
MM-PM-3	06-15-21	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES ON URBAN ROADWAYS
MM-PM-4		SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES
MM-PM-5	05-04-22	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES AT INTERSECTIONS
MM-BPR-3		BARRIER SLOPED END TREATMENT
MM-PS-1		DETAILS FOR PEDESTRIAN STEPS AND HANDRAILS

DWG.	REV.	DESCRIPTION
MM-SW-1	07-07-23	DETAILS FOR CONCRETE SIDEWALKS
MM-SW-2		ALTERNATE DETAILS FOR CONCRETE SIDEWALK (REHABILITATION)
MM-TS-1	06-15-21	BIKE ACCOMMODATION DESIGN GUIDANCE
		10-107.00 SAFETY DESIGN AND GUARDRAILS
S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
S-PL-1	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED
S-PL-1A	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED (FOR RIGID OBJECTS)
S-PL-3	03-01-23	SAFETY PLAN MINIMUM INSTALLATION AT BRIDGE ENDS
S-PL-6	07-30-24	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
S-GR31-1	03-13-25	GUARDRAIL DETAILS
S-GR31-1A	06-28-19	GUARDRAIL AND BLOCK-OUT DETAILS
S-GR31-1B		GUARDRAIL FASTENING HARDWARE
S-GR31-1C	07-07-23	GUARDRAIL GENERAL NOTES AND POST DETAILS
S-GR31-1D	03-01-23	GUARDRAIL POST PLACEMENT IN ROCK
S-GRC-4	01-30-25	GUARDRAIL CONNECTION TO BRIDGE RAILING CONCRETE PARAPET
S-GRC-6	07-07-23	GUARDRAIL CONNECTION TO BRIDGE ENDS FOR LOW SPEED ROADWAYS
S-GRT-1B		LAYOUT OF FLARED GUARDRAIL (TL- 2)
S-GRT-2P	10-16-20	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
S-GRT-3	06-28-19	TYPE 21 GUARDRAIL END TERMINAL
S-GR28-1M	06-15-21	W-BEAM & THRIE BEAM BARRIER RAIL AND RUB RAIL DETAILS
S-GR28-2M	06-28-19	GUARDRAIL HARDWARE DETAILS
S-GRC-1M		GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER WALL
		10-109.00 EROSION PREVENTION AND SEDIMENT CONTROL
EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3C	03-01-23	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4
EC-STR-47		CATCH BASIN FILTER ASSEMBLY (TYPE 7)
EC-STR-47A		CATCH BASIN FILTER ASSEMBLY (TYPE 7) SLIPCOVER DETAILS
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-30		INSTREAM DIVERSION (WITHOUT TRAFFIC)
EC-STR-30A		INSTREAM DIVERSION (WITH TRAFFIC)
EC-STR-31	05-04-22	TEMPORARY DIVERSION CHANNEL
EC-STR-31A	04-01-08	TEMPORARY DIVERSION CHANNEL DESIGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCT.	2025	94004-2234-04	1A
PIH	2025	94004-3234-04	1A
PS&E	2026	94004-3234-04	1A

REV. 05/28/26 ADDED ROADWAY-SIGN2 TO INDEX.

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX
AND
STANDARD
ROADWAY
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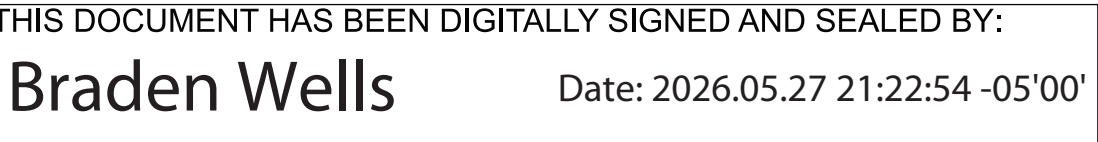
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5/28/2026

ESTIMATED ROADWAY QUANTITIES



GRESHAM SMITH
222 2ND AVE. SOUTH
NASHVILLE, TN 37201
BRADEN WELLS, P.E. NO. 127387

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

SHEET NAME	SHEET NO.
SIGNATURE SHEET	STRUCTURE-SIGN2
INDEX OF DRAWINGS	U-100-665
BRIDGE GENERAL NOTES.....	U-100-666
ESTIMATED BRIDGE QUANTITIES.....	U-100-667
SUPERSTRUCTURE	U-100-671
ABUTMENT NO. 2	U-100-680

YEAR	PROJECT NO.	SHEET NO.
2026	94004-3234-04	STRUCTURE-SIGN 2

REV. 05/28/2026: ADDED SHEET

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE
SHEET

LIST OF DRAWINGS

TITLE	DWG. NO.	LAST REV. DATE
SIGNATURE SHEET	STRUCTURE-SIGN1	
SIGNATURE SHEET	STRUCTURE-SIGN2	05/28/2026
LAYOUT OF BRIDGE	U-100-664	
INDEX OF DRAWINGS	U-100-665	05/28/2026
BRIDGE GENERAL NOTES	U-100-666	05/28/2026
ESTIMATED BRIDGE QUANTITIES	U-100-667	05/28/2026
FOUNDATION DATA LAYOUT	U-100-668	
FOUNDATION DATA LAYOUT	U-100-668A	
CONSTRUCTION SEQUENCE	U-100-669	
CONSTRUCTION SEQUENCE	U-100-670	
SUPERSTRUCTURE	U-100-671	05/28/2026
SUPERSTRUCTURE DETAILS	U-100-672	
SUPERSTRUCTURE DETAILS	U-100-673	
SUPERSTRUCTURE DETAILS	U-100-674	
SUPERSTRUCTURE DETAILS	U-100-675	
PRESTRESSED BOX BEAM SPANS 1 & 4	U-100-676	
PRESTRESSED BOX BEAM SPANS 2 & 3	U-100-677	
ABUTMENT NO. 1	U-100-678	
ABUTMENT NO. 1 DETAILS	U-100-679	
ABUTMENT NO. 2	U-100-680	05/28/2026
ABUTMENT NO. 2 DETAILS	U-100-681	
PIER NO. 1	U-100-682	
PIER NO. 2	U-100-683	
PIER NO. 3	U-100-684	
PIER NO. 1 - NO. 3 DETAILS	U-100-685	
MISCELLANEOUS DETAILS	U-100-686	
MISCELLANEOUS DETAILS	U-100-687	
MISCELLANEOUS DETAILS	U-100-688	
MISCELLANEOUS DETAILS	U-100-689	
FINAL FOUNDATION DATA	U-100-690	
BILL OF STEEL	U-100-691	
BILL OF STEEL	U-100-692	

LIST OF STANDARD DRAWINGS

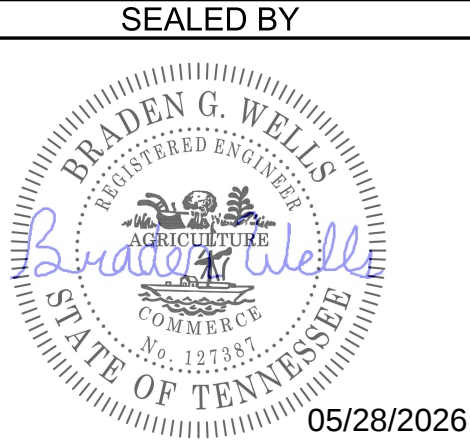
TITLE	DWG. NO.	LAST REV. DATE
STEEL SLIDER PLATE ASSEMBLIES FOR SINGLE SLOPE CONCRETE		
PARAPET AND BRIDGE DECK DRAIN DETAILS	STD-1-2SS	05-31-24
REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS	STD-1-5	06-05-23
STANDARD PILE DETAILS	STD-5-1	
STANDARD SEISMIC DETAILS	STD-6-1	12-08-23
STANDARD REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLABS	STD-9-1	10-07-08
MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS	STD-10-1	06-05-23
MISC. ABUTMENT AND PAVEMENT AT BRIDGE ENDS BACKFILL DETAILS	STD-10-2	06-05-23
STANDARD DETAILS FOR PRESTRESSED BOX BEAMS	STD-14-3	03-06-24

LIST OF SPECIAL PROVISIONS

NO.	REGARDING	REV. DATE
202ACM	REMOVAL OF ASBESTOS CONTAINING MATERIALS (ACM)	07-07-14
604CR	REPAIR OF BRIDGE DECK CRACKS	02-08-21

CONST. NO.: 94004-3234-04

PROJECT NO.		YEAR	SHEET NO.
		2026	B-2
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	05-28-2026	BGW	UPDATED REVISION DATES
	- -		
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
INDEX OF DRAWINGS
STATE ROUTE 6 OVER HARPETH RIVER
BRIDGE I.D. NO. 94SR0060013
STA. 104+77.58
LOG MILE - 12.51
WILLIAMSON COUNTY
2026

PIN NO.: 124873.00
DESIGN BY: B. WELLS DATE: 08/2025
DRAWN BY: B. WELLS DATE: 09/2025
SUPERVISED BY: D. MCCRARY DATE: 09/2025
CHECKED BY: H. NEAL DATE: 11/2025



U-100-665

GENERAL NOTES

SPECIFICATIONS & LOADING

- (1) **CONSTRUCTION SPECIFICATIONS:** TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 1, 2021 EDITION).
- (2) **DESIGN SPECIFICATIONS:** 9TH EDITION (2021) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND THE 2ND EDITION (2011) AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN WITH INTERIMS.
- (3) **LOADING:**
- A. HL-93 LIVE LOAD INCREASED BY 10% (MULTIPLIED BY 1.1) IN ADDITION TO ALL LOAD FACTORS SPECIFIED BY AASHTO FOR ALL APPLICABLE LOAD COMBINATIONS
 - B. SEISMIC DESIGN CATEGORY "A" WITH A_S=0.106. S_{DS}=0.255. S_{D1}=0.134. (1000 YEAR RETURN PERIOD)
 - C. DEAD LOAD INCLUDES 35 LB/SQ. FT. FOR FUTURE WEARING SURFACE.

CONCRETE, REINFORCING & FORMING

- (4) **CONCRETE:** TO BE CLASS A (CAST-IN-PLACE) F'C = 3000 PSI EXCEPT AS NOTED OTHERWISE.
- (5) **BRIDGE DECKS:** CLASS DS CONCRETE FOR BRIDGE DECKS SHALL BE IN ACCORDANCE WITH SECTION 604 OF THE STANDARD SPECIFICATIONS.
- (6) **BRIDGE DECK SURFACE FINISH:** TO BE IN ACCORDANCE WITH METHOD 1 IN ARTICLE 604.22 OF THE STANDARD SPECIFICATIONS.
- (7) **BRIDGE DECK FORMS:** BRIDGE DECK FORMS FOR CONCRETE DECKS SHALL BE CONSTRUCTED USING EITHER REMOVABLE FORMS OR PERMANENT FORMS. PERMANENT FORMS MAY BE EITHER REMAIN-IN-PLACE STEEL. FORMS SHALL BE ATTACHED BY MEANS OTHER THAN WELDING TO MAIN STRUCTURAL MEMBERS OR REINFORCING STEEL. TEMPORARY ERECTION DIAPHRAGMS MUST BE USED AT THE ENDS OF PRECAST CONCRETE GIRDERS WHERE END DIAPHRAGMS, SUPPORT DIAPHRAGMS, OR ABUTMENT ENDWALLS ARE TO BE POURED CONCURRENTLY WITH THE DECK AND SHALL BE PROVIDED ELSEWHERE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS TO PREVENT GIRDER ROTATION. SEE STANDARD DRAWING STD-14-3, AND ARTICLE 604.05 OF THE STANDARD SPECIFICATIONS.
- (8) **REINFORCING STEEL:** SHALL BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. SEE SECTIONS 604 AND 907 OF THE STANDARD SPECIFICATIONS.

FOUNDATION ELEMENTS

- (9) **FOUNDATION PREPARATION:** SEE SECTION 204 OF THE STANDARD SPECIFICATIONS. IF IT IS DETERMINED THAT COFFERDAMS ARE REQUIRED, THEY SHALL BE IN ACCORDANCE WITH SECTION 204.09 OF THE STANDARD SPECIFICATIONS.
- (10) **SPREAD FOOTINGS FOR BENTS:** FOOTINGS SHALL BE EMBEDDED 6 INCHES INTO SOUND ROCK. AS AN ALTERNATE, FOOTINGS MAY BE PLACED DIRECTLY ON CLEAN, SOUND ROCK WITH #8 BARS (1'-0" EMB., 1'-0" PROJ.) SPACED AT 2'-0" MAXIMUM GRID WITH A MAXIMUM EDGE DISTANCE TO THE OUTER BARS OF 1'-6" ALONG BOTH THE LENGTH AND WIDTH OF THE FOOTINGS. AFTER EXCAVATION TO ROCK FOR FOOTING HAS BEEN COMPLETED, HOLES 6" DEEP SHALL BE DRILLED AT POINTS DESIGNATED BY THE ENGINEER. FROM THE RESULTS OBTAINED, THE ENGINEER OF STRUCTURES SHALL DETERMINE THE FINAL FOOTING ELEVATIONS. NO REINFORCING STEEL FOR BENT COLUMNS OR FOOTINGS SHALL BE ORDERED UNTIL FINAL FOOTING ELEVATIONS HAVE BEEN DETERMINED.
- (11) **ABUTMENTS ON FILL:** THE FILLS AT THE ENDS OF THE BRIDGE SHALL BE IN PLACE AND THOROUGHLY COMPACTED BEFORE ANY ABUTMENT PILES ARE DRIVEN.

- (12) **END-BEARING STEEL PILES:** TO BE HP10x42 DRIVEN TO REFUSAL ON ROCK OR A MINIMUM BEARING OF 109 TONS FOR THE ABUTMENTS. ALL PILES SHALL BE ASTM A709 GRADE 50 STEEL.
- (13) **PILE TIPS:** PILES SHALL BE EQUIPPED WITH CAST STEEL POINTS. ALSO, SEE STANDARD DRAWING STD-5-1 FOR ADDITIONAL NOTES.
- (14) **STREAM CHANNEL:** ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G. PIER/BENT FOOTING, RIP-RAP PLACEMENT, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR TEMPORARY DIVERSION CHANNELS (EC-STR-31).

MISCELLANEOUS GENERAL NOTES

- (15) **UTILITIES:** IT IS INTENDED THAT THE COST OF MATERIALS AND LABOR NECESSARY FOR THE COMPLETE INSTALLATION OF UTILITIES SHALL BE BORNE BY OTHERS AND SHALL NOT BE PAID FOR AS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL COOPERATE WITH OTHERS IN THE INSTALLATION OF UTILITIES WITH NO ADDITIONAL COMPENSATION ALLOWED THE CONTRACTOR AS A RESULT.
- (16) **SHOP DRAWINGS:** SEE SECTION 105.02 OF THE STANDARD SPECIFICATIONS.
- (17) **BARRIER RAIL SYSTEMS:** BUILD RAILS AND COLUMNS ACCORDING TO DWG. NO. U-100-686, U-100-687, & U-100-689. THE TRAFFIC RAILS, PEDESTRIAN RAILS, AND PEDESTRIAN RAIL COLUMNS SHALL BE FORMED AND CAST PLUMB, NOT PERPENDICULAR TO THE SLAB. THE DIMENSIONS AT THE TRAFFIC FACE SHALL BE KEPT CONSTANT, WITH VARIATION DUE TO CROSS-SLOPE ACCOMMODATED AT THE REAR FACE.
- (18) **RIP-RAP:** MACHINED RIP-RAP SHALL BE CLASS B IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS AND SHALL BE MEASURED AND PAID FOR UNDER ROADWAY ITEM NO.709-05.08.
- (19) **VALUE ENGINEERING ALTERNATE BRIDGE DESIGN CRITERIA:** ALTERNATE BRIDGE DESIGN PROPOSALS MAY NOT DIMINISH THE FUNCTIONAL OR STRUCTURAL EQUIVALENCY OF THE BRIDGE AND MUST MEET OR EXCEED THE CAPACITIES OF THE CONTRACT PLANS STRUCTURE AT ALL LIMIT STATES IN AASHTO TABLE 3.4.1-1. ADDITIONALLY, THE WATERWAY OPENING AND FLOOD CLEARANCES MAY NOT BE REDUCED. FOR GRADE SEPARATIONS, THE HORIZONTAL CLEARANCES MAY NOT BE REDUCED, NOR MAY THE VERTICAL CLEARANCES BE LESS THAN THE MINIMUM ACCEPTABLE FOR THE TYPE FACILITY CROSSED.
- (20) **POSTING LOAD LIMITS:** THE CONTRACTOR SHALL ERECT POSTING SIGNS AT EACH APPROACH TO THE EXISTING BRIDGE STATING THE LOAD LIMIT TO BE 40 TONS. ADDITIONALLY, THE CONTRACTOR SHALL MAINTAIN THE EXISTING STRUCTURE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF REQUIRED LABOR AND MATERIALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.
- (21) **REQUIREMENTS AND RESTRICTIONS FOR PHASE CONSTRUCTION**
- A. THE PHASE CONSTRUCTION SEQUENCE MAY PROHIBIT THE EXTRACTION OF SOME SHEET PILING. ALL COSTS ASSOCIATED WITH SHEET PILING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.
 - B. THE LOCATION OF LONGITUDINAL CONSTRUCTION JOINTS SHALL NOT BE CHANGED TO ACCOMMODATE STAY-IN-PLACE DECK FORMS.
 - C. NO SHEET PILES OR BEARING PILES MAY BE DRIVEN FROM THE EXISTING OR PROPOSED STRUCTURE.
 - D. 2 – 10 FT TRAFFIC LANES SHALL BE MAINTAINED AT ALL TIMES.
- (22) **FINISHING CONCRETE SURFACES:** CONCRETE FINISHING SHALL BE IN ACCORDANCE WITH SECTION 604.21 OF THE STANDARD SPECIFICATIONS. A CLASS I FINISH FOLLOWED BY AN APPLIED TEXTURE FINISH SHALL BE USED IN LIEU OF A CLASS II FINISH. NO TEXTURE FINISH SHALL BE APPLIED PRIOR TO COMPLETION OF PAVING AND HAULING OPERATIONS AT THE BRIDGE SITE. THE APPLIED TEXTURE FINISH SHALL BE MEASURED AND PAID FOR UNDER ITEM NO. 604-04.01

NOTES:

- COLUMN POSTS FOR PEDESTRIAN RAIL TO RECEIVE TEXTURE COATING ON ALL EXPOSED FACES.
- COST OF TEXTURE COATING SHALL BE INCLUDED IN ITEM NO.604-04.01.
- IN ADDITION TO THE SURFACES SHOWN IN THE APPLIED TEXTURE FINISH SKETCH, ALL EXPOSED SURFACES OF THE WINGWALLS, ABUTMENT, PIERS, AND EXTERIOR PORTIONS OF THE ENDWALLS SHALL RECEIVE AN APPLIED TEXTURE FINISH (GRAY, AMS-STD-595A, COLOR NO. 36440)
- BEFORE APPLYING ANY TEXTURE FINISH, ALL SURFACES SHALL BE COMPLETELY CLEANED OF ALL DEBRIS AND FOREIGN MATERIALS.
- THE CONTRACTOR SHALL USE CONTAINMENT SCREENS OR OTHER MEASURES AS NECESSARY TO PREVENT ANY TEXTURE COATING FROM ENTERING THE ENVIRONMENT. CONTAINMENT MEASURES SHALL BE APPROVED BY THE ENGINEER AND THE COST SHALL BE INCLUDED IN ITEM NO.604-04.01.
- WHEN APPLICABLE, TEXTURE COATING TO BE PLACED ON FORMLINED CONCRETE WHEN CONCRETE HAS APPROPRIATELY CURED.

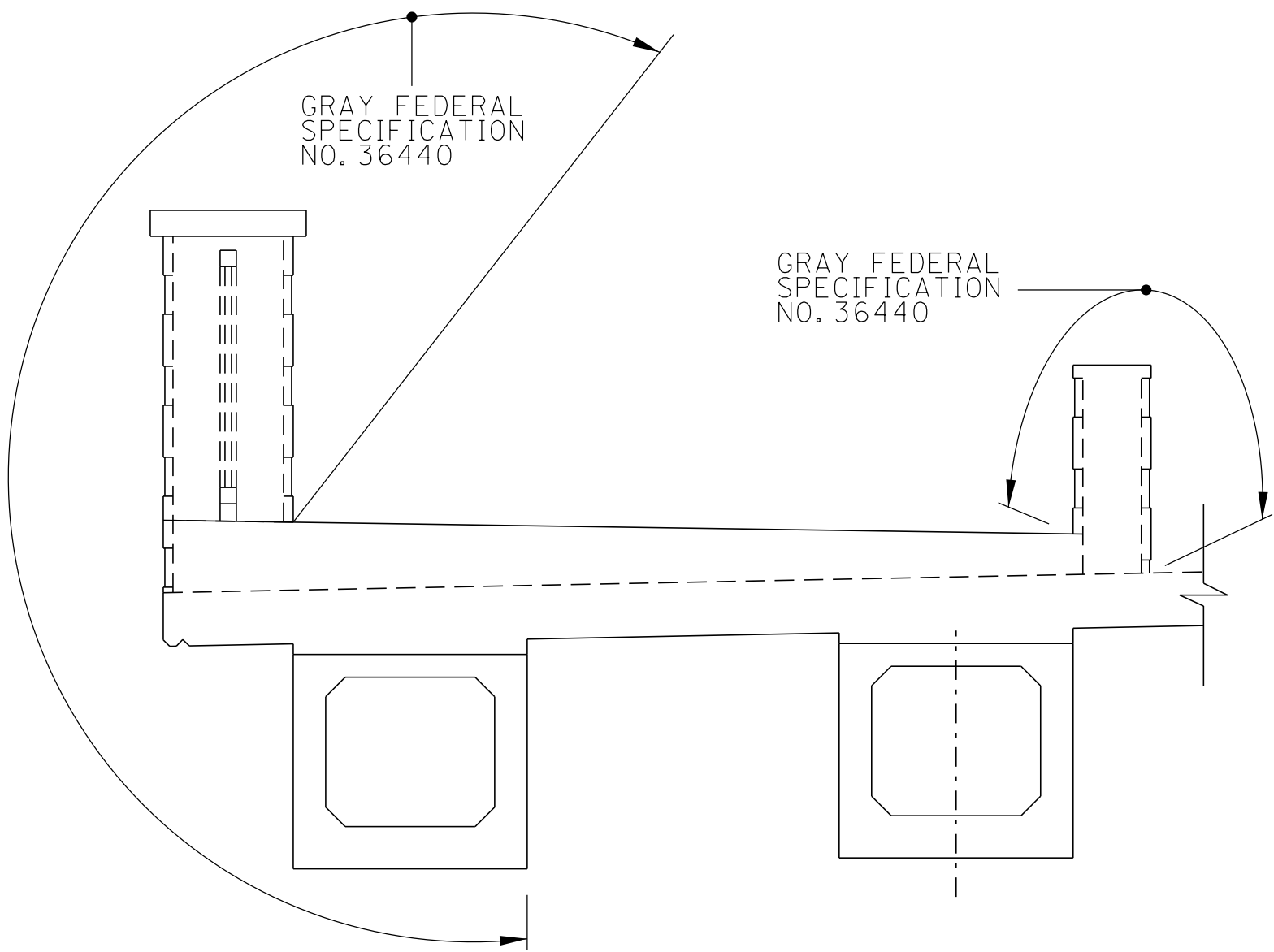
SPECIAL NOTES

- (23) **SPECIAL NOTE TO CONTRACTOR:** CONTRACTOR SHALL USE EXTREME CARE AND TAKE ANY MEASURES NECESSARY TO ENSURE THAT NO DEBRIS IS DROPPED INTO THE STREAM. ANY DEBRIS THAT IS ALLOWED TO DROP ON THE BANKS BELOW THE BRIDGE SHALL NOT BE ALLOWED TO ENTER THE STREAM AND SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. COST OF REMOVAL AND DISPOSAL OF DEBRIS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.
- (24) **ASBESTOS:** OUR ACM (ASBESTOS CONTAINING MATERIAL) SURVEY INDICATED THAT THIS BRIDGE CONTAINS ELEMENTS WITH ACM. TO MINIMIZE THE AMOUNT OF HAZARDOUS MATERIAL WASTE, THE ELEMENTS CONTAINING ASBESTOS SHALL BE REMOVED PRIOR TO DEMOLITION OF THE ENTIRE STRUCTURE. THE CONTRACTOR IS REQUIRED TO TAKE ALL MANDATORY SAFEGUARDS PRESCRIBED BY STATE AND FEDERAL LAW FOR BOTH WORKER PROTECTION AND HAZARDOUS MATERIAL DISPOSAL.

SPECIAL NOTES FOR UTILITES

- (25) CARE SHALL BE TAKEN WHEN REMOVING BRIDGE COMPONENTS SO AS TO NOT DISTURB OR DAMAGE ANY UTILITIES.
- (26) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD THE EXISTING UTILITES FROM DAMAGE DURING CONSTRUCTION OF THE PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER OR AROUND UTILITES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (27) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS IN ACCORDANCE WITH TCA 65-31-106.
- (28) INSERTS FOR UTILITY HANGERS ARE REQUIRED AND ARE TO BE IN PLACE PRIOR TO POURING THE DECK. SEE UTILITY SHEETS FOR THE INSERTS, LOCATIONS, AND OTHER PERTINENT INFORMATION.
- (29) **SPECIAL NOTE – EXISTING 54" SANITARY SEWER:** THE LOCATION AND LIMITS OF THE EXISTING 54-INCH SANITARY SEWER SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND ~~HAVE NOT BEEN FIELD VERIFIED~~. THE CONTRACTOR SHALL EXERCISE ~~EXTREME CAUTION~~ DURING ALL PHASES OF CONSTRUCTION, INCLUDING GRADING, PILE INSTALLATION, AND BRIDGE WORK, DUE TO THE CLOSE PROXIMITY OF THIS SEWER TO THE PROPOSED IMPROVEMENTS. PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL:
- A. FIELD LOCATE AND VERIFY THE EXACT HORIZONTAL AND VERTICAL POSITION OF THE EXISTING 54-INCH SANITARY SEWER.
 - B. IMPLEMENT APPROPRIATE MEASURES TO PROTECT THE SEWER FROM DAMAGE THROUGHOUT THE DURATION OF THE PROJECT.
 - C. COORDINATE WITH THE OWNER AND ENGINEER IMMEDIATELY IF ANY CONFLICTS OR DISCREPANCIES ARE DISCOVERED.

THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR LOCATING, MAINTAINING, AND PROTECTING THE EXISTING SANITARY SEWER DURING CONSTRUCTION. ANY DAMAGE TO THE SEWER SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER.



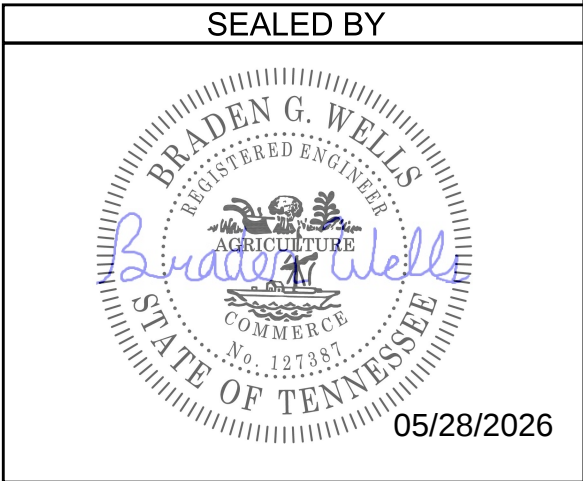
APPLIED TEXTURE FINISH SKETCH

CONST. NO.: 94004-3234-04

PROJECT NO.		YEAR	SHEET NO.
		2026	B-3
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	05-28-2026	BGW	UPDATED NOTE NO. 5
	- -		
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PIN NO.: 124873.00
DESIGN BY: B. WELLS DATE: 08/2025
DRAWN BY: B. WELLS DATE: 09/2025
SUPERVISED BY: D. MCCRARY DATE: 09/2025
CHECKED BY: H. NEAL DATE: 11/2025



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE GENERAL NOTES

STATE ROUTE 6 OVER HARPETH RIVER
BRIDGE I.D. NO. 94SR0060013
STA. 104+77.58
LOG MILE - 12.51
WILLIAMSON COUNTY
2026

U-100-666

🏗️ ESTIMATED BRIDGE QUANTITIES												
	ITEM NO.	DESCRIPTION	UNIT	94004-3234-04 QUANTITY	CITY OF FRANKLIN QUANTITY	SUPERSTRUCTURE	ABUTMENT NO. 1	PIER NO. 1	PIER NO. 2	PIER NO. 3	ABUTMENT NO. 2	
(1)	202-01.05	REMOVAL OF ASBESTOS (UTILITY PIPING)	LS	1								
(2)	202-04.01	REMOVAL OF STRUCTURES (BRIDGE NO. 94-SR006-12.51)	LS	1								
(3)	204-02.01	DRY EXCAVATION (BRIDGES)	C.Y.	1303				497	18	788		
(4)	204-03.01	WET EXCAVATION (BRIDGES)	C.Y.	1093				418	326	349		
(5)	204-04.01	ROCK EXCAVATION (BRIDGES)	C.Y.	24				8	8	8		
(6)	204-05	ROCK DRILLING (BRIDGES)	L.F.	72				24	24	24		
(7)	303-01.02	GRANULAR BACKFILL (BRIDGES)	TON	89			37				52	
(8)	602-10.05	BRACING REPAIRS	LS	1								
(9)	604-02.03	EPOXY COATED REINFORCING STEEL	LB.	186022		182554	1668				1800	
(10)	604-03.01	CLASS A CONCRETE (BRIDGES)	C.Y.	430			39	113	112	111	55	
(11)	604-03.02	STEEL BAR REINFORCEMENT (BRIDGES)	LB.	105571		2399	4799	31098	30570	29822	6883	
(12)	604-03.04	PAVEMENT @ BRIDGE ENDS	S.Y.	259		259						
(13)	604-03.07	CLASS A CONCRETE (SIDEWALK)	C.Y.	118	82	200						
(14)	604-03.32	CLASS DS CONCRETE	C.Y.	460	64	524						
(15)	604-04.01	APPLIED TEXTURE FINISH (NEW STRUCTURES)	S.Y.	1798		1067	49	201	236	182	63	
(16)	604-10.14	REMOVE EXISTING WEARING SURFACE	LS	1								
(17)	606-02.03	STEEL PILES (10 INCH)	L.F.	923			337				586	
(18)	606-02.06	PILE TIPS (STEEL PILES, 10 INCH)	EACH	30			11				19	
(19)	610-10.45	DECK DRAINS (GRATE INLET DRAIN - TYPE 2)	EACH	18		18						
(20)	615-02.05	PRESTRESSED CONCRETE BOX BEAM (33" X 36")	L.F.	1908	545	2453						
(21)	617-02	BRIDGE DECK CRACK SEALING	L.F.	321		321						
(21)	617-05	SEALANT (HMWM)	GAL.	2		2						
(22)	620-03.11	CONCRETE PARAPET (MEDIAN TRAFFIC BARRIER)	L.F.		560	560						
(23)	620-03.12	CONCRETE PARAPET (METAL PEDESTRIAN HANDRAIL WITH CONCRETE COLUMNS)	L.F.	590		590						
(24)	621-05.02	TEMPORARY SHORING	LS	1								
(25)	710-09.01	6" PERFORATED PIPE WITH VERTICAL DRAIN SYSTEM	L.F.	142			59				83	
(26)	710-09.02	6" PIPE UNDERDRAIN	L.F.	38			16				22	

FOOTNOTES:

- (1) THE FOLLOWING ASBESTOS CONTAINING MATERIAL ELEMENTS WERE DETERMINED TO BE LOCATED ON THE EXISTING BRIDGE: ASBESTOS IS LOCATED IN THE EXISTING PARAPETS. 2" TRANSITE CONDUITS LINES. SEE SPECIAL PROVISION NO. 202ACM FOR ADDITIONAL DETAILS.
- (2) LUMP SUM: COST OF REMOVAL OF EXISTING STRUCTURE AND APPROACHES. EXISTING BRIDGE CONSISTS OF REINFORCED CONCRETE DECK GIRDERS WITH CONCRETE MULTI-COLUMN BENTS AND WALL PIERS. EXISTING BRIDGE TOTAL LENGTH = 268'-0". ITEM ALSO INCLUDES ALL FORMWORK REQUIRED SO THAT NO DEBRIS IS ALLOWED TO FALL INTO THE RIVER BELOW.
- (3) EXCAVATION BASED ON FINAL PROFILE ABOVE NORMAL POOL AT ABUTMENTS AND BENTS.
- (4) EXCAVATION BASED ON FINAL PROFILE BELOW NORMAL POOL AT ABUTMENTS AND BENTS.
- (5) EXCAVATION BASED ON NECESSARY ROCK EXCAVATION FOR FOUR (4) SPREAD FOOTINGS AT EACH PIER LOCATION
- (6) ROCK DRILLING INCLUDES ALL COST OF LABOR AND EQUIPMENT TO DRILL A 6" CORE HOLE AT EACH PIER SPREAD FOOTING TO VERIFY ROCK COMPETENCY.
- (7) INCLUDES ALL COSTS ASSOCIATED WITH THE PLACEMENT OF TYPE "A" GRADING "D" AGGREGATE ALONG THE BACK FACE OF THE BACKWALL ACCORDING TO STD. DWG. STD-10-2
- (8) LUMP SUM: INCLUDES COSTS FOR ALL LABOR AND MATERIALS NECESSARY FOR ANY TEMPORARY FALSEWORK AND TEMPORARY SUPPORT FOR THE EXISTING OR NEW STRUCTURE FOR THE DURATION OF THE PROJECT. BRACING PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- (9) INCLUDES EPOXY COATED REINFORCING STEEL AS DENOTED BY THE SUFFIX "E" AS SHOWN IN THE PLANS AND ON THE BILL OF STEEL AS SHOWN ON DWG. NOS. U-100-691 & U-100-692.
- (10) INCLUDES ALL LABOR AND MATERIAL TO PLACE CLASS "A" CONCRETE IN NEW ABUTMENT AND PIERS AS DETAILED THROUGHOUT THE PLAN SET. THE COST OF ALL MATERIALS FOR THE INSTALLATION OF XX ANCHOR BOLT ASSEMBLIES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLASS "A" CONCRETE (BRIDGES), ITEM NO. 604-03.01
- (11) INCLUDES ALL LABOR AND MATERIALS TO INSTALL REINFORCING STEEL IN NEW SUPERSTRUCTURE, ABUTMENT AND PIERS AS DETAILED THROUGHOUT THE PLANS AND ON THE BILL OF STEEL AS SHOWN ON DWG. NOS. U-100-691 & U-100-692.
- (12) ITEM INCLUDES ALL LABOR AND MATERIALS TO PLACE PAVEMENT AT BRIDGE ENDS AS DETAILED ON STD-DWG. STD-1-5 AND STD-10-2 AND AS SHOWN ON DWG. NO. U-100-688. PRIOR TO CONSTRUCTION OF PAVEMENT AT BRIDGE ENDS, THE CONTRACTOR SHALL SUBMIT A PROPOSED BILL OF STEEL TO THE ENGINEER FOR APPROVAL.
- (13) ITEM INCLUDES ALL LABOR AND MATERIAL ASSOCIATED WITH THE PLACEMENT OF CLASS "A" CONCRETE FOR THE SIDEWALK AS SHOWN ON DWG. NOS. U-100-669 THRU U-100-674.
- (14) ITEM INCLUDES ALL LABOR AND MATERIAL NECESSARY TO PLACE CLASS "DS" CONCRETE IN THE BRIDGE DECKS AND DIAPHRAGMS AT THE PIERS AS DETAILED ON DWG. NOS. U-100-669 THRU U-100-674.
- (15) ITEM INCLUDES ALL LABOR AND MATERIAL NECESSARY TO PLACE NEW APPLIED TEXTURE FINISH AS SHOWN ON APPLIED TEXTURE FINISH SKETCH FOR FULL LENGTH OF BRIDGE. ITEM ALSO INCLUDES PLACEMENT OF TEXTURE FINISH TO ALL EXPOSED SUBSTRUCTURE SURFACES (I.E. COLUMNS, CAP, ABUTMENT BEAM, ABUTMENT BACKWALL, WINGWALLS).
- (16) INCLUDES COST OF ALL LABOR AND MATERIALS REQUIRED TO REMOVE AND DISPOSE OF THE EXISTING ASPHALT WEARING SURFACE (APPROXIMATE DEPTH = 5").
- (17) INCLUDES ALL COSTS ASSOCIATED WITH DRIVING AND INSTALLATION OF THE PILES IN THE ABUTMENTS AS SHOWN ON DWG. NOS. U-100-678 THRU U-100-681.
- (18) THE UNIT PRICE BID FOR THE CAST STEEL POINTS SHALL INCLUDE FURNISHING AND INSTALLATION TO THE PILES.
- (19) ITEM INCLUDES COST OF DECK DRAIN ASSEMBLIES AND ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR INSTALLATION AS DEPICTED ON STD. DWG. NO. STD-1-2SS AND DWG. NO. U-100-664. DISREGARD THE NOTE ON STD-1-2SS INSTRUCTING THAT THE DECK DRAINS BE PAID FOR UNDER THE PARAPET ITEM NUMBER.
- (20) INCLUDES ALL COST AND MATERIALS FOR FABRICATION, DELIVERY, AND INSTALLATION OF PRECAST PRESTRESSED CONCRETE BOX BEAMS AS DETAILED ON DWG. NOS. U-100-676 AND U-100-677. COST OF ELASTOMERIC PADS AND RUBBER BONDING CEMENT TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PRESTRESSED BEAMS.
- (21) INCLUDES ALL COST AND MATERIAL FOR INSTALLING BRIDGE DECK CRACK SEALER (HMWM) INCLUDING CRACK PREPARATION, CLEANING, LABOR, AND ALL MISCELLANEOUS MATERIALS REQUIRED TO SEAL THE LONGITUDINAL CONSTRUCTION JOINT ACCORDING TO SPECIAL PROVISION 604CR AND MANUFACTURERS RECOMMENDATIONS.
- (22) ITEM INCLUDES ALL LABOR AND MATERIALS ASSOCIATED WITH THE CONSTRUCTION OF THE INTERIOR MEDIAN RAILS AS SHOWN ON DWG. NOS. U-100-686 AND U-100-689. ITEM ALSO INCLUDES COST OF FURNISHING AND INSTALLING EPOXY COATED REINFORCING STEEL IN THE MEDIAN RAIL AND THE FORMLINER.
- (23) ITEM INCLUDES ALL LABOR AND MATERIALS ASSOCIATED WITH THE CONSTRUCTION OF THE METAL PEDESTRIAN HANDRAIL AND THE COLUMNS BETWEEN THE HANDRAILS AS SHOWN ON DWG. NOS. U-100-686 AND U-100-687. ITEM ALSO INCLUDES COST OF FURNISHING AND INSTALLING EPOXY COATED REINFORCING STEEL IN THE COLUMNS, AND THE FORMLINER ON THE COLUMNS
- (24) INCLUDES COST OF ALL LABOR AND MATERIALS, SUCH AS SHEET PILING, BRACING, ETC., TO TEMPORARILY SECURE AND STABILIZE COMPONENTS OF THE STRUCTURE DURING CONSTRUCTION.
- (25) COST OF POLYETHYLENE SHEETING AND ALL MISCELLANEOUS ITEMS NECESSARY FOR INSTALLATION TO BE INCLUDED IN THE UNIT PRICE BID FOR PERFORATED PIPE.
- (26) INCLUDES ALL LABOR AND MATERIALS TO INSTALL THE 6" PIPE UNDERDRAIN AT EACH ABUTMENT AS DETAILED IN STD. DWG. NO. STD-10-1.

PIN NO.: 124873.00
DESIGN BY: B. WELLS DATE: 08/2025
DRAWN BY: B. WELLS DATE: 09/2025
SUPERVISED BY: D. MCCRARY DATE: 09/2025
CHECKED BY: H. NEAL DATE: 11/2025



CONST. NO.: 94004-3234-04

PROJECT NO.		YEAR	SHEET NO.
		2026	B-4
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	05-28-2026	BGW	CHANGE ITEM NO. 604-03.09 TO 604-03.32 AND UPDATE FOOTNOTES
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
ESTIMATED
BRIDGE QUANTITIES
STATE ROUTE 6 OVER HARPETH RIVER
BRIDGE I.D. NO. 94SR0060013
STA. 104+77.58
LOG MILE - 12.51
WILLIAMSON COUNTY
2026

U-100-667

(LOOKING FORWARD ON SURVEY)
(FROM STA. 103+37.58 TO 105+88.43)

NOTE: SEE DWG. NO. U-100-672 FOR BLOCKOUT DETAIL "A" & BLOCKOUT DETAIL "B"

(LOOKING FORWARD ON SURVEY)

□ DENOTES: CUT A50- BARS AS NECESSARY TO LEAVE 2" CLR. TO BLOCKOUTS

- 1) NO PORTION OF THE SIDEWALK, CONCRETE BARRIER RAILS, OR PEDESTRIAN RAIL SHALL BE POURED UNTIL THE ENTIRE DECK SLAB IS IN PLACE.
- 2) OUTSIDE EDGE OF SLAB AND RAILS TO CONFORM TO HORIZONTAL BREAK POINTS WHERE APPLICABLE.
- 3) ANCHOR BOLTS AT BENTS; ANCHOR BOLT ASSEMBLIES AT BENTS SHALL BE IN ACCORDANCE WITH STANDARD DRAWING STD-6-1.
- 4) WHEN POURING SLAB, PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL OR COUPLERS FOR BARRIER RAILS. THE PARAPET SHALL NOT BE POURED UNTIL THE SLAB IS POURED AND CURED.
- 5) THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SUPPORTING THE BEAMS TO PREVENT DAMAGE DUE TO TWISTING OR OVERTURNING DURING ALL PHASES OF CONSTRUCTION. IT IS REQUIRED THAT ALL TEMPORARY ERECTION DIAPHRAGMS IN A SPAN BE FULLY INSTALLED PRIOR TO POURING ANY PORTION OF THE SLAB IN THAT SPAN.
- 6) THE SUPPORT DIAPHRAGMS AT THE BENTS SHALL BE FORMED AND THE BOTTOM 15 INCHES POURED AS SOON AS POSSIBLE AFTER THE BEAMS HAVE BEEN SET. THE REMAINDER OF THE DIAPHRAGMS SHALL BE POURED CONCURRENTLY WITH THE DECK SLAB. THE BEAMS SHALL ATTAIN AN AGE OF AT LEAST 90 DAYS PRIOR TO POURING THE REMAINDER OF THE SUPPORT DIAPHRAGMS AND DECK SLAB. ALL DIAPHRAGM CONCRETE SHALL BE INCLUDED IN THE QUANTITY FOR CLASS DS CONCRETE.

STATE ROUTE 6 OVER HARPETH RIVER
BRIDGE I.D. NO. 94SR0060013
STA. 104+77.58
LOG MILE - 12.51
WILLIAMSON COUNTY
2026

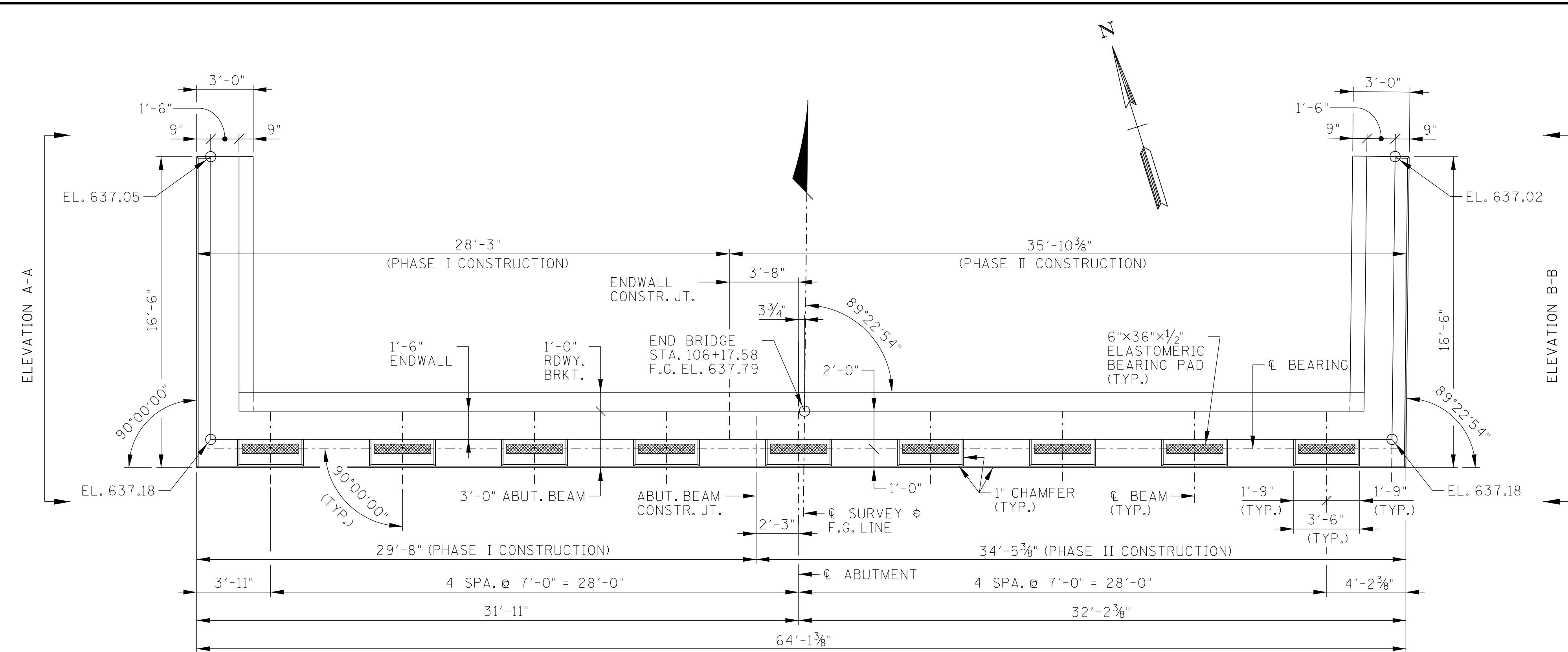
U-100-671

PIN NO.:	124873.00	
DESIGN BY:	B. WELLS	DATE: 08/2025
DRAWN BY:	B. WELLS	DATE: 09/2025
SUPERVISED BY:	D. MCCRARY	DATE: 09/2025
CHECKED BY:	H. NEAL	DATE: 11/2025



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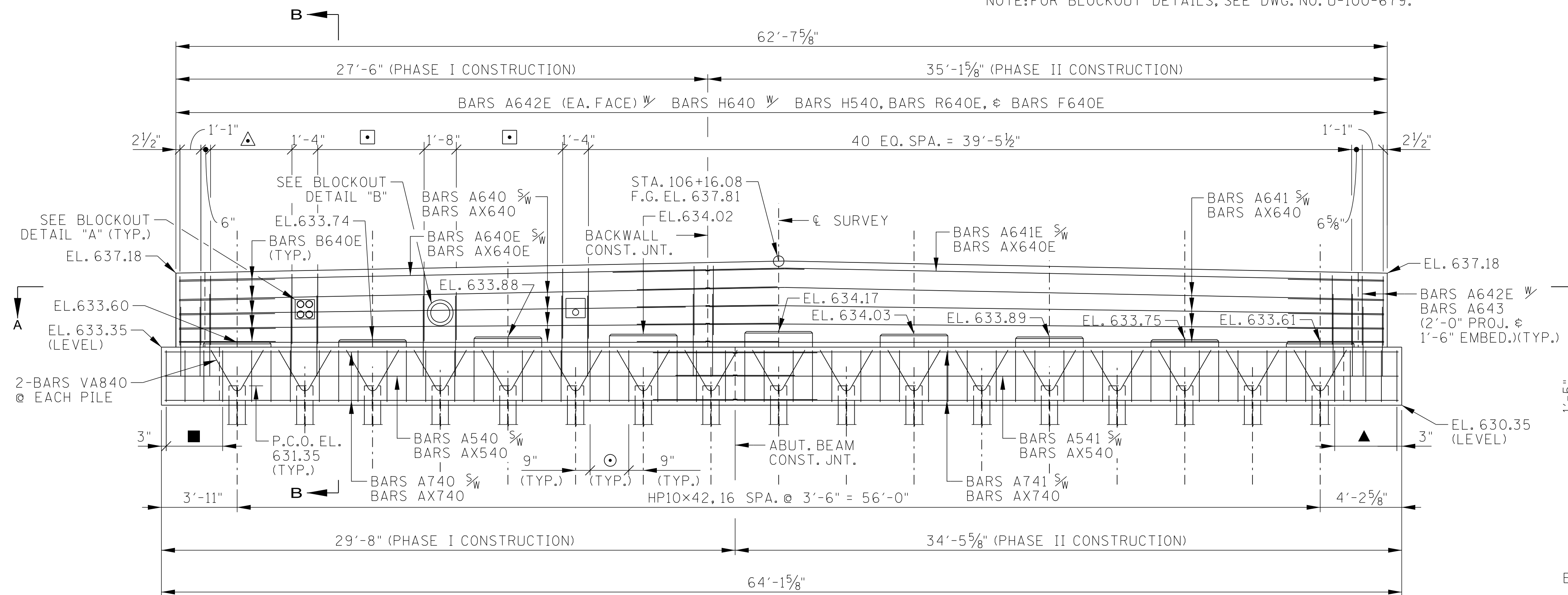


PLAN

NOTE: CONTRACTOR SHALL USE EXTREME CAUTION WHEN DRIVING WINGBEAM PILES DUE TO CLOSE PROXIMITY TO SEWER LINE TO THE NORTH. SEE DWG. NO. U-100-664 FOR APPROX. LOCATION OF EXISTING SEWER LINE.

NOTE: FOR SECTION A-A, SECTION B-B, ELEVATION A-A, AND ELEVATION B-B, SEE DWG. NO. U-100-681.

NOTE: FOR BLOCKOUT DETAILS, SEE DWG. NO. U-100-679.



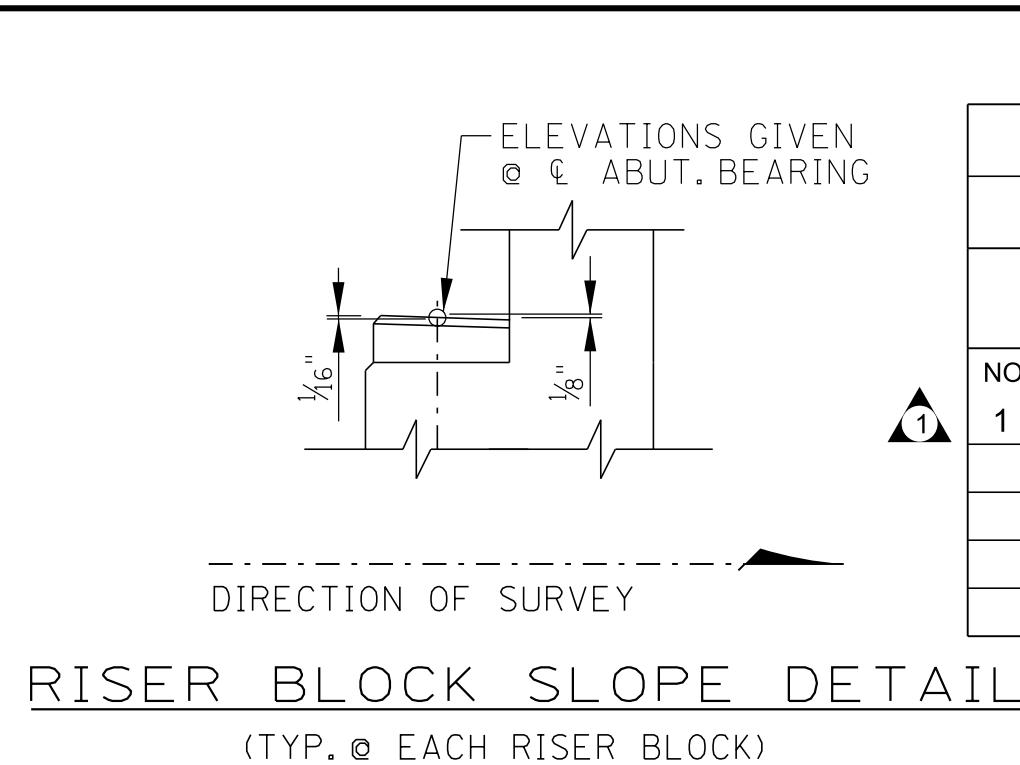
ELEVATION

- DENOTES: BARS L540, 3 EQ SPA. = 2'-11"
○ DENOTES: BARS L540, 2 SPA. @ 1'-0" = 2'-0"
▲ DENOTES: BARS L540, 4 EQ SPA. = 3'-2 3/8"

(LOOKING FORWARD ON SURVEY)

- △ DENOTES: 5 EQ. SPA. = 4'-2 1/2"
□ DENOTES: 6 EQ. SPA. = 5'-6"

PIN NO.: 124873.00
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DRAWN BY: B. WELLS
SUPERVISED BY: D. MCCRARY
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DATE: 08/2025
DATE: 09/2025
DATE: 09/2025
DATE: 11/2025

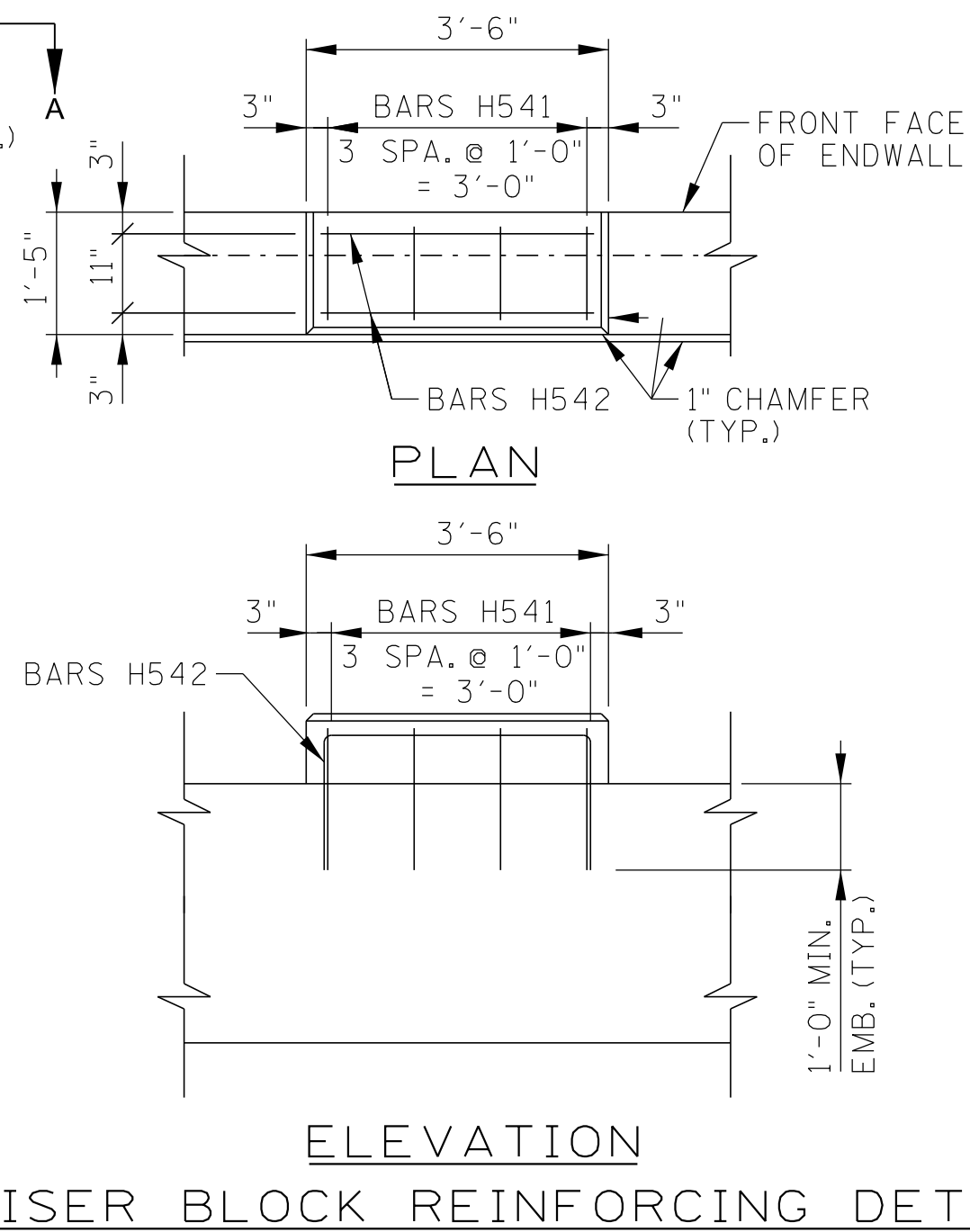


RISER BLOCK SLOPE DETAIL

(TYP. @ EACH RISER BLOCK)

GENERAL NOTES:

- RISER BLOCKS SHALL BE POURED MONOLITHICALLY WITH THE ABUTMENT BEAM. RISER BLOCKS OF 6 INCHES IN HEIGHT OR HIGHER AT CENTERLINE SHALL BE REINFORCED. RISER BLOCKS SHOULD BE A MINIMUM OF 2 INCHES AT THE CENTERLINE AND 1 INCH AT THE EDGE.
- RISER BLOCK BEARING SURFACE TO CONFORM TO BOTTOM OF BEAM GRADE.
- ELASTOMERIC PADS SHALL BE IN PLACE A MINIMUM OF ONE DAY BEFORE BEING DISTURBED BY SETTING BEAMS. PLACE RUBBER BONDING CEMENT IN SUCH A WAY THAT VISIBLE CONCRETE SURFACES WILL NOT BE STAINED.
- NOT LESS THAN HALF OF THE SLAB IN THE END SPANS SHALL BE POURED PRIOR TO, OR CONCURRENTLY WITH, PLACEMENT OF ANY PART OF THE ABUTMENT ENDWALLS. AT LEAST THE TOP 12 INCHES OF THE ENDWALLS SHALL BE POURED CONCURRENTLY WITH THE END OF SLAB.
- COST OF PEDESTRIAN RAIL COLUMN AND TRAFFIC RAIL IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE RAIL SYSTEMS.
- TOP OF WING STEM TO CONFORM TO BOTTOM OF ROADWAY SLAB.
- THE CONTRACTOR SHALL SUPPORT THE ABUTMENT UNTIL THE SUPERSTRUCTURE IS IN PLACE, FALSEWORK HAS BEEN REMOVED, AND BACKFILLING HAS BEEN COMPLETED.
- SEE STANDARD DRAWING STD-6-1 FOR PILE DETAILS AND NOTES.
- WHEN POURING WINGWALLS, PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR PEDESTRIAN RAIL COLUMNS, SEE DWG. NOS. U-100-686, U-100-687, AND U-100-689.
- WINGBEAM PILES SHALL BE DRIVEN TO THE PLANS TIP ELEVATION OR REFUSAL. SEISMIC ATTACHMENT IS NOT REQUIRED FOR WINGBEAM PILES.

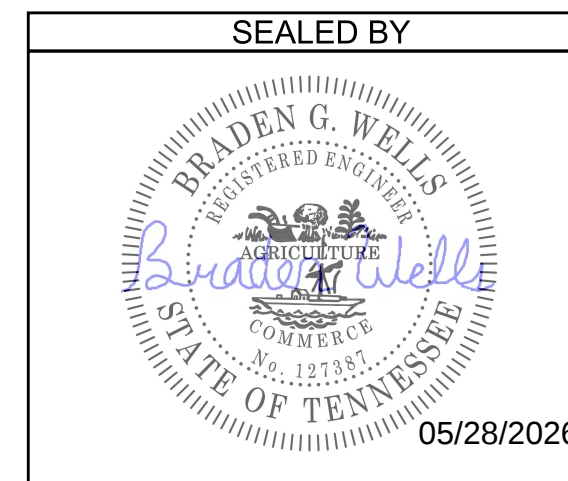


ELEVATION

RISER BLOCK REINFORCING DETAIL

CONST. NO.: 94004-3234-04

PROJECT NO.		YEAR	SHEET NO.
		2026	B-18
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	05-28-2026	BGW	ADDED CUT SECTION A-A LOCATION
	- -		
	- -		
	- -		
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
ABUTMENT NO. 2

STATE ROUTE 6 OVER HARPETH RIVER
BRIDGE I.D. NO. 94SR0060013
STA. 104+77.58
LOG MILE - 12.51
WILLIAMSON COUNTY
2026

U-100-680