



Digitally signed by Kevin S McAlister
DN: CN=Kevin S McAlister,
dnQualifier=A01410D0000019BFB774DA000562361
O=BARGE DESIGN SOLUTIONS, C=US
Reason: I am the author of this document
Date: 2026.09.25 16:03:45-05'00'

COMPANY NAME: BARGE DESIGN SOLUTIONS
ADDRESS: 615 3RD AVE S #700
NASHVILLE, TN 37210
CITY, STATE: NASHVILLE, TN
PE NAME, PE NUMBER: KEVIN MCALISTER, PE NO. 110079

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

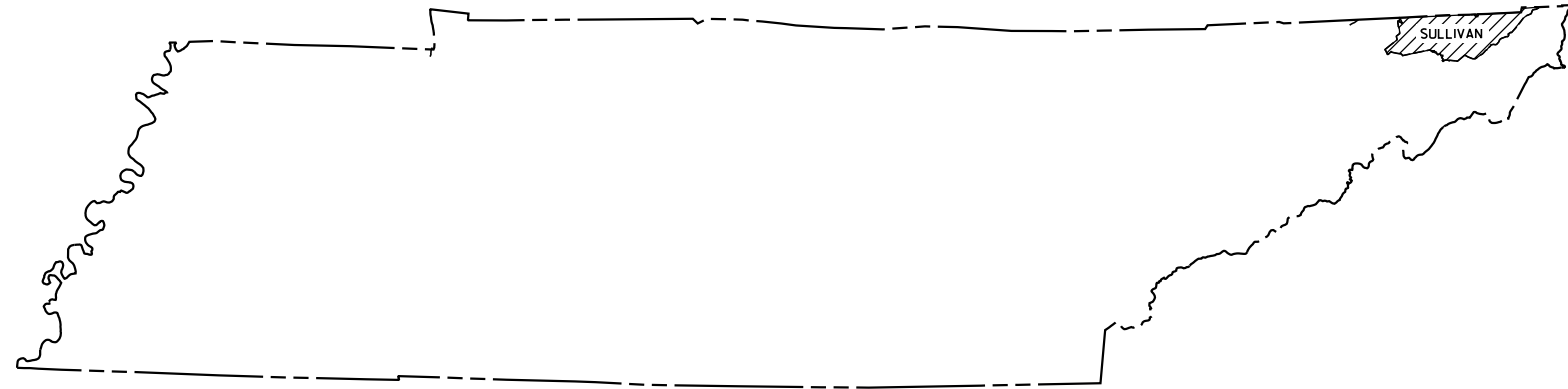
SHEET NAME (BRIDGE NO. 1)	SHEET NO.	SHEET NAME (BRIDGE NO. 2)	SHEET NO.
SIGNATURE SHEET	STRUCTURE-SIGN3	LAYOUT OF BRIDGE	U-101-101
INDEX OF BRIDGES AND ESTIMATED QUANTITIES	B-1	GENERAL NOTES AND ESTIMATED QUANTITIES	U-101-102
LAYOUT OF BRIDGE	U-101-78	SUPERSTRUCTURE (1 OF 2)	U-101-105
GENERAL NOTES AND ESTIMATED QUANTITIES	U-101-79		
SUPERSTRUCTURE	U-101-82		
BENT NO.1	U-101-96		
BENT NO.2	U-101-97		
BILL OF STEEL	U-101-100		

YEAR	PROJECT NO.	SHEET NO.
2026	82956-3594-04	STRUCTURE-SIGN3

REV. 09-25-26: ADDED SHEET

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

SIGNATURE SHEET



SULLIVAN COUNTY

ESTIMATED QUANTITIES ¹ ²

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
204-02.01	DRY EXCAVATION (BRIDGES)	C.Y.	381	354	27
204-03.01	WET EXCAVATION (BRIDGES)	C.Y.	201	132	69
204-04.01	ROCK EXCAVATION (BRIDGES)	C.Y.	52	22	30
204-05	ROCK DRILLING (BRIDGES)	L.F.	108	36	72
204-10.01	FOUNDATION PREPARATION (BENT NO.1, STA. 36+25.00)	L.S.	1	1	0
204-10.02	FOUNDATION PREPARATION (PIER NO.1, STA. 73+15.70)	L.S.	1	0	1
204-10.03	FOUNDATION PREPARATION (BENT NO.2, STA. 37+05.50)	L.S.	1	1	0
204-10.04	FOUNDATION PREPARATION (PIER NO.2, STA. 73+75.70)	L.S.	1	0	1
204-14	CORE DRILLING FOR PILES (ROCK)	L.F.	200	90	110
303-01.02	GRANULAR BACKFILL (BRIDGES)	TON	141	66	75
604-02.03	EPOXY COATED REINFORCING STEEL	LB.	213,888	80,999	132,889
604-03.01	CLASS A CONCRETE (BRIDGES)	C.Y.	694	305	389
604-03.02	STEEL BAR REINFORCEMENT (BRIDGES)	LB.	120,375	48,906	71,469
604-03.04	PAVEMENT @ BRIDGE ENDS	S.Y.	444	220	224
604-03.32	CLASS DS CONCRETE (BRIDGES)	C.Y.	523	248	275
604-04.01	APPLIED TEXTURE FINISH (NEW STRUCTURES)	S.Y.	1,813	946	867
604-05.31	BRIDGE DECK GROOVING (MECHANICAL)	S.Y.	1,767	720	1,047
606-03.03	STEEL PILES (12 INCH)	L.F.	500	278	222
606-03.06	PILE TIPS (STEEL PIULES, 12 INCH)	EA.	19	9	10
610-10.45	DECK DRAINS	EA.	6	3	3
615-01.03	PRESTRESSED CONCRETE I-BEAM (TYPE III)	L.F.	868	868	0
615-02.10	PRESTRESSED CONCRETE BOX BEAM (27"X48")	L.F.	986	0	986
620-05.02	STANDARD CONCRETE CLASSIC PARAPET RAIL	L.F.	823	422	401
710-09.01	6" PERFORATED PIPE WITH VERTICAL DRAIN SYSTEM	L.F.	236	122	114
710-09.02	6" PIPE UNDERDRAIN	L.F.	84	51	33

LIST OF STANDARD DRAWINGS	DWG. NO.	REV. DATE
STEEL SLIDER PLATE ASSEMBLIES FOR SINGLE SLOPE	STD-1-2SS	05-31-24
CONCRETE PARAPET AND BRIDGE DECK DRAIN DETAILS	STD-1-5	06-05-23
REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS	STD-5-1	
STANDARD PILE DETAILS	STD-6-1	12-08-23
STANDARD SEISMIC DETAILS	STD-8-6	10-03-18
TRI-STAR STATE EMBLEM FINISH DETAILS		
STANDARD REINFORCING BAR SUPPORT DETAILS FOR		
CONCRETE SLABS	STD-9-1	10-07-08
MISC. 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 CONCRETE CLASSIC RAIL	STD-11-2	04-15-20
STANDARD CONCRETE PEDESTRIAN CLASSIC RAIL	STD-11-3	04-15-20
STANDARD DETAILS AND INTERMEDIATE DIAPHRAGM		
DETAILS FOR I-BEAMS	STD-14-2	03-06-24
STANDARD DETAILS FOR PRESTRESSED BOX BEAMS	STD-14-3	03-06-24

¹ ² LIST OF DRAWINGS (BRIDGE NO.1)	DWG. NO.	REV. DATE
INDEX OF BRIDGES AND ESTIMATED QUANTITIES	B-1	09-25-26
LAYOUT OF BRIDGE	U-101-78	09-25-26
GENERAL NOTES AND ESTIMATED QUANTITIES	U-101-79	
FOUNDATION DATA SHEET (1 OF 2)	U-101-80	
FOUNDATION DATA SHEET (2 OF 2)	U-101-81	
SUPERSTRUCTURE	U-101-82	09-25-26
SUPERSTRUCTURE DETAILS (1 OF 3)	U-101-83	
SUPERSTRUCTURE DETAILS (2 OF 3)	U-101-84	
SUPERSTRUCTURE DETAILS (3 OF 3)	U-101-85	
SCREED PLAN	U-101-86	
STAKEOUT PLAN	U-101-87	
PRESTRESSED AASHTO TYPE III I-BEAM, SPAN NO. 1	U-101-88	
PRESTRESSED AASHTO TYPE III I-BEAM, SPAN NO. 2	U-101-89	
PRESTRESSED AASHTO TYPE III I-BEAM, SPAN NO. 3	U-101-90	
BEAM TABLES AND ESTIMATED QUANTITIES	U-101-91	
ABUTMENT NO.1	U-101-92	
ABUTMENT NO.1 DETAILS	U-101-93	
ABUTMENT NO.2	U-101-94	

X081	X381
BRIDGE NO.1 MEADOW PARK LANE OVER HORSE CREEK STATION 36+65.50 CONTINUOUS PRECAST PRESTRESSED CONCRETE TYPE III BEAMS WITH COMPOSITE CONCRETE DECK SLAB THREE SPAN BRIDGE SPAN NO.1 = 50'-0" SPAN NO.2 = 80'-0" SPAN NO.3 = 50'-0" TOTAL LENGTH = 180'-0" 36'-0" ROADWAY WIDTH WITH STD-11-2 AND STD 11-3 PARAPET AND 5'-0" SIDEWALK 90°00'00" SKEW LAYOUT DWG. NO. U-101-78	BRIDGE NO.2 MEADOW PARK LANE OVER SOUTH FOLK HOLTSON RIVER STATION 73+40.70 CONTINUOUS PRECAST PRESTRESSED CONCRETE BOX BEAMS WITH COMPOSITE CONCRETE DECK SLAB THREE SPAN BRIDGE SPAN NO.1 = 60'-0" SPAN NO.2 = 60'-0" SPAN NO.3 = 50'-0" TOTAL LENGTH = 170'-0" 36'-0" TO 66'-7" ROADWAY WIDTH WITH STD-11-2 AND STD-11-3 PARAPET AND 5'-0" SIDEWALK ABUTMENT NO.1 = 77°40'42" SKEW PIER NO.1 = 83°55'43" SKEW PIER NO.2 = 87°17'41" SKEW ABUTMENT NO.2 = 87°17'41" SKEW LAYOUT DWG. NO. U-101-101

LIST OF DRAWINGS (BRIDGE NO.1 CONT.)	DWG. NO.	REV. DATE
ABUTMENT NO.2 DETAILS	U-101-95	
ABUTMENT NO.2 STEEL PILE DETAILS	U-101-95A	
BENT NO.1	U-101-96	09-25-26
BENT NO.2	U-101-97	09-25-26
BENTS NO.1 AND NO.2 DETAILS	U-101-98	
FINAL FOUNDATION DATA	U-101-99	
BILL OF STEEL	U-101-100	09-25-26

² LIST OF DRAWINGS (BRIDGE NO.2)	DWG. NO.	REV. DATE
LAYOUT OF BRIDGE	U-101-101	
GENERAL NOTES AND ESTIMATED QUANTITES	U-101-102	09-25-26
FOUNDATION DATA SHEET (1 OF 2)	U-101-103	
FOUNDATION DATA SHEET (2 OF 2)	U-101-104	
SUPERSTRUCTURE (1 OF 2)	U-101-105	09-25-26
SUPERSTRUCTURE (2 OF 2)	U-101-106	
SUPERSTRUCTURE DETAILS (1 OF 4)	U-101-107	
SUPERSTRUCTURE DETAILS (2 OF 4)	U-101-108	
SUPERSTRUCTURE DETAILS (3 OF 4)	U-101-109	
SUPERSTRUCTURE DETAILS (4 OF 4)	U-101-110	
FRAMING PLAN	U-101-111	
SCREED PLAN	U-101-112	
STAKEOUT PLAN	U-101-113	
PRESTRESSED BEAM DETAILS (27" X 48" BOX BEAMS SPAN NO.1)	U-101-114	
PRESTRESSED BEAM DETAILS (27" X 48" BOX BEAMS SPAN NO.2)	U-101-115	
PRESTRESSED BEAM DETAILS (27" X 48" BOX BEAMS SPAN NO.3)	U-101-116	
ABUTMENT NO.1	U-101-117	
ABUTMENT NO.1 DETAILS	U-101-118	
ABUTMENT NO.1 STEEL PILE DETAILS	U-101-118A	
ABUTMENT NO.2 (1 OF 2)	U-101-119	
ABUTMENT NO.2 (2 OF 2)	U-101-120	
ABUTMENT NO.2 DETAILS (1 OF 2)	U-101-121	
ABUTMENT NO.2 DETAILS (2 OF 2)	U-101-122	
PIER NO.1	U-101-123	
PIER NO.1 DETAILS	U-101-124	
PIER NO.2	U-101-125	
PIER NO.2 DETAILS	U-101-126	
FINAL FOUNDATION DATA	U-101-127	
BILL OF STEEL (1 OF 2)	U-101-128	
BILL OF STEEL (2 OF 2)	U-101-129	

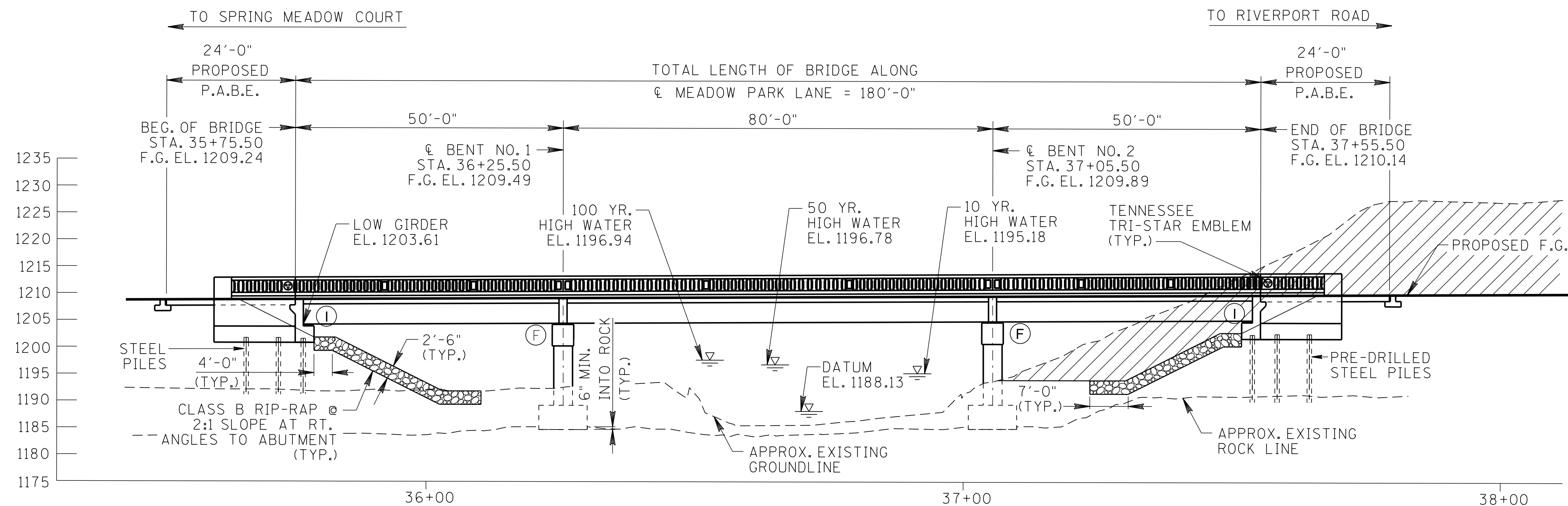
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX OF BRIDGES
AND ESTIMATED
BRIDGE QUANTITIES

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ELEVATION

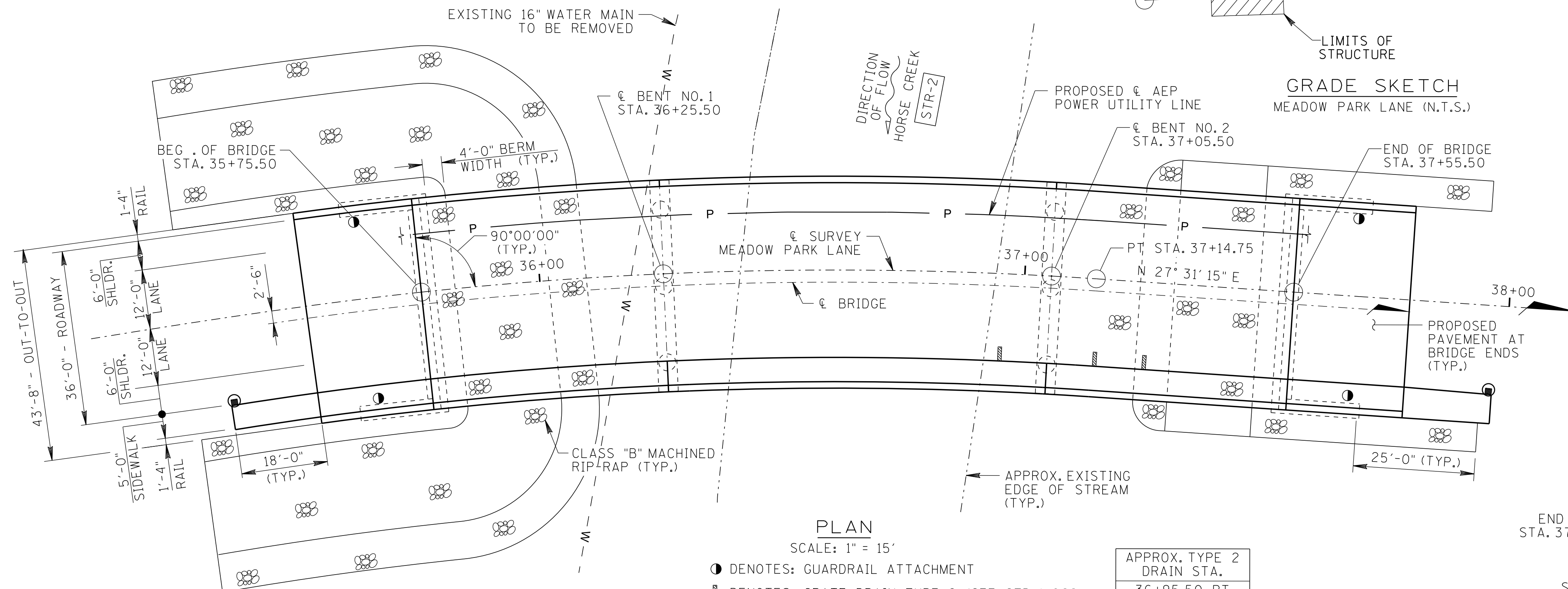
SCALE: 1" = 15'

/// DENOTES: APPROX. AREA OF EXISTING GROUND TO BE EXCAVATED AND INCLUDED AS ROADWAY ITEM (TYP.)

① DENOTES: INTEGRAL SUPPORT CONDITION

Ⓕ DENOTES: FIXED SUPPORT CONDITION

NOTE: ELEVATION VIEW IS PROJECTED FROM PLAN VIEW BELOW.
100 YEAR SCOUR DEPTH AT ELEVATION 1158.78.
500 YEAR SCOUR DEPTH AT ELEVATION 1152.96.



PLAN

SCALE: 1" = 15'

● DENOTES: GUARDRAIL ATTACHMENT

/// DENOTES: GRATE DRAIN TYPE 2 (SEE STD-1-2SS)

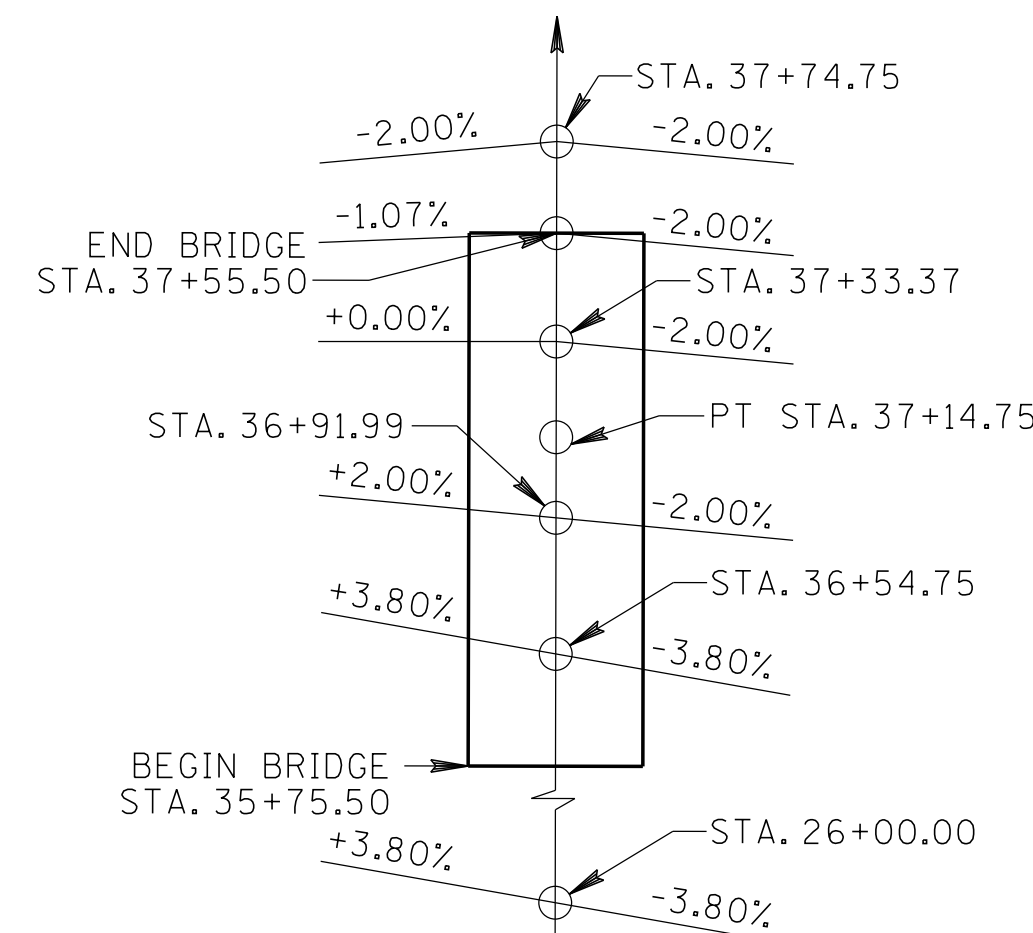
● DENOTES: ROADWAY CATCH BASIN DRAINS WITH CURB INLETS

NOTE: ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., FOR PIER 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).

CURVE DATA
MEADOW PARK LANE
CURVE 4
PI 32+59.64
N 813314.6007
E 2976655.0395
Δ 86°23'10" RT.
D 07°09'43"
R 800.00'
L 1206.18'
T 751.07'
LC 1095.13'
BC N15°40'19.8"W
SE 0.038 FT/FT
TRANS. LENGTH = 122'
DESIGN SPEED = 40 MPH

CURVE DATA
MEADOW PARK LANE

APPROX. TYPE 2 DRAIN STA.
36+95.50 RT
37+15.50 RT
37+45.50 RT



TRANSITION SKETCH
MEADOW PARK LANE (N.T.S.)

PROJECT NO.		YEAR	SHEET NO.
82956-3594-04		2026	B-2
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	09-25-2026	KSM	REVISED REV. DATE TO DRAWING LIST

LIST OF DRAWINGS

DWG. NO.	REV. DATE
U-101-78	09-25-26
U-101-79	09-25-26
U-101-80	
U-101-81	
U-101-82	09-25-26
U-101-83	
U-101-84	
U-101-85	
U-101-86	
U-101-87	
U-101-88	
U-101-89	
U-101-90	
U-101-91	
U-101-92	
U-101-93	
U-101-94	
U-101-95	
U-101-95A	
U-101-96	09-25-26
U-101-97	09-25-26
U-101-98	
U-101-99	
U-101-100	09-25-26

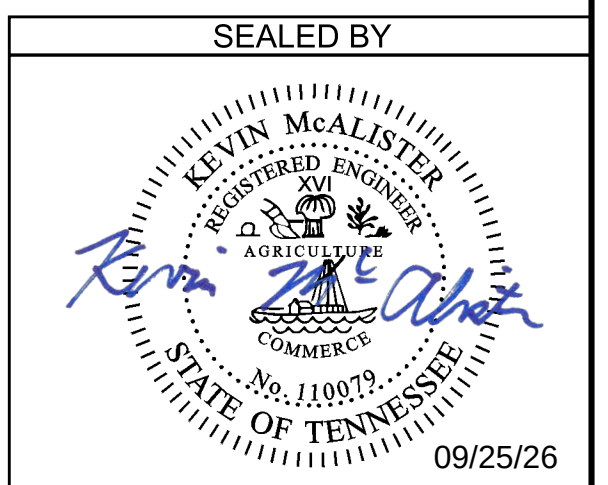
LIST OF STANDARD DRAWINGS

DWG. NO.	REV. DATE
STD-1-2SS	05-31-24
STD-1-5	06-05-23
STD-5-1	
STD-6-1	12-08-23
STD-8-6	10-03-18
STD-9-1	10-07-08
STD-10-1	06-05-23
STD-10-2	06-05-23
STD-11-2	04-15-20
STD-11-3	04-15-20
STD-14-2	03-06-24

HYDRAULIC DATA

DRAINAGE AREA	46.99 SQ. MI.
DESIGN DISCHARGE (100 YEAR)	5,000 CFS
WATER AREA PROVIDED BELOW EL. 1196.61	797.14 SQ. FT.
100 YEAR VELOCITY	6.27 FPS
100 YEAR BRIDGE BACKWATER	0.79 FT. AT EL. 1196.94
500 YEAR DISCHARGE	7,500 CFS
ROADWAY OVERTOPPING ELEVATION	1,209.24

2046 ADT = 3,890
36'-0" ROADWAY,
5'-0" SIDEWALK RIGHT SIDE,
STD-11-2 PARAPET LEFT SIDE,
STD-11-3 PARAPET RIGHT SIDE,
DESIGN SPEED = 40 MPH



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1

LAYOUT OF BRIDGE
MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-OB350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026
U-101-78

CLASS "B" RIP-RAP 1,373 TONS

FOOTNOTE	ITEM NO.	DESCRIPTION	UNIT	TOTAL	SUPERSTRUCTURE	ABUT. NO. 1	BENT NO. 1	BENT NO. 2	ABUT. NO. 2
(1)	204-02.01	DRY EXCAVATION (BRIDGES)	C.Y.	354	-	77	89	111	77
(1)	204-03.01	WET EXCAVATION (BRIDGES)	C.Y.	132	-	-	66	66	-
(1)	204-04.01	ROCK EXCAVATION (BRIDGES)	C.Y.	22	-	-	11	11	-
(1)	204-05	ROCK DRILLING	L.F.	36	-	-	18	18	-
(11)	204-10.01	FOUNDATION PREPARATION (BENT NO. 1, STA. 36+25.50)	L.S.	1	-	-	1	-	-
(11)	204-10.03	FOUNDATION PREPARATION (BENT NO. 2, STA. 37+05.50)	L.S.	1	-	-	-	1	-
	204-14	CORE DRILLING FOR PILES (ROCK)	L.F.	90	-	-	-	-	90
(2)	303-01.02	GRANULAR BACKFULL (BRIDGES)	TON	66	-	33	-	-	33
(3)	604-02.03	EPOXY COATED REINFORCING STEEL	LB.	80,999	77,508	1,725	-	-	1,766
(4)	604-03.01	CLASS A CONCRETE (BRIDGES)	C.Y.	305	21	48	94	94	48
	604-03.02	STEEL BAR REINFORCEMENT (BRIDGES)	LB.	48,906	2,892	5,696	17,230	17,294	5,794
(5)	604-03.04	PAVEMENT @ BRIDGE ENDS	S.Y.	220	-	110	-	-	110
(6)	604-03.32	CLASS DS CONCRETE (BRIDGE DECK)	C.Y.	248	248	-	-	-	-
	604-04.01	APPLIED TEXTURE FINISH (NEW STRUCTURES)	S.Y.	946	702	38	85	82	39
	604-05.31	BRIDGE DECK GROOVING (MECHANICAL)	S.Y.	720	720	-	-	-	-
	606-03.03	STEEL PILES (12 INCH)	L.F.	278	-	170	-	-	108
(10)	606-03.06	PILE TIPS (STEEL PILES, 12 INCH)	EA.	9	-	9	-	-	-
	610-10.45	DECK DRAINS (GRATE DRAINS TYPE 2)	EA.	3	3	-	-	-	-
(7)	615-01.03	PRESTRESSED CONCRETE I-BEAM (TYPE III)	L.F.	868	868	-	-	-	-
	620-05.02	STANDARD CONCRETE CLASSIC PARAPET RAIL	L.F.	422	360	31	-	-	31
	710-09.01	6" PERFORATED PIPE WITH VERTICAL DRAIN SYSTEM	L.F.	122	-	54	-	-	68
(9)	710-09.02	6" PIPE UNDERDRAIN	L.F.	51	-	17	-	-	34

GENERAL NOTES:

SPECIFICATIONS & LOADING

- | | |
|--|---|
| <p>CONSTRUCTION SPECIFICATIONS; TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (APRIL 1, 2026 EDITION).</p> | <p>(7) BRIDGE DECK FORMS; BRIDGE DECK FORMS FOR CONCRETE DECKS SHALL BE CONSTRUCTED USING EITHER REMOVABLE FORMS OR PERMANENT FORMS. PERMANENT FORMS SHALL BE 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 DRAWINGS STD-14-2, AND ARTICLE 604.05 OF THE STANDARD SPECIFICATIONS.</p> |
| <p>(2) DESIGN SPECIFICATIONS: 9TH EDITION (2020) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND THE 2ND EDITION (2011) AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN WITH INTERIMS.</p> | |
| <p>(3) LOADING:</p> | |
| <p>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</p> | |
| <p>B. SEISMIC DESIGN CATEGORY A WITH $AS = 0.174$, $SDS = 0.346$, $SDI = 0.146$, 1000 YEAR RETURN PERIOD)</p> | <p>(8) REINFORCING STEEL: SHALL BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. SEE SECTIONS 604 AND 907 OF THE STANDARD SPECIFICATIONS.</p> |
| <p>C. DEAD LOAD INCLUDES 35 LB/SQ.FT. FOR FUTURE WEARING SURFACE.</p> | |

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 3 IN ARTICLE 604.22 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.

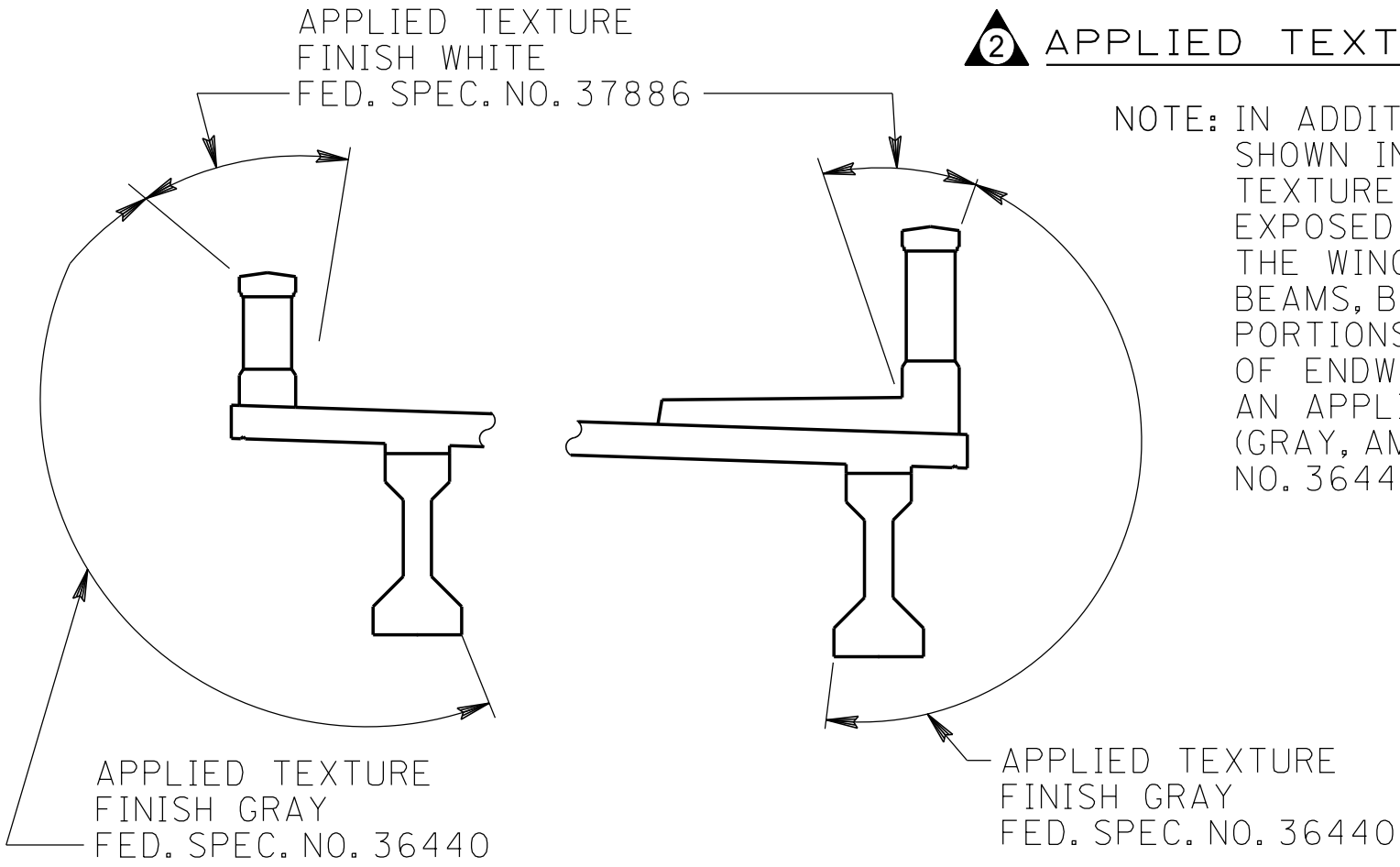
PIN NO.:	131034.00	
DESIGN BY:	R. HUANG	DATE: 01/2026
DRAWN BY:	R. HUANG	DATE: 01/2026
SUPERVISED BY:	K. MCALISTER	DATE: 01/2026
CHECKED BY:	I. GLOUDOUA	DATE: 01/2026

FOOTNOTES:

1. EXCAVATION BASED ON FINAL PROFILE AT ABUTMENTS AND EXISTING GROUND AT BENTS.
2. GRANULAR BACKFILL SHALL BE TYPE "A" GRADING "D" MATERIAL. SEE STANDARD DRAWING STD-10-1.
3. REINFORCING STEEL FOR SIDEWALKS SHALL BE INCLUDED IN COST OF EPOXY COATED REINFORCING STEEL.
4. THE COST OF ALL MATERIALS AND LABOR NECESSARY FOR THE INSTALLATION OF 26 ANCHOR BOLT ASSEMBLIES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLASS A CONCRETE (BRIDGES), ITEM NO. 604-03.01.
5. PRIOR TO CONSTRUCTION OF THE PAVEMENT AT BRIDGE ENDS, THE CONTRACTOR SHALL SUBMIT A PROPOSED BILL OF STEEL TO THE ENGINEER FOR APPROVAL.
6. CONCRETE FOR SIDEWALKS SHALL BE INCLUDED IN COST OF CLASS A (BRIDGES).
7. COST OF ELASTOMERIC PADS AND RUBBER BONDING CEMENT TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PRESTRESSED BEAM.
8. THE COST OF BITUMINOUS-FIBERBOARD AND ALL MISCELLANEOUS JOINT MATERIAL TO BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.
9. COST OF POLYETHYLENE SHEETING AND ALL MISCELLANEOUS ITEMS NECESSARY FOR INSTALLATION TO BE INCLUDED IN THE UNIT PRICE BID FOR PERFORATED PIPE.
0. THE UNIT PRICE BID FOR THE CAST STEEL POINTS SHALL INCLUDE FURNISHING AND INSTALLATION TO THE PILES.
11. SEE FOUNDATION PREPARATION NOTE THIS SHEET.

2 APPLIED TEXTURE FINISH SKETCH

NOTE: IN ADDITION TO THE SURFACES SHOWN IN THE APPLIED TEXTURE FINISH SKETCH, ALL EXPOSED SURFACES OF THE WINGWALLS, ABUTMENT BEAMS, BENTS, AND EXTERIOR PORTIONS OF ENDWALLS SHALL RECEIVE AN APPLIED TEXTURE FINISH, (GRAY, AMS-STD-595A, COLOR, NO. 36440)



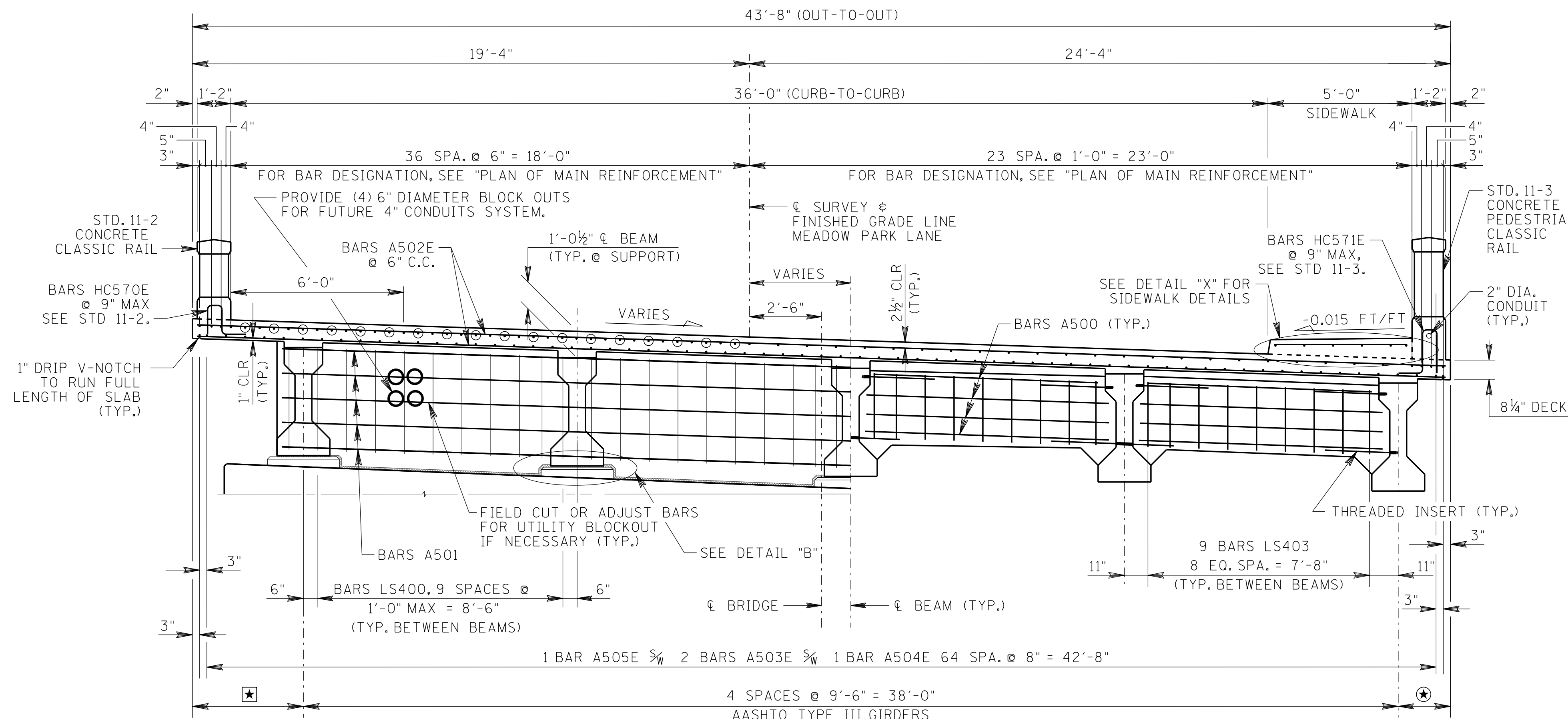
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KEVIN McALISTER
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
No. 110879
STATE OF TENNESSEE

09/25/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1
GENERAL NOTES AND
ESTIMATED QUANTITIES
MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

9/25/2026 10:17:35 AM F:\37\37743\3774302\04_CAD\TRNS\BRIDGE\01_FINAL\3774302_05_SUPERSTRUCTURE_CROSS_SECTION.DGN

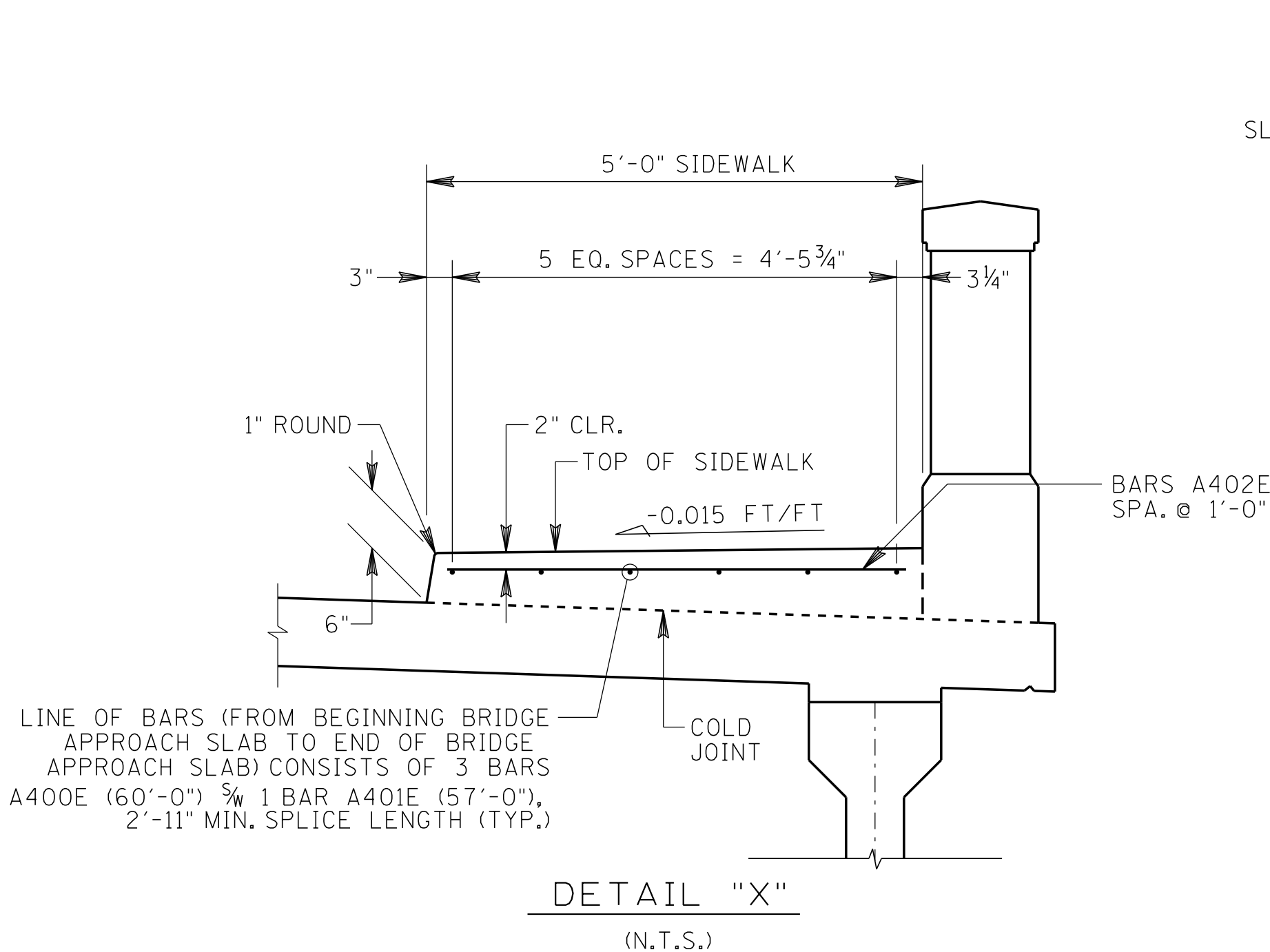


TYPICAL HALF-SECTION AT BENT

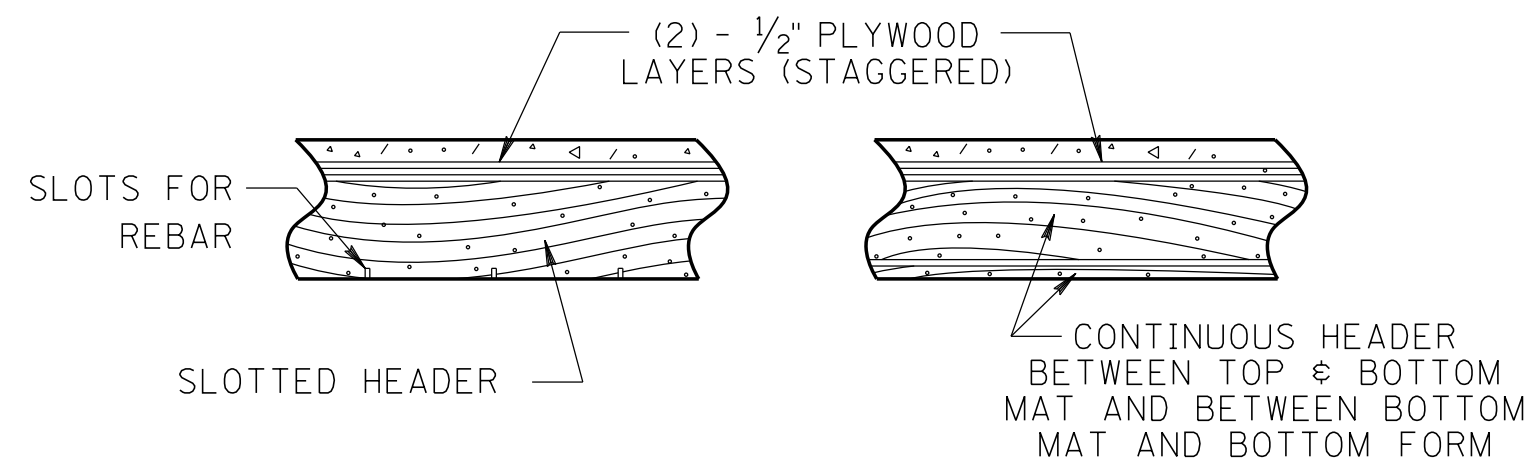
TYPICAL HALF-SECTION AT MID-SPAN

- DENOTES: CUT-OFF BARS
✱ DENOTES: VARIES FROM 2'-10" TO 3'-10 1/4"
⊙ DENOTES: VARIES FROM 2'-10" TO 1'-9 3/4"

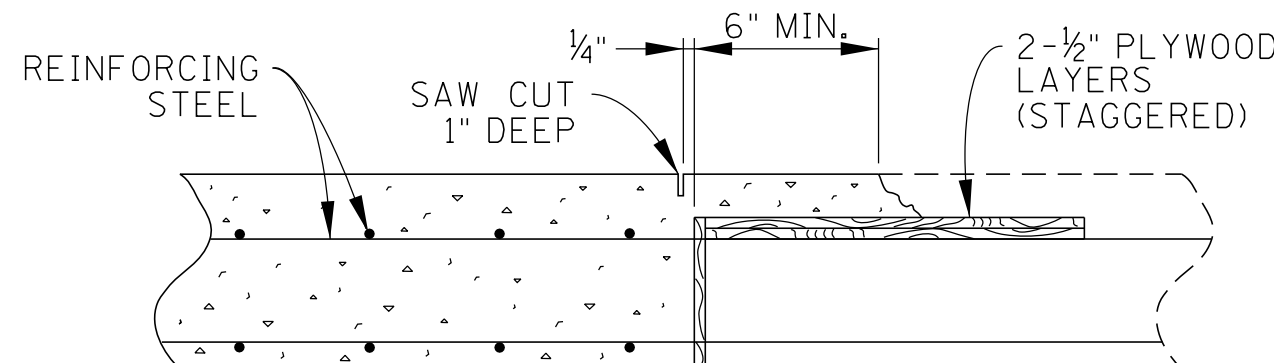
TYPICAL CROSS SECTION
(LOOKING FORWARD ON SURVEY)



DETAIL "X"
(N.T.S.)

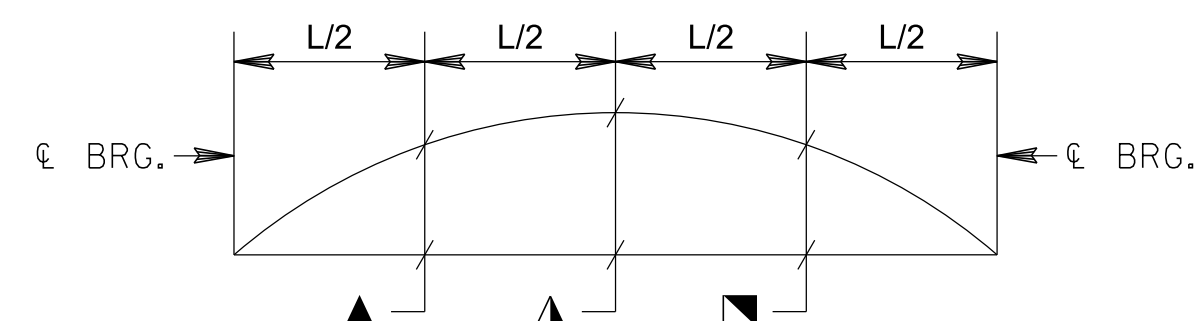


ALTERNATE "A" ALTERNATE "B"
ALTERNATE HEADER DETAILS



SLAB CONSTRUCTION JOINT DETAIL
(N.T.S.)

DECK CONCRETE POURING SEQUENCE: SLAB CONSTRUCTION JOINTS MAY BE LOCATED AT THE CONTRACTOR'S OPTION SUBJECT TO THE FOLLOWING:
1) NO CONSTRUCTION JOINT MAY BE LOCATED CLOSER THAN 10 FEET OR FURTHER THAN 15 FEET FROM AN INTERIOR SUPPORT.
2) THE SLAB IN THE MIDDLE SECTION OF BOTH ADJACENT SPANS MUST BE POURED TO WITHIN AT LEAST 15 FEET OF THE SUPPORTS EITHER PRIOR TO OR CONCURRENTLY WITH THE SLAB OVER AN INTERIOR SUPPORT.
3.) ALL SLAB CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH THE SLAB CONSTRUCTION JOINT DETAILS SHOWN ON THIS SHEET.



DEAD LOAD CORRECTION CURVE

	▲	▲	■
BEAM 1	1/8"	3/16"	1/8"
BEAM 2	1/8"	3/16"	1/8"
BEAM 3	1/8"	3/16"	1/8"
BEAM 4	1/8"	3/16"	1/8"
BEAM 5	1/8"	3/16"	1/8"
BEAM 6	1"	1 7/16"	1"
BEAM 7	1 1/16"	1 9/16"	1 1/16"
BEAM 8	1 1/16"	1 1/2"	1 1/16"
BEAM 9	1"	1 7/16"	1"
BEAM 10	3/4"	1 1/16"	3/4"
BEAM 11	1/8"	3/16"	1/8"
BEAM 12	1/8"	3/16"	1/8"
BEAM 13	1/8"	3/16"	1/8"
BEAM 14	1/8"	3/16"	1/8"
BEAM 15	1/8"	3/16"	1/8"

DEAD LOAD CORRECTION CURVE: THIS CURVE IS FOR DEAD LOAD OF SLAB AND ALL DEAD LOADS THAT ARE APPLIED AFTER THE SLAB IS IN PLACE.

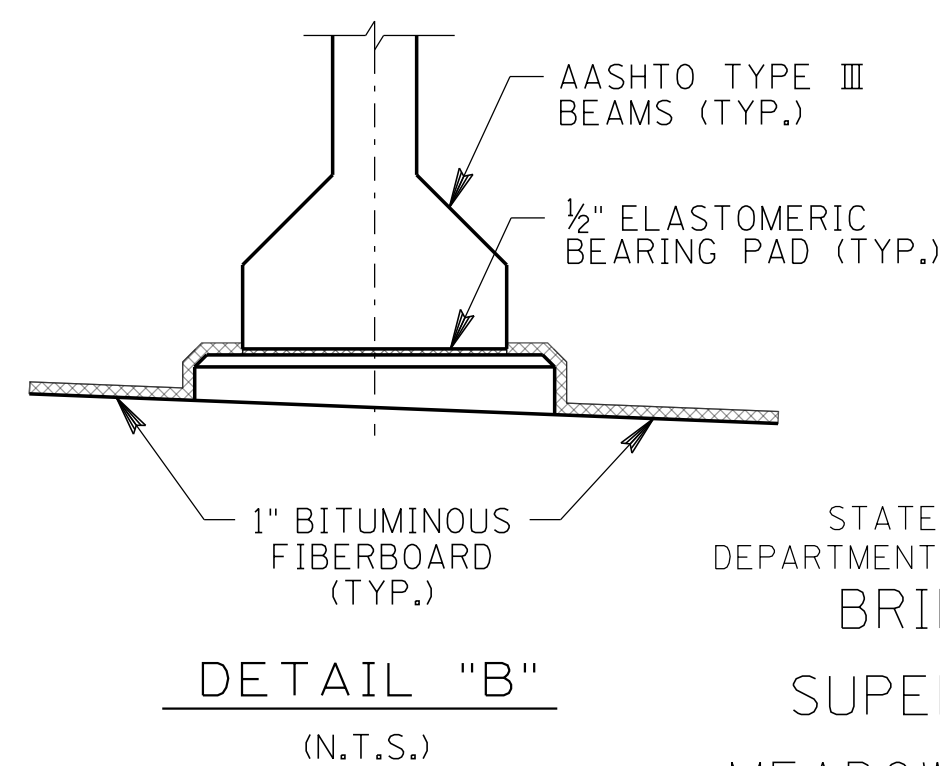
NOTE: PRESTRESSED DECK PANELS ARE NOT ALLOWED.

PROJECT NO.		YEAR	SHEET NO.
82956-3594-04		2026	B-6
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	09-25-2026	KSM	REVISED ITEM NO. 604-03.09 TO 604-03.32;
			AND REVISED CONCRETE CLASS "DS" TO
			CLASS "A".

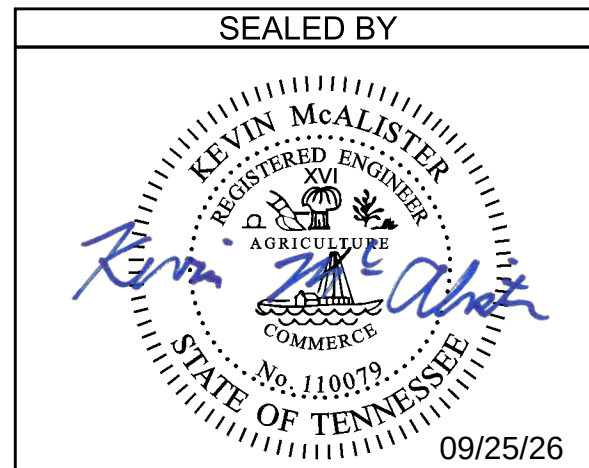
GENERAL NOTES:

- NOTE: OUTSIDE EDGE OF SLAB AND PARAPET TO CONFORM TO HORIZONTAL CURVE.
- NOTE: NO PORTION OF THE PARAPET SHALL BE POURED UNTIL THE ENTIRE DECK SLAB IS IN PLACE.
- ANCHOR BOLTS AT BENTS: ANCHOR BOLT ASSEMBLIES AT BENTS SHALL BE IN ACCORDANCE WITH STANDARD DRAWING STD-6-1.
- NOTE: WHEN POURING SLAB, PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR PARAPET. THE PARAPET SHALL NOT BE POURED UNTIL THE SLAB IS POURED AND CURED. ALSO, SEE STD 11-2 AND STD 11-3.
- NOTE: 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 DIAPHRAGM SHALL BE POURED CONCURRENTLY WITH THE DECK SLAB. ALL DIAPHRAGM CONCRETE SHALL BE INCLUDED IN THE QUANTITY FOR CLASS DS CONCRETE.
- NOTE: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SUPPORTING THE BEAMS TO PREVENT DAMAGE DUE TO TWISTING OR OVERTURNING DURING ALL PHASES OF CONSTRUCTION. IT IS STRONGLY RECOMMENDED THAT THE TEMPORARY ERECTION DIAPHRAGMS BE INSTALLED AND THE PERMANENT INTERMEDIATE DIAPHRAGMS BE POURED AND CURED PRIOR TO PLACING ANY LOADS ON THE GIRDERS. HOWEVER, TEMPORARY ERECTION DIAPHRAGMS AND PERMANENT INTERMEDIATE DIAPHRAGMS MUST BE IN PLACE IN THE SPAN AT THE TIME THE SLAB IS POURED IN SAID SPAN.
- NOTE: THE CONTRACTOR IS RESPONSIBLE FOR THE ALIGNMENT, THE PLACEMENT AND THE INSTALLATION OF THE UTILITY CONDUIT SYSTEM, INCLUDING THE UTILITY HANGERS. ALSO, THE CONTRACTOR SHALL SUBMIT UTILITY ATTACHMENT SYSTEM WITH CALCULATIONS FOR REVIEW AND APPROVAL BEFORE ANY INSTALLATIONS.
- NOTE: REFER TO ELECTRIC UTILITY RELOCATION SHEET U5-12 AND U5-13 FOR THE UTILITY HANGER DETAILS. UTILITY HANGER ANCHOR SYSTEM SHALL BE DESIGNED FOR A DESIGN CAPACITY OF 800 LBS MIN.

ESTIMATED QUANTITIES			
CLASS "DS" CONCRETE (BRIDGE DECK) (C.Y.)	CLASS "A" CONCRETE (SIDEWALK) (C.Y.)	STEEL BAR REINFORCEMENT (LB.)	EPOXY COATED REINFORCING STEEL (LB.)
248	21	2,892	77,508

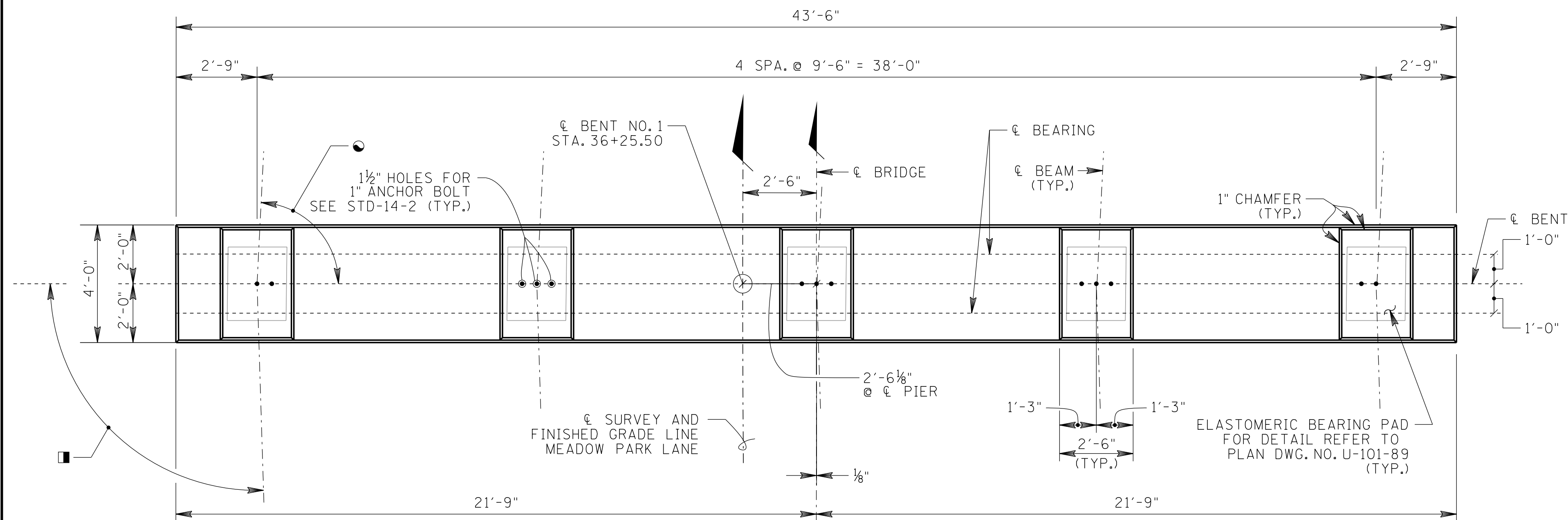


DETAIL "B"
(N.T.S.)

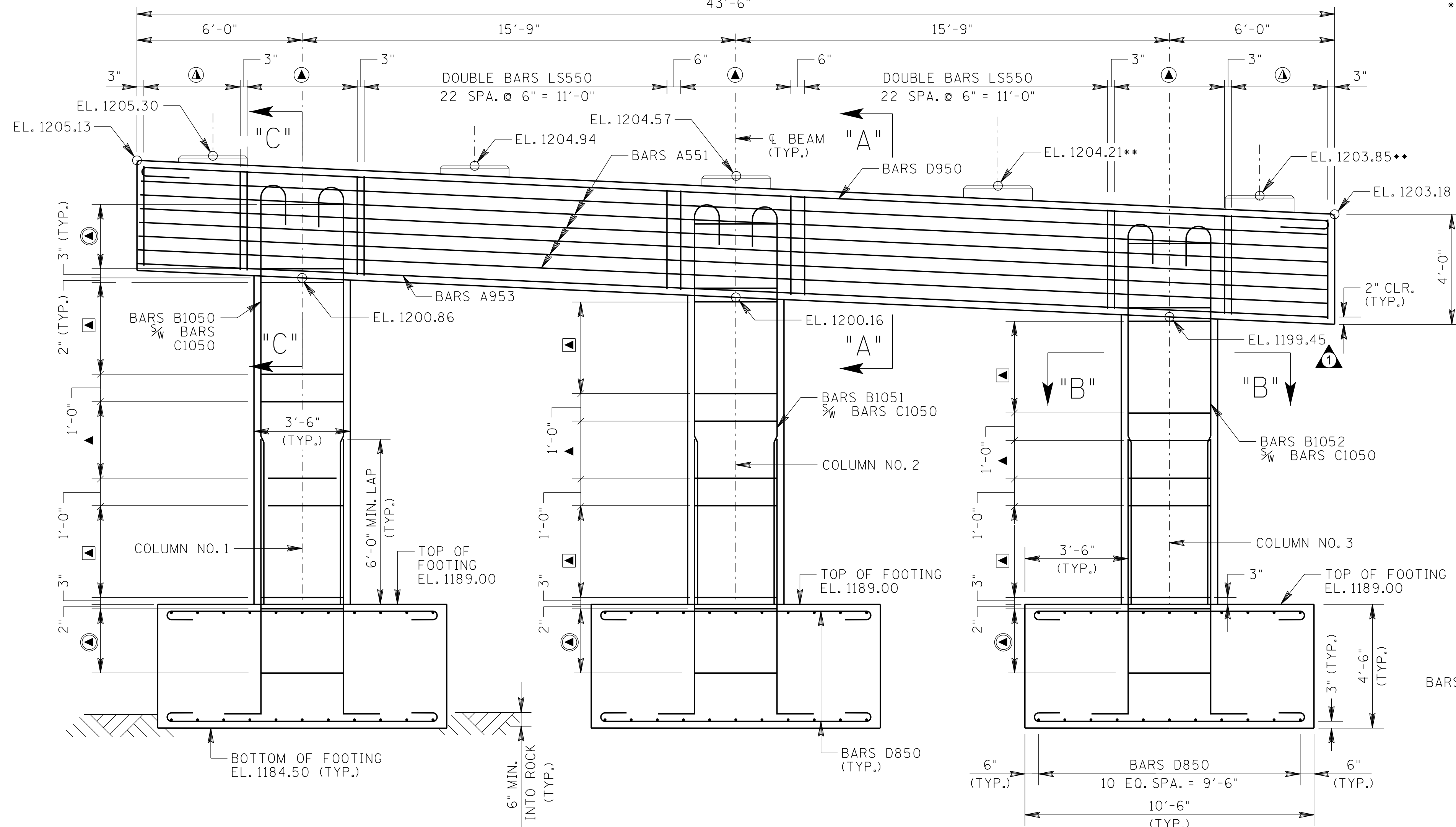


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1

SUPERSTRUCTURE
MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026 U-101-82



PLAN
(N.T.S.)



ELEVATION

(N.T.S.)

(LOOKING FORWARD ON SURVEY)

NOTE: SEE DWG U-101-98 FOR SECTION "A"- "A", "B"- "B", AND "C"- "C" DETAILS

■ DENOTES: 91°47'26" BEAM ANGLE MEASURED
FROM C BEAM TO C PIER.

☉ DENOTES; FOR BEAM ANGLES, REFER
TO FRAMING PLAN DWG. NO. U-101-84

▲ DENOTES: BARS T550

3	EQ. SPA. =	2'-9 $\frac{11}{16}$ "	(COL. 1)
2	EQ. SPA. =	2'-0 $\frac{7}{8}$ "	(COL. 2)
2	EQ. SPA. =	1'-4 $\frac{3}{8}$ "	(COL. 3)

⊙ DENOTES: BARS T550, 7 SPA. @ 4" MAX = 2'-4"

Ⓐ DENOTES: BARS LS550, 7 SPA. 6" = 3'-6"

⊙ DENOTES: BARS H550, 4 SPA. 1'-0" = 4'-0"

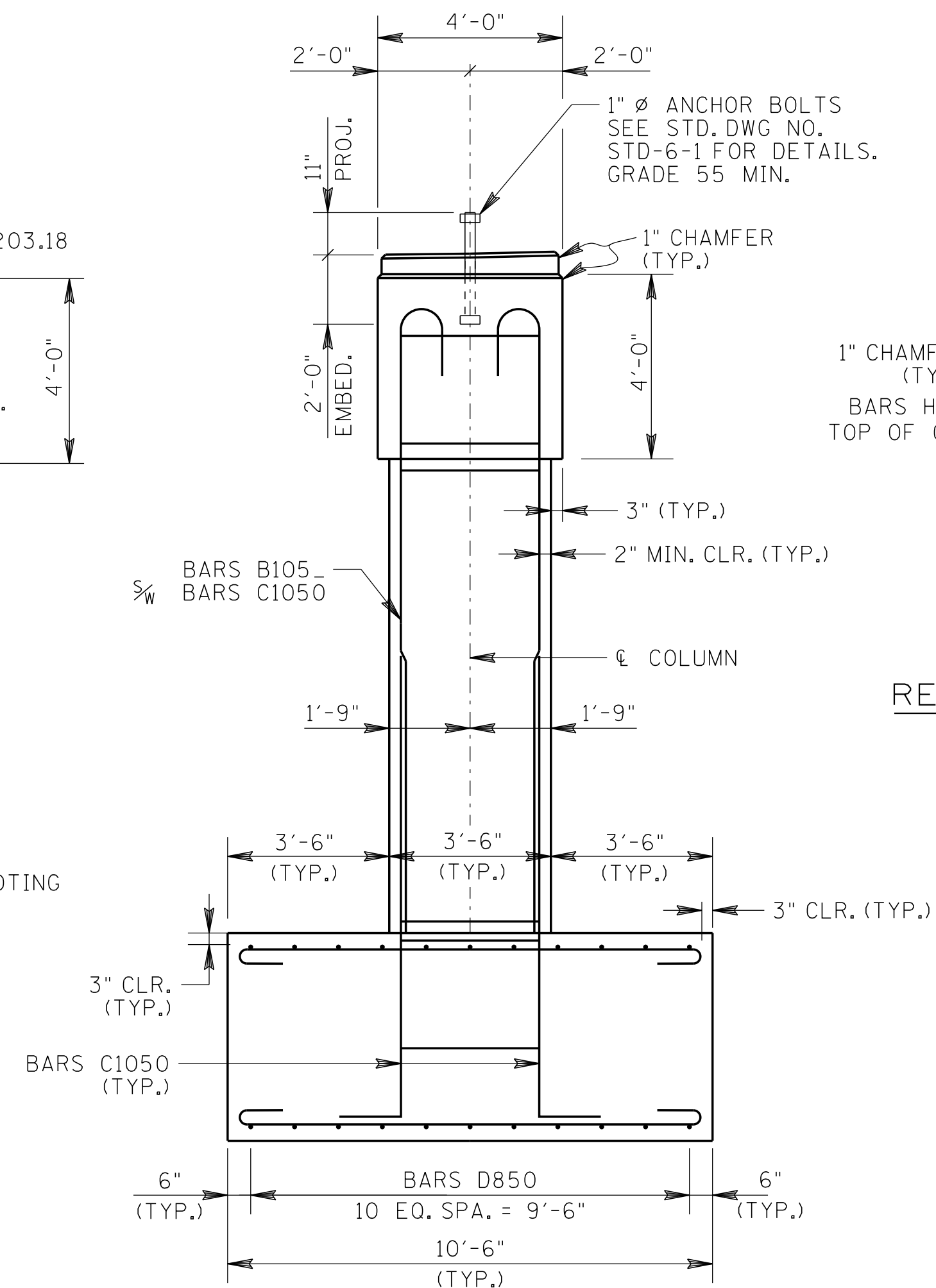
▲ DENOTES: 11 BARS T550

10 SPA. @ 4" = 3'-4"

ESTIMATED QUANTITIES

CLASS "A" CONCRETE (BRIDGES) (C.Y.)	STEEL BAR REINFORCEMENT (BRIDGES) (LB.)
94	17,230

** DENOTES: REINFORCED RISER BLOCK,
SEE REINFORCED RISER DETAIL



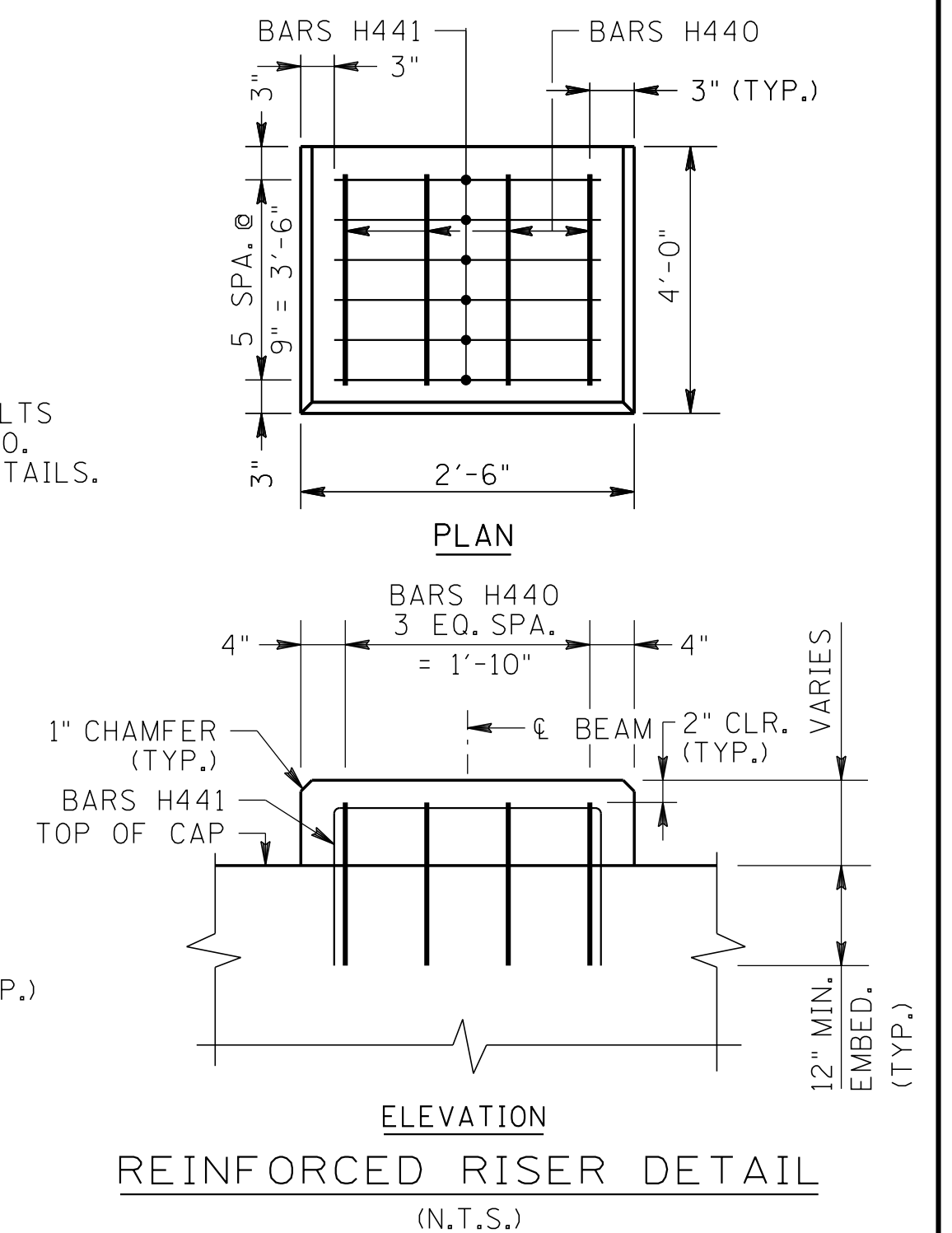
END ELEVATION

(N.T.S.)

PROJECT NO.		YEAR		SHEET NO.	
82956-3594-04		2026		B-21	
REVISIONS					
NO.	DATE	BY	BRIEF DESCRIPTION		
1	09-25-2026	KSM	REVISED TOP OF COLUMN ELEVATIONS		

NOTES:

1. WHEN POURING CAP BEAM, PROVISIONS SHALL BE MADE FOR SETTING ANCHOR BOLTS. SEE STANDARD DRAWINGS STD-6-1. BOLT PROJECTION 11".
2. RISER BLOCKS TO BE POURED MONLITHICALLY WITH BENT CAP.
3. ELASTOMERIC PADS SHALL BE IN PLACE A MINIMUM OF ONE DAY BEFORE DISTURBED BY SETTING BEAMS ON CONCRETE. PLACE RUBBER BONDING CEMENT IN SUCH A WAY THAT VISIBLE CONCRETE SURFACES WILL NOT BE STAINED.
4. RISER BLOCK BEARING SURFACE TO CONFORM TO BOTTOM OF BEAM GRADE.
5. COLUMN STEEL SHALL EXTEND 3'-0" INTO BENT CAP.



SEAL BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1

BENT - NO. 1

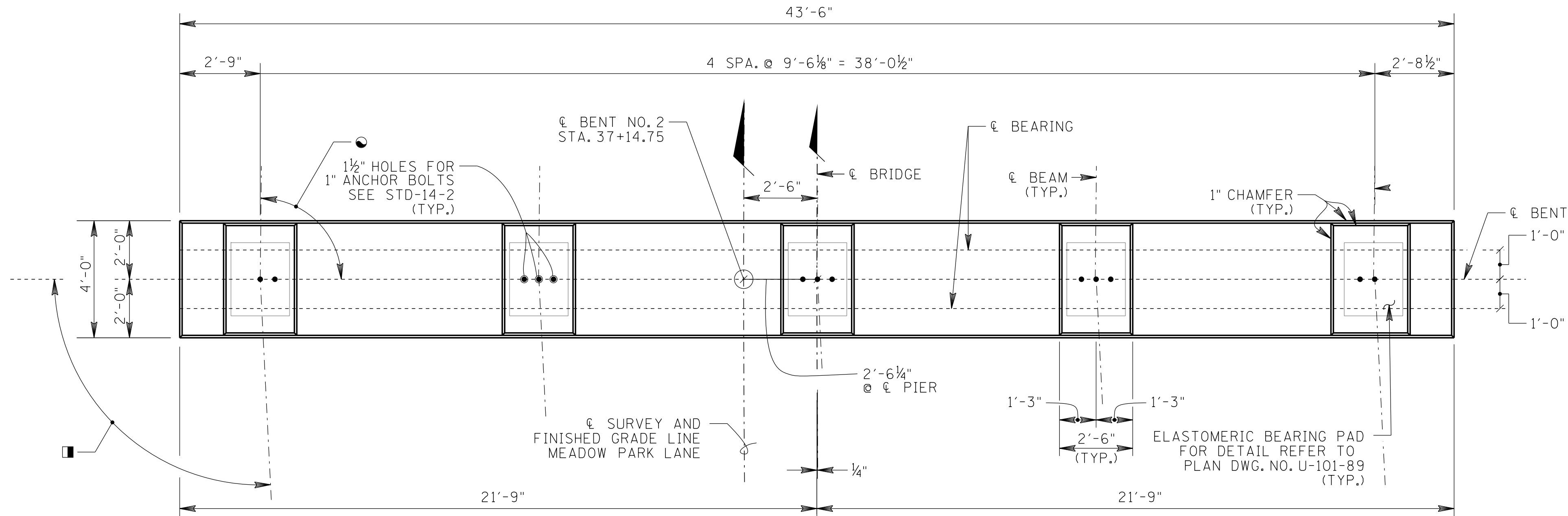
MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50

BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY

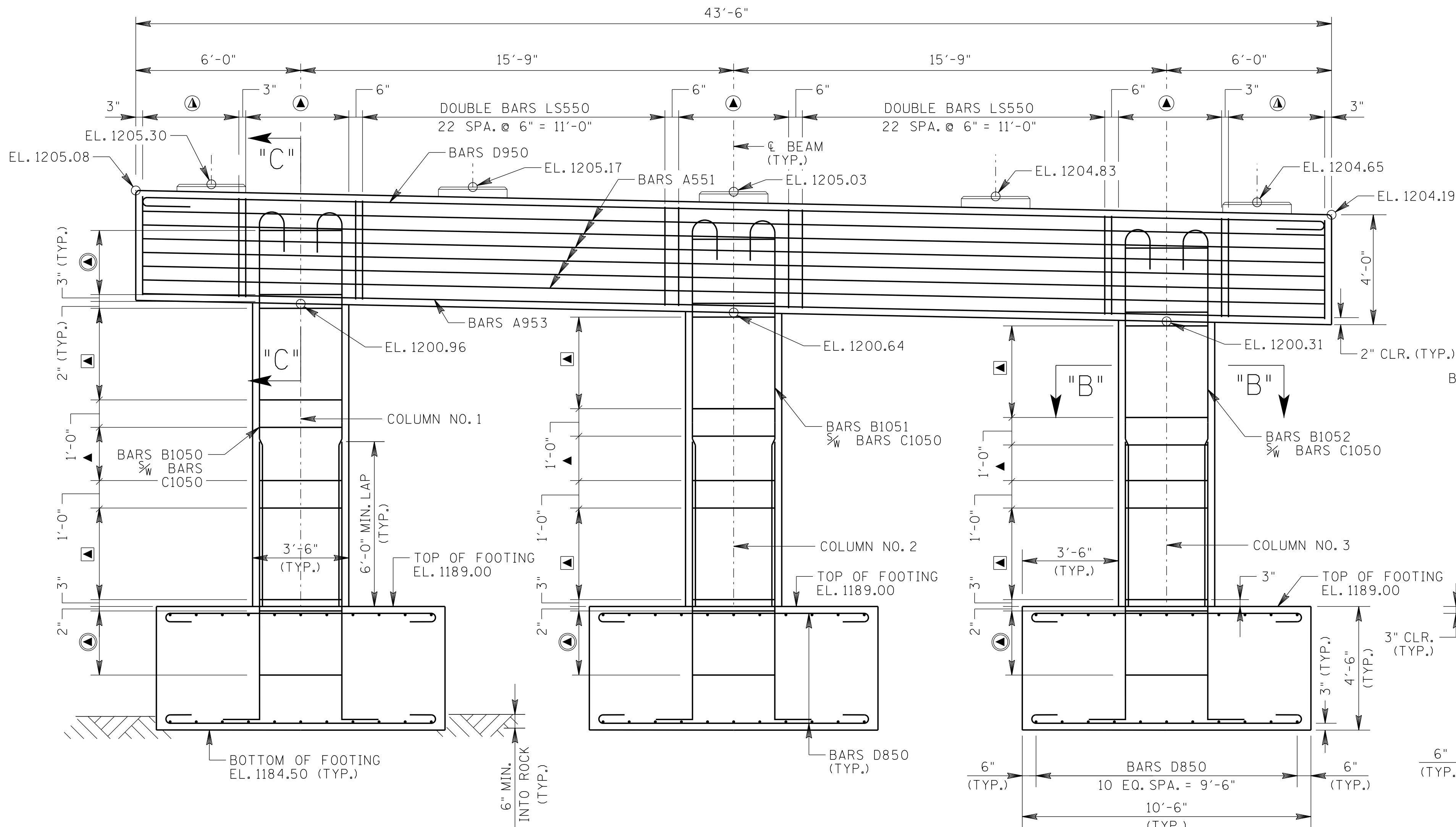
2026

U-101-96

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PLAN
(N.T.S.)



ELEVATION
(N.T.S.)

(LOOKING FORWARD ON SURVEY)

NOTE: SEE DWG U-101-98 FOR SECTIONS "A"-"A", "B"-"B", AND "C"-"C" DETAILS

■ DENOTES: 91°47'26" BEAM ANGLE MEASURED FROM ℓ BEAM TO ℓ PIER.

● DENOTES: FOR BEAM ANGLES, REFER TO FRAMING PLAN DWG. NO. U-101-84

▲ DENOTES: BARS T550
2 EQ. SPA. = 1'-11 1/4" (COL. 1)
2 EQ. SPA. = 1-7 3/8" (COL. 2)
2 EQ. SPA. = 1'-3 3/16" (COL. 3)

▲ DENOTES: 11 BARS T550
10 SPA. @ 4" = 3'-4"

▲ DENOTES: BARS T550, 7 SPA. @ 4" = 2'-4"

▲ DENOTES: BARS LS550, 7 SPA. 6" = 3'-6"

▲ DENOTES: BARS H550, 4 SPA. 1'-0" = 4'-0"

1

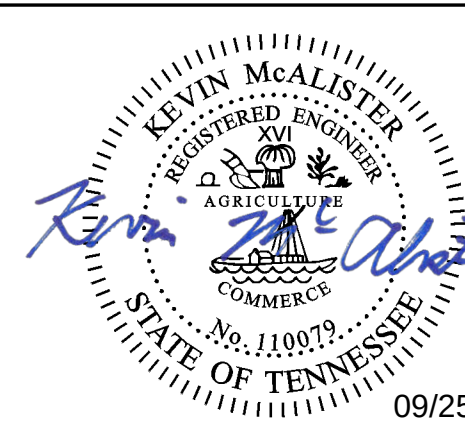
NOTES:

- WHEN POURING CAP BEAM, PROVISIONS SHALL BE MADE FOR SETTING ANCHOR BOLTS. SEE STANDARD DRAWINGS STD-6-1. BOLT PROJECTION 11".
- RISER BLOCK(S) TO BE POURED MONLITHICALLY WITH CAP BEAM.
- ELASTOMERIC PADS SHALL BE IN PLACE A MINIMUM OF ONE DAY BEFORE DISTURBED BY SETTING BEAMS ON CONCRETE. PLACE RUBBER BONDING CEMENT IN SUCH A WAY THAT VISIBLE CONCRETE SURFACES WILL NOT BE STAINED.
- RISER BLOCK BEARING SURFACE TO CONFORM TO BOTTOM OF BEAM GRADE.
- COLUMN STEEL TO EXTEND 3'-0" INTO CAP BEAM.

ESTIMATED QUANTITIES

CLASS "A" CONCRETE (BRIDGES) (C.Y.)	STEEL BAR REINFORCEMENT (BRIDGES) (LB.)
94	17,294

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1

BENT NO. 2

MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-0B350-00.71
BRIDGE I.D. NO. 820B3500003
SULLIVAN COUNTY
2026

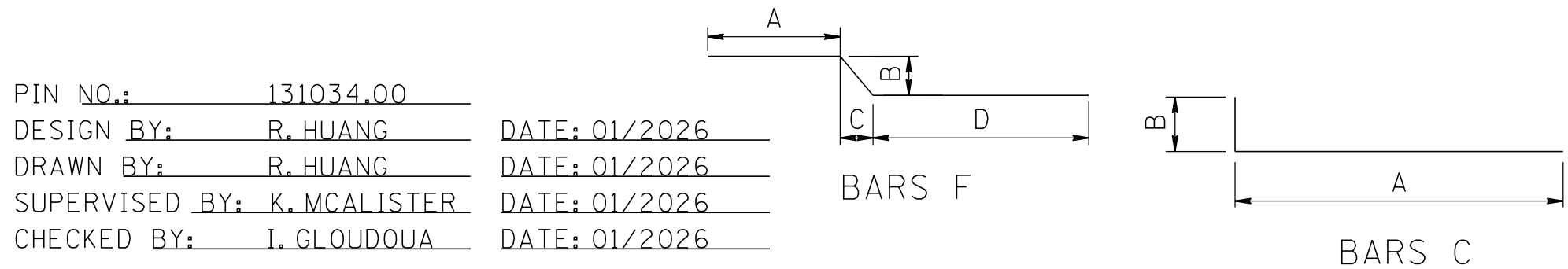
U-101-97

PIN NO.: 131034.00
DESIGN BY: R. HUANG
DRAWN BY: R. HUANG
SUPERVISED BY: K. MCALISTER
CHECKED BY: I. GLODDOUA
DATE: 01/2026
DATE: 01/2026
DATE: 01/2026
DATE: 01/2026

END ELEVATION
(N.T.S.)

SUPERSTRUCTURE

BAR	LOCATION	SIZE	NO. ROD.	BENDING DIMENSIONS				LENGTH
				A	B	C	D	
		EPOXY						
A400E	SIDEWALK	4	18	60'-0"				60'-0"
A401E	SIDEWALK	4	6	56'-5"				56'-5"
A402E	SIDEWALK	4	229	4'-8"				4'-8"
A500E	TOP & BOT. SLAB	5	96	23'-6"				23'-6"
A501E	TOP & BOT. SLAB	5	48	46'-8"				46'-8"
A502E	TOP & BOT. SLAB	5	722	43'-4"				43'-4"
A503E	BOT. SLAB	5	134	60'-0"				60'-0"
A504E	BOT. SLAB	5	67	46'-10"				46'-10"
A505E	BOT. SLAB	5	67	23'-4"				23'-4"
A800E	TOP SLAB	8	178	50'-0"				50'-0"
HC570E	OVERHANG	5	241	1'-0"	0'-6"	0'-10"		2'-4"
HC571E	OVERHANG	5	241	1'-6"	0'-6"	0'-10"		2'-10"
K500E	HAUNCH	5	52	0'-10"	1'-0"	0'-6½"	0'-6½"	2'-11"
K501E	HAUNCH	5	5	0'-10"	1'-0"	0'-7"	0'-7"	3'-0"
		REGULAR						
A500	DIAPHRAGM	5	96	8'-7"				8'-7"
A501	DIAPHRAGM	5	20	44'-8"				44'-8"
LS400	DIAPHRAGM	4	84	1'-1⅝"	3'-7½"			10'-4"
LS401	DIAPHRAGM	4	20	1'-1⅝"	1'-1"			5'-3"
LS403	DIAPHRAGM	4	108	0'-7⅝"	2'-1"			6'-3"
ABUTMENT NO. 1								
		EPOXY						
A640E	ENDWALL	6	2	43'-4"				43'-4"
A641E	ENDWALL	6	82	4'-9½"				4'-9½"
A642E	ENDWALL	6	8	4'-9½"				4'-9½"
B640E	ENDWALL	6	2	5'-0"				5'-8"
F640E	ENDWALL	6	41	1'-1"	1'-3"	1'-1"	1'-3"	4'-0"
R640E	ENDWALL	6	41	3'-2"	3'-0"			6'-2"
H570E	W.W. STD-11-2	5	34	0'-8½"	1'-10"			4'-4½"
H571E	W.W. STD-11-3	5	34	0'-8½"	2'-4"			5'-4½"
		REGULAR						
A440	RDWY BRACKET	4	1	40'-4"				40'-4"
A441	WINGWALL	4	12	16'-2"				16'-2"
A442	WINGWALL	4	15	4'-8½"				4'-8½"
A443	WINGWALL	4	15	4'-11"				4'-11"
A540	ABUTMENT BEAM	5	2	44'-8"				44'-8"
A541	WINGWALL BEAM	5	4	17'-7½"				17'-7½"
A640	ENDWALL	6	10	43'-3¾"				43'-3¾"
A641	WINGWALL BEAM	6	8	3'-6"				3'-6"
A642	WINGWALL	6	12	16'-2"				16'-2"
A643	WINGWALL	6	15	4'-8½"				4'-8½"
A644	WINGWALL	6	15	4'-11"				4'-11"
A740	ABUTMENT BEAM	7	10	44'-8"				44'-8"
A741	WINGWALL BEAM	7	20	17'-7½"				17'-7½"



ABUTMENT NO. 1 (CONT.)

BAR	LOCATION	SIZE	NO. ROD.	BENDING DIMENSIONS				LENGTH
				A	B	C	D	
REGULAR								
B640	ENDWALL	6	10	5'-0"				5'-8"
H540	ENDWALL	5	41	2'-2"	0'-7"			3'-4"
H640	ABUTMENT AND W.W. BEAM	6	71	1'-2"	4'-4"			9'-10"
LS540	ABUTMENT AND W.W. BEAM	5	76	2'-8"	2'-8"			11'-8"
VA840	ABUTMENT AND W.W. BEAM	8	18	2'-6"				5'-0"
ABUTMENT NO. 2								
EPOXY								
A640E	ENDWALL	6	2	43'-4"				43'-4"
A641E	ENDWALL	6	82	4'-9½"				4'-9½"
A642E	ENDWALL	6	8	4'-9½"				4'-9½"
B640E	ENDWALL	6	2	5'-0"				5'-8"
F640E	ENDWALL	6	41	1'-1"	1'-3"	1'-1"	1'-3"	4'-0"
R640E	ENDWALL	6	41	3'-2"	3'-0"			6'-2"
H570E	W.W. STD-11-2	5	34	0'-8½"	1'-10"			4'-4½"
H571E	W.W. STD-11-3	5	34	0'-8½"	2'-4"			5'-4½"
REGULAR								
A440	RDWY BRACKET	4	1	40'-4"				40'-4"
A441	WINGWALL	4	12	16'-2"				16'-2"
A442	WINGWALL	4	15	5'-0"				5'-0"
A443	WINGWALL	4	15	4'-10"				4'-10"
A540	ABUTMENT BEAM	5	2	44'-8"				44'-8"
A541	WINGWALL BEAM	5	4	17'-7½"				17'-7½"
A640	WINGWALL BEAM	6	10	43'-4"				43'-4"
A641	WINGWALL BEAM	6	8	3'-6"				3'-6"
A642	WINGWALL	6	12	16'-2"				16'-2"
A643	WINGWALL	6	15	5'-0"				5'-0"
A644	WINGWALL	6	15	4'-10"				4'-10"
A740	ABUTMENT BEAM	7	10	44'-8"				44'-8"
A741	WINGWALL BEAM	7	20	17'-7½"				17'-7½"
B640	ENDWALL	6	10	5'-0"				5'-8"
H440	RISER	4	16	1'-7"	1'-7"			4'-9"
H441	RISER	4	12	2'-0"	1'-6"			5'-0"
H540	ENDWALL	5	41	2'-2"	0'-7"			3'-4"
H640	ABUTMENT AND W.W. BEAM	6	41	1'-2"	4'-4"			9'-10"
LS540	ABUTMENT AND W.W. BEAM	5	76	2'-8"	2'-8"			11'-8"
VA840	ABUTMENT AND W.W. BEAM	8	18	2'-6"				5'-0"
BENT NO. 1								
BAR	LOCATION	SIZE	NO. ROD.	BENDING DIMENSIONS				LENGTH
				A	B	C	D	
REGULAR								
A551	CAP	5	12	43'-3"				43'-3"
A953	CAP	9	9	43'-3"				43'-3"
B1050	COLUMN	10	18	14'-9"				16'-2"
B1051	COLUMN	10	18	14'-2"				15'-7"

REINFORCING STEEL CODE

TYPE	SIZE	SERIES
A	5	06

NOTE: DIMENSIONS SHOWN ON THIS SHEET
ARE OUTSIDE TO OUTSIDE OF
BARS. STANDARD C.R.S.I. HOOK
DETAILS SHALL APPLY, EXCEPT
AS NOTED.

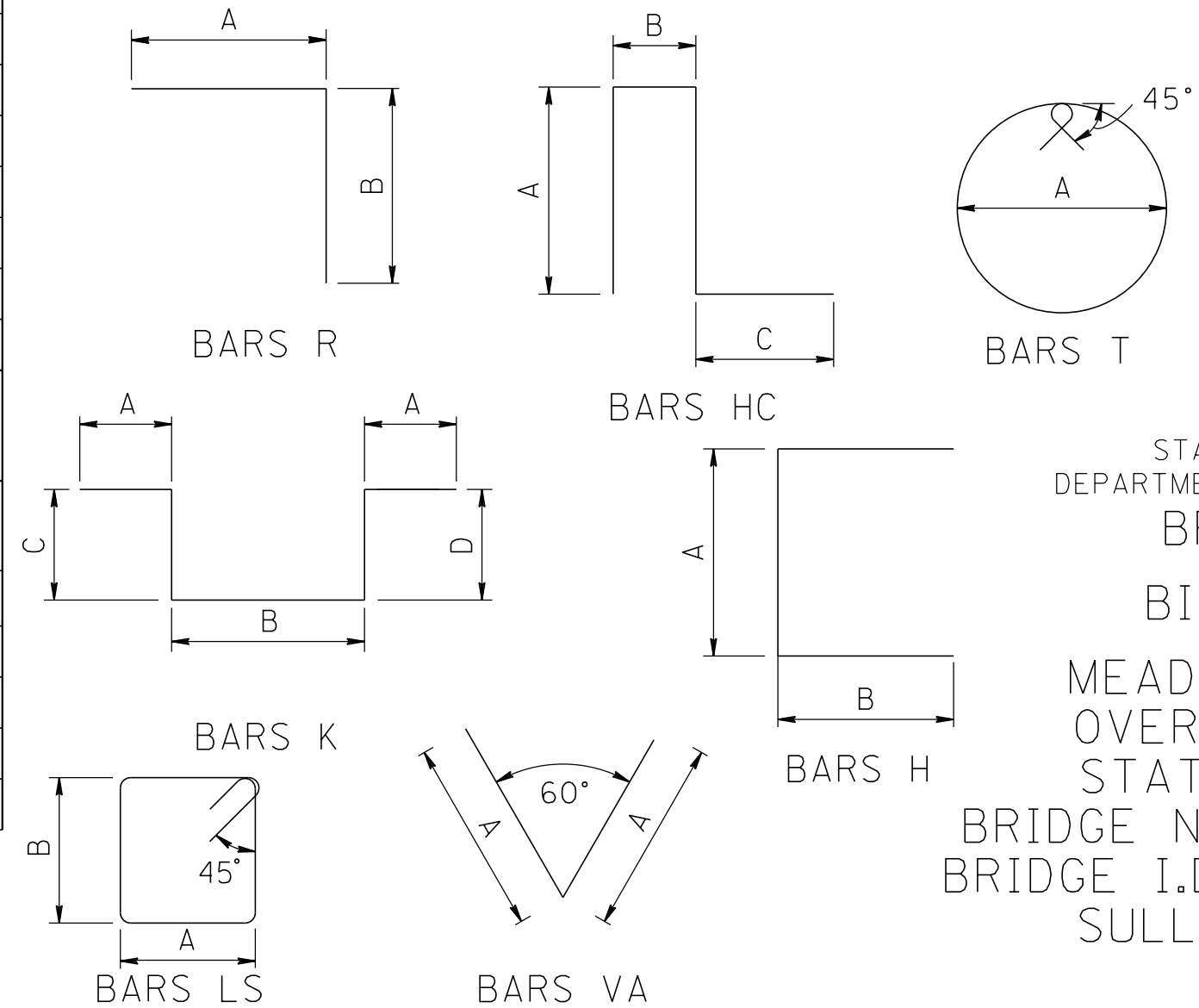
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82956-3594-04		2026		B-25	
REVISIONS					
NO.	DATE	BY	BRIEF DESCRIPTION		
1	09-25-2026	KSM	REVISED ESTIMATED QUANTITIES		

BENT NO. 1 (CONT.)

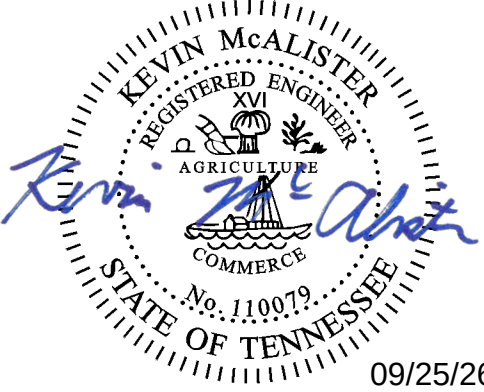
BAR	LOCATION	SIZE	NO. ROD.	BENDING DIMENSIONS				LENGTH
				A	B	C	D	
				REGULAR				
B1052	COLUMN	10	18	13'-5"				14'-10"
C1050	COLUMN	10	54	10'-1"	1'-3"			11'-11"
D850	FOOTING	8	132	10'-0"				11'-10"
D950	CAP	9	9	43'-3"				45'-9"
H440	RISER	4	8	1'-7"	1'-6"			4'-8"
H441	RISER	4	12	2'-0"	1'-6"			5'-0"
H550	CAP	5	30	2'-4"	3'-8"			9'-8"
LS550	CAP	5	124	2'-4"	3'-8"			12'-9"
T550	COLUMN	3	124	3'-2"				10'-10"

BENT NO. 2

		REGULAR						
A551	CAP	5	12	43'-3"				43'-3"
A953	CAP	9	9	43'-3"				43'-3"
B1050	COLUMN	10	18	14'-11"				16'-4"
B1051	COLUMN	10	18	14'-9"				16'-2"
B1052	COLUMN	10	18	14'-5"				15'-10"
C1050	COLUMN	10	54	10'-1"	1'-10"			11'-11"
D850	FOOTING	8	132	10'-0"				11'-10"
D950	CAP	9	9	43'-3"				45'-9"
H550	CAP	5	30	2'-4"	3'-8"			9'-8"
LS550	CAP	5	124	2'-4"	3'-8"			12'-9"
T550	COLUMN	5	123	3'-2"				10'-10"



SEAL BY

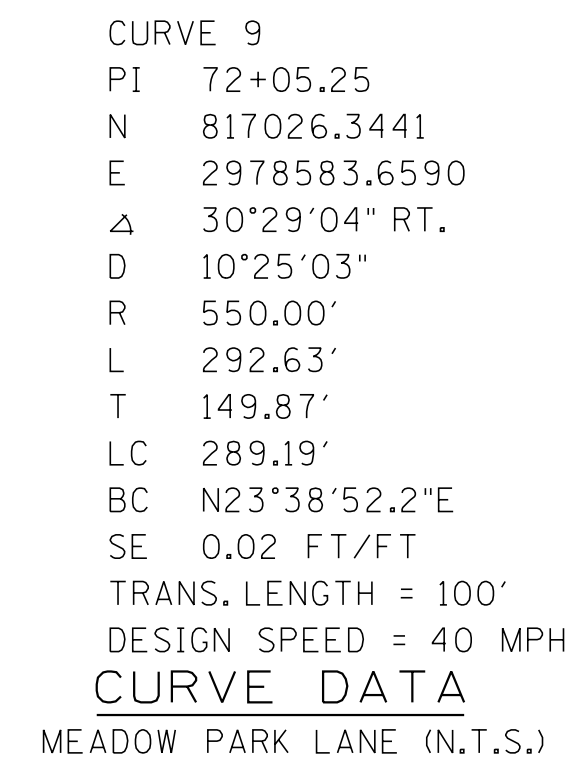


09/25/20

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1

BILL OF STEEL
MEADOW PARK LANE
OVER HORSE CREEK
STATION 36+65.50
BRIDGE NO. 82-OB350-00.71
BRIDGE I.D. NO. 82OB3500003
SULLIVAN COUNTY
2026

U-101-10C

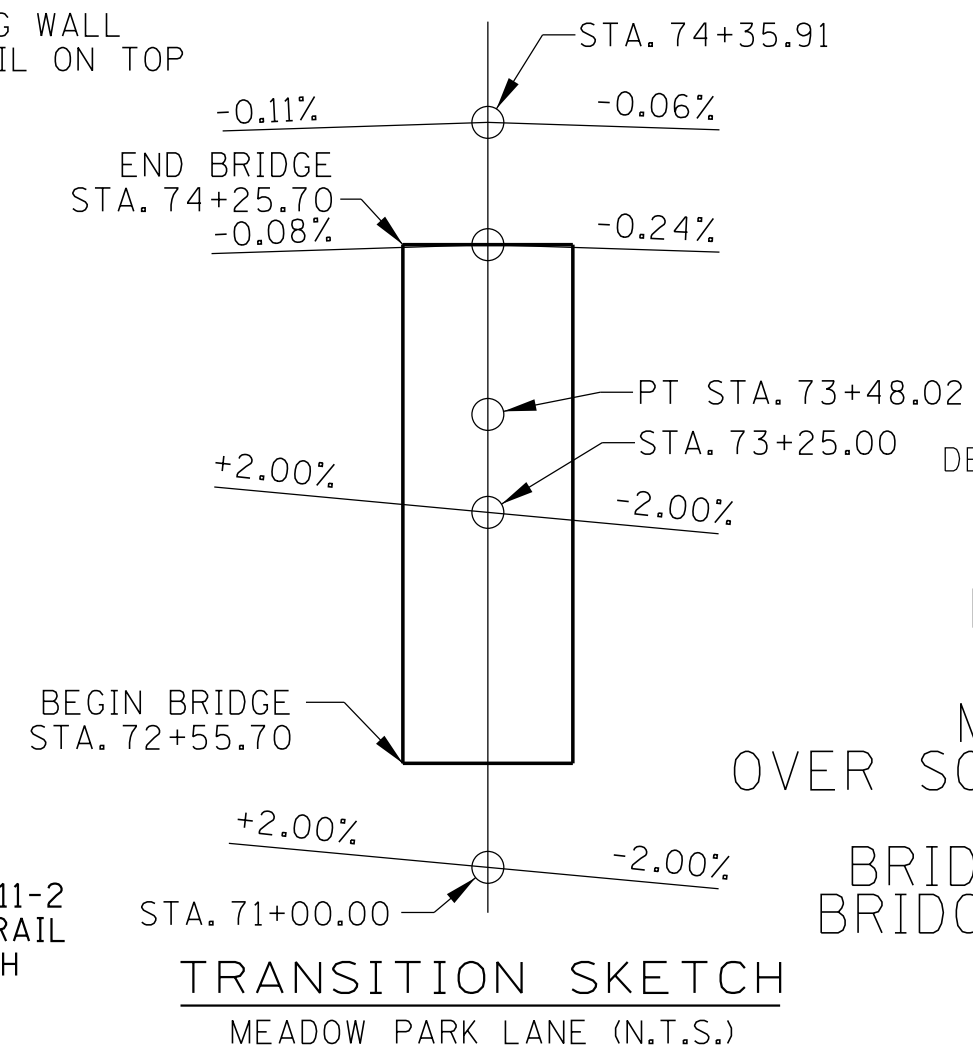
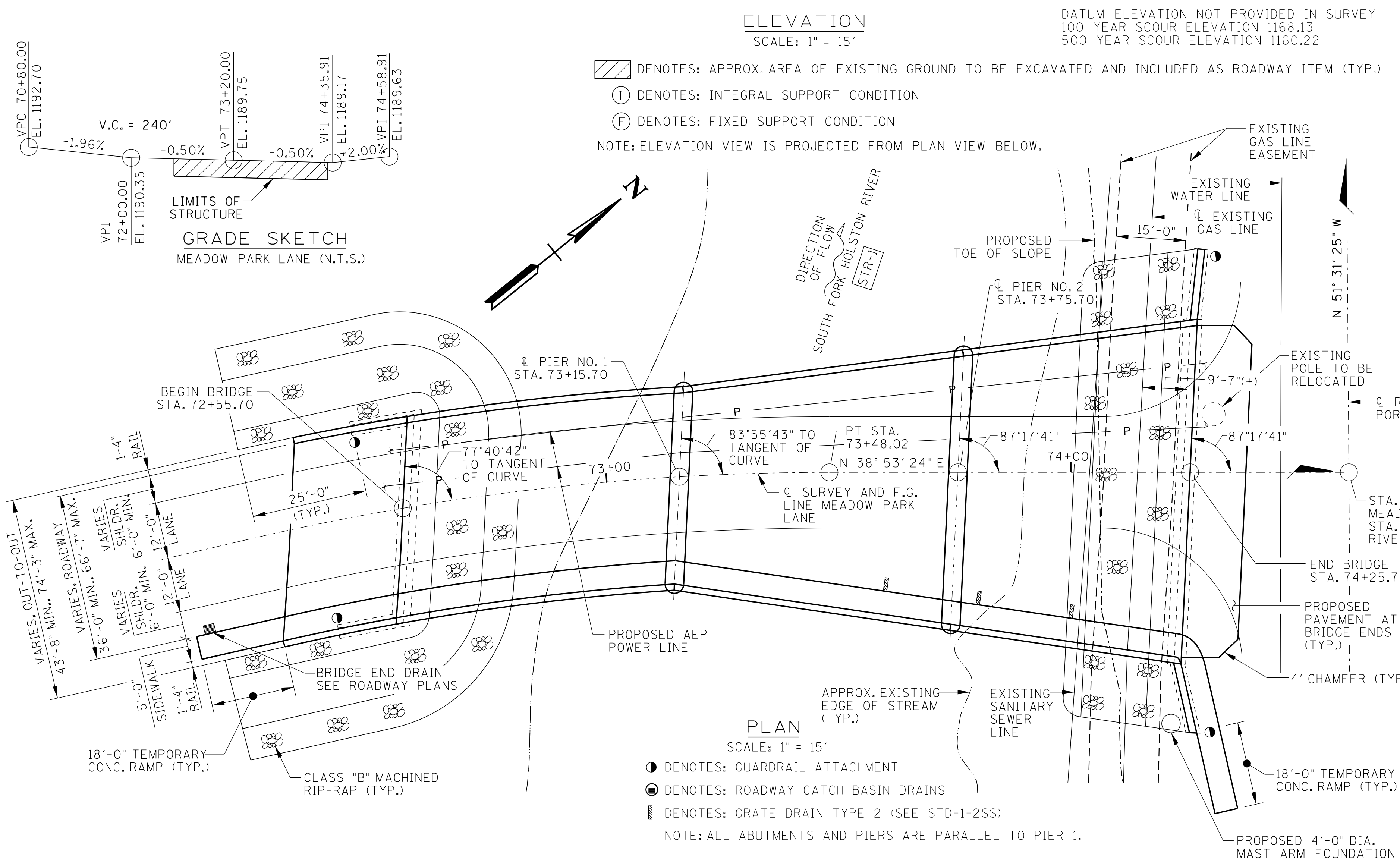


PROJECT NO.		YEAR		SHEET NO.	
82956-3594-04		2026		B-26	
REVISIONS					
NO.	DATE	BY	BRIEF DESCRIPTION		
1	09-25-2026	KSM	REVISED REV. DATE ON LIST OF DRAWINGS		

1	LIST OF DRAWINGS	DWG. NO.	DATE
	LAYOUT OF BRIDGE	U-101-101	09-25-26
	GENERAL NOTES AND ESTIMATED QUANTITIES	U-101-102	09-25-26
	FOUNDATION DATA SHEET (1 OF 2)	U-101-103	
	FOUNDATION DATA SHEET (2 OF 2)	U-101-104	
	SUPERSTRUCTURE (1 OF 2)	U-101-105	09-25-26
	SUPERSTRUCTURE (2 OF 2)	U-101-106	
	SUPERSTRUCTURE DETAILS (1 OF 5)	U-101-107	
	SUPERSTRUCTURE DETAILS (2 OF 5)	U-101-108	
	SUPERSTRUCTURE DETAILS (3 OF 5)	U-101-109	
	SUPERSTRUCTURE DETAILS (4 OF 5)	U-101-110	
	SUPERSTRUCTURE DETAILS (5 OF 5)	U-101-111	
	SCREED PLAN	U-101-112	
	STAKEOUT PLAN	U-101-113	
	PRESTRESSED BEAM DETAILS (27" X 48" BOX BEAMS)		
	SPAN NO. 1	U-101-114	
	PRESTRESSED BEAM DETAILS (27" X 48" BOX BEAMS)		
	SPAN NO. 2	U-101-115	
	PRESTRESSED BEAM DETAILS (27" X 48" BOX BEAMS)		
	SPAN NO. 3	U-101-116	
	ABUTMENT NO. 1	U-101-117	
	ABUTMENT NO. 1 DETAILS	U-101-118	
	ABUTMENT NO. 1 STEEL PILE DETAILS	U-101-118A	
	ABUTMENT NO. 2 (1 OF 2)	U-101-119	
	ABUTMENT NO. 2 (2 OF 2)	U-101-120	
	ABUTMENT NO. 2 DETAILS (1 OF 2)	U-101-121	
	ABUTMENT NO. 2 DETAILS (2 OF 2)	U-101-122	
	PIER NO. 1	U-101-123	
	PIER NO. 1 DETAILS	U-101-124	
	PIER NO. 2	U-101-125	
	PIER NO. 2 DETAILS	U-101-126	
	FINAL FOUNDATION DATA	U-101-127	
	BILL OF STEEL (1 OF 2)	U-101-128	
	BILL OF STEEL (2 OF 2)	U-101-129	
	LIST OF STANDARD DRAWINGS	DWG. NO.	REV.
			DATE

REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS	STD-1-5	06-05-23
STEEL SLIDER PLATE ASSEMBLIES FOR SINGLE SLOPE		
CONCRETE PARAPET AND DECK DRAIN DETAILS	STD-1-2SS	05-31-24
STANDARD PILE DETAILS	STD-5-1	
STANDARD SEISMIC DETAILS	STD-6-1	12-08-23
TRI-STAR STATE EMBLEM FINISH DETAILS	STD-8-6	10-03-18
STANDARD REINFORCING BAR SUPPORT DETAILS FOR		
CONCRETE SLABS	STD-9-1	10-07-08
MISC. 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 CONCRETE CLASSIC RAIL	STD-11-2	04-15-20
STANDARD CONCRETE PEDESTRIAN CLASSIC RAIL	STD-11-3	04-15-20
STANDARD DETAILS FOR PRESTRESSED BOX BEAMS	STD-14-3	03-06-24

HYDRAULIC DATA	
DRAINAGE AREA	1978.93 SQ. MI.
DESIGN DISCHARGE (100 YEAR)	8,850 CFS
WATER AREA PROVIDED BELOW EL.1183.34	950.74 SQ. FT.
100 YEAR VELOCITY	7.28 FPS
100 YEAR BRIDGE BACKWATER 0.00 FT. AT	EL.1185.88 FT.
500 YEAR DISCHARGE	14,920 CFS
ROADWAY OVERTOPPING ELEVATION	1189.22 FT.



SEAL BY

KEVIN McALISTER
REGISTERED ENGINEER
NO. 110079
AGRICULTURE
STATE OF TENNESSEE
COMMERCIAL

09/25/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 2
LAYOUT OF BRIDGE
MEADOW PARK LANE
SOUTH FORK HOLSTON RIVER
STATION 73+40.70
DGE NO. 82-0B350-0.02
GE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

PIN NO.:	131034.00	
DESIGN BY:	H. WU	DATE: 09/2025
DRAWN BY:	H. WU	DATE: 09/2025
SUPERVISED BY:	K. MCALISTER	DATE: 10/2025
CHECKED BY:	I. GLOUDOUA	DATE: 10/2025

MACHINE RIP RAP (CLASS "B") = 961 TONS

U-101-101

ESTIMATED BRIDGE QUANTITIES

FOOTNOTE	ITEM NO.	DESCRIPTION	UNITS	TOTAL	SUPERSTRUCTURE	ABUT. NO. 1	PIER NO. 1	PIER NO. 2	ABUT. NO. 2
(1)	204-02.01	DRY EXCAVATION (BRIDGES)	C.Y.	27	-	7	-	-	20
(1)	204-03.01	WET EXCAVATION (BRIDGES)	C.Y.	69	-	-	17	52	-
(1)	204-04.01	ROCK EXCAVATION (BRIDGES)	C.Y.	30	-	-	12	18	-
(1)	204-05	ROCK DRILLING (BRIDGES)	L.F.	72	-	-	30	42	-
(12)	204-10.02	FOUNDATION PREPARATION (PIER NO.1, STA. 73+15.70)	L.S.	1	-	-	1	-	-
(12)	204-10.04	FOUNDATION PREPARATION (PIER NO.2, STA. 73+75.70)	L.S.	1	-	-	-	1	-
	204-14	CORE DRILLING FOR PILES(ROCK)	L.F.	110	-	110	-	-	-
(2)	303-01.02	GRANULAR BACKFILL (BRIDGES)	TON	75	-	21	-	-	54
	604-02.03	EPOXY COATED REINFORCING STEEL	LB.	132,889	129,136	1,448	-	-	2,305
(13)	604-03.01	CLASS A CONCRETE (BRIDGES)	C.Y.	389	16	40	114	160	59
	604-03.02	STEEL BAR REINFORCEMENT (BRIDGES)	LB.	71,469	1,042	4,782	22,550	35,875	7,220
(4)	604-03.04	PAVEMENT @ BRIDGE ENDS	S.Y.	224	-	124	-	-	100
	604-03.32	CLASS DS CONCRETE (BRIDGE DECK)	C.Y.	275	275	-	-	-	-
(5)	604-04.01	APPLIED TEXTURE FINISH (NEW STRUCTURES)	S.Y.	867	524	46	106	128	63
(6)	604-05.31	BRIDGE DECK GROOVING (MECHANICAL)	S.Y.	1,047	1,047	-	-	-	-
(7)	606-03.03	STEEL PILES (12 INCH)	L.F.	222	-	117	-	-	105
(8)	606-03.06	PILE TIPS (STEEL PILES, 12 INCH)	EA.	10	-	-	-	-	10
	610-10.45	DECK DRAINS (GRATE DRAINS TYPE 2)	EA.	3	3	-	-	-	-
(3)	615-02.10	PRESTRESSED CONCRETE BOX BEAM (27" X 48")	L.F.	986	986	-	-	-	-
(9)	620-05.02	STANDARD CONCRETE CLASSIC PARAPET RAIL	L.F.	401	342	28	-	-	31
(10)	710-09.01	6" PERFORATED PIPE WITH VERTICAL DRAIN SYSTEM	L.F.	114	-	59	-	-	55
(11)	710-09.02	6" PIPE UNDERDRAIN	L.F.	33	-	17	-	-	16

GENERAL NOTES

SPECIFICATIONS & LOADING

- (1) **CONSTRUCTION SPECIFICATIONS:** TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (APRIL 1, 2026 EDITION).
- (2) **DESIGN SPECIFICATIONS:** 9TH EDITION (2020) 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= 0.174, S_{DS}= 0.345, S_{D1}= 0.146, (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 3 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 SHALL BE 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 DRAWINGS [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.

FOOT NOTES

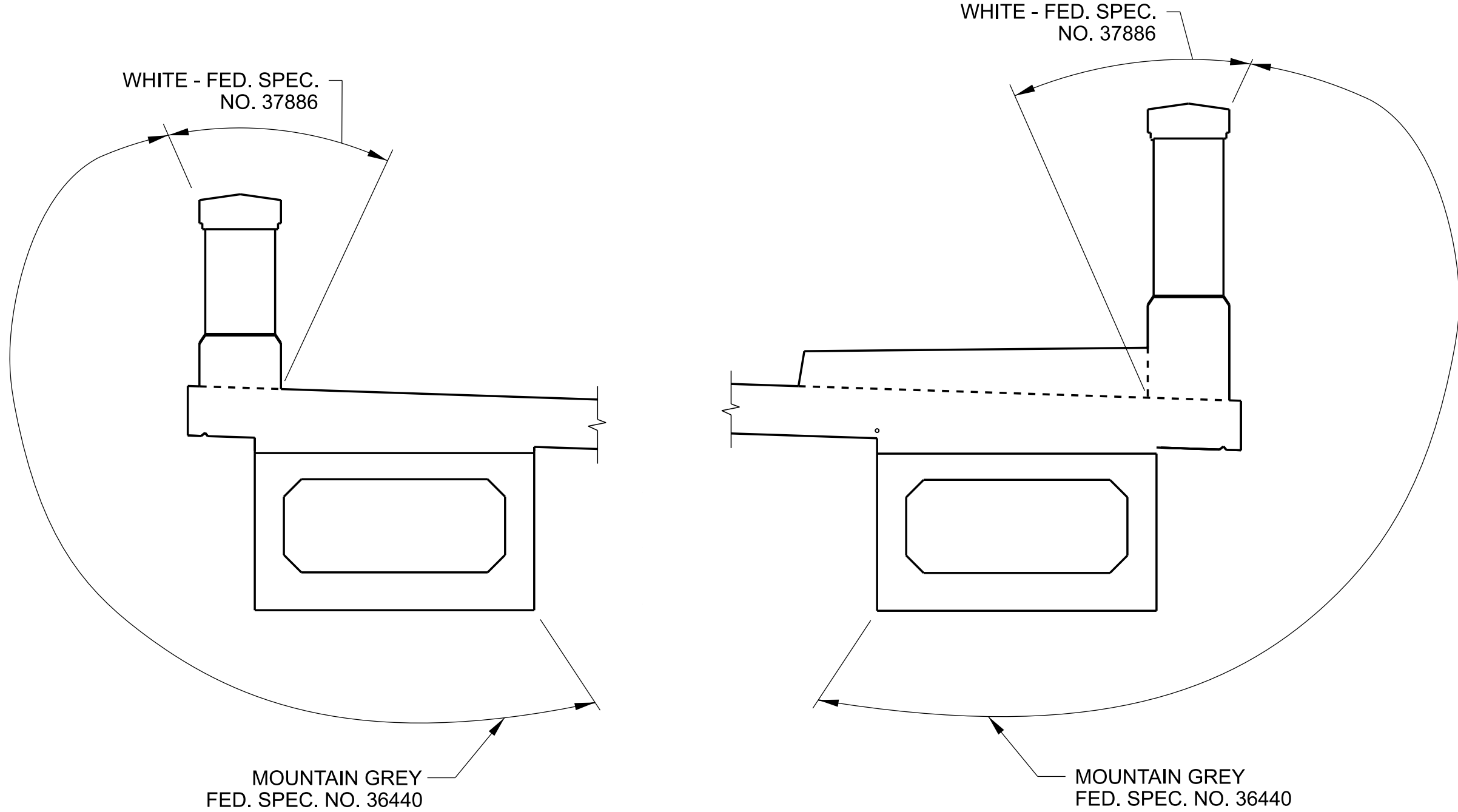
1. EXCAVATION BASED ON FINAL PROFILE AT ABUTMENTS AND EXISTING GROUND AT PIERS.
2. GRANULAR BACKFILL SHALL BE TYPE "A" GRADING "D" MATERIAL. SEE STANDARD DRAWING STD-10-1.
3. NOTE: COST OF ELASTOMERIC PADS AND RUBBER BONDING CEMENT TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PRESTRESSED BEAM.
4. NOTE: SQUARE YARD FOR PAVEMENT AT BRIDGE ENDS SHALL BE MEASURED AS ROAD SURFACE AREA AND SHALL INCLUDED ALL CONCRETE, REINFORCING STEEL, SIDEWALKS SURFACE FINISH AS PER SP604 AND ANY OTHER INCIDENTALS NECESSARY FOR THE COMPLETE INSTALLATION. PRIOR TO CONSTRUCTION OF THE PAVEMENT AT BRIDGE ENDS, THE CONTRACTOR SHALL SUBMIT A PROPOSED BILL OF STEEL TO THE ENGINEER FOR APPROVAL.
5. FOR NOTES AND LIMITS OF TEXTURE COATING, SEE DETAIL ON THIS SHEET.
6. NOTE: COST INCLUDES ALL LABOR AND MATERIALS TO MECHANICALLY GROOVE BRIDGE DECK AND PAVEMENT AT BRIDGE ENDS, INCLUDING THE REMOVAL OF THE GROOVING RESIDUE.
7. NOTE: PILES SHALL BE HP 12 X 53 WITH A MINIMUM YIELD OF 50 KSI.
8. NOTE: THE UNIT PRICE BID FOR THE CAST STEEL POINTS SHALL INCLUDE FURNISHING AND INSTALLATION TO THE PILES.
9. ITEM INCLUDES LABOR AND MATERIALS TO CONSTRUCT BRIDGE RAIL PER STANDARD STD 11-2 AND STD 11-3.
10. NOTE: COST OF POLYETHYLENE SHEETING AND ALL MISCELLANEOUS ITEMS NECESSARY FOR INSTALLATION TO BE INCLUDED IN THE UNIT PRICE BID FOR PERFORATED PIPE.
11. NOTE: THE COST OF WATER STOPS, BITUMINOUS-FIBERBOARD, WEEP HOLE PIPING, ETC., AND ALL MISCELLANEOUS JOINT MATERIAL TO BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.
12. NOTE: SEE FOUNDATION PREPARATION NOTE THIS SHEET.
13. NOTE: THE COST OF ALL MATERIALS AND LABOR NECESSARY FOR THE INSTALLATION OF 36 ANCHOR BOLT ASSEMBLIES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLASS A CONCRETE, ITEM NO. 604-03.01. ALSO INCLUDES CLASS A CONCRETE FOR SIDEWALKS.

- (10) **SPREAD FOOTINGS FOR PIERS:** 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) **END-BEARING STEEL PILES AT PIERS:** FOUNDATIONS FOR PIERS SHALL BE EXCAVATED TO THE BOTTOM OF FOOTING ELEVATIONS SHOWN. ROD SOUNDINGS SHALL THEN BE MADE AS DIRECTED BY THE ENGINEER. FROM THE RESULTS OBTAINED, THE ENGINEER OF STRUCTURES WILL DECIDE IF PILES WILL BE USED OR THE FOOTINGS LOWERED TO ROCK. COST OF ROD SOUNDINGS TO BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS. NO REINFORCING STEEL FOR PIER COLUMNS OR FOOTINGS SHALL BE ORDERED UNTIL FINAL FOOTING ELEVATIONS HAVE BEEN DETERMINED.
- (12) **END-BEARING STEEL PILES:** TO BE HP12X53 DRIVEN TO REFUSAL ON ROCK OR A MINIMUM BEARING OF 135 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).
- (15) **ABUTMENTS ON FILL:** THE FILLS AT THE ENDS OF THE BRIDGE SHALL BE IN PLACE AND THOROUGHLY COMPACTED BEFORE ANY ABUTMENT PILES ARE DRIVEN.

MISCELLANEOUS GENERAL NOTES

- (16) **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.
- (17) **SHOP DRAWINGS:** SEE SECTION 105.02 OF THE STANDARD SPECIFICATIONS.
- (18) **PARAPET SYSTEM:** BUILD PARAPETS ACCORDING TO STANDARD DRAWING (STD-11-2 AND STD-11-3). THE PARAPETS 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.
- (19) **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.

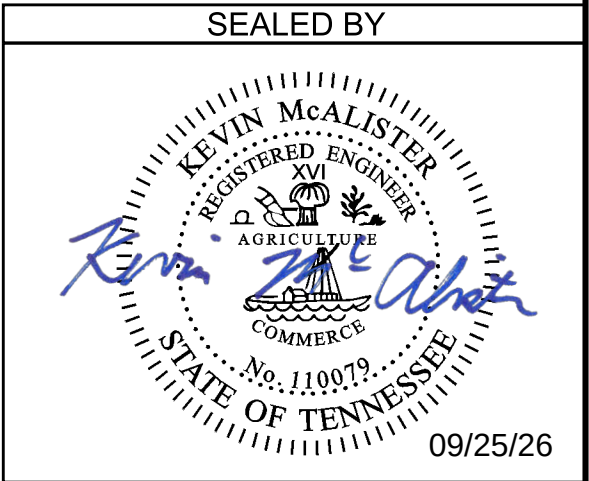
- (20) **FINISHING CONCRETE SURFACES:** CONCRETE FINISHING SHALL BE IN ACCORDANCE WITH SECTION 604.21 OF THE STANDARD SPECIFICATIONS. A CLASS I FINISH FOLLOWED BY AN APPLIED TEXTURE FINISH SHALL BE USED IN LIEU OF A CLASS II FINISH. NO TEXTURE FINISH SHALL BE APPLIED PRIOR TO COMPLETION OF PAVING AND HAULING OPERATIONS AT THE BRIDGE SITE. THE APPLIED TEXTURE FINISH SHALL BE MEASURED AND PAID FOR UNDER ITEM NO. 604-04.01.



APPLIED TEXTURE FINISH SKETCH

NOTE: IN ADDITION TO THE SURFACES SHOWN IN THE APPLIED TEXTURE FINISH SKETCH, ALL EXPOSED SURFACES OF [THE WINGWALLS, ABUTMENT BEAMS, PIERS, AND EXTERIOR PORTIONS OF THE ENDWALLS] SHALL RECEIVE AN APPLIED TEXTURE FINISH, (GRAY, ASTM-STD-595A, COLOR NO. 36440).

PROJECT NO.		YEAR	SHEET NO.
82956-3594-04		2026	B-27
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	07-07-2026	KSM	REVISED ITEM NO. 204-10.02, ITEM NO. 204-10.04
2	09-25-2026	KSM	REVISED ITEM NO. 604-03.09 TO 604-03.32; REMOVED FOOTNOTE 5
			FOR CLASS DS CONCRETE PAY ITEM; REVISED PAY ITEM NO. 604-03.01; AND REVISED FOOTNOTE 13; REVISED APPLIED TEXTURE FINISH SKETCH.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 2

GENERAL NOTES AND
ESTIMATED QUANTITIES
MEADOW PARK LANE
OVER SOUTH FORK HOLSTON RIVER
STATION 73+40.70
BRIDGE NO. 82-0B350-0.02
BRIDGE I.D. NO. 820B3500001
SULLIVAN COUNTY
2026

U-101-102



1. NO PORTION OF THE PARAPET SHALL BE POURED UNTIL THE ENTIRE DECK SLAB IS IN PLACE.
2. ANCHOR BOLT ASSEMBLIES AT PIERS SHALL BE IN ACCORDANCE WITH STANDARD DRAWING STD-6-1.
3. WHEN POURING SLAB, PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR PARAPET. THE PARAPET SHALL NOT BE POURED UNTIL THE SLAB IS POURED AND CURED. ALSO, SEE STD 11-2 AND STD 11-3.
4. THE SUPPORT DIAPHRAGMS AT THE PIERS SHALL BE FORMED AND THE BOTTOM 15 INCHES POURED AS SOON AS POSSIBLE AFTER THE BEAMS HAVE BEEN SET. THE REMAINDER OF THE DIAPHRAGM SHALL BE POURED CONCURRENTLY WITH THE DECK SLAB. ALL DIAPHRAGM CONCRETE SHALL BE INCLUDED IN THE QUANTITY FOR CLASS DS CONCRETE.
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 STRONGLY RECOMMENDED THAT THE TEMPORARY ERECTION DIAPHRAGMS BE INSTALLED AND THE PERMANENT INTERMEDIATE DIAPHRAGMS BE POURED AND CURED PRIOR TO PLACING ANY LOADS ON THE GIRDERS. HOWEVER, TEMPORARY ERECTION DIAPHRAGMS MUST BE IN PLACE IN THE SPAN AT THE TIME THE SLAB IS POURED IN SAID SPAN.
6. OUTSIDE EDGE OF SLAB AND PARAPET TO CONFORM TO HORIZONTAL CURVE.
7. REFER TO ELECTRIC UTILITY RELOCATION SHEET U5-14 AND U5-15 FOR THE UTILITY HANGER DETAILS. UTILITY HANGER ANCHOR SYSTEM SHALL BE DESIGN FOR A DESIGN CAPACITY OF 800 LBS MIN.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE ALIGNMENT, THE PLACEMENT AND INSTALLATION OF THE UTILITY CONDUIT SYSTEM, INCLUDING THE UTILITY HANGERS. ALSO, THE CONTRACTOR SHALL SUBMIT UTILITY ATTACHMENT SYSTEM WITH CALCULATIONS FOR REVIEW AND APPROVAL BEFORE ANY INSTALLATIONS.

1



(LOOKING FORWARD ON SURVEY) (N.T.S.)

- DETAIL "A"
(N.T.S.)



DETAIL "B"
(N.T.S.)



U-101-105

9/24/2026 5:38:58 PM F:\3774302\BRIDGE\BRIDGE\3774302\04 CAD\TRNS\BRIDGE\3774302\BRIDGE02 FINAL.DGN - BRIDGE 2 - FINAL\3774302 B2 05 SUPERSTRUCTURE TYPICAL SECTION\12.DGN