



SHELBY COUNTY
HIGHWAY DEPARTMENT
506 HIGHWAY 70
COLUMBIANA, ALABAMA 35051
(205) 669-3880
www.ShelbyAL.com

February 3, 2026

PROJECT NO. SCP 59-959-24
ADDENDUM NO. 2

TO: Prospective Bidders
FROM: Mark Endfinger, P.E.
Chief Engineer

Revised Sheets

Revised plan sheets 1A and 60-64 are attached. Please review the revisions.

Questions and Clarifications

Q1 – Can equivalent precast bridge elements be allowed for the specified Conecuh precast concrete elements in the plans?

A1 – Equivalent elements will be allowed per special note 9 on REVISED sheet 60 and note 5 on REVISED sheet 61.

Q2 – Should the bottom 3 #4 bars in the rail block typical section on Sheet 64 be 3 #7 bars?

A2 – The typical for the precast rail block has been redesigned. Please see the revised typical on REVISED sheet 64 for the new design and reinforcement detail. The keyway for this block has been removed.

Q3 – Sheet 60 Note 7 and Sheet 63 Note 8 are in conflict regarding the payment for the rail block construction

A3 – The note from Sheet 63 note 8 has been REMOVED on REVISED sheet 63. The bill of reinforcement and estimated and concrete quantities have been adjusted and will be paid according to REVISED Sheet 60 Note 7.

Q4 – What components are subsidiary or provided with the bridge precast components?

A4 – The components provided by Conecuh or subsidiary to the equivalent precast components are:

- A. All precast components
- B. Leg bolts
- C. Barrier rail bolts and plate washers
- D. Panel bolts
- E. Elastomeric pads
- F. Reflex rubber (between decks at span joints)
- G. Wire rope assemblies

Q5 – Will a joint armor be required on the Bridge End Slab and is there a joint between the BES and the PC-40's

A5 – The drawing, PCA-2840-AS LRFD, does not show an armor joint on the approach slab. The drawing also denotes a ¼" preformed expansion joint filler, AASHTO M-213 or equal. Seal Joint in accordance with ASTM D 5893-96.

Q6 – It appears that the mounting for the rail to the rail block may be in conflict with the abutment or caps.

A6 – See REVISED sheet 62. A note has been added to allow the posts to be adjusted in order to avoid bearing issues.

Q7 – What is the plan for keeping the gravel drives at left stations 102+90 and 104+90 open?

A7 – Upon further investigation, we believe that the drive at left station 102+90 can be closed during construction. There is an alternate access utilizing Meadow Lake Lane off of CR 47. The drive at left station 104+90 will need to remain open.

Miscellaneous:

- Note the changes to the W-BEAM RAILS 2-5 on REVISED sheet 63.
- Note the following on REVISED sheet 60:
"7" RISER BLOCK AND STEP SHOWN IN ASSOCIATED CONECUH PRECAST STANDARD DRAWINGS ARE TO BE OMITTED FROM PRECAST UNITS. INTENT IS FOR CUSTOM PRECAST RAIL BLOCK UNIT TO REST ATOP OF PRECAST SUBSTRUCTURE UNIT ON ½" TYPE 1 (60 DURO HARDNESS) ELASTOMERIC BEARING PADS"

Environmental Commitments

Tree Clearing –Shelby County is mobilizing on 2/4/2026 to clear trees that may be in conflict with the project. This clearing may alleviate the requirements set forth in note 901 on sheet 2A concerning endangered bats.

Utilities

AT&T – According to AT&T, Star has been lined up to trim the trees around the left station utility lines over the creek. We are in early conversation to remove or relocate the overhead lines.

Alabama Power – APC has been contacted about the power line crossing at 105+12. A meeting about this potential conflict is pending.

Water – the service line crossings at approximate station 104+70 appear to be in conflict with the piling for the abutment wall anchors. These will be relocated as necessary by Shelby County.

END OF ADDENDUM NO. 2

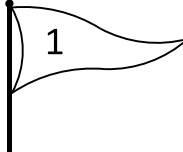
INDEX TO SHEETS AND INDEX TO SPECIAL AND STANDARD DRAWINGS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-959-24	2026	1A

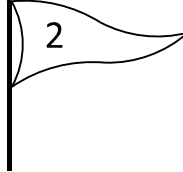
THE FOLLOWING ARE SPECIAL AND STANDARD DRAWINGS CONTAINED IN THE ALABAMA DEPARTMENT OF TRANSPORTATION SPECIAL & STANDARD HIGHWAY DRAWING BOOK (U.S. CUSTOMARY UNITS OF MEASUREMENT) DATED 2026, WHICH APPLY TO THIS PROJECT.

SHEET NO	DESCRIPTION
1	TITLE SHEET
1A	INDEX TO SHEETS AND INDEX TO SPECIAL AND STANDARD DRAWINGS
1B	PLANS LEGEND SHEET
1C	PLANS ABBREVIATIONS SHEET
1D	PRIMARY SURVEY CONTROL & GEOMETRIC LAYOUT SHEET
2	TYPICAL SECTIONS
2A	PROJECT NOTES
2B	TRAFFIC CONTROL PLAN NOTES
3	SUMMARY OF QUANTITIES
4	PLAN AND PROFILE SHEET
5 - 9	OMIT
10	PAVING, SIGNING, AND STRIPING LAYOUT SHEET
11 - 19	OMIT
20	UTILITY PLAN SHEET
21 - 39	OMIT
40	TEMPORARY TRAFFIC CONTROL PLAN - SEQUENCE OF CONSTRUCTION
41	TEMPORARY TRAFFIC CONTROL PLAN - DETOUR
42 - 43	TEMPORARY TRAFFIC CONTROL PLAN - DETAILS
44 - 49	OMIT
50	EROSION AND SEDIMENT CONTROL LEGEND
51	EROSION AND SEDIMENT CONTROL - INITIAL PHASE
52	EROSION AND SEDIMENT CONTROL - INTERMEDIATE PHASE
53	EROSION AND SEDIMENT CONTROL - FINAL PHASE
54 - 59	OMIT
60	ESTIMATED QUANTITIES AND GENERAL NOTES
61	PLAN & ELEVATION
62 - 63	SPECIAL RAIL DETAILS
64	MISC. BRIDGE DETAILS
65 - 68	BRIDGE SPECIAL PROJECT DRAWINGS
69 - 89	OMIT
90 - 94	CROSS SECTIONS
95 - 99	OMIT
100	EARTHWORK SUMMARY

INDEX NUMBER	SPECIAL OR STANDARD DRAWING NUMBER	DESCRIPTION
63001	GR-630-S (SHEET 1 OF 3)	GALVANIZED STEEL BEAM GUARDRAIL WITH BLOCKED OUT TREATED TIMBER OR GALVANIZED STEEL POSTS (DELINEATORS/REFLECTORS FOR GUARDRAIL OR CONCRETE BARRIER RAIL)
63002	GR-630-S (SHEET 2 OF 3)	(MASH) GUARDRAIL HEIGHT TRANSITION DETAIL
63003	GR-630-S (SHEET 3 OF 3)	GALVANIZED STEEL BEAM GUARDRAIL WITH BLOCKED OUT TREATED TIMBER OR GALVANIZED STEEL POSTS
63006	GR-630-FD (SHEET 1 OF 2)	FLARE DETAIL AND WARRANTY CRITERIA FOR BEAM GUARDRAIL
63007	GR-630-FD (SHEET 2 OF 2)	FLARE DETAIL AND WARRANTY CRITERIA FOR BEAM GUARDRAIL & GUARDRAIL AT RADIUS
63050	GA-630-20 (SHEET 1 OF 4)	DETAILS OF GUARDRAIL END ANCHOR - TYPE 20 SERIES (MASH)(TL-3) (SOFTSTOP)
63051	GA-630-20 (SHEET 2 OF 4)	DETAILS OF GUARDRAIL END ANCHOR - TYPE 20 SERIES (MASH) (TL-3) (MSKT)
63052	GA-630-20 (SHEET 3 OF 4)	DETAILS OF GUARDRAIL END ANCHOR - TYPE 20 SERIES (MASH) (TL-3) (MAX-TENSION)
63053	GA-630-20 (SHEET 4 OF 4)	DETAILS OF SINGLE GUARDRAIL TERMINAL - TYPE 20 SERIES SGET (MASH) (TL-3)
66501	ESC-100-1	BEST MANAGEMENT PRACTICE REFERENCE MATRIX
66502	ESC-100-2	BEST MANAGEMENT PRACTICE REFERENCE MATRIX
66505	ESC-200-1	TYPICAL TEMPORARY EROSION / SEDIMENT CONTROL APPLICATIONS
66506	ESC-200-2	DETAILS OF TEMPORARY SLOPE DRAIN, BERMS, AND ENERGY DISSIPATOR
66507	ESC-200-3	DETAILS OF SEDIMENT BARRIER APPLICATIONS
66508	ESC-200-4	DETAILS OF SILT FENCE INSTALLATION
66509	ESC-200-5	DETAILS OF SEDIMENT RETENTION BARRIER
66512	ESC-300-1	DITCH CHECK STRUCTURE, TYPICAL APPLICATIONS AND DETAILS
66513	ESC-300-2	DETAILS OF HAY BALE DITCH CHECKS
66514	ESC-300-3	DETAILS OF SANDBAG DITCH CHECK
66515	ESC-300-4	DETAILS OF EROSION CONTROL WATTLE DITCH CHECKS
66517	ESC-300-6	DETAILS OF SILT DIKE DITCH CHECKS
66518	ESC-300-7	DETAILS OF ROCK DITCH CHECKS WITH SUMP EXCAVATION
66519	ESC-300-8	DETAILS OF SILT FENCE DITCH CHECKS
66520	ESC-300-9	DETAILS OF WATTLE SLOPE INTERRUPTERS
66522	ESC-400-1	INLET PROTECTION TYPICAL APPLICATIONS AND DETAILS
66523	ESC-400-2	INLET PROTECTION DETAILS FOR COARSE AGGREGATE ON GRADES & SAGS
66524	ESC-400-3	INLET PROTECTION DETAILS OF WATTLES
66525	ESC-400-4	INLET PROTECTION DETAILS OF SILT FENCE
66526	ESC-400-5	INLET PROTECTION DETAILS OF SAND BAGS
66529	ESC-501	FLOATING BASIN BOOM
66532	ESC-502	STABILIZED CONSTRUCTION ENTRANCE
66535	ESC-503	TEMPORARY DEWATERING STRUCTURES
66538	ESC-504	TEMPORARY CULVERT STREAM CROSSING
66541	ESC-505	TEMPORARY STREAM DIVERSION
66544	ESC-506-1	SUSPENDED PIPE DIVERSION (DOWNSTREAM)
66545	ESC-506-2	SUSPENDED PIPE DIVERSION (UPSTREAM)
66548	ESC-507	TEMPORARY SEDIMENTATION BASIN
67201	ESC-508	FLOCCULANT USAGE GUIDE
68001	GN-2 NOTES	STANDARD DESIGN NOTES FOR PLAN ASSEMBLIES
68004	TO-107	DETAILS OF INTERSECTIONS AND TURNOUTS
70101	PS-701-6	DETAILS OF TRAFFIC STRIPING FOR 2 LANE HIGHWAYS
71017	IHS-710-12	DETAILS OF ROADWAY SIGN POST (SMALL CHANNEL AND TUBULAR SECTION)
71032	IHS-710-21	DETAILS FOR LOCATION AND MOUNTING STANDARD FLAT PANEL SIGNS ON U-CHANNEL AND TUBULAR POSTS
71035	IHS-710-23	LIGHTWEIGHT STRUCTURAL SIGN SUPPORT INSTALLATIONS
71062	SHS-3	STANDARD HIGHWAY SIGNS
71066	SHS-7	STANDARD HIGHWAY SIGNS
71070	SHS-11	STANDARD HIGHWAY SIGNS
74001	B-107-2	PERFORATED SQUARE STEEL TUBING (PSST) BARRICADES TYPE I, TYPE II, AND TYPE III
		& VERTICAL PANELS TYPE I AND TYPE II
74007	TCD-100	DETAILS FOR TRAFFIC CHANNELIZATION DEVICES

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1

REVISED SHEETS 2A AND 2B
ADE - 01/26/2026
- 

2

REVISED SHEETS 60-64
ADE - 02/02/2026



SHELBY COUNTY
HIGHWAY DEPARTMENT

REVISIONS:

PLAN
SUBMITTAL

100%

PLANS PREPARED BY:

BARGE DESIGN SOLUTIONS

SHEET TITLE

INDEX TO SHEETS AND INDEX TO
SPECIAL AND STANDARD DRAWINGS

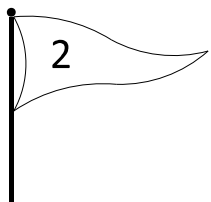
ROUTE

LIBERTY
RD

\$TIMES
\$DATES

ESTIMATED QUANTITIES AND GENERAL NOTES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-959-24	2026	60



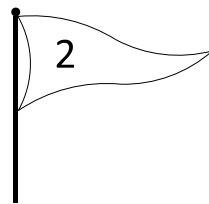
ESTIMATED QUANTITIES

QUANTITY	ITEM NO.	UNIT	DESCRIPTION
1	206A000	LUMP SUM	REMOVAL OF OLD BRIDGE, STATION 103+16.99
164	450B000	SQUARE YARD	REINFORCED CEMENT CONCRETE BRIDGE END SLAB
1	502B000	LUMP SUM	STEEL REINFORCEMENT FOR BRIDGE SUPERSTRUCTURE, APPROXIMATELY 10,050 LB.
24	505G003	EACH	PILE POINTS (TYPE A, 12")
10	505G004	EACH	PILE POINTS (TYPE A, 14")
580	505M002	LINEAR FOOT	STEEL PILING FURNISHED AND DRIVEN (HP12 X 53)
360	505M004	LINEAR FOOT	STEEL PILING FURNISHED AND DRIVEN (HP14 X 73)
2	507A000	EACH	WIRE ROPE ABUTMENT ANCHOR ASSEMBLY
2,169	508A000	POUND	STRUCTURAL STEEL
16	510A007	CUBIC YARD	BRIDGE SUBSTRUCTURE CONCRETE
1	510C051	LUMP SUM	BRIDGE CONCRETE SUPERSTRUCTURE, APPROX. 22.2 C.Y.
2	512A015	EACH	PRECAST CONCRETE ABUTMENT CAPS, 2'-0" WIDE X 1'-4 ⁷ / ₁₆ " DEEP BY 33'-0" LONG (MODIFIED)
2	512B010	EACH	PRECAST CONCRETE INTERMEDIATE BENT CAPS, 2'-0" WIDE BY 1'-9 ¹ / ₁₆ " DEEP BY 31'-6" LONG (MODIFIED)
18	512C017	EACH	PRECAST CONCRETE TYPE 1 SPAN SECTION, 3'-6" BY 2'-0" DEEP BY 39'-11 ³ / ₄ " LONG
6	512C025	EACH	PRECAST CONCRETE TYPE 2C SPAN SECTION, 3'-6" BY 2'-0" DEEP BY 39'-11 ³ / ₄ " LONG
8	512E014	EACH	PRECAST CONCRETE ABUTMENT PANELS, TYPE A3, 7'-4" LONG
8	512E016	EACH	PRECAST CONCRETE ABUTMENT PANELS, TYPE A4, 7'-4" LONG
4	512F002	EACH	PRECAST CONCRETE WING PANELS, TYPE W3
4	512F003	EACH	PRECAST CONCRETE WING PANELS, TYPE W4
4	512G000	EACH	PRECAST CONCRETE ABUTMENT WING CAP PANELS
1	630A100	LUMP SUM	STEEL BEAM GUARD RAIL (SPECIAL)

- DENOTES: 250'-0" W-BEAM, 78 - POSTS, 78 - ⁵/₁₆"x2.5" HEX BOLT, 78 - ¹/₂"x1.25" HEX HEAD, 78 - ¹/₈"x1³/₄"x1³/₄" PLATE , 78 - BASE PLATES, 78 - WASHER PLATES, 626 - ⁵/₈"x1¹/₄" BUTTON HEAD, 78 - BACKER PLATES, 312 - ⁵/₈" HEAVY HEX HEAD ANCHORS. BRIDGE RAIL WILL ATTACH TO THE FULLY ANCHORED ROADWAY GUARDRAIL AND TERMINALS AT OUTSIDE THE BRIDGE LIMITS AT EACH END OF THE RAIL AT THE END OF THE 25'-0" W-BEAM AND AT EACH END OF THE BRIDGE.
- DENOTES: AASHTO CLASS A; 28 DAY STRENGTH 5000 PSI.; USED FOR RAIL BLOCK ONLY.
- DENOTES: AASHTO CLASS A; 28 DAY STRENGTH 3000 PSI; USED FOR PILE ENCASEMENT ONLY.
- DENOTES: ITEM INCLUDES COST OF STRUCTURAL STEEL AND LABOR REQUIRED TO CONSTRUCT SWAYBRACING PER REQUIREMENTS SHOWN IN CONECUH STANDARD DRAWING PCB-2840 LFRD. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD-VERIFYING HEIGHT OF STRUCTURE AND SWAYBRACING REQUIREMENTS PER AFOREMENTIONED DRAWINGS PRIOR TO ORDERING MATERIALS.
- DENOTES:** 7" RISER BLOCK AND STEP SHOWN IN ASSOCIATED CONECUH PRECAST STANDARD DRAWINGS ARE TO BE OMITTED FROM PRECAST UNITS. INTENT IS FOR CUSTOM PRECAST RAIL BLOCK UNIT TO REST ATOP OF PRECAST SUBSTRUCTURE UNIT ON ¹/₂" TYPE 1 (60 DURO HARDNESS) ELASTOMERIC BEARING PADS.

SPECIAL NOTES

- 1.) WING PILES SHALL BE DRIVEN TO REFUSAL OR 20', WHICHEVER IS LESS. THE MINIMUM PENETRATION FOR WING PILES SHALL NOT BE LESS THAN 10 FEET INTO NATURAL GROUND. ALL OTHER STEEL PILES SHALL BE DRIVEN TO REFUSAL.
- 2.) PILE ENCASEMENTS SHALL EXTEND A MINIMUM OF 3 FEET BELOW BOTTOM OF RIPRAP.
- 3.) NO SUBSTITUTIONS OF ALTERNATE SPAN ARRANGEMENTS SHALL BE ALLOWED.
- 4.) ACCESS TO THE FOUNDATION REPORT AND CORE BORINGS CAN BE ARRANGED BY CONTACTING SHELBY COUNTY.
- 5.) FURNISHING OF ALL NECESSARY EQUIPMENT AND CONSTRUCTION OF ALL SHEETING AND SHORING, CRIBS, COFFERDAMS, CAISSONS, DE-WATERING, ETC. WHICH MAY BE NECESSARY FOR THE CONSTRUCTION OF THE PILE ENCASEMENTS SHALL BE A SUBSIDIARY OBLIGATION OF PAY ITEM 510A, BRIDGE SUBSTRUCTURE CONCRETE.
- 6.) SWAYBRACE DETAILS FOR CONECUH PRECAST CONCRETE BENT CAPS NOT SHOWN IN PLANS. DETAILS FOR SWAYBRACE CAN BE FOUND IN CONECUH STANDARD DRAWING PCB-2840 LFRD.
- 7.) CONCRETE AND FABRICATION COSTS FOR PRECAST RAIL BLOCK SHALL BE PAID FOR THROUGH ITEM NO. 510C051, BRIDGE CONCRETE SUPERSTRUCTURE. REINFORCING STEEL FOR PRECAST RAIL BLOCK SHALL BE PAID FOR THROUGH ITEM NO. 502B000, STEEL REINFORCEMENT FOR BRIDGE SUPERSTRUCTURE.
- 8.) ALL MATERIAL, LABOR, AND EQUIPMENT REQUIRED TO INSTALL ADDITIONAL REINFORCING AT THE BEGINNING OF THE BRIDGE END SLABS AS SHOWN IN THE PLANS, SHALL BE INCLUDED IN ITEM NO. 502B000.
- 9.) BRIDGE PLANS DEVELOPED BASED ON CONECUH PRECAST BRIDGE STANDARDS. CONTRACTOR MAY SUBMIT ALTERNATIVE PLANS THAT MEETS/EXCEEDS PROJECT REQUIREMENTS. PAY ITEM LIST, ESTIMATED QUANTITIES, AND ESTIMATED CONSTRUCTION COSTS SHALL ALSO BE SUBMITTED ALONGSIDE ALTERNATIVE DESIGN. IF ADDITIONAL ITEMS ARE NECESSARY FOR ALTERNATE, THOSE ITEMS SHALL BE CONSIDERED SUBSIDIARY TO THE PRECAST PAY ITEMS SHOWN IN THE CURRENT PLANS.



STANDARD BRIDGE NOTES

SEE BRIDGE SPECIAL PROJECT DRAWING SBN-1
ROADWAY: 28'-0" WITH SPECIAL RAIL

1	2022	18
2	9TH, JANUARY 2023, HL-93	20
5	45, 75	28
9	1A	32
10		

REQUIRED

3	SPANS OF 40'-0" CONECUH PRECAST CONCRETE BRIDGE SLAB	BRIDGE SHEET 2 AND CONECUH STANDARD DRAWING PC-40 LFRD
2	CONECUH PRECAST CONCRETE END BENT CAPS ON HP 12x53	BRIDGE SHEET 2 AND CONECUH STANDARD DRAWING PCA-2840-AS LRFD
2	CONECUH PRECAST CONCRETE BENT CAPS ON HP 14x73 W/ SWAYBRACE	BRIDGE SHEET 2 AND CONECUH STANDARD DRAWING PCB-2840 LRFD
	CONECUH CONCRETE ABUTMENT PANS AND ANCHOR ASSEMBLIES	BRIDGE SHEET 2 AND CONECUH STANDARD DRAWING PCP-2800-AS LRFD
	SPECIAL RAIL DETAILS	BRIDGE SHEETS 3 AND 4
	MISC. BRIDGE DETAILS	BRIDGE SHEET 5
	STANDARD BRIDGE NOTES	BRIDGE SPECIAL PROJECT DRAWING SBN-1
	STANDARD BRIDGE DETAILS	BRIDGE SPECIAL PROJECT DRAWING SBD-1
	BRIDGE END SLAB DETAILS	BRIDGE SPECIAL PROJECT DRAWING BES-BP

I CERTIFY THAT COMPLETE REVIEWS OF THE DESIGNER'S CALCULATIONS, CONTRACT STRUCTURAL DRAWINGS, APPLICABLE SPECIFICATIONS, AND SPECIAL PROVISIONS HAVE BEEN MADE BY COMPETENT ENGINEERS OF THIS ORGANIZATION, AND THAT THESE PLANS ARE ACCURATE, COMPLETE, AND SUITABLE FOR LETTING.

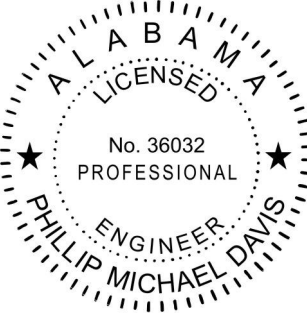
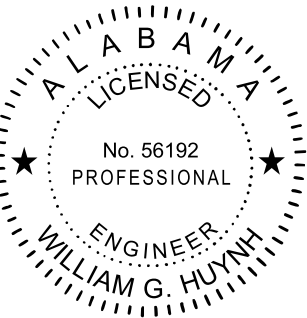
APPROVED: DATE: 02/02/2026
(Engineer of Record's Signature)

REGISTRATION NO.: 56192

APPROVED: DATE: 02/02/2026
(Reviewing Engineer's Signature)

REGISTRATION NO.: 36032

RESPONSIBLE FOR BRIDGE SHEETS NOS. 1 THROUGH 5



THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY SHELBY COUNTY AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE SHELBY COUNTY REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE IF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

BRIDGE SHEETS 1 OF 5



SHELBY COUNTY
HIGHWAY DEPARTMENT

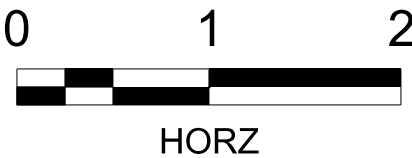
REVISIONS:REVISED E.Q. NOTES; REVISED QUANTITIES; ADDED NOTE.
WGH - 02/02/2026

PLAN
SUBMITTAL

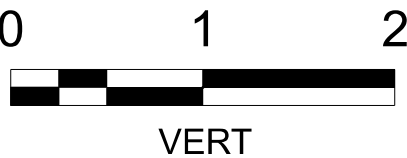
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PLANS PREPARED BY:

BARGE DESIGN SOLUTIONS



SCALE
(FEET)



SHEET TITLE

ESTIMATED QUANTITIES
AND GENERAL NOTES

ROUTE

LIBERTY
RD

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-959-24	2026	61



- 1.) ADDITIONALLY, COST OF REMOVAL AND DISPOSAL OF EXISTING RIP-RAP, SUBSTRUCTURE UNITS, AND PILES THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE INCLUDED IN PAY ITEM 206A000, REMOVAL OF OLD BRIDGE.
- 2.) COST OF LOOSE RIPRAP SHALL BE PAID FOR BY ITEM NO. 610A004.
- 3.) NO SUBSTITUTIONS OF ALTERNATE SPAN ARRANGEMENTS SHALL BE ALLOWED.
- 4.) WING PILES SHALL BE DRIVEN TO REFUSAL OR 20', WHICHEVER IS LESS. THE MINIMUM PENETRATION FOR WING PILES SHALL NOT BE LESS THAN 10 FEET INTO NATURAL GROUND. ALL OTHER STEEL PILES SHALL BE DRIVEN TO REFUSAL.
- 5.) BRIDGE PLANS DEVELOPED BASED ON CONECUH PRECAST BRIDGE STANDARDS. CONTRACTOR MAY SUBMIT ALTERNATIVE PLANS THAT MEETS/EXCEEDS PROJECT REQUIREMENTS FOR BID.

** DENOTES: CONECUH BRIDGE PRECAST CONCRETE ABUTMENT PANELS STD. DWG.
NO. PCP-2800-AS LRFD (TYP.)

LEGEND

 DENOTES: AREA TO BE EXCAVATED (ROADWAY ITEM)

HYDRAULIC DATA

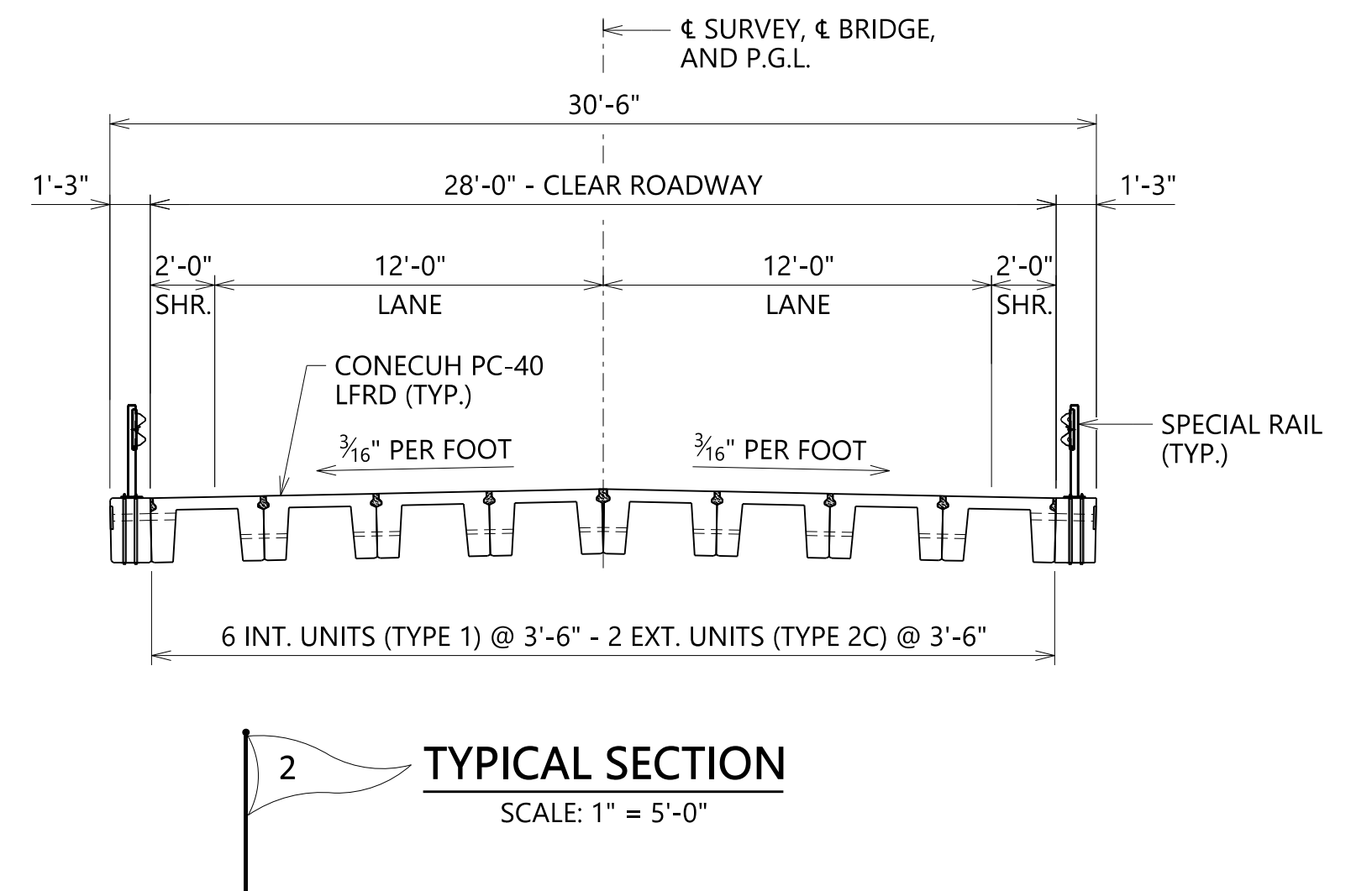
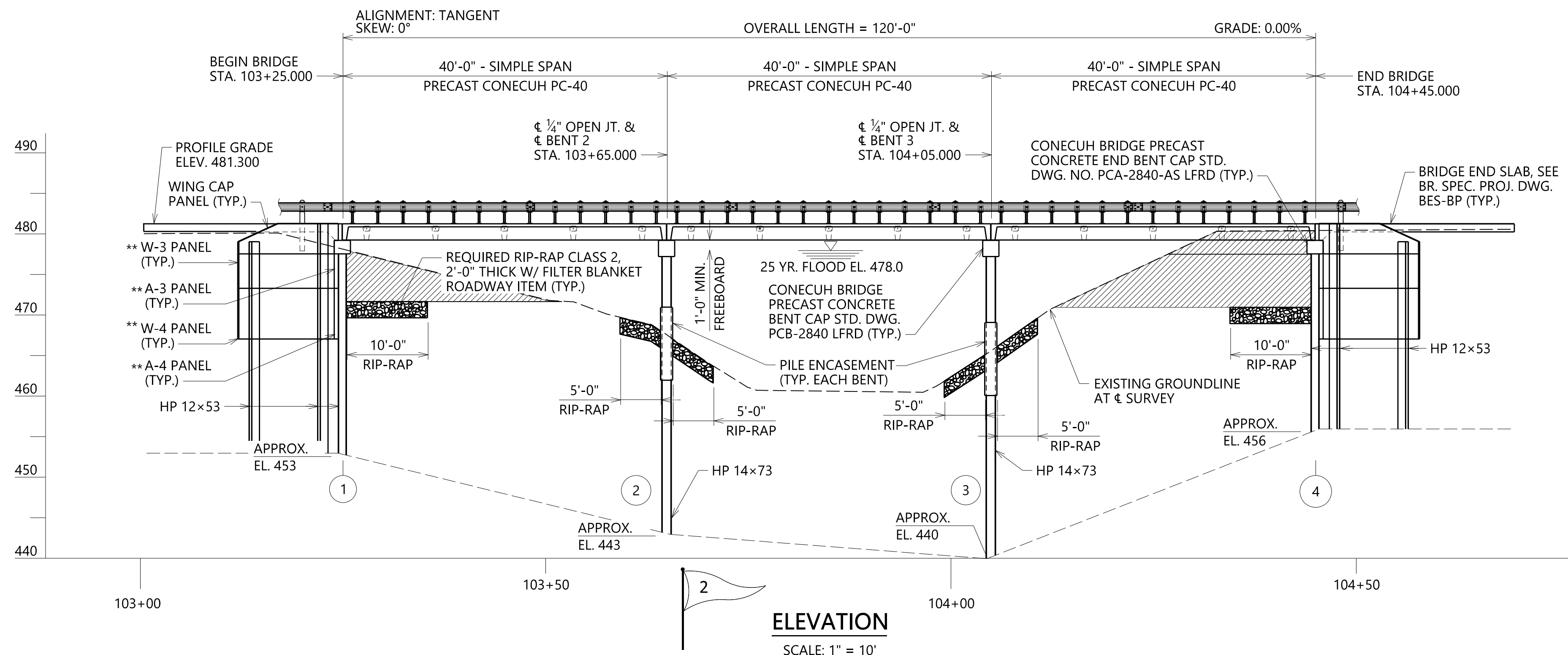
DRAINAGE AREA = 26.2 SQ. MILES

	DISCHARGE (CFS)	STAGE (FEET)
Q2	3,060	471.9
Q5	5,440	475.2
Q10	6,940	476.7
Q25	8,640	478.0
Q50	9,850	479.4
Q100	11,100	480.2
Q200	12,300	481.1
Q500	14,000	482.1

HORIZONTAL CURVE DATA

P.C. STATION = 100+64.775
P.I. STATION = 101+83.436
P.T. STATION = 103+01.713
D = 3°22'13.224"
R = 1700.00
Δ = 7°59'08.168" RT
L = 236.938 FT
T = 118.661 FT

P.C. STATION = 104+52.587
P.I. STATION = 105+89.688
P.T. STATION = 107+26.635
D = 1°43'14.138"
R = 3330.000
Δ = 4°42'54.920" RT
L = 274.048 FT
T = 137.101 FT



BRIDGE SHEETS 2 OF 5



SHELBY COUNTY
HIGHWAY DEPARTMENT

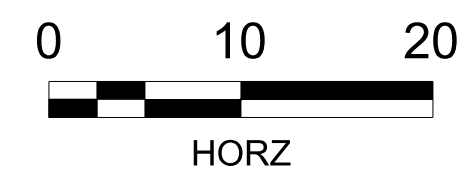
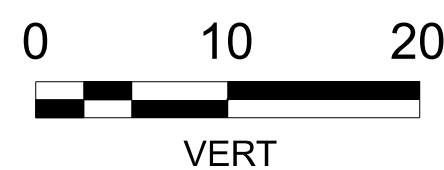
REVISIONS:REVISED RAIL BLOCK DETAILS AND NOTES.
WGH - 02/02/2026

PLAN SUBMITTAL

100%

PLANS PREPARED BY:

BARGE DESIGN SOLUTIONS

SCALE
(FEET)

SHEET TITLE

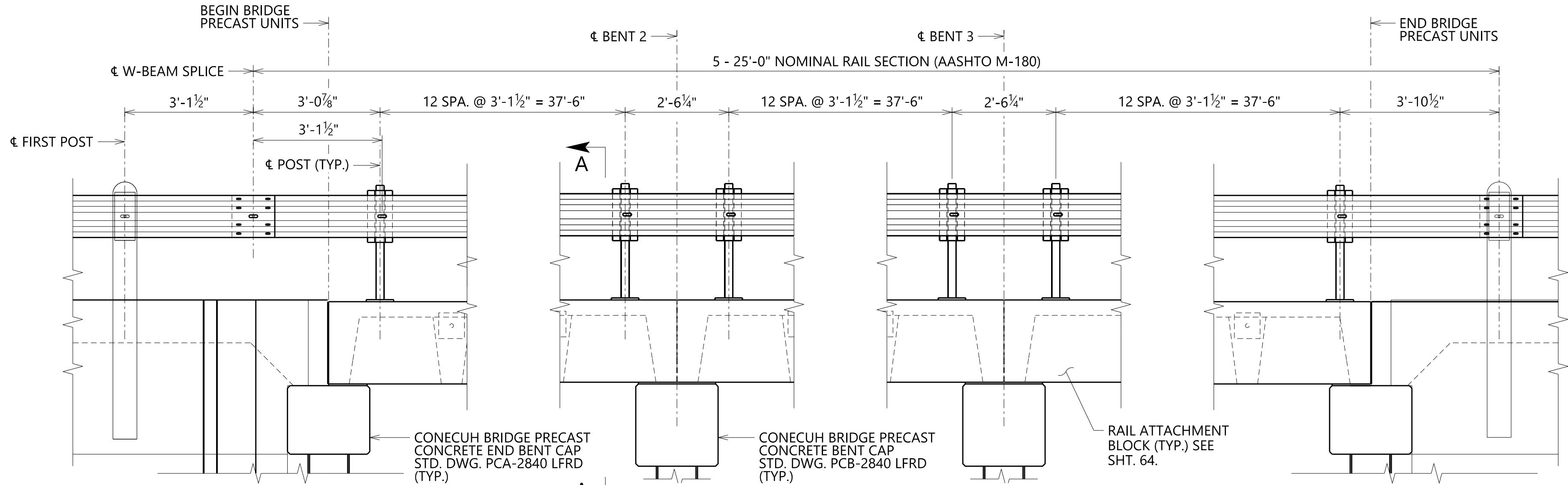
PLAN & ELEVATION

ROUTE
LIBERTY
RD

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SPECIAL RAIL DETAILS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-959-24	2026	62



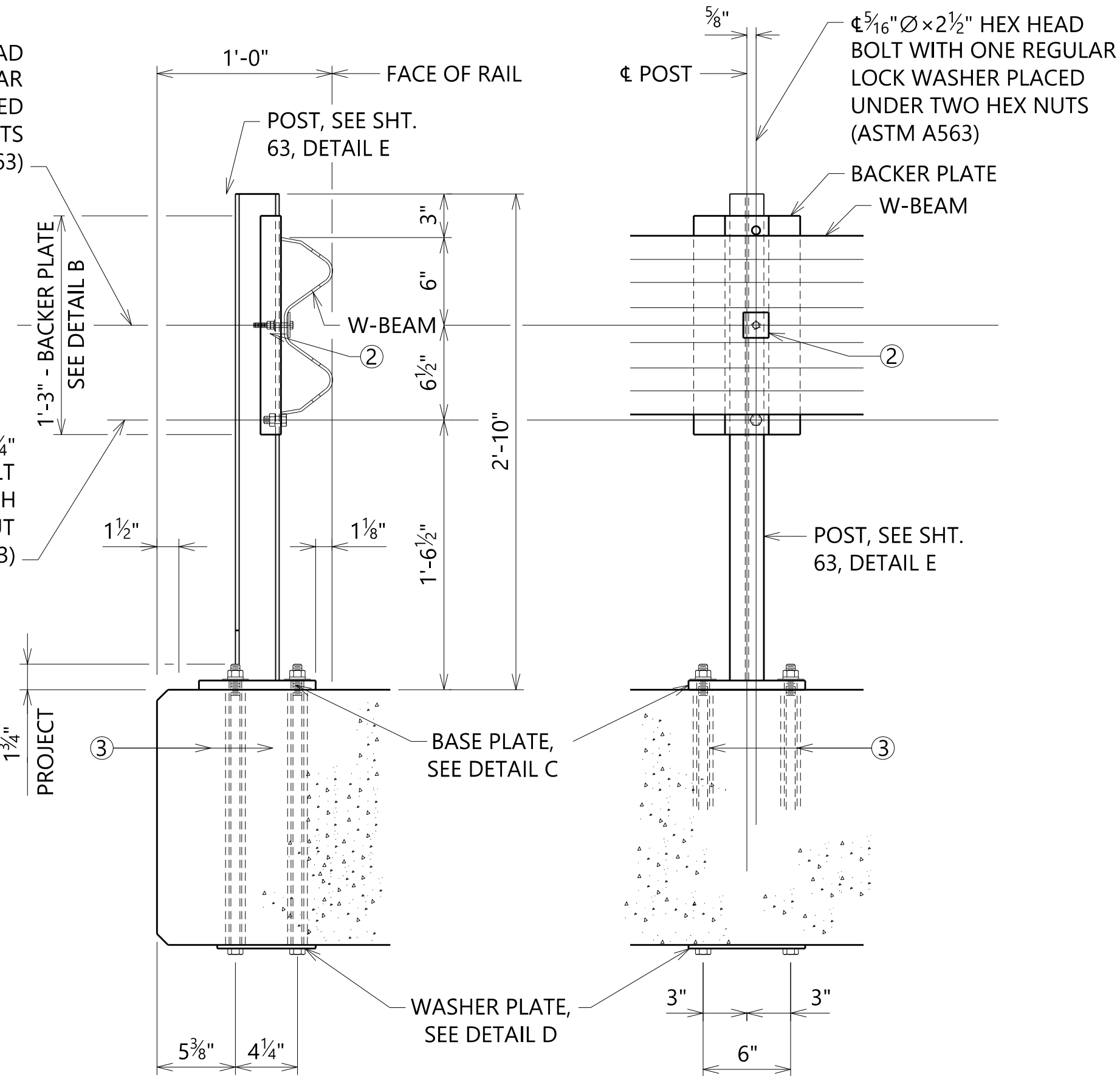
TYPICAL GUARDRAIL ELEVATION

SCALE: 1/2" = 1'-0"

NOTE: IF ADJUSTING OF POST LOCATIONS ARE REQUIRED, MAINTAIN A MINIMUM 9" FROM CL OF POST TO NEAREST EDGE OF JOINT AND A MAXIMUM POST SPACING OF 3'-1 1/2". DRILL NEW 3/4" DIAMETER HOLE AT THE CENTERLINE OF W-BEAM FOR SHIFTED POST. PAINT HOLE WITH TWO COATS OF ZINC-RICH PAINT CONFORMING TO THE ITEM "GALVANIZING". ALL OTHER POSTS MUST REMAIN ON THE SPACINGS AS SHOWN IN PLANS. POSTS MAY BE ADJUSTED TO AVOID BEARING ISSUES.

1 5/16" Ø x 2 1/2" HEX HEAD BOLT WITH ONE REGULAR LOCK WASHER PLACED UNDER TWO HEX NUTS (ASTM A563)

2 1/2" Ø x 1 1/4" HEX HEAD BOLT WITH ONE HEX NUT (ASTM A563)

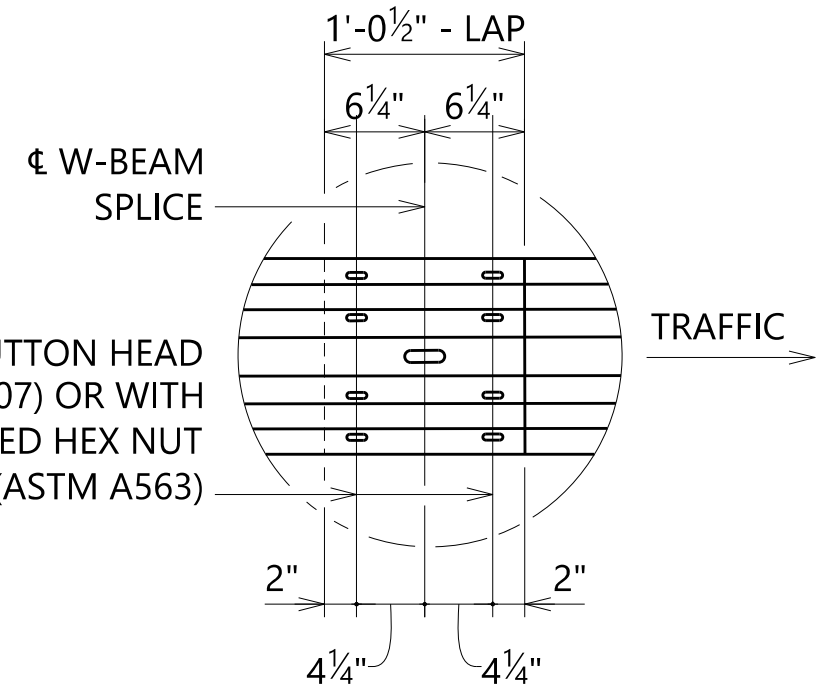


SECTION A-A

SCALE: 1 1/2" = 1'-0"

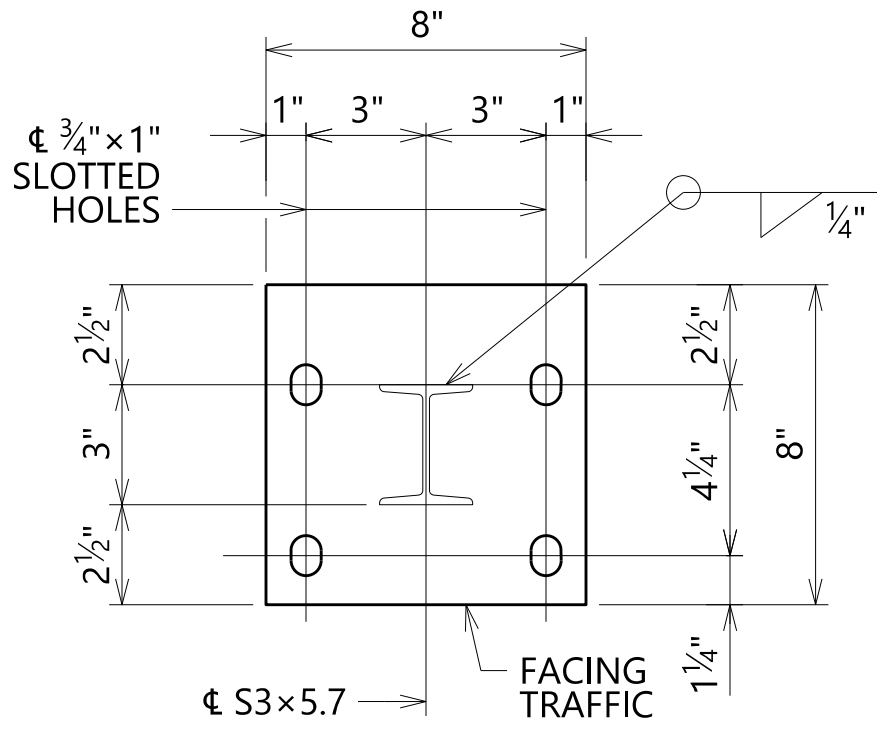
TRAFFIC SIDE RAIL

SCALE: 1 1/2" = 1'-0"



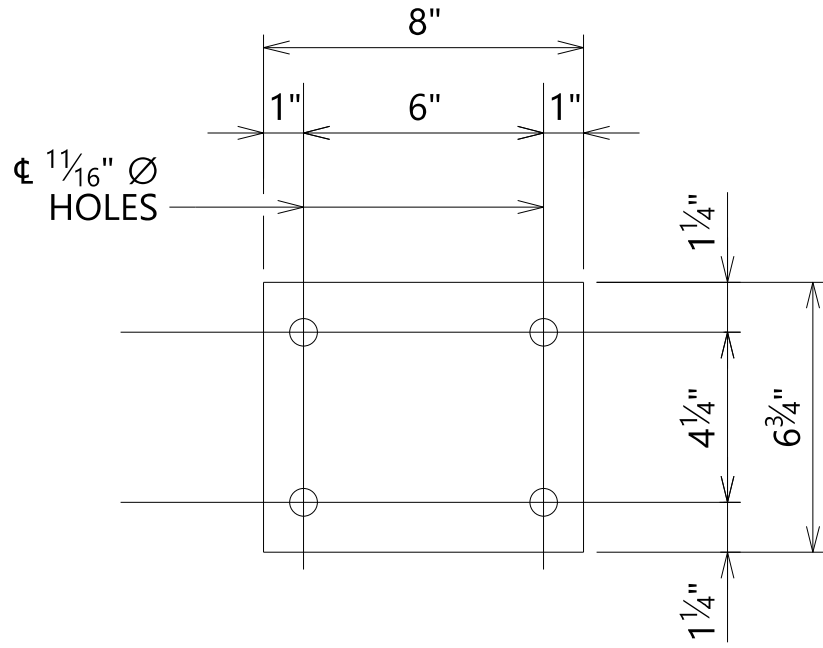
DETAIL A - TYPICAL SPLICE

SCALE: 1/2" = 1'-0"



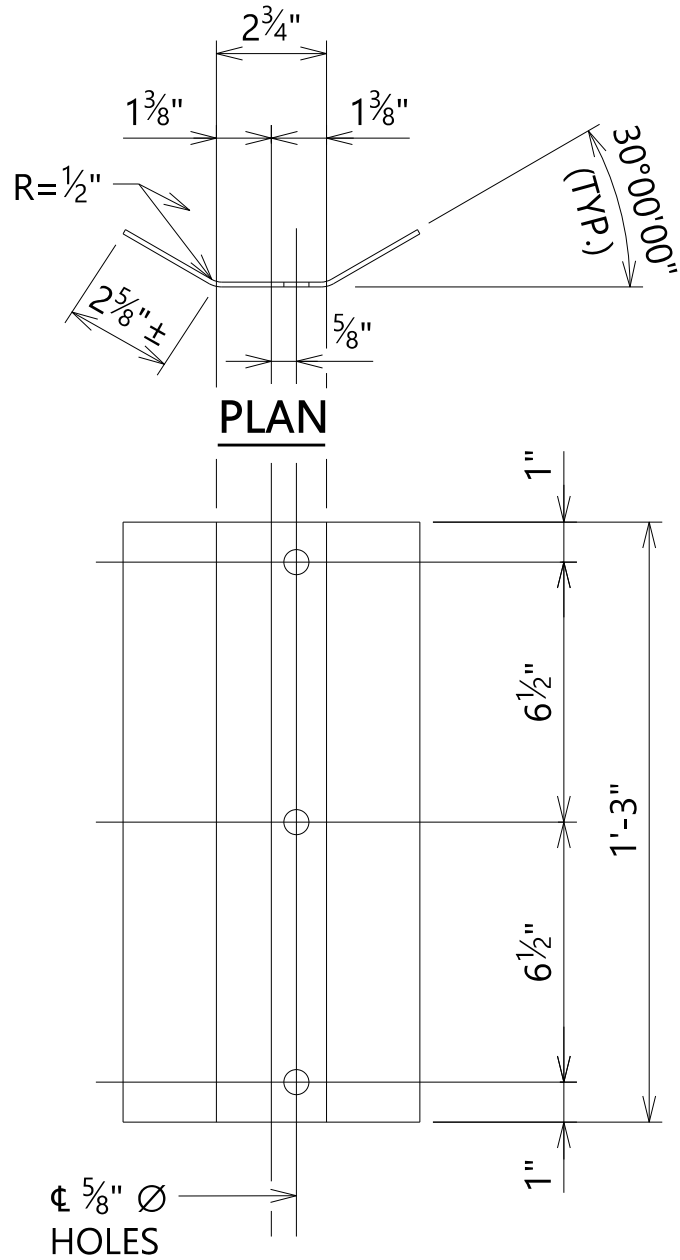
DETAIL C - PLAN: BASE PLATE

(N.T.S.)
(5/8" x 8" x 8" PLATE)
(ASTM A572 GR50)



DETAIL D - PLAN: WASHER PLATE

(N.T.S.)
(1/4" x 6 3/4" x 8" PLATE)
(ASTM A36)



DETAIL B - BACKER PLATE

(N.T.S.)
(1/8" x 8" x 1'-3" PLATE)
(A1008 CS GR 33)

LEGEND

- TIGHTEN THE FIRST HEX NUT BY HAND UNTIL THE TOP AND BOTTOM EDGES OF THE W-BEAM ENGAGE THE BACKER PLATE (BACKER PLATE SHOULD BE SNUG AGAINST THE POST). THEN TIGHTEN HEX NUT ONE REVOLUTION WITH WRENCH AND SECURE WITH THE SECOND HEX NUT.
- 1/8" x 1 3/4" x 1 3/4" PLATE WITH 3/8" Ø HOLE AT CENTER. SQUARE GUARDRAIL WASHER.
- CL 7/8" Ø FORMED HOLES FOR CL 5/8" Ø HEAVY HEX HEAD ANCHOR BOLT (ASTM F3125 GR A325) OR THREADED ROD (ASTM A193 GR B7) WITH ONE HARDENED STEEL WASHER (ASTM F436) AND ONE REGULAR LOCK WASHER PLACED UNDER HEAVY HEX NUT (ASTM A563). ONE ADDITIONAL HEAVY HEX NUT MUST BE FURNISHED AND TACK WELDED FOR EACH THREADED ROD. SEE SHT. 63, DETAIL F FOR BOLT DETAILS.

BRIDGE SHEETS 3 OF 5



SHELBY COUNTY
HIGHWAY DEPARTMENT

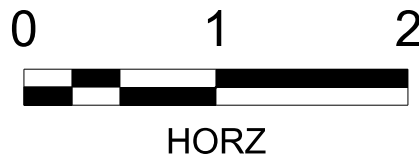
REVISIONS:REVISED POST SPACING.
WGH - 02/02/2026

PLAN
SUBMITTAL

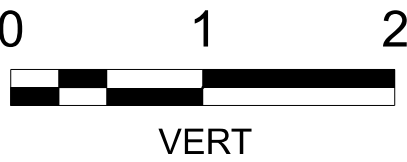
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PLANS PREPARED BY:

BARGE DESIGN SOLUTIONS



SCALE
(FEET)



SHEET TITLE

SPECIAL RAIL DETAILS

ROUTE

LIBERTY
RD

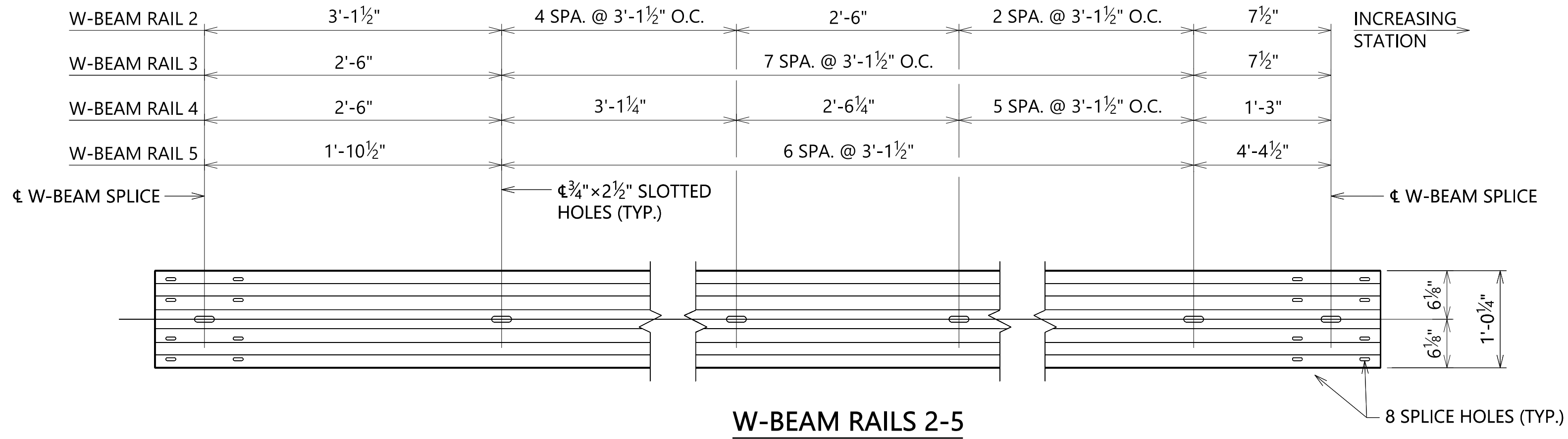
3522208_RAIL DETAILS.dgn

WGHuynh

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2/2/2026

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-959-24	2026	63



Technical drawing of a vertical post detail. The drawing shows a cross-section of a post with various dimensions and hole specifications.

Dimensions:

- Overall height: 2'-10"
- Height from base to top of post: 2'-9 $\frac{3}{8}$ "
- Height from base to first hole: 1'-6 $\frac{1}{2}$ "
- Height from first hole to second hole: 6 $\frac{1}{2}$ "
- Height from second hole to third hole: 4 $\frac{1}{2}$ "
- Height from third hole to fourth hole: 2"
- Height from fourth hole to top of post: 2"
- Base plate thickness: $\frac{5}{8}$ "
- Post diameter: 5 $\frac{1}{8}$ "

Hole Specifications:

- FOR USE WITH FUTURE OVERLAY
- FOR USE WITHOUT OVERLAY
- $\frac{3}{8}$ " \varnothing HOLE (F.F.)
- FOR USE WITH FUTURE OVERLAY
- FOR USE WITHOUT OVERLAY
- $\frac{9}{16}$ " \varnothing HOLE (F.F.)

Other Labels:

- CL POST
- CL POST HOLES
- S3 \times 5.7 (ASTM-A992)
- BASE PLATE, SEE SHT. 62, DETAIL C

1 3/4" MIN.

HEAVY HEX NUT (ASTM A563)

REGULAR LOCK WASHER

HARDENED STEEL WASHER (ASTM F436)

1 3/16" MIN.

1/16" MAX.

5/8" Ø HEAVY HEX HEAD ANCHOR BOLT (ASTM F3125 GR A325)

5/8" Ø THREADED ROD (ASTM A193 GR B7)

HEAVY HEX NUT (ASTM A563)

TACK WELD

THREADED ROD OPTION

NOTES:

1. FACE OF RAIL POST MUST BE PLUMB UNLESS OTHERWISE APPROVED BY THE ENGINEER. POST MUST BE PERPENDICULAR TO ADJACENT ROADWAY GRADE. USE EPOXY MORTAR UNDER POST BASE PLATES IF GAPS LARGER THAN $\frac{1}{16}$ " EXIST.
2. FULLY ANCHORED GUARD RAIL MUST BE ATTACHED TO EACH END OF RAIL.
3. FABRICATOR MUST SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL.
4. ROUND OR CHAMFER EXPOSED EDGES OF RAIL POST AND BACKER PLATE TO APPROXIMATELY $\frac{1}{16}$ " BY GRINDING.
5. REPAIRS TO IMPACT-DAMAGED POST AND BASE PLATE UNIT ARE NOT PERMITTED. REPLACE ALL IMPACT-DAMAGED POSTS WITH A NEW POST AND BASE PLATE UNIT.
6. ALL MATERIALS MUST MEET AASHTO M 180 CRITERIA.
7. GALVANIZE ALL STEEL COMPONENTS ACCORDING TO AASHTO M 111.
8. CONCRETE SHALL CONFORM TO AASHTO CLASS A(AE). MINIMUM 28-DAY COMPRESSIVE STRENGTH SHALL BE 5000 PSI.
9. ALL REINFORCING STEEL SHALL BE GRADE 60 BILLET STEEL MEETING THE REQUIREMENTS OF AASHTO M31. ALL REINFORCING STEEL SHALL BE ACCURATELY LOCATED IN THE FORMS AND PROPER CLEARANCES MAINTAINED WITH STAINLESS STEEL OR RUBBER TIPPED CHAIRS. REINFORCING DIMENSIONS ARE CENTER-TO-CENTER UNLESS OTHERWISE NOTED IN PLANS.

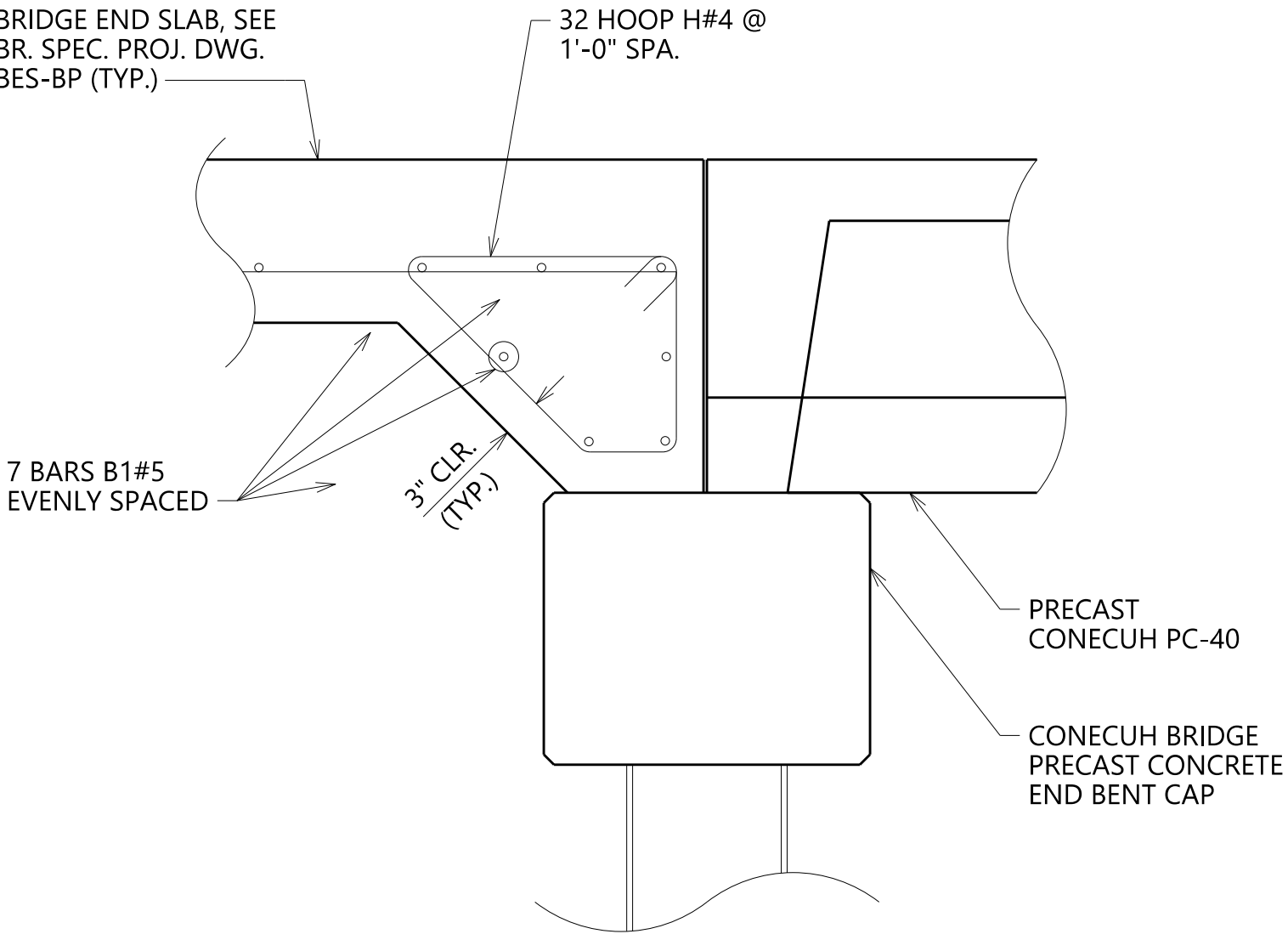
SPECIAL NOTE: THIS RAILING AS SHOWN ON SHEET NOS. 62 THRU 63 FOLLOWS TEXAS DEPARTMENT OF TRANSPORTATION'S (TXDOT) TRAFFIC RAIL TYPE T631. ACCORDING TO TXDOT, THIS RAILING HAS BEEN SUCCESSFULLY EVALUATED BY FULL-SCALE CRASH TESTING TO MEET MASH TL-3 CRITERIA FOR SPEEDS UP TO 50 M.P.H. APPROXIMATE DEFLECTION IS ANTICIPATED TO BE UP TO 4'-6".

SPECIAL NOTE: THIS RAILING AS SHOWN ON SHEET NOS. 62 THRU 63 FOLLOWS TEXAS DEPARTMENT OF TRANSPORTATION'S (TXDOT) TRAFFIC RAIL TYPE T631. ACCORDING TO TXDOT, THIS RAILING HAS BEEN SUCCESSFULLY EVALUATED BY FULL-SCALE CRASH TESTING TO MEET MASH TL-3 CRITERIA FOR SPEEDS UP TO 50 M.P.H. APPROXIMATE DEFLECTION IS ANTICIPATED TO BE UP TO 4'-6".

BRIDGE SHEETS 4 OF 5

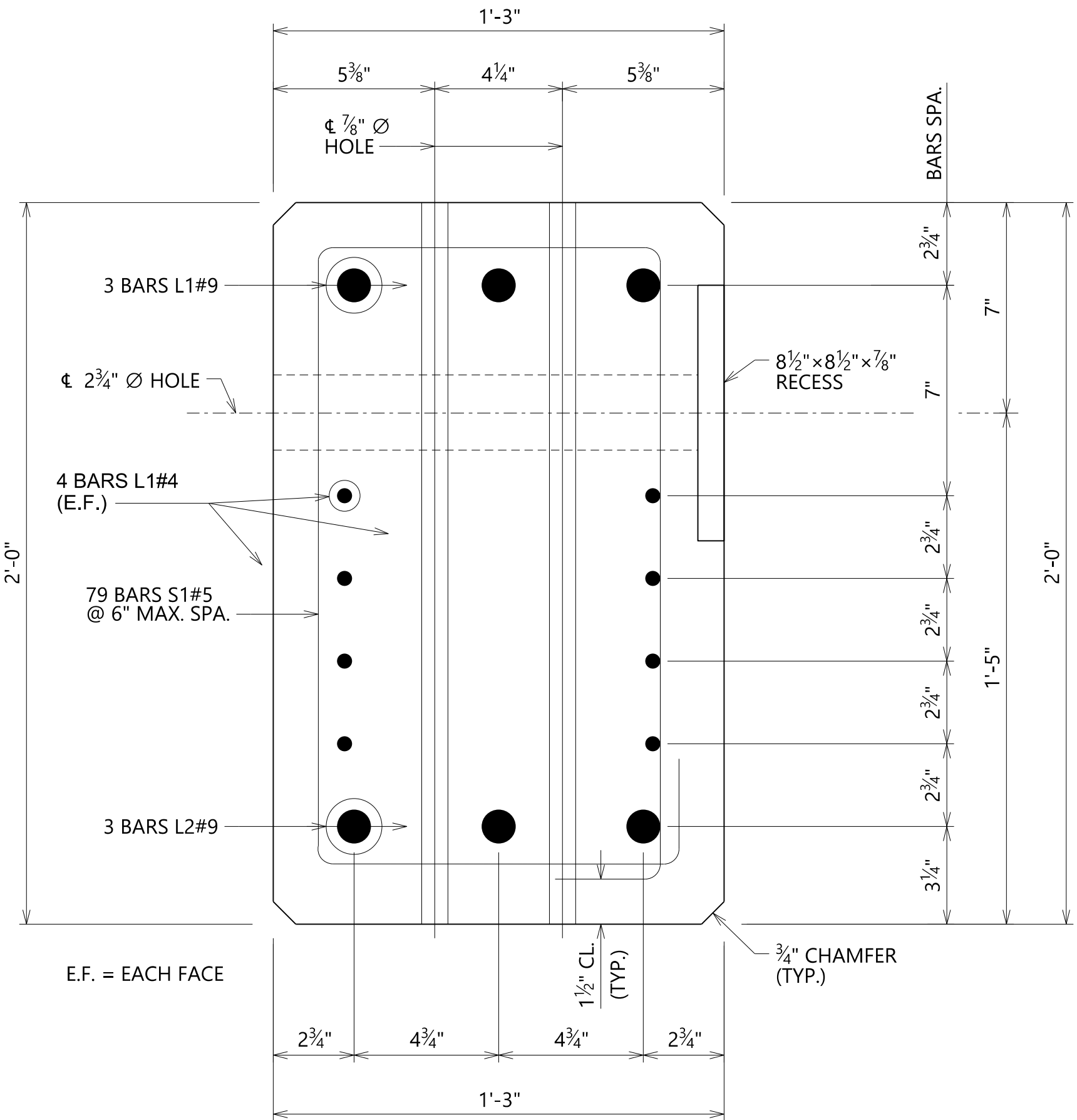
MISC. BRIDGE DETAILS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-959-24	2026	64



TYP. BEGINNING OF B.E.S. REINFORCING DETAIL

SCALE: 1" = 1'-0"
(SEE CONE CUH STD. DWG. PCA-2840 LFRD FOR EMBEDDED ANCHOR DETAILS, BEARING PADS, AND OTHER DETAILS NOT SHOWN.)
(COST OF ADDITIONAL REINFORCING STEEL SHALL BE INCLUDED IN ITEM NO. 450B000, REINFORCED CEMENT CONCRETE BRIDGE END SLAB.)



PRECAST RAIL BLOCK TYPICAL SECTION

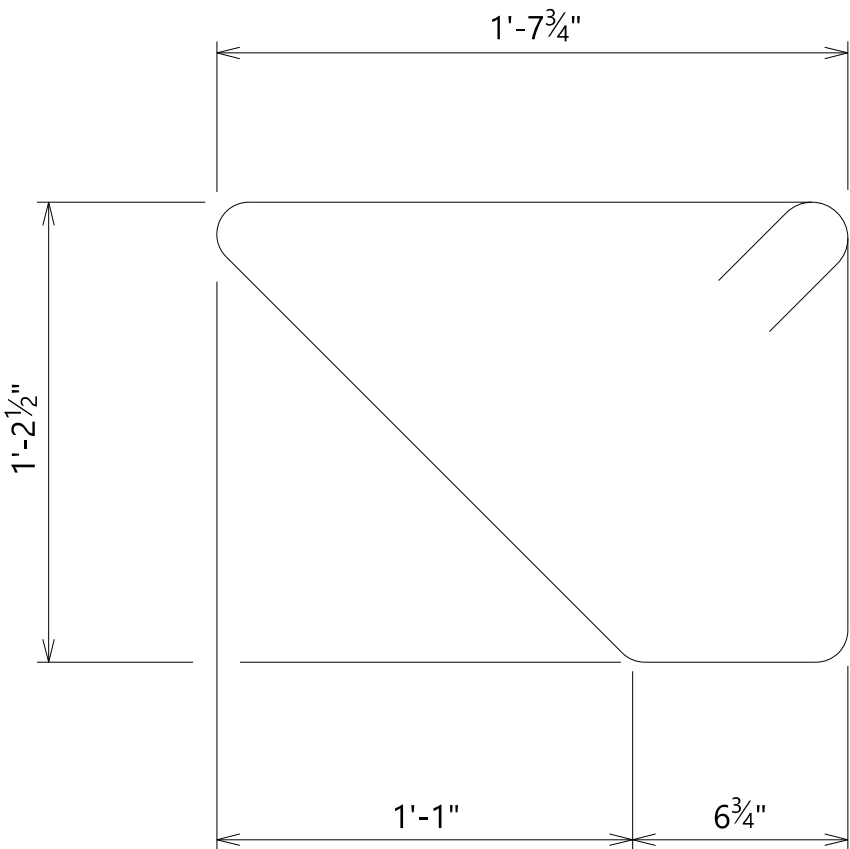
SCALE: 3" = 1'-0"
6 PRECAST RAIL BLOCKS TOTAL; 2 PER CONE CUH PCBR-40 UNIT
SPACING FOR CONNECTION ANCHOR SHALL MATCH SUPERSTRUCTURE PRECAST UNITS

BRIDGE SHEETS 5 OF 5

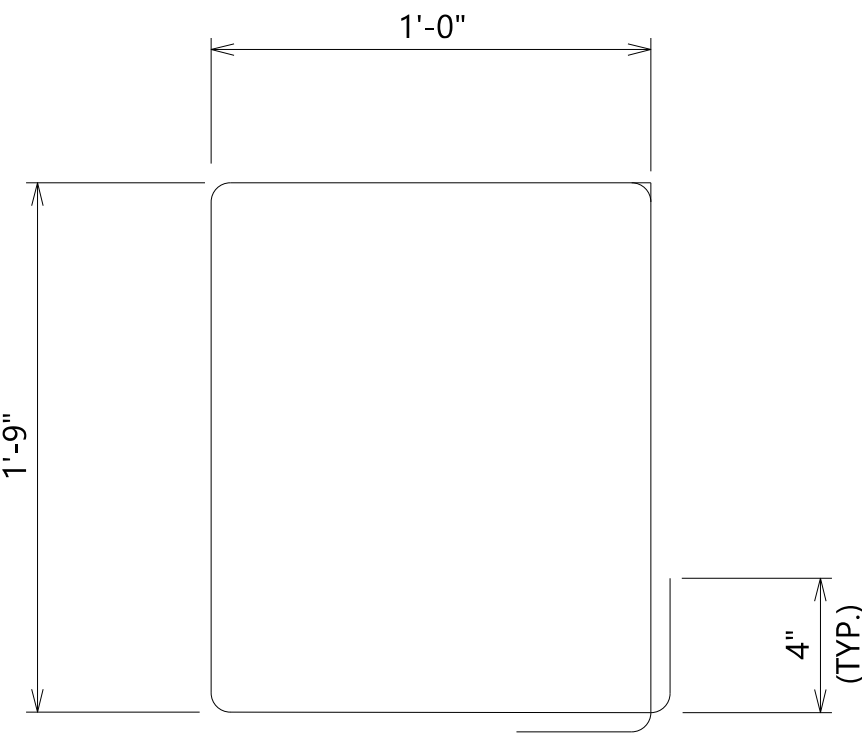
BILL OF REINFORCEMENT					
MARK	SIZE	NUMBER	LENGTH	LOCATION	BENDING
B1	5	14	30'-2"	B.E.S.	STRAIGHT
H	5	64	5'-9½"	B.E.S.	SEE DIAG.
L1	4	48	39'-7½"	RAIL BLOCK	STRAIGHT
L2	9	36	39'-7½"	RAIL BLOCK	STRAIGHT
S1	5	474	6'-6"	RAIL BLOCK	SEE DIAG.

ESTIMATED QUANTITIES			
ITEM NO.	QUANTITY	UNIT	DESCRIPTION
502B	10,050	LB.	STEEL REINFORCEMENT ☉
510C	22.2	C.Y.	SUPERSTRUCTURE CONCRETE △

☉ GRADE 60 △ AASHTO CLASS A; MIN. 28 DAY STRENGTH 5000 PSI; RAIL BLOCK CONCRETE ONLY



HOOP H#4



BARS S1#5



SHELBY COUNTY
HIGHWAY DEPARTMENT

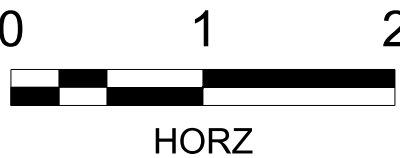
REVISIONS:REVISED RAIL BLOCK TYPICAL SECTION AND ASSOCIATED QUANTITIES; REVISED NOTES.
WGH - 02/02/2026

PLAN
SUBMITTAL

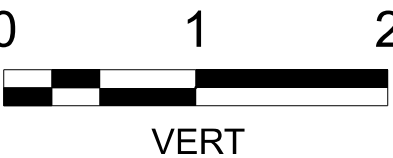
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PLANS PREPARED BY:

BARGE DESIGN SOLUTIONS



SCALE
(FEET)



SHEET TITLE

MISC. BRIDGE DETAILS

ROUTE

LIBERTY
RD