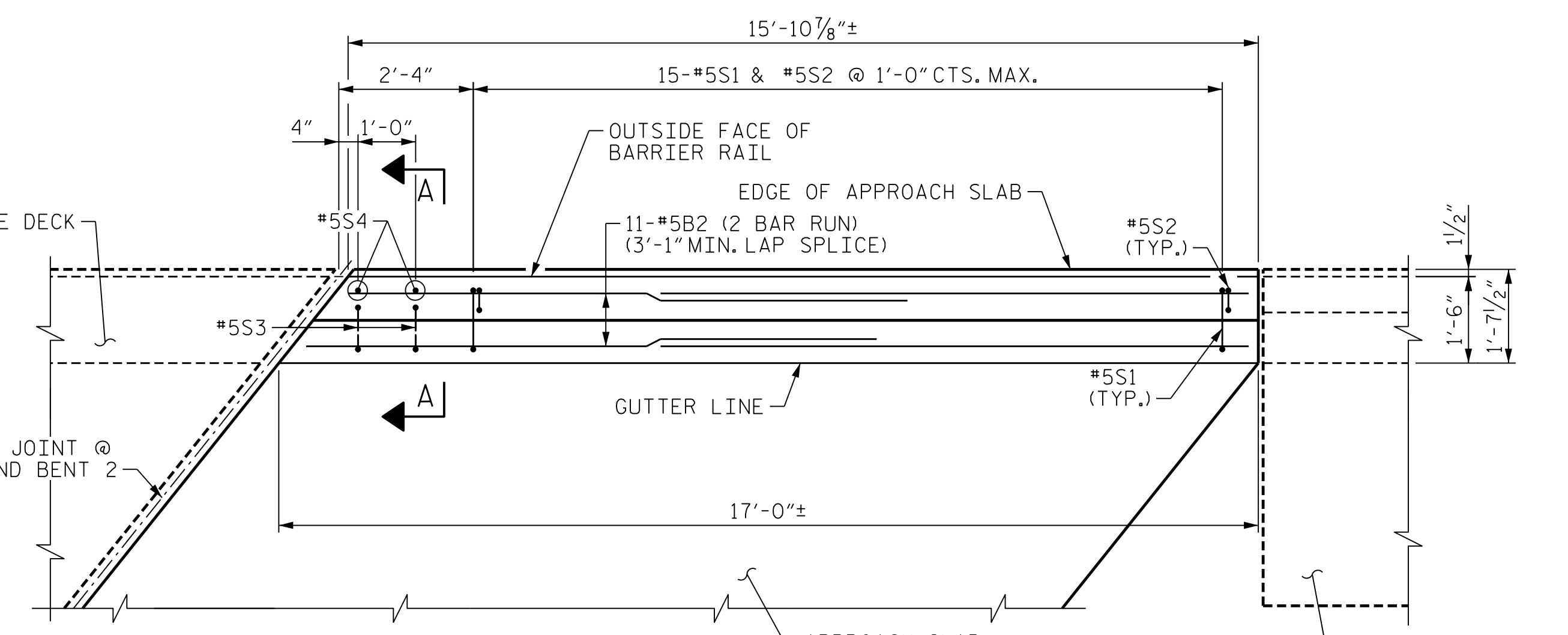
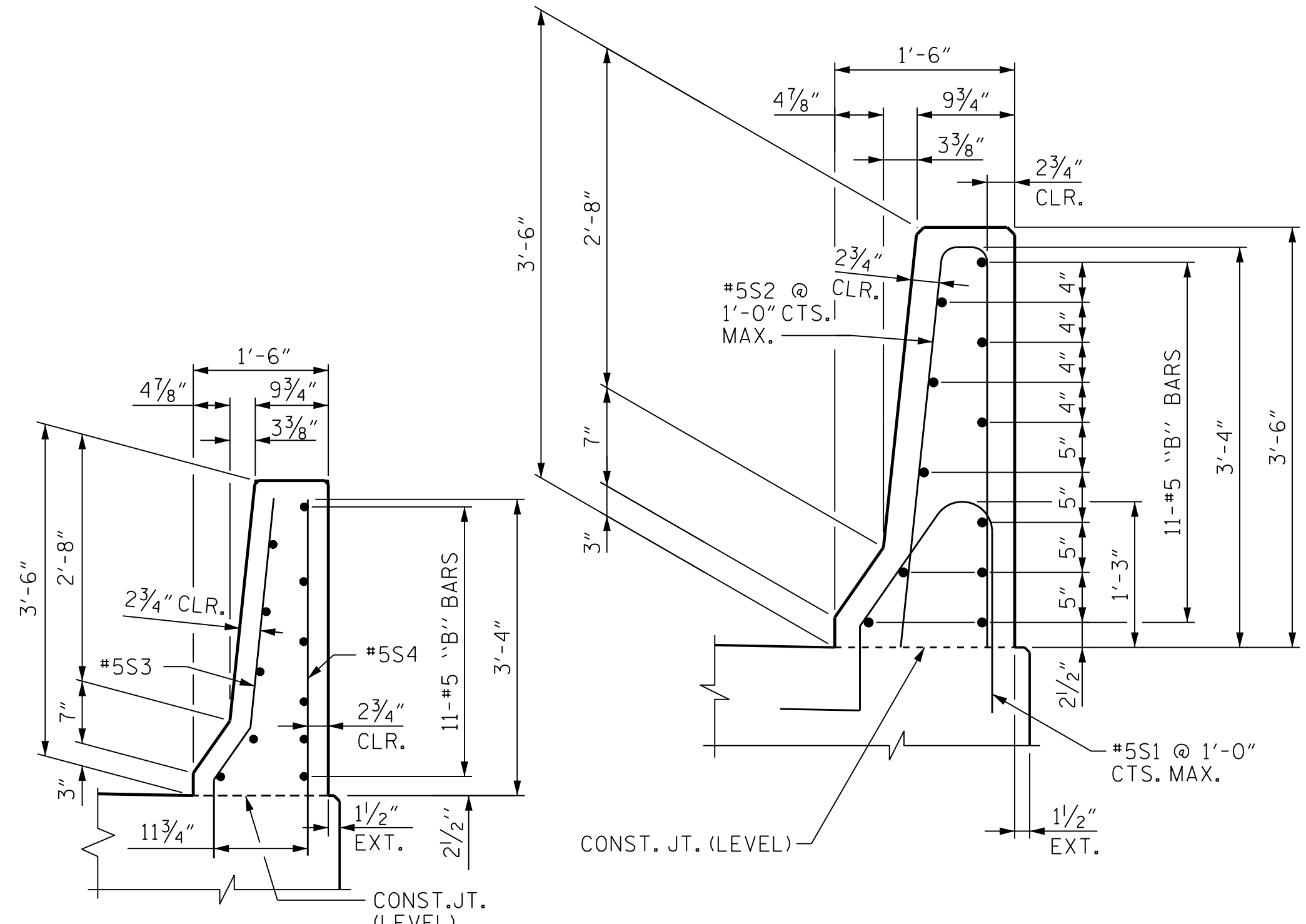


PLAN OF BARRIER RAIL AT END BENT 1



PLAN OF BARRIER RAIL AT END BENT 2



BARRIER RAIL DETAILS

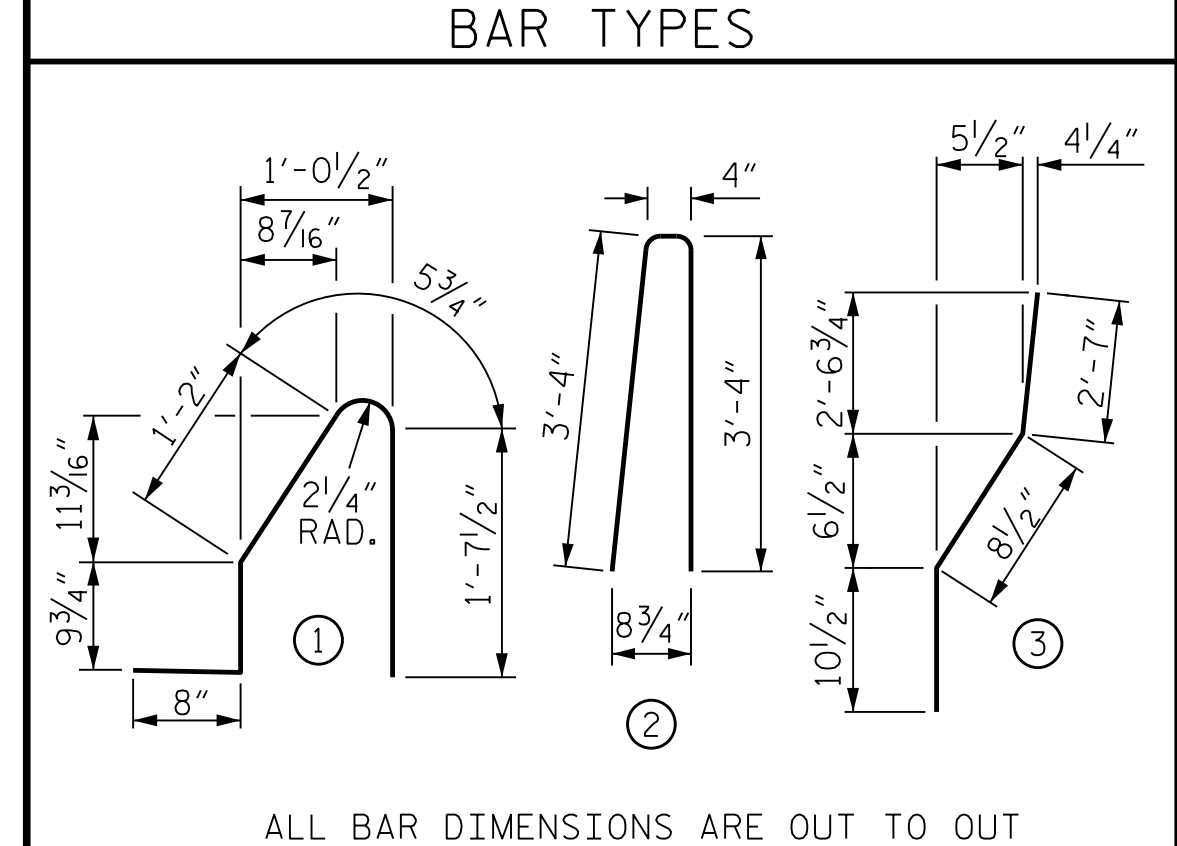
NOTES

- THE BARRIER RAIL ON EACH APPROACH SLAB SHALL NOT BE CAST UNTIL ALL APPROACH SLAB CONCRETE HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
- ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.
- THE #5S3 AND #5S4 BARS SHALL BE INSTALLED, USING AN ADHESIVE ANCHORING SYSTEM, AFTER SAWING THE JOINT. THE YIELD LOAD FOR THE #5S3 AND #5S4 BARS IS 18.6 KIPS. FIELD TESTING FOR THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.
- GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS, THE CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF BARRIER RAIL SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.
- WHEN FOAM JOINT SEAL IS REQUIRED, THE JOINT IN THE APPROACH SLAB SHALL BE SAWED PRIOR TO THE CASTING OF BARRIER RAIL.
- THE COST OF THE BARRIER RAIL ON THE APPROACH SLAB SHALL BE INCLUDED IN THE LINEAR FOOT CONTRACT PRICE BID FOR "CONCRETE BARRIER RAIL".

BILL OF MATERIAL					
BARRIER RAIL AT END BENT 1					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	22	#5	STR	12'-0"	276
* S1	17	#5	1	4'-9"	85
* S2	17	#5	2	7'-0"	125
* S3	4	#5	3	4'-2"	18
* S4	4	#5	STR	4'-0"	17
* EPOXY COATED REINFORCING STEEL					LBS. 521
CLASS AA CONCRETE					C. Y. 2.9
CONCRETE BARRIER RAIL					20.3 LIN. FT.

BARRIER RAIL AT END BENT 2					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B2	22	#5	STR	9'-11"	228
* S1	15	#5	1	4'-9"	75
* S2	15	#5	2	7'-0"	110
* S3	2	#5	3	4'-2"	9
* S4	2	#5	STR	4'-0"	9
* EPOXY COATED REINFORCING STEEL					LBS. 531
CLASS AA CONCRETE					C. Y. 2.4
CONCRETE BARRIER RAIL					17.0 LIN. FT.

BAR TYPES					
-----------	--	--	--	--	--



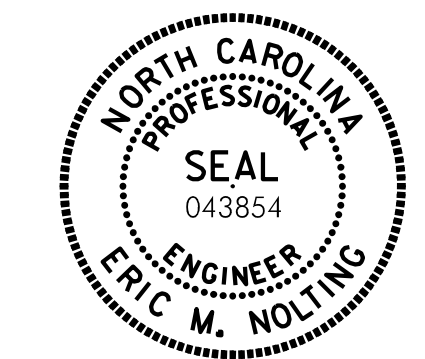
ALL BAR DIMENSIONS ARE OUT TO OUT

PROJECT NO. B-3186/B-5898
HAYWOOD COUNTY
 STATION: 68+82.30 ± -L-LT-

SHEET 2 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**BRIDGE APPROACH
 SLAB DETAILS**



Eric Nolting 1/24/2022

REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1	--	--	3	--	--
2	--	--	4	--	--

SHEET NO. SO3L-35
 TOTAL SHEETS 44



HDR Engineering, Inc. of the Carolinas
 555 Fayetteville St., Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

PLOT DRIVER: NCDOT_STRUCTURES_DEFAULT_PLOTTER.plt
 USER: PPRETORSO DATE: 1/24/2022 TIME: 2:24:09 PM
 FILE: ... \403.170.B5898B3186.SMU.AS.035.430110.dgn

DES BY: <u>S. RAVINDRAN</u>	DATE: <u>06/21</u>	DWG BY: <u>M. SELLS</u>	DATE: <u>06/21</u>
DES CHK: <u>G. MYERS</u>	DATE: <u>06/21</u>	CHK BY: <u>G. MYERS</u>	DATE: <u>07/21</u>