BEAM BOLSTER IN SLAB OVERHANG

TWL

DESIGN ENGINEER OF RECORD: RLB

MRA

DRAWN BY : ___

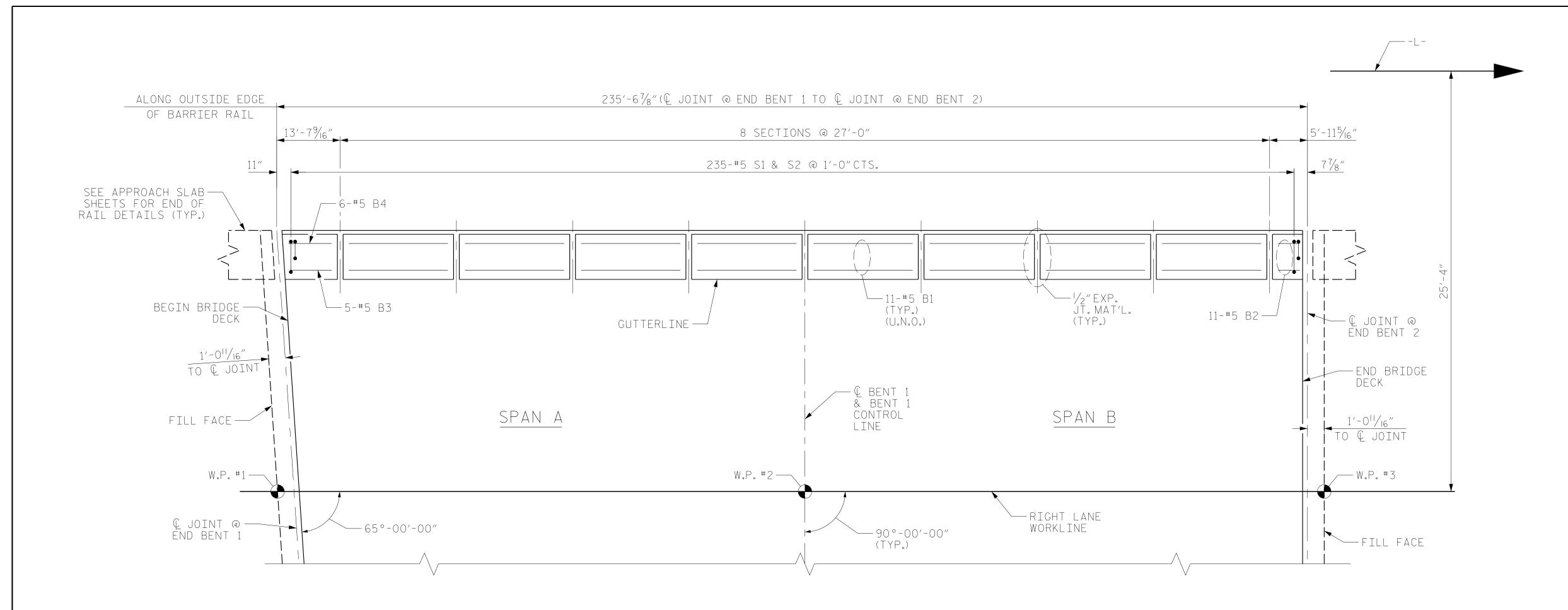
CHECKED BY : _

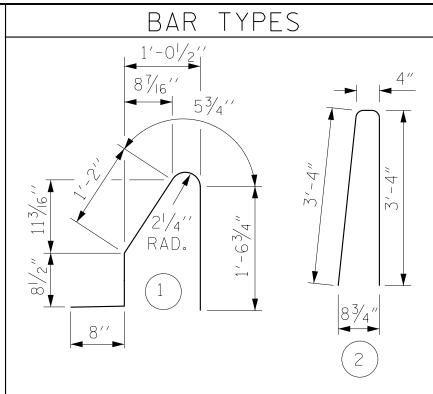
SECTION THRU RAIL

_DATE : <u>12/2020</u>

DATE : <u>12/2020</u>

_ DATE : <u>09/2021</u>





ALL BAR DIMENSIONS ARE OUT TO OUT BILL OF MATERIAL

FOR CONCRETE BARRIER RAIL ONLY					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	88	#5	STR.	26'-7"	2440
★ B2	11	#5	STR.	5′-6″	63
★ B3	5	#5	STR.	12'-7"	66
* B4	6	#5	STR.	12'-11"	81
* S1	235	#5	1	4'-7"	1123
* S2	235	#5	2	7′-0″	1716

* EPOXY COATED REINFORCING STEEL 5,489 LBS. 32.1 CU. YDS. LASS AA CONCRETE 235.6 LIN.FT. CONCRETE BARRIER RAIL

PLAN OF BARRIER RAIL PARAPET NOT SHOWN FOR CLARITY

(NOTE: OMIT EXP.JT.MAT'L. When slip form is used.) #5 S2 @ 1'-0'' CTS. **S** Ç OPEN JT.IN ── RAIL @ END BENTS — CONST. JT. CHAMFER |||| 3/4′′ . 3/4′′ CHAMFER | (LEVEL) 23/4" CL. 3/4'' | N CHAMFER |||| CHAMFER #5 S1 @ 1'-0'' CTS. CONST.JT. CONST. JT. SECTION S-S "B" BARS AT DAM IN OPEN JOINT (THIS IS TO BE USED ONLY CONST.JT. $1\frac{1}{2}$ EXT. WHEN SLIP FORM IS USED) (LEVEL) ELEVATION AT EXPANSION JOINTS 2- 1″△GROOVES

BARRIER RAIL DETAILS

NOTES

THE BARRIER RAIL IN EACH SPAN SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT SPAN HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

GROOVED CONTRACTION JOINTS, \(\struct_2''\) 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.

> PROJECT NO. <u>U-5798</u>A CUMBERLAND COUNTY STATION: 76+80.00 -L-



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STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SUPERSTRUCTURE

> CONCRETE BARRIER RAIL

> > RIGHT LANE

SHEET NO REVISIONS S2-18 DATE: BY: DATE: VO. BY: TOTAL SHEETS 43

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED