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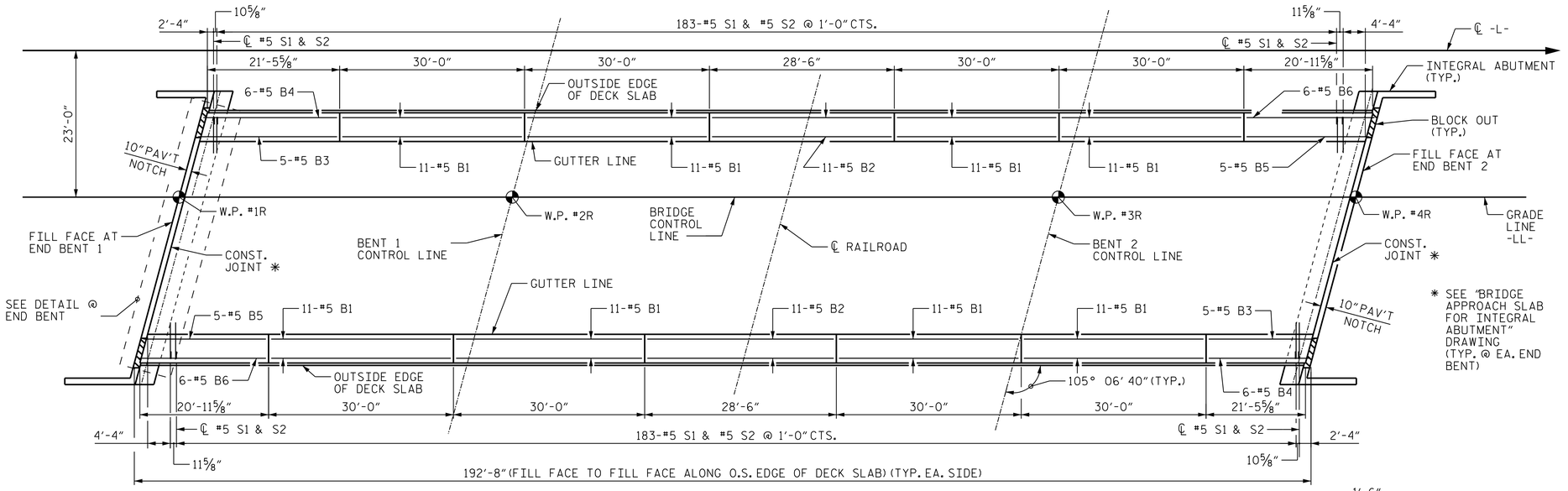
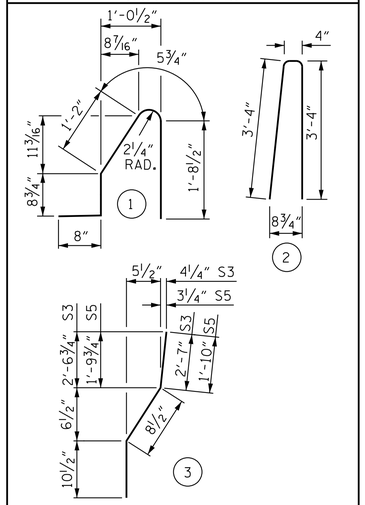


✳ SEE "BRIDGE APPROACH SLAB FOR INTEGRAL ABUTMENT" DRAWING (TYP. @ EA. END BENT)

BAR TYPES



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	29'-7"	2716
✳ B2	22	#5	STR	28'-1"	645
✳ B3	10	#5	STR	21'-5"	224
✳ B4	12	#5	STR	21'-1"	264
✳ B5	10	#5	STR	20'-3"	211
✳ B6	12	#5	STR	20'-6"	257
✳ S1	370	#5	1	4'-9"	1834
✳ S2	370	#5	2	7'-0"	2702
✳ S3	4	#5	3	4'-2"	18
✳ S4	4	#5	STR	4'-0"	17
✳ S5	8	#5	3	3'-5"	29
✳ S6	8	#5	STR	3'-3"	28

✳ EPOXY COATED REINFORCING STEEL	8,945 LBS.
CLASS AA CONCRETE	51.9 CU. YDS.
CONCRETE BARRIER RAIL	381.87 LIN. FT.

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, ½" 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.

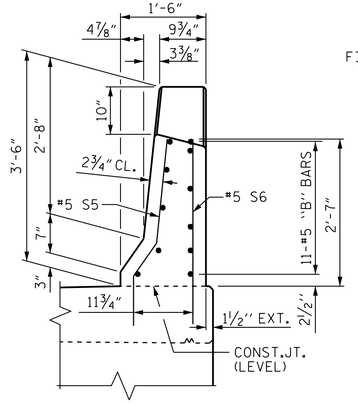
BARRIER RAIL PLAN

NOTE: ALL HORIZONTAL DIMENSIONS ARE MEASURED ALONG OUTSIDE EDGE OF SLAB

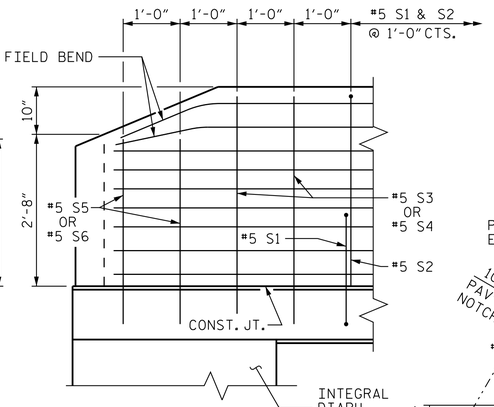
SECTION S-S

AT DAM IN OPEN JOINT (THIS IS TO BE USED ONLY WHEN SLIP FORM IS USED)

SECTION THRU RAIL



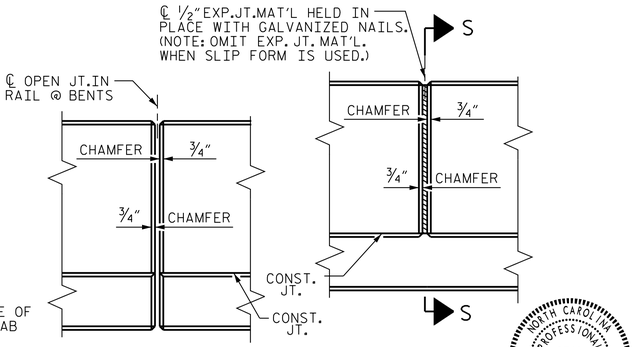
END VIEW



SIDE VIEW

PLAN

END OF RAIL DETAILS



ELEVATION AT EXPANSION JOINTS

BARRIER RAIL DETAILS

1/16/2018

Stantec
Stantec Consulting Services Inc.
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

ASSEMBLED BY : N. D'AIUTO	DATE : 01/26/17
CHECKED BY : T.N. ENNIS	DATE : 03/07/17
DRAWN BY : ARB 5/87	REV. 10/1/11 MAA/GM
CHECKED BY : SJD 9/87	REV. 7/12 MAA/GM
	REV. 6/13 MAA/GM

DESIGN ENGINEER OF RECORD: T.R. DUDECK DATE : 01/16/18

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT NO. U-2525C

GUILFORD COUNTY

STATION: 337+20.09 -L-

SHEET 1 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD
CONCRETE
BARRIER RAIL

(RL)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S5-21
1			3			TOTAL SHEETS
2			4			38

STR. #5

STD. NO. CBR1

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