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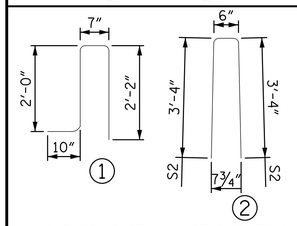
BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL
BARRIER RAIL ONLY

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B32	5	#5	STR	8′-4″	43
B33	5	#5	STR	7′-10″	41
S1	17	#5	1	5′-7″	99
S2	17	#5	2	7′-2″	127
✳EPOXY COATED REINFORCING STEEL					310 LBS.
CLASS AA CONCRETE					1.0 C.Y.
CONCRETE BARRIER RAIL					8.1 LIN. FT.

BILL OF MATERIAL
APPROACH SLAB AT EB 1 (STAGE 3)

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✳A1	26	#4	STR	9′-11″	172
A2	26	#4	STR	9′-8″	168
✳B1	32	#5	STR	11′-2″	373
B2	32	#6	STR	11′-8″	561
REINFORCING STEEL					729 LBS.
✳EPOXY COATED REINFORCING STEEL					545 LBS.
CLASS AA CONCRETE					8.8 C.Y.

BILL OF MATERIAL
APPROACH SLAB AT EB 1 (STAGE 5)

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✳A3	13	#4	STR	17′-3″	150
A4	13	#4	STR	17′-3″	150
✳B1	35	#5	STR	11′-2″	408
B2	35	#6	STR	11′-8″	613
REINFORCING STEEL					763 LBS.
✳EPOXY COATED REINFORCING STEEL					558 LBS.
CLASS AA CONCRETE					10.2 C.Y.

BILL OF MATERIAL
APPROACH SLAB AT EB 2 (STAGE 3)

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✳A5	3	#4	STR	17′-9″	36
✳A6	3	#4	STR	19′-0″	38
✳A7	3	#4	STR	19′-11″	40
✳A8	1	#4	STR	18′-6″	12
✳A9	1	#4	STR	17′-3″	12
✳A10	2	#4	STR	16′-0″	21
A11	3	#4	STR	17′-5″	35
A12	3	#4	STR	18′-8″	37
A13	3	#4	STR	19′-7″	39
A14	1	#4	STR	18′-2″	12
A15	1	#4	STR	16′-11″	11
A16	1	#4	STR	15′-8″	10
A17	1	#4	STR	14′-10″	10
✳B1	28	#5	STR	11′-2″	326
B2	27	#6	STR	11′-8″	473
✳B3	1	#5	STR	10′-8″	11
✳B4	1	#5	STR	10′-3″	11
✳B5	1	#5	STR	9′-10″	10
✳B6	1	#5	STR	8′-11″	9
✳B7	1	#5	STR	7′-3″	8
✳B8	1	#5	STR	5′-7″	6
✳B9	1	#5	STR	4′-0″	4
✳B10	3	#5	STR	2′-4″	7
B11	1	#6	STR	11′-2″	17
B12	1	#6	STR	10′-8″	16
B13	1	#6	STR	10′-3″	15
B14	1	#6	STR	9′-10″	15
B15	1	#6	STR	8′-11″	13
B16	1	#6	STR	7′-3″	11
B17	1	#6	STR	5′-7″	8
B18	1	#6	STR	4′-0″	6
B19	3	#6	STR	2′-4″	11
REINFORCING STEEL					739 LBS.
✳EPOXY COATED REINFORCING STEEL					551 LBS.
CLASS AA CONCRETE					9.2 C.Y.

BILL OF MATERIAL
APPROACH SLAB AT EB 2 (STAGE 5)

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✳A18	1	#4	STR	17′-2″	11
✳A19	1	#4	STR	17′-0″	11
✳A20	1	#4	STR	16′-8″	11
✳A21	1	#4	STR	16′-4″	11
✳A22	1	#4	STR	16′-0″	11
✳A23	1	#4	STR	15′-7″	10
✳A24	1	#4	STR	15′-3″	10
✳A25	1	#4	STR	14′-11″	10
✳A26	1	#4	STR	14′-7″	10
✳A27	1	#4	STR	14′-3″	10
✳A28	1	#4	STR	13′-11″	9
✳A29	1	#4	STR	13′-7″	9
✳A30	1	#4	STR	13′-5″	9
A31	1	#4	STR	17′-3″	12
A32	1	#4	STR	17′-0″	11
A33	1	#4	STR	16′-9″	11
A34	1	#4	STR	16′-4″	11
A35	1	#4	STR	16′-0″	11
A36	1	#4	STR	15′-8″	10
A37	1	#4	STR	15′-3″	10
A38	1	#4	STR	14′-11″	10
A39	1	#4	STR	14′-8″	10
A40	1	#4	STR	14′-3″	10
A41	1	#4	STR	13′-11″	9
A42	1	#4	STR	13′-8″	9
A43	1	#4	STR	13′-8″	9
✳B1	27	#5	STR	11′-2″	314
B2	27	#6	STR	11′-8″	473
✳B20	1	#5	STR	10′-6″	11
✳B21	1	#5	STR	9′-1″	9
✳B22	1	#5	STR	7′-7″	8
✳B23	1	#5	STR	6′-2″	6
✳B24	1	#5	STR	4′-8″	5
✳B25	3	#5	STR	3′-2″	10
B26	1	#6	STR	10′-6″	16
B27	1	#6	STR	9′-1″	14
B28	1	#6	STR	7′-7″	11
B29	1	#6	STR	6′-2″	9
B30	1	#6	STR	4′-8″	7
B31	3	#6	STR	3′-2″	14
REINFORCING STEEL					677 LBS.
✳EPOXY COATED REINFORCING STEEL					495 LBS.
CLASS AA CONCRETE					9.1 C.Y.

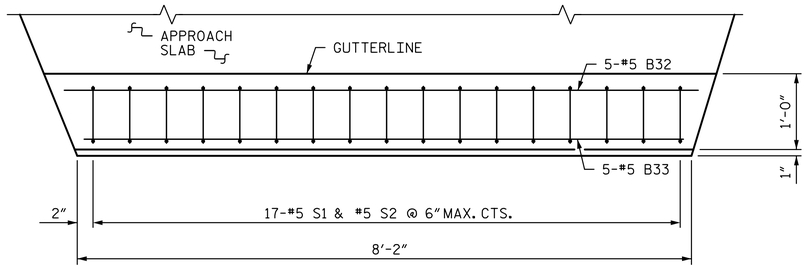
NOTES:

THE COST OF THE BARRIER RAIL ON THE APPROACH SLAB SHALL BE INCLUDED IN THE LINEAR FOOT CONTRACT PRICE BID FOR "CONCRETE BARRIER RAIL".

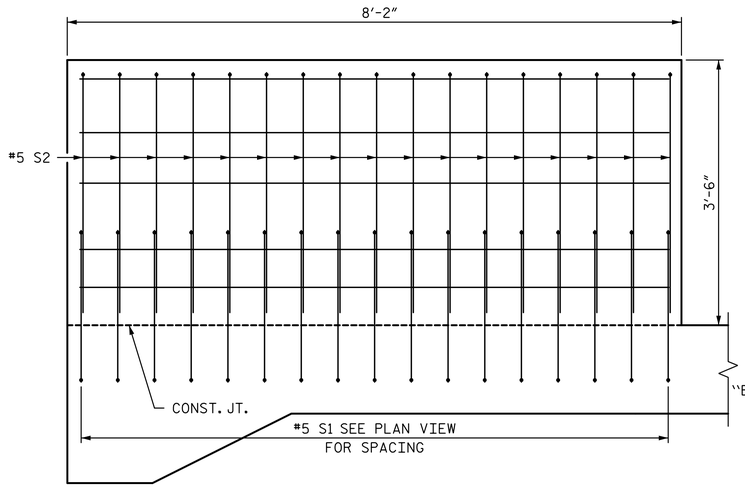
THE BARRIER RAIL ON APPROACH SLAB SHALL NOT BE CAST UNTIL ALL APPROACH SLAB CONCRETE HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

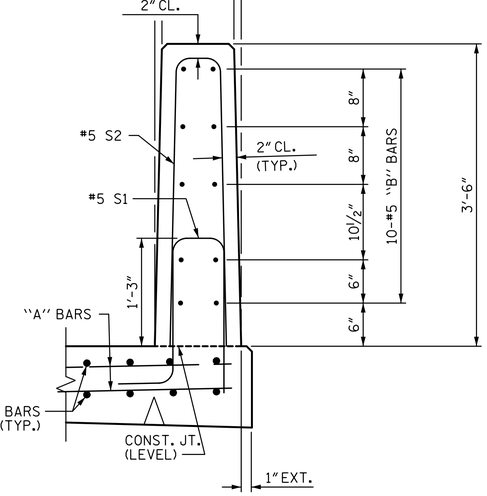
FOR DETAILS ON CONSTRUCTION STAGING, SEE CONSTRUCTION STAGING SHEETS.



PLAN OF BARRIER RAIL



SIDE VIEW



SECTION THRU RAIL

END OF RAIL DETAILS

PROJECT NO. DF18314.2045332

HENDERSON COUNTY

STATION: 13+70.81 -L-

SHEET 2 OF 2

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 052672 MATTHEW R. ACOSTA
4/13/2026

RS&H

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

APPROACH SLAB DETAILS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-32
1			3			TOTAL SHEETS
2			4			32

DRAWN BY : J. SCACCA DATE : 07/2025
CHECKED BY : M. ACOSTA DATE : 07/2025
DESIGN ENGINEER OF RECORD: M. ACOSTA DATE : 03/2026

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

3/11/2026
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