BILL OF MATERIAL

FOR CONCRETE BARRIER RAIL ONLY BAR NO. SIZE TYPE LENGTH WEIGHT

28 #5 STR 12'-0''

* B3 | 28 | #5 | STR | 12'-6'' |

302 #5

* S1

* S2

* S3

***** S4

* EPOXY COATED

NOTES

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

THE #5 S3 THRU #5 S4 BARS IS 18.6 KIPS. FIELD TESTING FOR THE

WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. A JOINT

SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE JOINT IS REQUIRED AT MIDPOINT OF

ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.

THE #5 S3 THRU #5 S4 BARS SHALL BE INSTALLED, USING AN ADHESIVE ANCHORING SYSTEM, AFTER SAWING THE JOINT. FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE SPECIAL PROVISIONS. THE YIELD LOAD FOR

VERTICAL GROOVED CONTRACTION JOINTS, $\frac{1}{2}$ " IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE

BARRIER RAIL SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO JOINTS

THE BARRIER RAIL IN A CONTINUOUS UNIT SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT SPAN HAS BEEN CAST AND HAS REACHED A MINIMUM

THE JOINT IN THE DECK SHALL BE SAWED PRIOR TO THE CASTING OF BARRIER

CLASS AA CONCRETE

REINFORCING STEEL

CONCRETE BARRIER RAIL

70 #5 STR 23′-0′′

12 | #5 | 3 | 3'-4''

12 #5 STR 3'-2"

302 | #5 | 1 | 4'-6'' | 1417

2 5'-2''

1679

365

1627

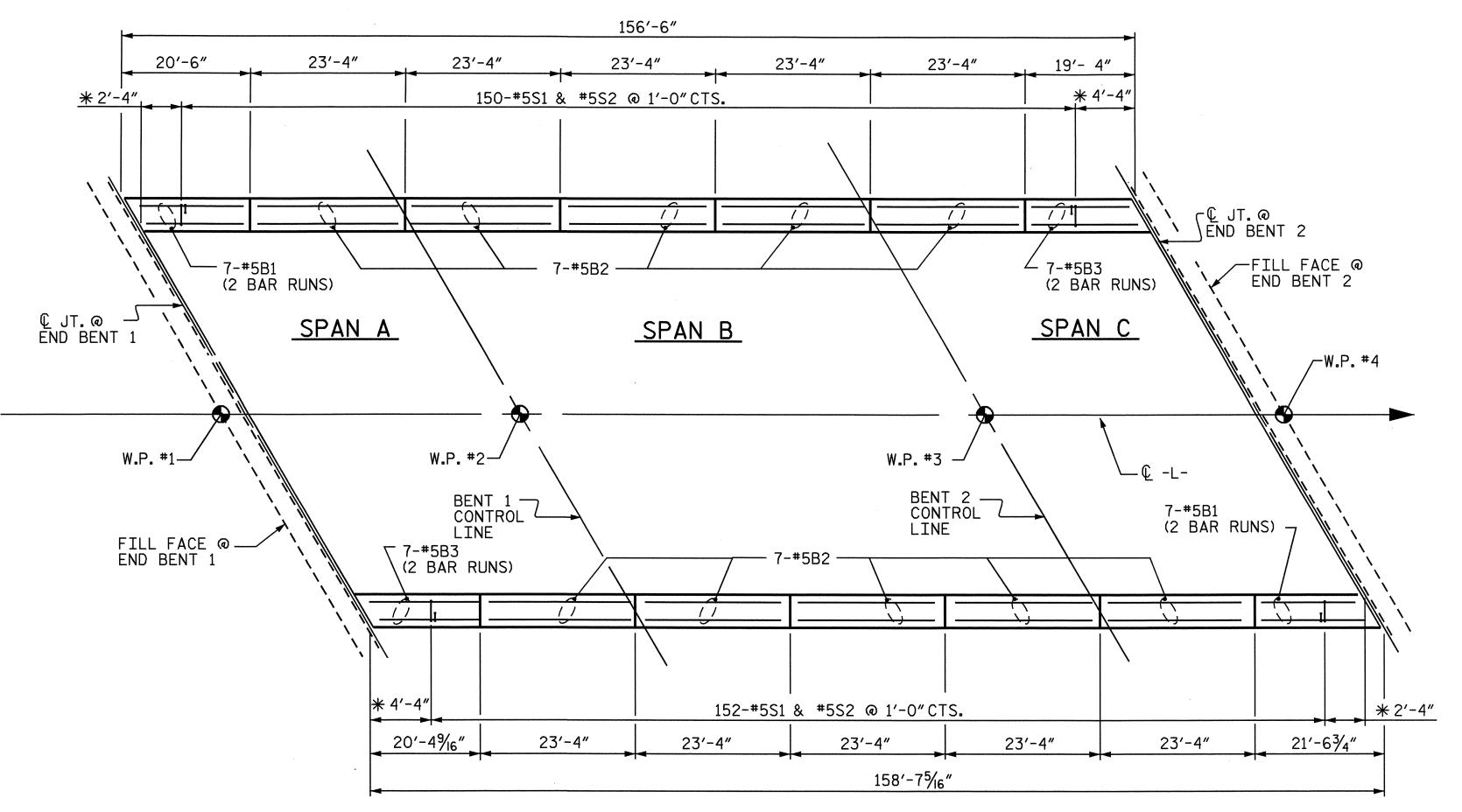
5,520 LBS.

31.5 CU. YDS.

315.11 LIN. FT.

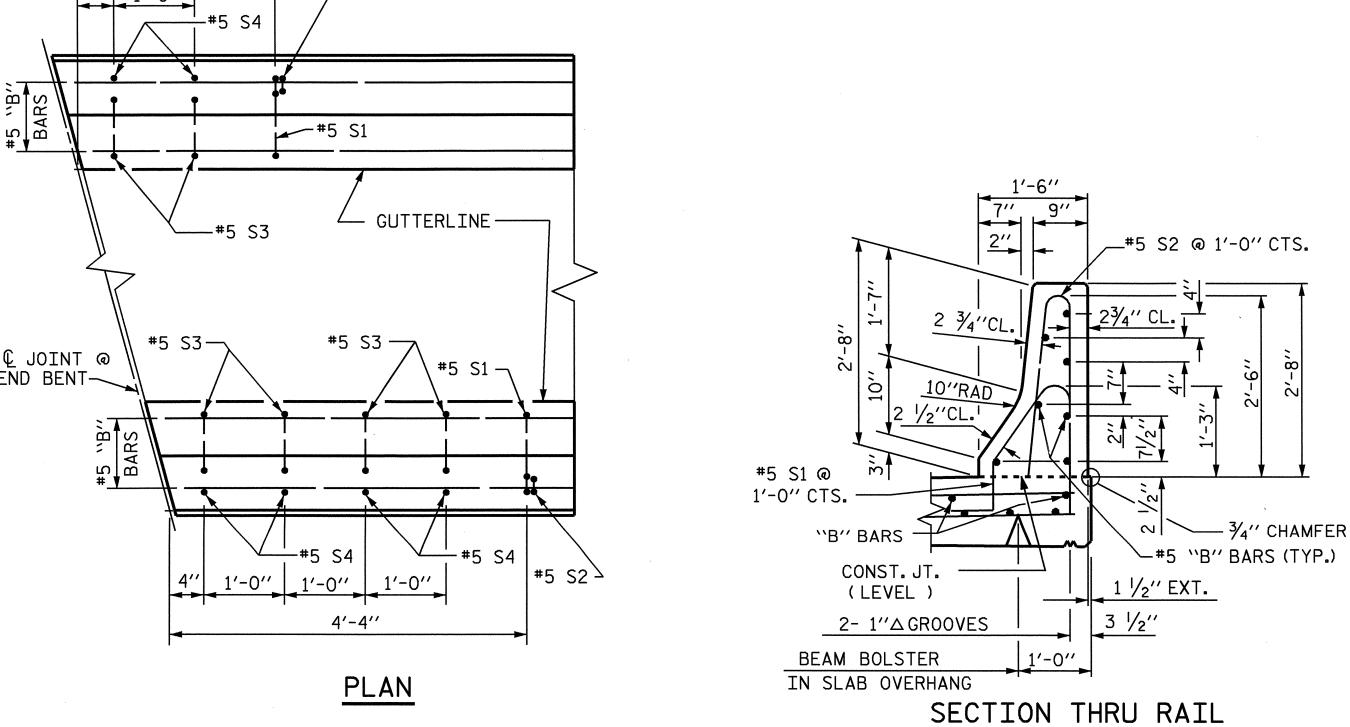
42

40

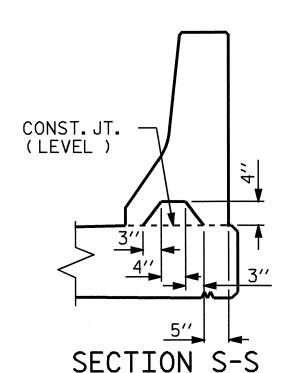




* SEE BARRIER FAIL END OF RAIL DETAIL FOR ADDITIONAL REINFORCING STEEL IN BARRIER RAIL.



BARRIER RAIL END OF RAIL DETAILS



1/2" EXP.JT.MAT'L HELD IN PLACE WITH GALVANIZED NAILS. (NOTE: OMIT EXP. JT. MAT'L. WHEN SLIP FORM IS USED.)

63/4"

(2)

RAIL.

BAR TYPES

1'-01/2"

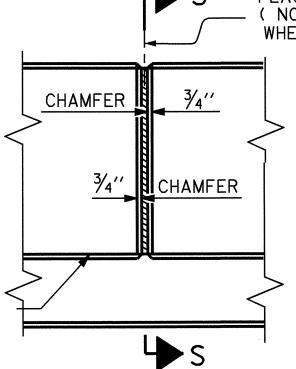
r5¾′′

ALL BAR DIMENSIONS ARE OUT TO OUT

COMPRESSIVE STRENGTH OF 3,000 PSI.

ADHESIVE BONDING SYSTEM IS NOT REQUIRED.

87/16"



AT JOINT

ELEVATION AT EXPANSION JOINTS BARRIER RAIL DETAILS

PROJECT	NO	B-36	549
		RD	
STATION:			

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION **STANDARD** CONCRETE BARRIER RAIL

OC.	TOBER					1987
					SHEET NO.	
·	BY:	DATE:	NO.	BY:	DATE:	S-16
			3			TOTAL SHEETS
2			4			32

STD NO CRRI

#5 S2 4" 1'-0" #5 S4
BARS - #5 S1
#5 S3 GUTTERLINE
© JOINT @ #5 S3 #5 S1 -
BARS BARS
#5 S4 #5 S4 #5 S2

ASSEMBLED BY: N.Q.TRAN DATE: 4-17-03 CHECKED BY: T.A.WALTER DATE: 9-30-03

EEM/RGW RWW/LES RWW/LES

DRAWN BY: ARB 5/87 REV. 6/16/95 REV. 7/17/98 REV. 8/16/99

