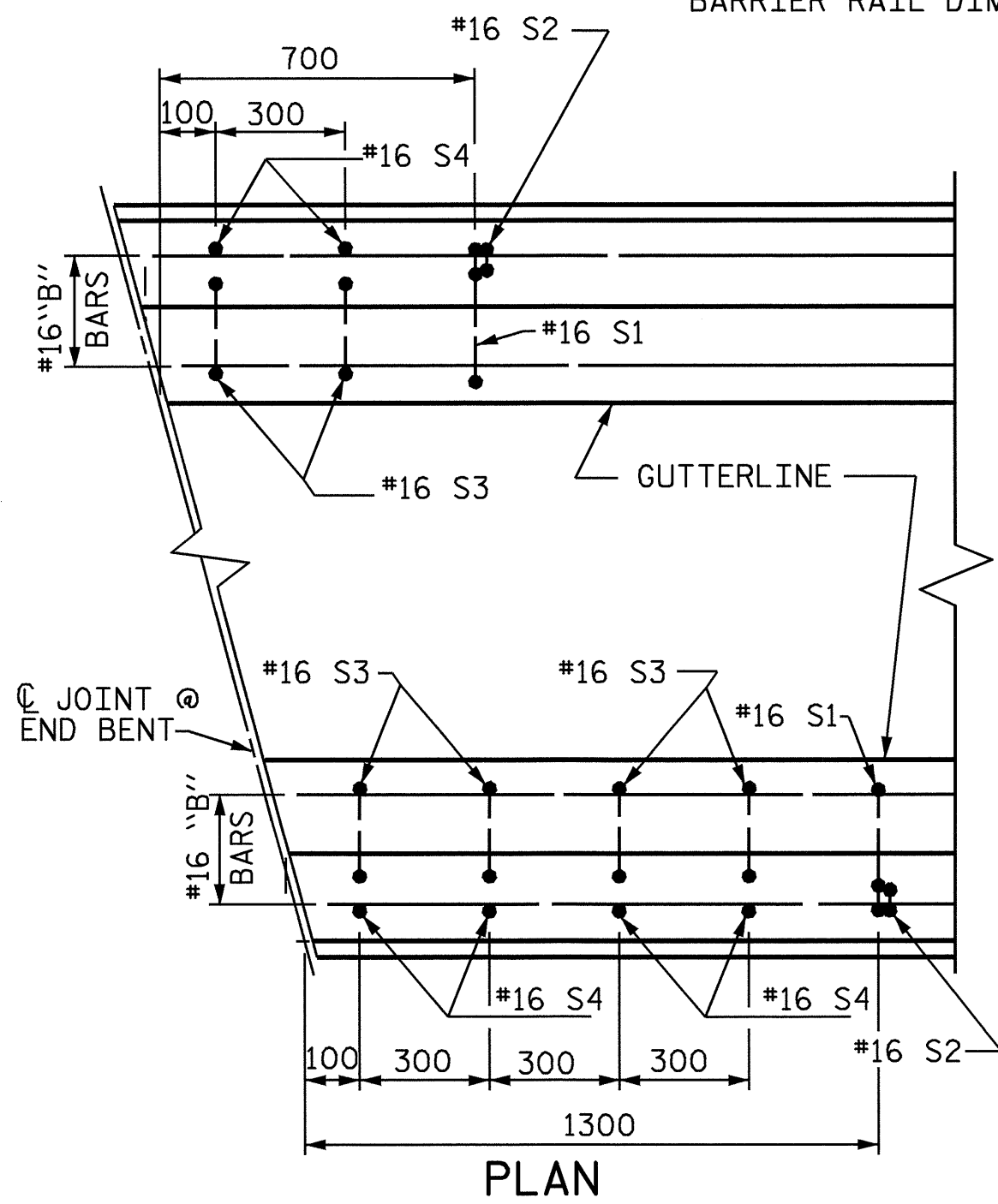


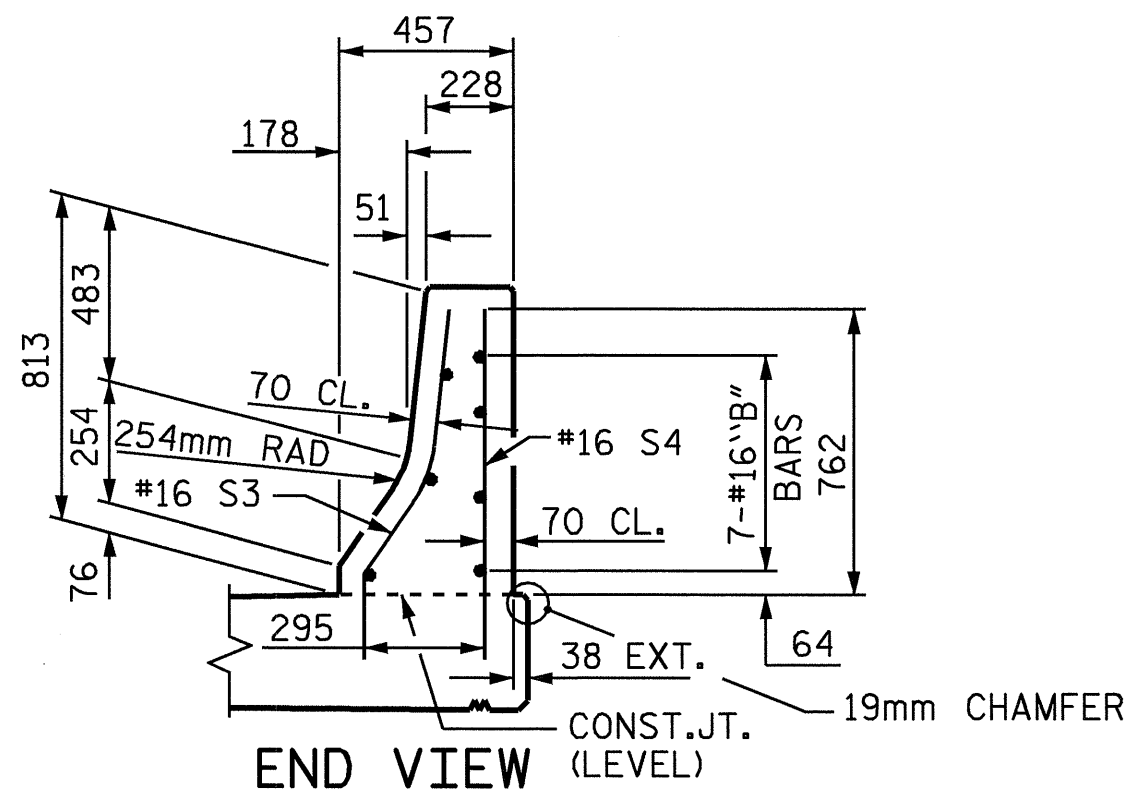
PLAN

BARRIER RAIL DIMENSIONS ARE TAKEN ALONG OUTSIDE FACE OF BARRIER RAIL



PLAN

END OF RAIL DETAILS



END VIEW

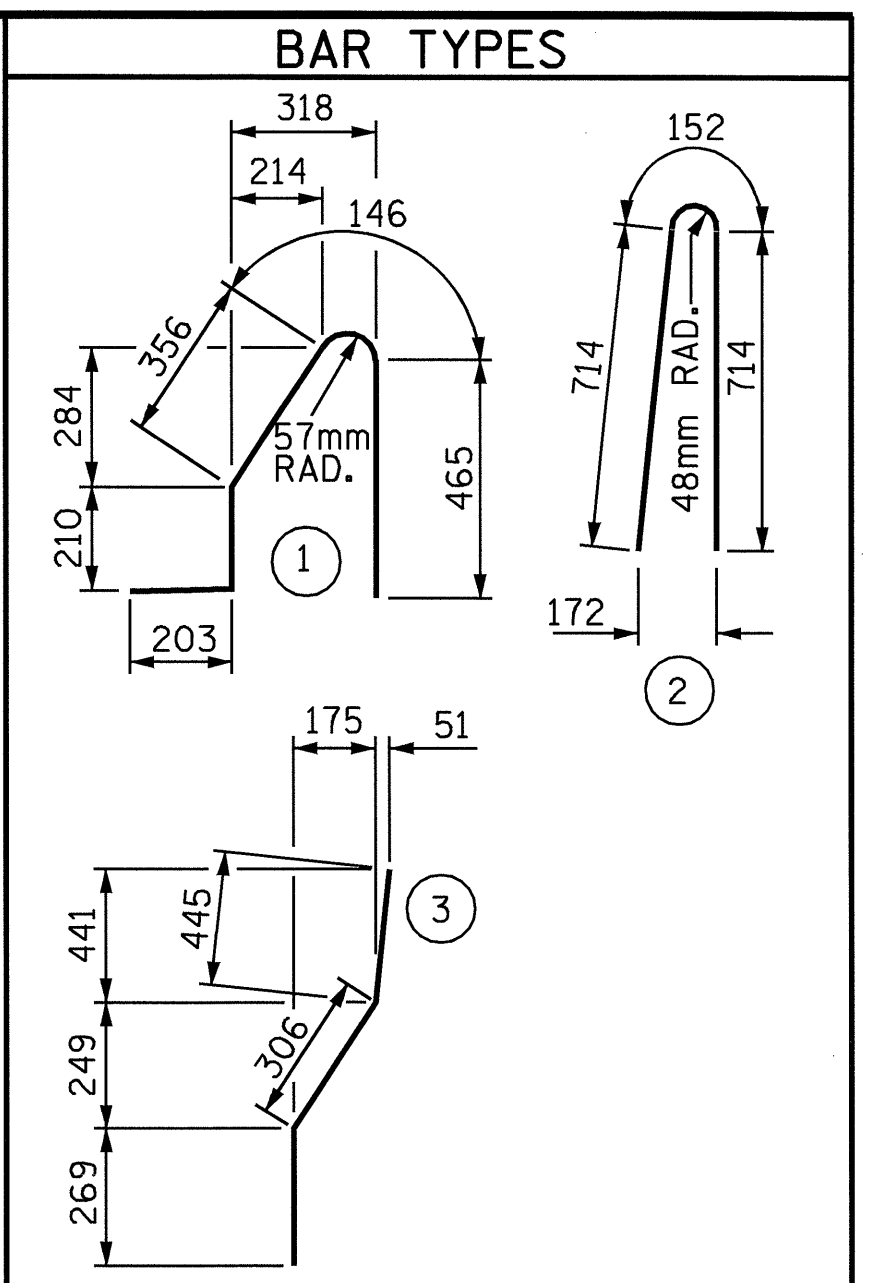
NOTES

THE BARRIER RAIL IN A CONTINUOUS UNIT SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT UNIT HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 20.7 MPa.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

VERTICAL GROOVED CONTRACTION JOINTS, 12mm 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 6.1m IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 3.5m IN LENGTH.

*16S1 AND S2 BARS MAY BE SHIFTED SLIGHTLY IN ORDER TO MAINTAIN A 50mm MINIMUM CLEARANCE TO THE 13mm EXPANSION JOINT MATERIAL IN THE RAIL.



ALL BAR DIMENSIONS ARE OUT TO OUT

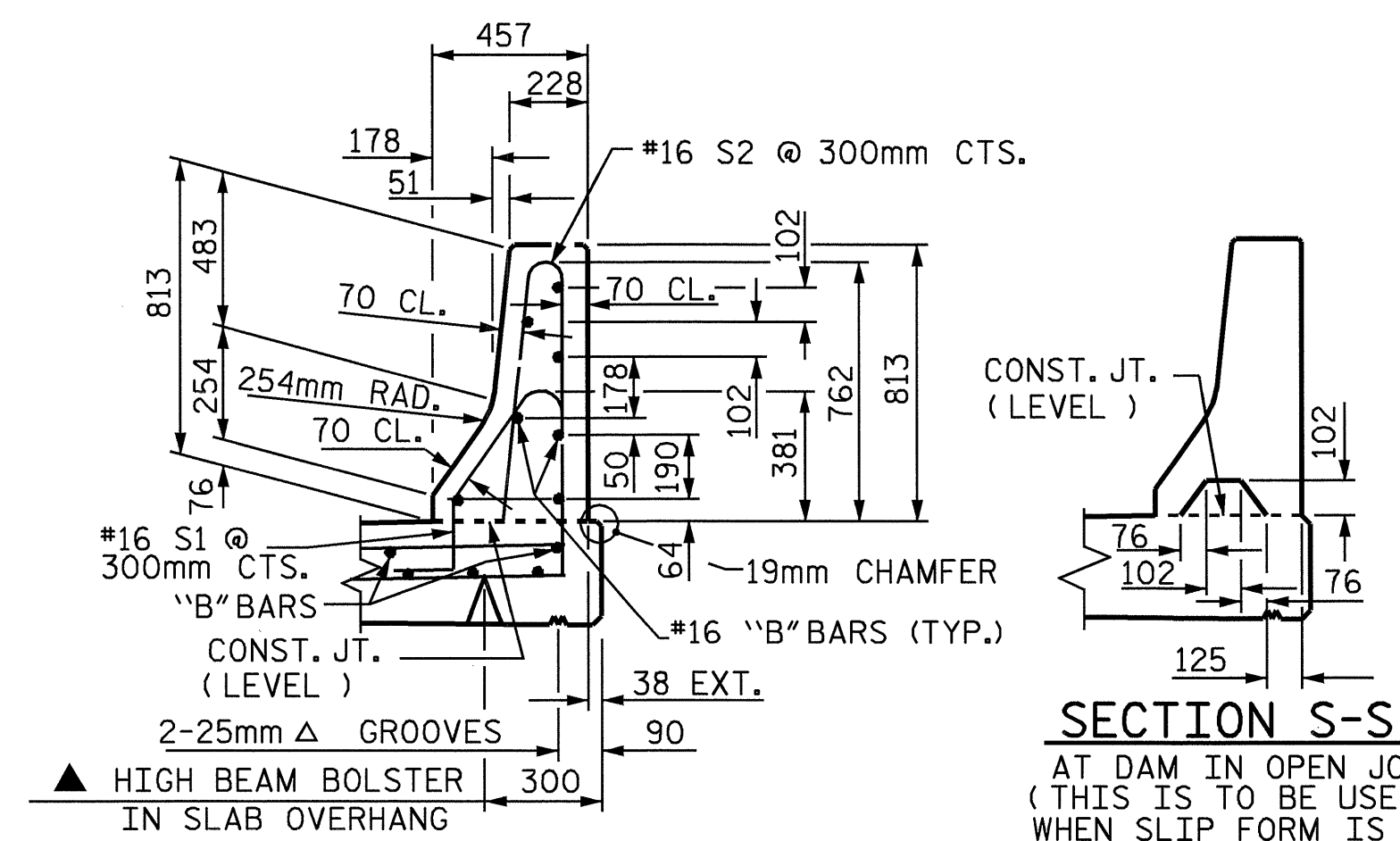
BILL OF MATERIAL

FOR CONCRETE BARRIER RAIL ONLY

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
*B1	28	#16	STR	4100	178
*B2	154	#16	STR	7500	1793
*B3	28	#16	STR	1820	79
*S1	612	#16	1	1380	1311
*S2	612	#16	2	1580	1501
*S3	12	#16	3	1020	19
*S4	12	#16	STR	960	18

*EPOXY COATED REINFORCING STEEL	4899	kg
CLASS AA CONCRETE	47.0	CU. METER
CONCRETE BARRIER RAIL	187.278	METERS

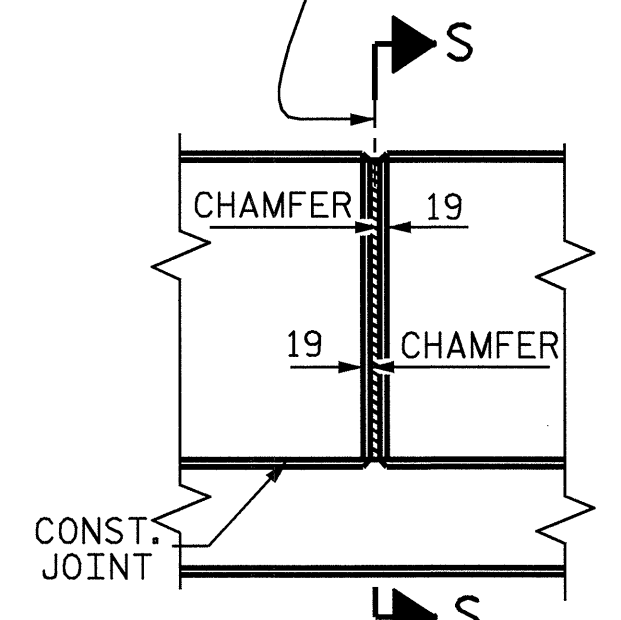
* THESE BARS ARE EPOXY COATED



SECTION THRU RAIL

▲ SEE TYPICAL SECTION FOR HEIGHT OF THE BEAM BOLSTERS

Ø 13mm EXP. JT. MAT'L HELD IN PLACE WITH GALVANIZED NAILS. (NOTE: OMIT EXP. JT. MAT'L WHEN SLIP FORM IS USED.)



ELEVATION AT EXPANSION JOINTS BARRIER RAIL DETAILS



PROJECT NO. R-2911A
 IREDELL COUNTY
 STATION: 39+62.402-L-

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

STANDARD
 CONCRETE BARRIER RAIL
 LEFT LANE

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

TOTAL SHEETS: 106

ASSEMBLED BY : L.L.MURPHY	DATE : 01-04
CHECKED BY : D.HODGE	DATE : 02-04
DRAWN BY : ARB 5/87	REV. 8/16/99 RWW/LES
CHECKED BY : SJD 9/87	REV. 10/17/00 RWW/LES
	REV. 5/7/03 RWW/JTE