W:\SquadM\r513c\str7\wkfischer\Microstation\r513c07as_hl.wkfischer

NOTES

THE COST OF THE BARRIER RAIL ON THE APPROACH SLAB SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE BID FOR BRIDGE APPROACH SLABS.

APPROACH SLAB SHALL NOT BE CONSTRUCTED PRIOR TO COMPLETION OF THE BRIDGE DECK.

FOR REINFORCED BRIDGE APPROACH FILL INCLUDING FABRIC, IMPERMEABLE GEOMEMBRANE, 102mm Ø DRAINAGE PIPE, #78M STONE, AND SELECT MATERIAL, SEE ROADWAY PLANS.

TEMPORARY DRAINAGE AND TEMPORARY BERM AND SLOPE DRAINS WILL BE PAID FOR UNDER THE LUMP SUM PRICE FOR BRIDGE APPROACH SLAB.

AREA BETWEEN THE WINGWALL AND APPROACH SLAB SHALL BE GRADED TO DRAIN THE WATER AWAY FROM THE FILL FACE OF THE BRIDGE AND SHALL BE PAVED. SEE ROADWAY PLANS.

THE 150mm COMP. A.B.C. SHALL EXTEND 3m BEYOND THE END OF THE APPROACH SLAB AND 300mm OUTSIDE OF EACH EDGE OF THE SLAB.

THE CONTRACTOR MAY USE 100mm TYPE B-25.0B ASPHALT CONCRETE COURSE IN LIEU OF 150mm COMP. A.B.C. IF THIS OPTION IS USED, THE BASE COURSE SHALL EXTEND 300mm BEYOND THE END OF THE APPROACH SLAB AND THE WIDTH SHALL BE THE SAME AS THAT OF THE APPROACH SLAB.

THE CONTRACTOR MAY USE 125mm CLASS "A" CONCRETE BASE IN LIEU OF 150mm COMP. A.B.C. IF THIS OPTION IS USED, THE CONCRETE BASE SHALL EXTEND 300mm BEYOND THE END OF THE APPROACH SLAB AND THE WIDTH SHALL BE THE SAME AS THAT OF THE APPROACH SLAB. THE CONCRETE SHALL BE FINISHED TO A SMOOTH SURFACE AND A LAYER OF 13.6 kg. ROOFING FELT SHALL BE PLACED BETWEEN THE CONCRETE BASE AND THE APPROACH SLAB TO PREVENT BOND. THE APPROACH SLAB SHALL NOT BE CAST UNTIL THE CONCRETE BASE HAS REACHED AN AGE OF THREE CURING DAYS.

THE JOINT SHALL BE SAWED PRIOR TO THE CASTING OF THE BARRIER RAIL.

APPROACH SLAB GROOVING IS NOT REQUIRED. TINE CONCRETE ONLY WITHIN THE LIMITS OF THE ASPHALT PAVEMENT AND IN ACCORDANCE WITH ARTICLE 422-3 OF THE STANDARD SPECIFICATIONS.

WITH EVAZOTE JOINT SEAL

FOR EVAZOTE JOINT SEALS, SEE SPECIAL PROVISIONS.

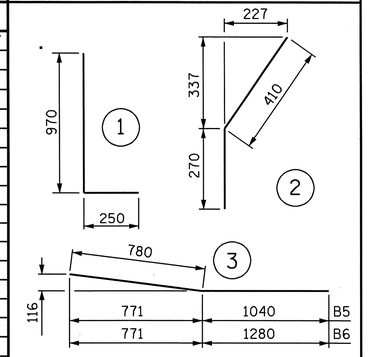
THE NOMINAL UNCOMPRESSED SEAL WIDTH OF THE EVAZOTE JOINT SEAL SHALL BE 71mm @ EB #1 AND 87mm @ EB #2.

BILL OF MATERIAL

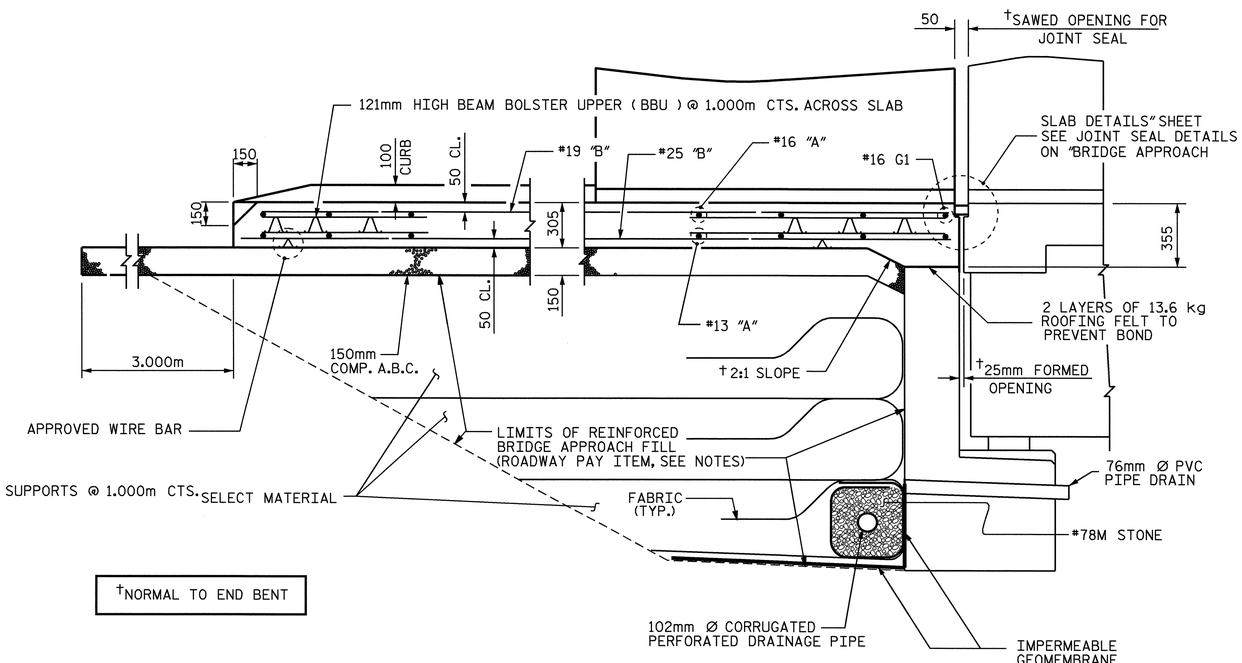
FOR ONE APPROACH SLAB (2 REQRD.)

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A1	159	#13	STR	6620	1046	B101	5	#25	STR	7540	150	✱B211	5	#19	STR	9460	106
A101	4	#13	STR	8580	34	B102	5	#25	STR	7760	154	✱B212	5	#19	STR	9660	108
A102	4	#13	STR	8020	32	B103	5	#25	STR	7960	158	✱B213	5	#19	STR	9880	110
A103	4	#13	STR	7480	30	B104	5	#25	STR	8160	162	✱B214	5	#19	STR	10080	113
A104	4	#13	STR	6940	28	B105	5	#25	STR	8380	166	✱B215	5	#19	STR	10280	115
A105	4	#13	STR	6420	26	B106	5	#25	STR	8580	170	✱B216	5	#19	STR	10500	117
A106	4	#13	STR	5840	23	B107	5	#25	STR	8780	174	✱B217	5	#19	STR	10700	120
A107	4	#13	STR	5300	21	B108	5	#25	STR	9000	179	✱B218	5	#19	STR	10900	122
A108	2	#13	STR	8960	18	B109	5	#25	STR	9200	183	✱B219	5	#19	STR	11100	124
A109	2	#13	STR	7880	16	B110	5	#25	STR	9400	187	✱B220	5	#19	STR	11320	127
A110	2	#13	STR	6780	13	B111	5	#25	STR	9600	191	✱B221	5	#19	STR	11520	129
A111	2	#13	STR	5760	11	B112	5	#25	STR	9820	195	✱B222	5	#19	STR	11720	131
A112	2	#13	STR	4600	9	B113	5	#25	STR	10020	199	✱B223	5	#19	STR	11940	133
A113	2	#13	STR	3520	7	B114	5	#25	STR	10220	203	✱B224	5	#19	STR	12140	136
A114	2	#13	STR	2400	5	B115	5	#25	STR	10440	207	✱B225	5	#19	STR	12340	138
A115	2	#13	STR	1320	3	B116	5	#25	STR	10640	211						
A116	1	#13	STR	700	1	B117	5	#25	STR	10840	215	✱B3	7	#16	STR	3500	38
						B118	5	#25	STR	11060	220	✱B4	7	#16	STR	3580	39
✱A2	102	#16	STR	9780	1548	B119	5	#25	STR	11260	224	✱B5	1	#16	STR	1820	3
✱A201	2	#16	STR	17700	55	B120	5	#25	STR	11460	228	✱B6	1	#16	STR	2060	3
✱A202	2	#16	STR	16600	52	B121	5	#25	STR	11680	232						
✱A203	2	#16	STR	15500	48	B122	5	#25	STR	11880	236	✱G1	2	#16	STR	10150	32
✱A204	2	#16	STR	14420	45	B123	5	#25	STR	12080	4244						
✱A205	2	#16	STR	13320	41	B124	5	#25	STR	12300	244	✱S1	58	#16	STR	980	88
✱A206	2	#16	STR	12300	38	B125	5	#25	STR	12500	248	✱S2	42	#16	1	1220	80
✱A207	2	#16	STR	11140	35							✱S3	20	#16	2	680	21
✱A208	2	#16	STR	10060	31	✱B201	5	#19	STR	7400	83						
✱A209	2	#16	STR	8960	28	✱B202	5	#19	STR	7600	85	REINFORCING STEEL = 4781 KG					
✱A210	2	#16	STR	7880	24	✱B203	5	#19	STR	7800	87	✱EPOXY COATED REINF. STEEL = 6603 KG					
✱A211	2	#16	STR	6780	21	✱B204	5	#19	STR	8020	90						
✱A212	2	#16	STR	5760	18	✱B205	5	#19	STR	8220	92	CLASS AA CONCRETE BREAKDOWN					
✱A213	2	#16	STR	4600	14	✱B206	5	#19	STR	8420	94						
✱A214	2	#16	STR	3520	11	✱B207	5	#19	STR	8640	97	POUR 1 SLAB C.M. 59.1					
✱A215	2	#16	STR	2400	7	✱B208	5	#19	STR	8840	99	POUR 2 RAIL C.M. 1.6					
✱A216	2	#16	STR	1320	4	✱B209	5	#19	STR	9040	101						
✱A217	1	#16	STR	700	1	✱B210	5	#19	STR	9260	103	CLASS AA CONCRETE C.M. 60.7					

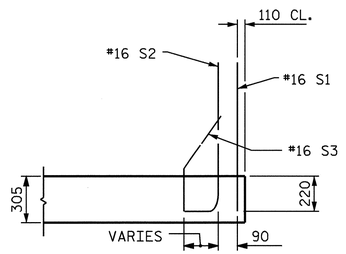
BAR TYPES



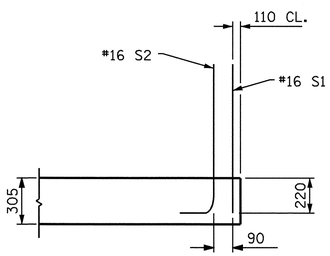
ALL BAR DIMENSIONS ARE OUT TO OUT



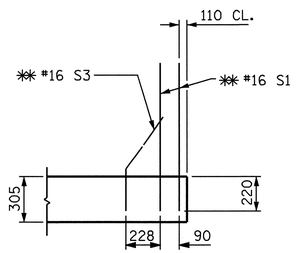
SECTION THRU SLAB



SECTION L-L



SECTION M-M



SECTION K-K

✱✱ ADHESIVELY ANCHORED

PROJECT NO. R-513C

ROBESON COUNTY

STATION: 310+10.648 -L-

SHEET 2 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

BRIDGE APPROACH SLAB WITH BARRIER RAIL

NORTH CAROLINA PROFESSIONAL SEAL 11259 ENGINEER DAVID R. ANDERSON

4/27/04

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-309
1			3			TOTAL SHEETS
2			4			312

ASSEMBLED BY : H.A. LUCAS	DATE : 3/22/04	
CHECKED BY : W.K. FISCHER	DATE : 3/26/04	
DRAWN BY : RWW 8/01	ADDED 12/01	
CHECKED BY : LES 8/01	REV. 5/7/03	RWW/JTE

STR #7 REV. STD. NO. BAS5SM