SUPERSTRUCTURE REINFORCING STEEL LENGTHS ARE BASED ON THE FOLLOWING MINIMUM SPLICE LENGTHS

BAR SIZE	SUPERSTRUCTURE EXCEPT APPROACH SLABS, PARAPET, AND BARRIER RAIL		APPROACH SLABS		PARAPET AND BARRIER RAIL
	EPOXY COATED	UNCOATED	EPOXY COATED	UNCOATED	
#4	2'-0"	1'-9"	2'-0"	1'-9"	2'-9"
#5	2'-6"	2'-2"	2'-6"	2'-2"	3'-5"
#6	3'-0"	2'-7"	3'-10"	2'-7"	4'-4"
#7	5'-3"	3'-6"			
#8	6'-10"	4'-7"			

BILL OF MATERIAL

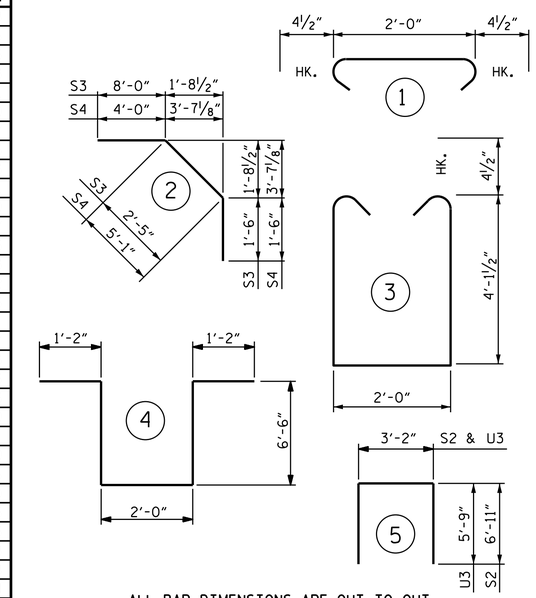
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✱ A1	358	#5	STR	54'-8"	20412
A2	358	#5	STR	59'-0"	22030
✱ A3	359	#5	STR	54'-9"	20500
A4	359	#5	STR	50'-1"	18753
✱ A101	1	#5	STR	55'-1"	57
✱ A102	1	#5	STR	50'-11"	53
✱ A103	1	#5	STR	46'-9"	49
✱ A104	1	#5	STR	42'-7"	44
✱ A105	1	#5	STR	38'-5"	40
✱ A106	1	#5	STR	34'-3"	36
✱ A107	1	#5	STR	30'-1"	31
✱ A108	1	#5	STR	25'-11"	27
✱ A109	1	#5	STR	21'-9"	23
✱ A110	1	#5	STR	17'-8"	18
✱ A111	1	#5	STR	13'-6"	14
✱ A112	1	#5	STR	9'-4"	10
✱ A113	1	#5	STR	5'-2'	5
A121	1	#5	STR	55'-1"	57
A122	1	#5	STR	50'-11"	53
A123	1	#5	STR	46'-9"	49
A124	1	#5	STR	42'-7'	44
A125	1	#5	STR	38'-5"	40
A126	1	#5	STR	34'-3"	36
A127	1	#5	STR	30'-1"	31
A128	1	#5	STR	25'-11"	27
A129	1	#5	STR	21'-9"	23
A130	1	#5	STR	17'-8"	18
A131	1	#5	STR	13'-6"	14
A132	1	#5	STR	9'-4"	10
A133	1	#5	STR	5'-2"	5
✱ A141	1	#5	STR	51'-0"	53
✱ A142	1	#5	STR	46'-10"	49
✱ A143	1	#5	STR	42'-8"	45
✱ A144	1	#5	STR	38'-6"	40
✱ A145	1	#5	STR	34'-4"	36
✱ A146	1	#5	STR	30'-2"	31
✱ A147	1	#5	STR	26'-0"	27
✱ A148	1	#5	STR	21'-10"	23
✱ A149	1	#5	STR	17'-8"	18
✱ A150	1	#5	STR	13'-6"	14
✱ A151	1	#5	STR	9'-4"	10
✱ A152	1	#5	STR	5'-2"	5

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A161	1	#5	STR	55'-4"	58
A162	1	#5	STR	51'-2"	53
A163	1	#5	STR	47'-0'	49
A164	1	#5	STR	42'-10"	45
A165	1	#5	STR	38'-8"	40
A166	1	#5	STR	34'-6"	36
A167	1	#5	STR	30'-4"	32
A168	1	#5	STR	26'-2"	27
A169	1	#5	STR	22'-0"	23
A170	1	#5	STR	17'-10"	19
A171	1	#5	STR	13'-8"	14
A172	1	#5	STR	9'-6"	10
A173	1	#5	STR	5'-4"	6
✱ A181	1	#5	STR	51'-0"	53
✱ A182	1	#5	STR	46'-10"	49
✱ A183	1	#5	STR	42'-8"	45
✱ A184	1	#5	STR	38'-6"	40
✱ A185	1	#5	STR	34'-4"	36
✱ A186	1	#5	STR	30'-2"	31
✱ A187	1	#5	STR	26'-0"	27
✱ A188	1	#5	STR	21'-10"	23
✱ A189	1	#5	STR	17'-8"	18
✱ A190	1	#5	STR	13'-6"	14
✱ A191	1	#5	STR	9'-4"	10
✱ A192	1	#5	STR	5'-2"	5
A201	1	#5	STR	46'-4"	48
A202	1	#5	STR	42'-2"	44
A203	1	#5	STR	38'-0"	40
A204	1	#5	STR	33'-10"	35
A205	1	#5	STR	29'-8"	31
A206	1	#5	STR	25'-6"	27
A207	1	#5	STR	21'-4"	22
A208	1	#5	STR	17'-2"	18
A209	1	#5	STR	13'-0"	14
A210	1	#5	STR	8'-10"	9
A211	1	#5	STR	4'-8"	5
✱ A221	1	#5	STR	50'-9"	53
✱ A222	1	#5	STR	46'-7"	49
✱ A223	1	#5	STR	42'-5"	44
✱ A224	1	#5	STR	38'-3"	40
✱ A225	1	#5	STR	34'-1"	36
✱ A226	1	#5	STR	29'-11"	31
✱ A227	1	#5	STR	25'-9"	27

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✱ A228	1	#5	STR	21'-7"	23
✱ A229	1	#5	STR	17'-6"	18
✱ A230	1	#5	STR	13'-4"	14
✱ A231	1	#5	STR	9'-2"	10
✱ A232	1	#5	STR	5'-0"	5
A241	1	#5	STR	50'-9"	53
A242	1	#5	STR	46'-7"	49
A243	1	#5	STR	42'-5"	44
A244	1	#5	STR	38'-3"	40
A245	1	#5	STR	34'-1"	36
A246	1	#5	STR	29'-11"	31
A247	1	#5	STR	25'-9"	27
A248	1	#5	STR	21'-7"	23
A249	1	#5	STR	17'-6"	18
A250	1	#5	STR	13'-4"	14
A251	1	#5	STR	9'-2"	10
A252	1	#5	STR	5'-0"	5
✱ B1	570	#5	STR	23'-0"	13674
B2	360	#5	STR	48'-1"	18054
✱ B3	429	#5	STR	28'-4"	12678
✱ B4	142	#5	STR	35'-0"	5184
✱ B5	144	#4	STR	30'-0"	2886
✱ B6	144	#4	STR	29'-0"	2790
✱ B8	72	#4	STR	27'-7"	1327
✱ B9	9	#4	STR	26'-10"	161
✱ B10	8	#4	STR	28'-4"	151
✱ B11	8	#4	STR	26'-8"	143
✱ B12	7	#4	STR	28'-5"	133
✱ B13	7	#4	STR	26'-7"	124
✱ B14	6	#4	STR	28'-7"	115
✱ B15	6	#4	STR	26'-5"	106
✱ B16	5	#4	STR	28'-10"	96
✱ B17	5	#4	STR	26'-3"	88
✱ B18	4	#4	STR	29'-1"	78
✱ B19	4	#4	STR	25'-11"	69
✱ G1	65	#4	STR	27'-5"	1190
✱ G2	4	#4	STR	26'-10"	72
✱ G3	4	#4	STR	26'-1"	70
✱ G4	4	#4	STR	25'-5"	68
✱ G5	4	#4	STR	24'-8"	66
✱ G6	4	#4	STR	24'-0"	64
✱ G7	4	#4	STR	23'-3"	62
✱ G8	4	#4	STR	22'-6"	60

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✱ G9	4	#4	STR	21'-10"	58
✱ G10	4	#4	STR	21'-1"	56
✱ G11	4	#4	STR	20'-5"	55
✱ G12	4	#4	STR	19'-8"	53
✱ G13	4	#4	STR	18'-11"	51
✱ G14	4	#4	STR	18'-3"	49
✱ G15	4	#4	STR	17'-6"	47
✱ G16	4	#4	STR	16'-10"	45
✱ G17	4	#4	STR	16'-1"	43
✱ G18	4	#4	STR	15'-5"	41
✱ G19	4	#4	STR	14'-8"	39
✱ G20	4	#4	STR	13'-11"	37
✱ G21	4	#4	STR	13'-3"	35
✱ G22	4	#4	STR	12'-6"	33
✱ G23	4	#4	STR	11'-10"	32
✱ G24	2	#4	STR	11'-5"	15
H1	45	#5	STR	14'-5"	677
H2	15	#5	STR	14'-3"	223
H3	15	#5	STR	13'-9"	215
H4	30	#5	STR	13'-11"	435
H5	15	#5	STR	14'-0"	219
K1	56	#4	STR	29'-11"	1119
K2	22	#4	STR	6'-6"	96
K3	110	#4	STR	8'-2"	600
K4	22	#4	STR	5'-1"	75
K5	4	#4	STR	5'-9"	15
K6	20	#4	STR	6'-7"	88
K7	16	#4	STR	3'-7"	38
K8	4	#4	STR	5'-1"	14
K9	28	#4	STR	26'-5"	494
K10	22	#4	STR	5'-6"	81
K11	110	#4	STR	8'-2"	600
K12	22	#4	STR	5'-1"	75
S1	506	#4	1	2'-9"	930
S2	12	#4	5	17'-0"	136
✱ S3	140	#4	2	11'-11"	1114
✱ S4	140	#4	2	10'-7"	990
U1	66	#4	4	17'-4"	764
U2	22	#4	3	11'-0"	162
U3	140	#4	5	14'-8"	1372
V1	72	#4	STR	5'-9"	277
REINFORCING STEEL				LBS.	69,004
✱ EPOXY COATED REINFORCING STEEL				LBS.	86,619

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

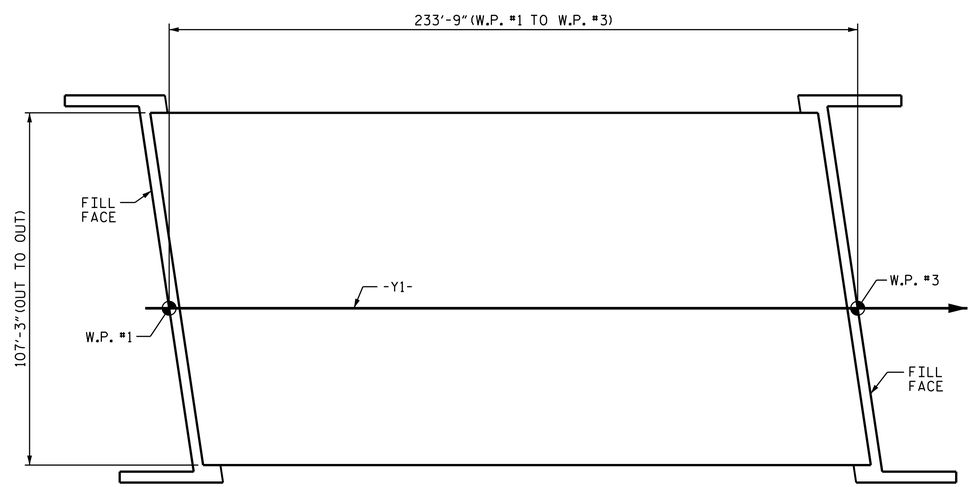
SUPERSTRUCTURE BILL OF MATERIAL

	CLASS AA CONCRETE	REINFORCING STEEL	EPOXY COATED REINFORCING STEEL
	(CU.YDS.)	(LBS.)	(LBS.)
POUR #1	243.4		
POUR #2	243.5		
POUR #3	193.9		
POUR #4	193.9		
POUR #5	234.8		
CONCRETE ISLAND	83.9		
TOTALS✱✱	1193.4	69,004	86,619

✱✱ QUANTITIES FOR BARRIER RAIL ARE NOT INCLUDED

GROOVING BRIDGE FLOORS

APPROACH SLABS	4,880	SQ.FT.
BRIDGE DECK	23,404	SQ.FT.
TOTAL	28,284	SQ.FT.



LAYOUT FOR COMPUTING AREA OF REINFORCED CONCRETE DECK SLAB (SQ. FT. = 25,070)

PROJECT NO. U-2579B
FORSYTH COUNTY
STATION: 482+13.14 -L-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD
SUPERSTRUCTURE
BILL OF MATERIAL

NORTH CAROLINA PROFESSIONAL SEAL 031480 ENGINEER DONALD R. SMITH, JR.
DocuSigned by: Donald R. Smith Jr.
43B435A14F38465...
7/30/2014

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-23
1			3			TOTAL SHEETS
2			4			707

STR. #1 STD. NO. BOM1

ASSEMBLED BY : M.K. BEARD DATE : 2/21/14
CHECKED BY : P.S. ADKINS DATE : 3/10/14

DRAWN BY : JMB 5/87
CHECKED BY : SJD 9/87

REV. 8/16/99 RWW/LES
REV. 5/1/06 TLA/GM
REV. 10/1/11 MAA/GM

29-JUL-2014 14:35
R:\Structures\Plans\Str01\U2579B_SD_BM_01.dgn
lsutton