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BILL OF MATERIAL

STAGE I

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✳ A1100	316	#5	STR	38'-3"	12607
✳ A1101	2	#5	STR	35'-5"	74
✳ A1102	2	#5	STR	32'-4"	67
✳ A1103	2	#5	STR	29'-3"	61
✳ A1104	2	#5	STR	26'-2"	55
✳ A1105	2	#5	STR	23'-2"	48
✳ A1106	2	#5	STR	20'-1"	42
✳ A1107	2	#5	STR	17'-0"	35
✳ A1108	2	#5	STR	13'-11"	29
✳ A1109	2	#5	STR	10'-10"	23
✳ A1110	2	#5	STR	7'-9"	16
✳ A1111	2	#5	STR	4'-8"	10
✳ A1112	2	#5	STR	1'-8"	3
A1200	316	#5	STR	38'-3"	12607
A1201	2	#5	STR	35'-5"	74
A1202	2	#5	STR	32'-4"	67
A1203	2	#5	STR	29'-3"	61
A1204	2	#5	STR	26'-2"	55
A1205	2	#5	STR	23'-2"	48
A1206	2	#5	STR	20'-1"	42
A1207	2	#5	STR	17'-0"	35
A1208	2	#5	STR	13'-11"	29
A1209	2	#5	STR	10'-10"	23
A1210	2	#5	STR	7'-9"	16
A1211	2	#5	STR	4'-8"	10
A1212	2	#5	STR	1'-8"	3

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B101	31	#5	STR	43'-9"	1415
B102	31	#5	STR	56'-0"	1811
B103	26	#5	STR	46'-0"	1247
B104	62	#5	STR	41'-11"	2711
✳ B105	54	#4	STR	21'-6"	776
✳ B106	27	#5	STR	55'-0"	1549
✳ B107	27	#5	STR	12'-5"	350
✳ B108	51	#5	STR	38'-0"	2021
✳ B109	54	#4	STR	39'-1"	1410
✳ D1	326	#6	STR	5'-10"	2856
D2	326	#6	STR	5'-5"	2652
✳ G101	2	#5	STR	38'-10"	81
✳ J1	76	#4	6	1'-5"	72
✳ K101	4	#8	1	12'-0"	128
✳ K102	8	#8	2	17'-5"	372
✳ K103	4	#8	1	11'-1"	118
✳ K104	12	#6	3	11'-2"	201
✳ K105	18	#6	STR	6'-8"	180
✳ S1	42	#4	4	3'-7"	101
S2	42	#5	5	5'-11"	259
REINFORCING STEEL					23165 LB
✳ EPOXY COATED REINFORCING STEEL					23285 LB

✳ INDICATES EPOXY COATED REINFORCING STEEL

STAGE II

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✳ A2100	318	#5	STR	32'-8"	10835
✳ A2101	2	#5	STR	29'-6"	62
✳ A2102	2	#5	STR	26'-6"	55
✳ A2103	2	#5	STR	23'-5"	49
✳ A2104	2	#5	STR	20'-4"	42
✳ A2105	2	#5	STR	17'-3"	36
✳ A2106	2	#5	STR	14'-2"	30
✳ A2107	2	#5	STR	11'-1"	23
✳ A2108	2	#5	STR	8'-0"	17
✳ A2109	2	#5	STR	5'-0"	10
✳ A2110	2	#5	STR	1'-11"	4
A2200	318	#5	STR	32'-8"	10835
A2201	2	#5	STR	29'-6"	62
A2202	2	#5	STR	26'-6"	55
A2203	2	#5	STR	23'-5"	49
A2204	2	#5	STR	20'-4"	42
A2205	2	#5	STR	17'-3"	36
A2206	2	#5	STR	14'-2"	30
A2207	2	#5	STR	11'-1"	23
A2208	2	#5	STR	8'-0"	17
A2209	2	#5	STR	5'-0"	10
A2210	2	#5	STR	1'-11"	4
B201	23	#5	STR	43'-9"	1050
B202	23	#5	STR	56'-0"	1343
B203	18	#5	STR	46'-0"	864
B204	46	#5	STR	41'-11"	2011
✳ B205	48	#4	STR	21'-6"	689
✳ B206	24	#5	STR	55'-0"	1377
✳ B207	24	#5	STR	12'-5"	311
✳ B208	42	#5	STR	38'-0"	1665

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✳ B209	48	#4	STR	39'-1"	1253
B1	5	#5	STR	43'-9"	228
B2	5	#5	STR	56'-0"	292
B3	4	#5	STR	46'-0"	192
B4	10	#5	STR	41'-11"	437
✳ B5	6	#4	STR	21'-6"	86
✳ B6	3	#5	STR	55'-0"	172
✳ B7	3	#5	STR	12'-5"	39
✳ B8	4	#5	STR	38'-0"	159
✳ B9	6	#4	STR	39'-1"	157
✳ D1	652	#6	STR	5'-10"	5713
D2	652	#6	STR	5'-5"	5305
✳ G201	2	#5	STR	33'-2"	69
✳ J1	72	#4	6	1'-5"	68
✳ K201	8	#8	1	10'-4"	221
✳ K202	8	#8	2	15'-11"	340
✳ K203	12	#6	3	9'-7"	173
✳ K204	18	#6	STR	5'-0"	135
✳ S1	30	#4	4	3'-7"	72
S2	30	#5	5	5'-11"	185
REINFORCING STEEL					23070 LB
✳ EPOXY COATED REINFORCING STEEL					23862 LB

STAGE III

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✳ A3100	318	#5	STR	31'-11"	10586
✳ A3101	2	#5	STR	29'-0"	60
✳ A3102	2	#5	STR	25'-11"	54
✳ A3103	2	#5	STR	22'-11"	48
✳ A3104	2	#5	STR	19'-10"	41
✳ A3105	2	#5	STR	16'-9"	35
✳ A3106	2	#5	STR	13'-8"	29
✳ A3107	2	#5	STR	10'-7"	22
✳ A3108	2	#5	STR	7'-6"	16
✳ A3109	2	#5	STR	4'-5"	9
✳ A3110	2	#5	STR	1'-5"	3
A3200	632	#5	STR	36'-8"	24170
A3201	4	#5	STR	34'-7"	144
A3202	4	#5	STR	31'-6"	131
A3203	4	#5	STR	28'-5"	119
A3204	4	#5	STR	25'-5"	106
A3205	4	#5	STR	22'-4"	93
A3206	4	#5	STR	19'-3"	80
A3207	4	#5	STR	16'-2"	67
A3208	4	#5	STR	13'-1"	55
A3209	4	#5	STR	10'-0"	42
A3210	4	#5	STR	6'-11"	29
A3211	4	#5	STR	3'-11"	16
✳ A3300	315	#5	STR	41'-10"	13744
✳ A3301	2	#5	STR	38'-8"	81
✳ A3302	2	#5	STR	35'-7"	74
✳ A3303	2	#5	STR	32'-6"	68
✳ A3304	2	#5	STR	29'-6"	62
✳ A3305	2	#5	STR	26'-5"	55
✳ A3306	2	#5	STR	23'-4"	49
✳ A3307	2	#5	STR	20'-3"	42
✳ A3308	2	#5	STR	17'-2"	36
✳ A3309	2	#5	STR	14'-1"	29
✳ A3310	2	#5	STR	11'-0"	23
✳ A3311	2	#5	STR	7'-11"	17
✳ A3312	2	#5	STR	4'-11"	10

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B301	58	#5	STR	43'-9"	2647
B302	58	#5	STR	56'-0"	3388
B303	50	#5	STR	46'-0"	2399
B304	116	#5	STR	41'-11"	5071
✳ B305	98	#4	STR	21'-6"	1407
✳ B306	49	#5	STR	55'-0"	2811
✳ B307	49	#5	STR	12'-5"	635
✳ B308	95	#5	STR	38'-0"	3765
✳ B309	98	#4	STR	39'-1"	2559
B1	5	#5	STR	43'-9"	228
B2	5	#5	STR	56'-0"	292
B3	4	#5	STR	46'-0"	192
B4	10	#5	STR	41'-11"	437
✳ B5	6	#4	STR	21'-6"	86
✳ B6	3	#5	STR	55'-0"	172
✳ B7	3	#5	STR	12'-5"	39
✳ B8	4	#5	STR	38'-0"	159
✳ B9	6	#4	STR	39'-1"	157
✳ D1	326	#6	STR	5'-10"	2856
D2	326	#6	STR	5'-5"	2652
✳ G301	4	#5	STR	37'-2"	155
✳ J1	150	#4	6	1'-5"	142
✳ K301	4	#8	1	12'-1"	129
✳ K302	20	#8	2	17'-7"	939
✳ K303	4	#8	1	11'-2"	119
✳ K304	24	#6	3	11'-2"	403
✳ K305	36	#6	STR	6'-8"	360
✳ S1	84	#4	4	3'-7"	201
S2	84	#5	5	5'-11"	518
REINFORCING STEEL					42876 LB
✳ EPOXY COATED REINFORCING STEEL					42287 LB

SUPERSTRUCTURE BILL OF MATERIAL

	CLASS "AA" CONCRETE CY		
	STAGE I	STAGE II	STAGE III
POUR 1	204.6	--	--
POUR 2	21.2	--	--
POUR 3	--	175.8	--
POUR 4	--	18.2	--
POUR 5	--	18.5	--
POUR 6	--	--	377.4
POUR 7	--	--	39.0
POUR 8	--	--	18.5
SUBTOTAL	225.8	212.5	434.9
TOTAL ✳✳	873.2		

	REINFORCING STEEL LB
STAGE I	23,165
STAGE II	23,070
STAGE III	42,876
TOTAL	89,111

	EPOXY REINFORCING STEEL LB
STAGE I	23,285
STAGE II	23,862
STAGE III	42,287
TOTAL ✳✳	89,434

✳✳ QUANTITIES FOR CONCRETE BARRIER RAILS AND CONCRETE MEDIAN BARRIER ARE NOT INCLUDED.

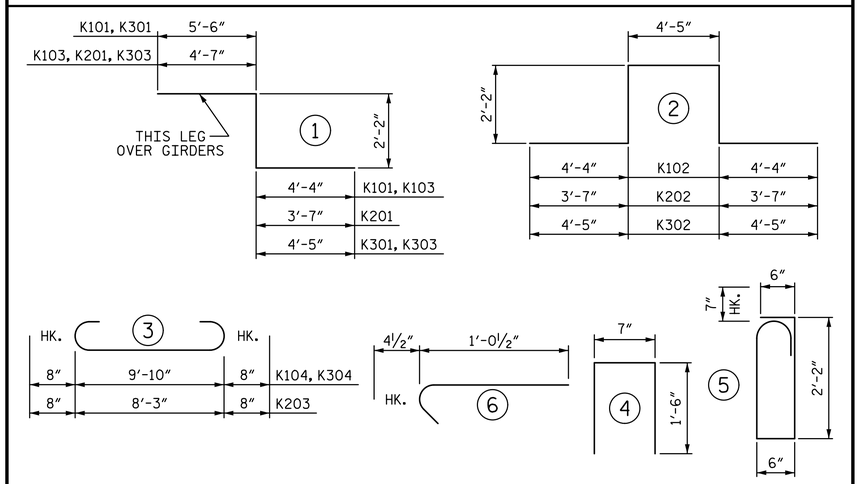
GROOVING BRIDGE FLOORS

	STAGE I	STAGE II	STAGE III
APPROACH SLAB	1,691	1,586	3,277
DECK SLAB	6,279	5,888	12,167
SUBTOTAL	7,970	7,474	15,444
TOTAL	30,888		

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	1'-11"	1'-7"	1'-11"	1'-7"	2'-6"
#5	2'-5"	2'-0"	2'-5"	2'-0"	3'-1"
#6	2'-10"	2'-5"	3'-7"	2'-5"	3'-8"
#7	4'-2"	2'-9"			
#8	4'-9"	3'-2"			

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

PROJECT NO. I-5987B

ROBESON COUNTY

STATION: 803+15.00 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE

BILL OF MATERIAL

WGI
5640 Dillard Drive, Suite 200
Cary, NC 27518
LICENSURE NO. C-4434

NORTH CAROLINA PROFESSIONAL SEAL 18056 ENGINEER JOHN A. BATTS
3/21/2022

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS								SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:			S9-42
1			3					TOTAL SHEETS
2			4					69

DRAWN BY: T. BANKOVICH DATE: 3-22
CHECKED BY: J.A. BATTS DATE: 3-22
DESIGN ENGINEER OF RECORD: J.A. BATTS DATE: 3-22

3/18/2022 11:06:38 AM G:\Projects\2020\Division 6 (Mott Mac - NV5)\I-5987B\Structures\Site 9 (L over Little Marsh Swamp)\Drawings\Final\I5987B_SMU_BM_770164.dgn