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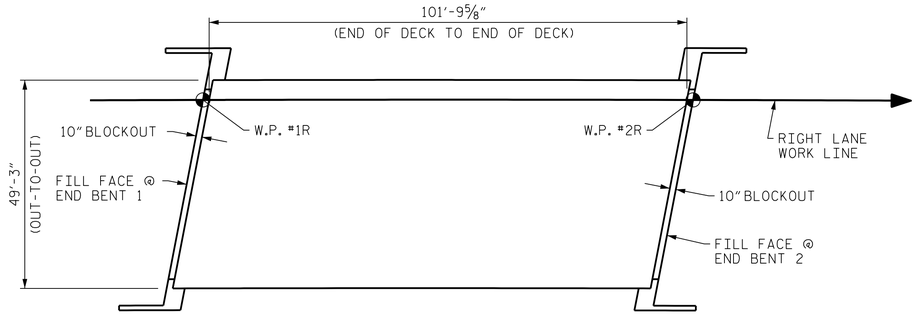
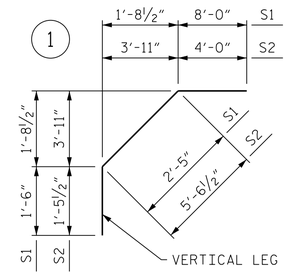
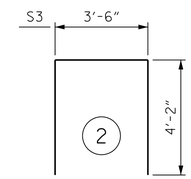


LAYOUT FOR COMPUTING AREA
REINFORCED CONCRETE DECK SLAB
(SQ. FT. = 5,014)

BAR TYPES





ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
✳ A1	170	5	STR	48'-10"	8659
✳ A101	2	5	STR	47'-1"	98
✳ A102	2	5	STR	44'-3"	92
✳ A103	2	5	STR	41'-6"	87
✳ A104	2	5	STR	38'-8"	81
✳ A105	2	5	STR	35'-10"	75
✳ A106	2	5	STR	33'-1"	69
✳ A107	2	5	STR	30'-3"	63
✳ A108	2	5	STR	27'-5"	57
✳ A109	2	5	STR	24'-8"	51
✳ A110	2	5	STR	21'-10"	46
✳ A111	2	5	STR	19'-1"	40
✳ A112	2	5	STR	16'-3"	34
✳ A113	2	5	STR	13'-5"	28
✳ A114	2	5	STR	10'-8"	22
✳ A115	2	5	STR	7'-10"	16
✳ A116	2	5	STR	5'-0"	10
✳ A117	2	5	STR	2'-3"	5
A2	170	5	STR	48'-10"	8659
A201	2	5	STR	47'-1"	98
A202	2	5	STR	44'-3"	92
A203	2	5	STR	41'-6"	87
A204	2	5	STR	38'-8"	81
A205	2	5	STR	35'-10"	75
A206	2	5	STR	33'-1"	69
A207	2	5	STR	30'-3"	63
A208	2	5	STR	27'-5"	57
A209	2	5	STR	24'-8"	51
A210	2	5	STR	21'-10"	46
A211	2	5	STR	19'-1"	40
A212	2	5	STR	16'-3"	34
A213	2	5	STR	13'-5"	28
A214	2	5	STR	10'-8"	22
A215	2	5	STR	7'-10"	16
A216	2	5	STR	5'-0"	10
A217	2	5	STR	2'-3"	5

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
B1	110	5	STR	51'-9"	5937
✳ B2	64	4	STR	33'-1"	1414
✳ B3	6	5	STR	35'-6"	222
✳ B4	258	5	STR	20'-7"	5539
K1	20	4	STR	25'-8"	343
K2	10	4	STR	6'-1"	41
K3	10	4	STR	7'-2"	48
K4	20	4	STR	7'-7"	101
K5	10	4	STR	6'-7"	44
K6	4	4	STR	2'-2"	6
K7	8	4	STR	2'-9"	15
K8	4	4	STR	2'-5"	6
K9	4	4	STR	1'-11"	5
✳ S1	82	4	1	11'-11"	653
✳ S2	74	4	1	11'-0"	544
S3	82	4	2	11'-10"	648

REINFORCING STEEL = 16,727 LBS.

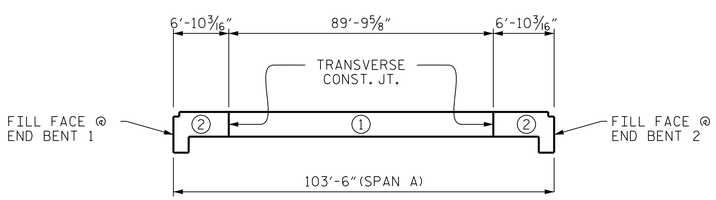
✳ EPOXY COATED
REINFORCING STEEL = 17,905 LBS.

GROOVING BRIDGE FLOORS

APPROACH SLABS	2,078 SQ. FT.
BRIDGE DECK	4,363 SQ. FT.
TOTAL	6,441 SQ. FT.

SUPERSTRUCTURE BILL OF MATERIAL

	CLASS AA CONCRETE	REINFORCING STEEL	EPOXY COATED REINFORCING STEEL
	(CU. YDS.)	(LBS.)	(LBS.)
POUR #1	140.2	16,727	17,905
POUR #2	78.8		
TOTALS ✳✳	219.0	16,727	17,905



POUR SEQUENCE

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

BAR SIZE	SUPERSTRUCTURE EXCEPT APPROACH SLABS, PARAPETS, AND BARRIER RAILS		APPROACH SLABS		PARAPETS AND BARRIER RAILS
	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"			

PROJECT NO. R-2233BB
RUTHERFORD COUNTY
STATION: 774+41.49 -L3-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
BILL OF MATERIAL

MODJESKI and MASTERS
Experience great bridges.
333 FAYETTEVILLE STREET, SUITE 500
RALEIGH, NC 27601
NC LICENSE NO. C-2979

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

NORTH CAROLINA PROFESSIONAL SEAL 032967 ENGINEER JASON R. DOUGHTY
4/22/2020
DocuSigned by: Jason R Doughty
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DESIGNED BY:	A. DUTTA	DATE :	AUG 2019
DRAWN BY:	K. WHITE	DATE :	JULY 2019
CHECKED BY:	J. BORUTA	DATE :	SEPT 2019
DESIGN ENGINEER OF RECORD:	J. DOUGHTY	DATE :	NOV 2019

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-19
1			3			TOTAL SHEETS
2			4			28

STR. #2

4/22/2020
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