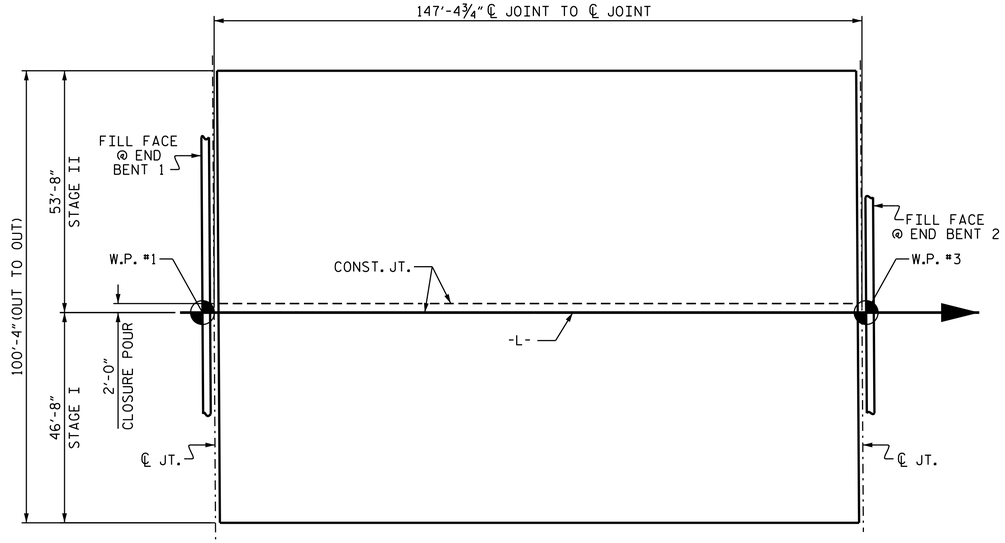


LAYOUT FOR COMPUTING AREA
REINFORCED CONCRETE DECK SLAB
STAGE I = 6,878 SQ. FT.
STAGE II = 7,910 SQ. FT.
TOTAL = 14,788 SQ. FT.

BILL OF MATERIAL

STAGE I

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✱A1	295	#5	STR	46'-4"	14256
A2	295	#5	STR	46'-4"	14256
✱B1	128	#4	STR	24'-3"	2073
B2	177	#5	STR	50'-6"	9323
✱B3	63	#5	STR	58'-0"	3811
✱B4	61	#5	STR	24'-0"	1527
✱B11	30	#4	STR	26'-2"	524
✱D1	147	#6	STR	3'-9"	828
G1	2	#5	STR	46'-4"	97
✱G11	147	#4	STR	5'-0"	491
J1	90	#4	1	1'-5"	85
K1	4	#8	2	11'-2"	119
K2	16	#8	3	16'-5"	701
K3	20	#6	STR	6'-10"	205
K4	4	#8	2	8'-11"	95
K5	20	#4	STR	7'-7"	101
K6	10	#4	STR	5'-2"	35
K7	10	#4	STR	6'-10"	46
K8	8	#4	STR	22'-10"	122
✱S1	70	#5	4	5'-0"	365
✱S2	70	#4	5	3'-9"	175
S3	110	#4	6	2'-9"	202
U1	30	#4	7	11'-10"	237
U2	10	#4	7	9'-10"	66
✱U11	42	#4	5	3'-4"	94

REINFORCING STEEL 25,690 LBS.

✱EPOXY COATED REINFORCING STEEL 24,144 LBS.

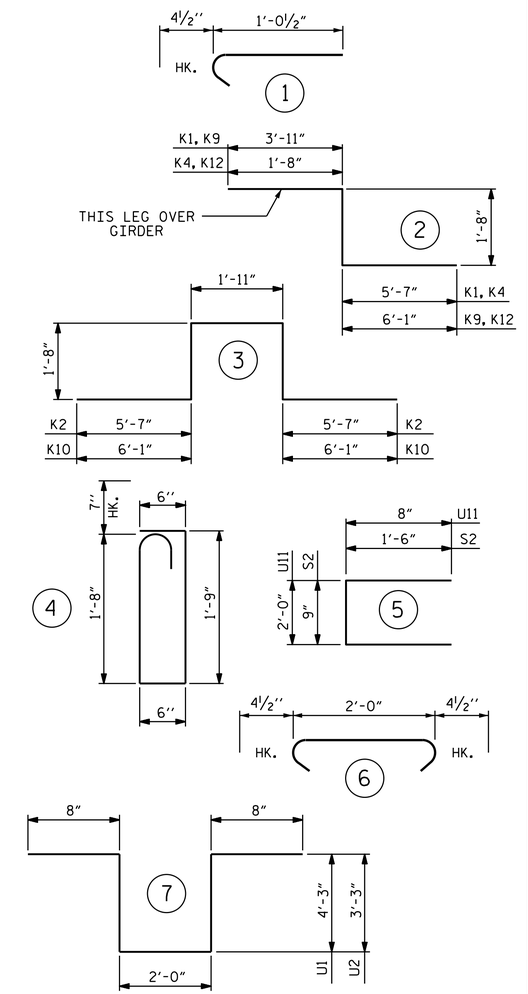
STAGE II

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✱A3	295	#5	STR	51'-4"	15795
A4	295	#5	STR	51'-4"	15795
✱B1	148	#4	STR	24'-3"	2397
B2	201	#5	STR	50'-6"	10587
✱B3	71	#5	STR	58'-0"	4295
✱B4	70	#5	STR	24'-0"	1752
✱B11	30	#4	STR	26'-2"	524
✱B12	18	#4	STR	26'-3"	316
✱D1	147	#6	STR	3'-9"	828
G2	2	#5	STR	51'-4"	107
G3	2	#5	STR	1'-8"	3
✱G11	147	#4	STR	5'-0"	491
✱G12	98	#4	STR	3'-2"	207
J1	104	#4	1	1'-5"	98
K9	4	#8	2	11'-8"	125
K10	16	#8	3	17'-5"	744
K11	20	#6	STR	7'-10"	235
K12	4	#8	2	9'-5"	101
K13	8	#4	STR	25'-4"	135
K14	20	#4	STR	8'-7"	115
K15	10	#4	STR	6'-2"	41
K16	10	#4	STR	7'-10"	52
✱S1	80	#5	4	5'-0"	417
✱S2	80	#4	5	3'-9"	200
S3	110	#4	6	2'-9"	202
U1	30	#4	7	11'-10"	237
U2	10	#4	7	9'-10"	66
✱U11	42	#4	5	3'-4"	94

REINFORCING STEEL 28,643 LBS.

✱EPOXY COATED REINFORCING STEEL 27,316 LBS.

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

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"			

SUPERSTRUCTURE BILL OF MATERIAL

		CLASS AA CONCRETE (CU. YDS.)	REINFORCING STEEL (LBS.)	✱EPOXY COATED REINFORCING STEEL (LBS.)
STAGE I	POUR 1	97.6	25,690	24,144
	POUR 2	139.5		
	POUR 3	13.4		
	SIDEWALK	18.1		
	STAGE I TOTAL	268.6		
STAGE II	POUR 1	107.5	28,643	27,316
	POUR 2	154.0		
	POUR 3	14.9		
	POUR 4	11.4		
	SIDEWALK	18.1		
	CONCRETE ISLAND	8.1		
	STAGE II TOTAL	314.0		
TOTALS ✱✱		582.6	54,333	51,460

✱✱QUANTITIES FOR CLASSIC CONCRETE BRIDGE RAIL ARE NOT INCLUDED

GROOVING BRIDGE FLOORS

	STAGE I SQ. FT.	STAGE II SQ. FT.	TOTAL SQ .FT.
APPROACH SLABS	1,691	1,976	3,667
BRIDGE DECK	5,192	6,069	11,261
TOTAL	6,883	8,045	14,928

PROJECT NO. B-3159
DAVIDSON COUNTY
STATION: 13+41.72 -L-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD
SUPERSTRUCTURE BILL OF MATERIAL

NORTH CAROLINA PROFESSIONAL SEAL 10730 ENGINEER D. ANDRÉ DAVENPORT, JR.
DocuSigned by: D. André Davenport, Jr. B95DC284F664495...
8/24/2015

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-26
1			3			TOTAL SHEETS
2			4			43

ASSEMBLED BY : M.K. BEARD	DATE : 8/25/14	
CHECKED BY : J.D. HAWK	DATE : 2/12/15	
DRAWN BY : JMB 5/87	REV. 8/16/99	RWW/LES
CHECKED BY : SJD 9/87	REV. 5/1/06	TLA/GM
	REV. 10/1/11	MAA/GM

24-AUG-2015 12:27
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STD. NO. BOM2