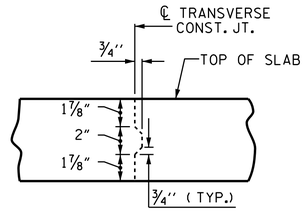
SUPERSTRUCTURE REINFORCING STEEL LENGTHS ARE BASED ON THE FOLLOWING MINIMUM SPLICE LENGTHS

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"			



TRANSVERSE CONSTRUCTION JOINT DETAIL

NOTE: REINFORCING STEEL IN SLAB NOT SHOWN. LONGITUDINAL REINFORCING STEEL SHALL BE CONTINUOUS THRU JOINT

GROOVING BRIDGE FLOORS

APPROACH SLABS	1595	SQ.FT.
BRIDGE DECK	44,320	SQ.FT.
TOTAL	45,915	SQ.FT.

SUPERSTRUCTURE BILL OF MATERIAL

	CLASS AA CONCRETE	EPOXY COATED REINFORCING STEEL
	(CU. YDS.)	(LBS.)
SPANS "A-B-C"	310.1	58,555
SPANS "D-E-F"	288.8	54,855
SPANS "G-H-I"	288.8	54,855
SPANS "J-K-L"	288.8	54,855
SPANS "M-N-O"	310.1	58,555
TOTAL **	1486.6	281,675

** QUANTITIES FOR PARAPET ARE NOT INCLUDED

CLASS AA CONCRETE BREAKDOWN

CONTINUOUS SPANS "A-B-C"		CONTINUOUS SPANS "D-E-F"		CONTINUOUS SPANS "G-H-I"		CONTINUOUS SPANS "J-K-L"		CONTINUOUS SPANS "M-N-O"	
	(CU. YDS.)		(CU. YDS.)		(CU. YDS.)		(CU. YDS.)		(CU. YDS.)
POUR 1	75.0	POUR 1	79.0	POUR 1	79.0	POUR 1	79.0	POUR 1	75.0
POUR 2	99.0	POUR 2	99.0	POUR 2	99.0	POUR 2	99.0	POUR 2	99.0
POUR 3	102.0	POUR 3	102.0	POUR 3	102.0	POUR 3	102.0	POUR 3	102.0
POUR 4 ✡	34.1	POUR 4	8.8	POUR 4	8.8	POUR 4	8.8	POUR 4	34.1
TOTAL **	310.1	TOTAL **	288.8	TOTAL **	288.8	TOTAL **	288.8	TOTAL **	310.1

✡ POUR 4 QUANTITY INCLUDES UPPER POUR OF WINGS & INTEGRAL END BENT

BILL OF MATERIAL

SPANS "A-B-C" / SPANS "M-N-O"

REINFORCING STEEL FOR ONE CONTINUOUS SPAN ONLY TWO REQUIRED

BAR	No.	SIZE	TYPE	LENGTH	WEIGHT
* A1	587	#5	STR.	38'-1"	23316
* A2	360	#5	STR.	3'-8"	1377
* B1	101	#7	STR.	18'-0"	3716
* B2	102	#4	STR.	23'-0"	1567
* B3	102	#7	STR.	50'-0"	10424
* B4	100	#7	STR.	27'-0"	5519
* B5	102	#7	STR.	19'-3"	4013
* B6	51	#4	STR.	30'-0"	1022
* B7	153	#4	STR.	21'-3"	2172
* B8	50	#5	STR.	56'-0"	2920
* H1	28	#4	STR.	9'-9"	182
* J1	37	#4	1	1'-5"	35
* K1	10	#4	STR	23'-1"	154
* K2	3	#4	STR	7'-10"	16
* K3	3	#4	STR.	8'-9"	18
* K4	6	#4	STR.	9'-3"	37
* K5	3	#4	STR.	8'-4"	17
* K6	2	#4	STR.	5'-1"	7
* K7	2	#4	STR.	5'-5"	7
* K8	4	#4	STR.	5'-10"	16
* K9	2	#4	STR.	5'-4"	7
* K10	8	#4	STR.	2'-6"	13
* K11	20	#4	STR.	16'-10"	225
* K12	12	#4	STR.	6'-7"	53
* K13	12	#4	STR.	8'-9"	70
* K14	24	#4	STR.	9'-5"	151
* K15	12	#4	STR.	8'-5"	67
* K16	4	#8	2	14'-6"	155
* K17	4	#8	3	22'-4"	239
* S1	31	#4	4	11'-11"	247
* S2	31	#4	4	10'-1"	209
* S3	204	#4	5	2'-7"	352
* S4	27	#5	6	5'-11"	167
* S5	42	#4	8	14'-4"	402
* S6	12	#4	8	12'-4"	99
* U1	33	#4	7	10'-7"	233
* U2	6	#4	7	13'-3"	53
* V1	4	#4	STR	4'-1"	11

* EPOXY COATED REINFORCING STEEL 59288 LBS.

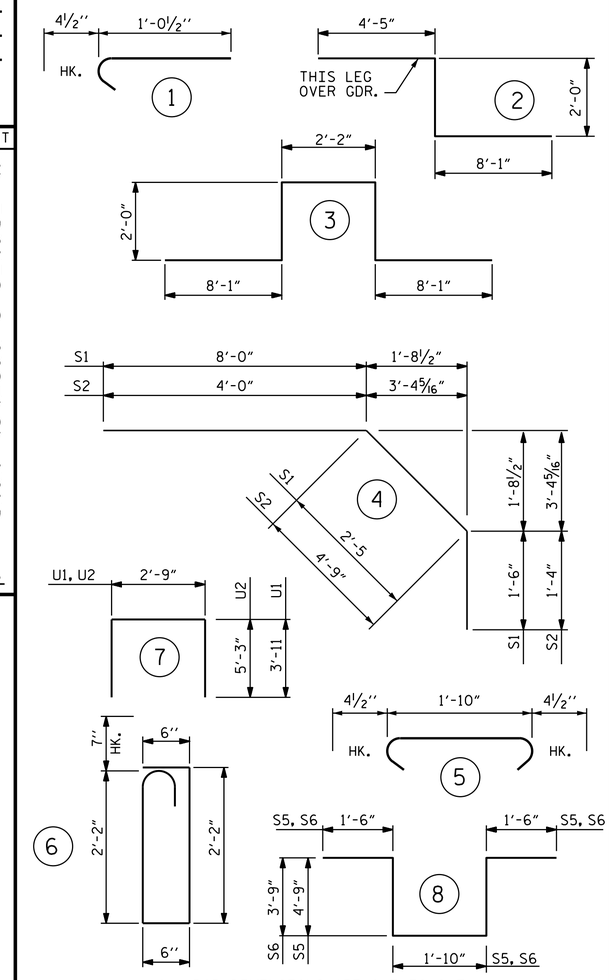
SPANS "D-E-F" / SPANS "G-H-I" / SPANS "J-K-L"

REINFORCING STEEL FOR ONE CONTINUOUS SPAN ONLY THREE REQUIRED

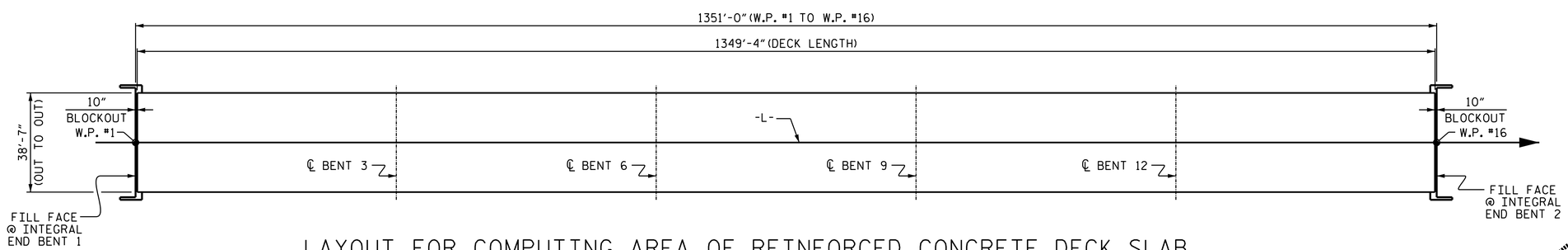
BAR	No.	SIZE	TYPE	LENGTH	WEIGHT
* A1	587	#5	STR.	38'-1"	23316
* A2	360	#5	STR.	3'-8"	1377
* B3	102	#7	STR.	50'-0"	10424
* B4	100	#7	STR.	27'-0"	5519
* B5	102	#7	STR.	19'-3"	4013
* B6	51	#4	STR.	30'-0"	1022
* B7	306	#4	STR.	21'-3"	4344
* B8	50	#5	STR.	56'-0"	2920
* J1	74	#4	1	1'-5"	70
* K11	20	#4	STR.	16'-10"	225
* K12	12	#4	STR.	6'-7"	53
* K13	12	#4	STR.	8'-9"	70
* K14	24	#4	STR.	9'-5"	151
* K15	12	#4	STR.	8'-5"	67
* K16	8	#8	2	14'-6"	310
* K17	8	#8	3	22'-4"	477
* S3	204	#4	5	2'-7"	352
* S4	54	#5	6	5'-11"	333
* S5	42	#4	8	14'-4"	402
* S6	12	#4	8	12'-4"	99

* EPOXY COATED REINFORCING STEEL 55544 LBS.

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.



LAYOUT FOR COMPUTING AREA OF REINFORCED CONCRETE DECK SLAB (SQ. FT. = 52,126)

PROJECT NO. B-4722B
CARTERET COUNTY
STATION: 47+75.00 -L-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
BILL OF MATERIAL

NORTH CAROLINA PROFESSIONAL SEAL 22005 ENGINEER A. KEITH PASCHAL

DocuSigned by: A. Keith Paschal F8B6AD6DB2FC48F... 1/16/2015

ASSEMBLED BY :	D. G. ELY	DATE : 4/15/14
CHECKED BY :	B. N. BARODAWALA	DATE : 5/19/14
DESIGN ENGINEER OF RECORD:	M. M. AHMED	DATE : 10/14/14

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	

REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. S-32
TOTAL SHEETS 45

16-JAN-2015 15:10
R:\structures\Final Plans\B4722B_sd_BOM.dgn
kpaschal