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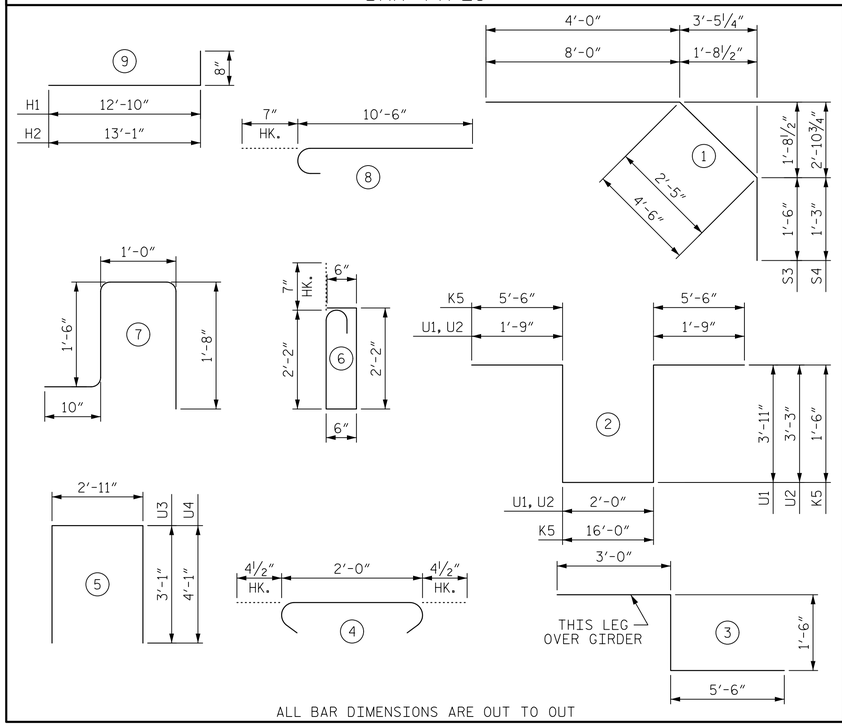
SUPERSTRUCTURE REINFORCING STEEL LENGTHS ARE BASED ON THE FOLLOWING MINIMUM SPLICE LENGTHS

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″			

CLASS AA CONCRETE BREAKDOWN

POUR #1 (SPAN A & B)	116.2	CU. YDS.
POUR #2 (SPAN A)	26.3	CU. YDS.
POUR #3 (SPAN H & I)	112.4	CU. YDS.
POUR #4 (SPAN G & H)	84.1	CU. YDS.
POUR #5 (SPAN I)	26.3	CU. YDS.
POUR #6 (SPAN C)	144.9	CU. YDS.
POUR #7 (SPAN C)	73.8	CU. YDS.
POUR #8 (SPAN B & C)	6.3	CU. YDS.
POUR #9 (SPANS F)	144.9	CU. YDS.
POUR #10 (SPAN F)	73.8	CU. YDS.
POUR #11 (SPAN F & G)	6.3	CU. YDS.
POUR #12 (SPANS D)	144.9	CU. YDS.
POUR #13 (SPAN D)	73.8	CU. YDS.
POUR #14 (SPAN C & D)	6.1	CU. YDS.
POUR #15 (SPAN E)	144.9	CU. YDS.
POUR #16 (SPAN E)	73.8	CU. YDS.
POUR #17 (SPAN D, E & F)	12.2	CU. YDS.

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

WEST APPROACH SPANS					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✳ A1	216	5	STR	38′-11″	8767
✳ A2	432	5	8	11′-1″	4994
A3	216	5	STR	7′-3″	1633
✳ B1	51	6	STR	9′-0″	689
✳ B2	52	4	STR	25′-6″	886
✳ B3	52	7	STR	43′-0″	4570
✳ B4	51	7	STR	16′-9″	1746
✳ B5	104	4	STR	22′-11″	1592
B9	60	5	STR	55′-3″	3458
✳ G1	1	5	STR	38′-11″	41
H1	14	5	9	13′-6″	197
H2	14	5	9	13′-9″	201
K1	18	4	STR	5′-8″	68
K2	6	4	STR	4′-10″	19
K3	4	4	STR	29′-8″	79
✳ K4	4	8	3	10′-0″	107
✳ K5	4	8	2	17′-6″	187
K6	18	4	STR	5′-8″	68
K7	8	4	STR	24′-6″	131
K8	2	4	STR	2′-9″	4
K9	8	4	STR	7′-4″	39
S1	54	4	4	2′-9″	99
S2	18	5	6	4′-3″	80
✳ S3	18	4	1	11′-11″	143
✳ S4	18	4	1	9′-9″	117
✳ S5	224	5	7	5′-0″	1168
U1	12	4	2	13′-4″	107
U2	6	4	2	12′-0″	48
U3	28	4	5	9′-1″	170
U4	6	4	5	12′-1″	48
REINFORCING STEEL					6,743 LBS.
✳ EPOXY COATED REINF. STEEL					24,713 LBS.

ARCH SPANS (4 TOTAL)					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✳ A1	419	5	STR	38′-11″	17007
✳ A2	838	5	8	11′-1″	9687
A3	419	5	STR	7′-3″	3168
✳ B11	416	4	STR	28′-1″	7804
✳ B12	204	6	STR	54′-10″	16801
B13	120	5	STR	54′-4″	6800
✳ G1	2	5	STR	38′-11″	82
✳ K4	32	8	3	10′-0″	427
✳ K5	32	8	2	17′-6″	748
K6	12	4	STR	5′-8″	45
S2	36	5	6	4′-3″	160
✳ S5	428	5	7	5′-0″	2232
REINFORCING STEEL					10,173 LBS.
✳ EPOXY COATED REINF. STEEL					54,788 LBS.

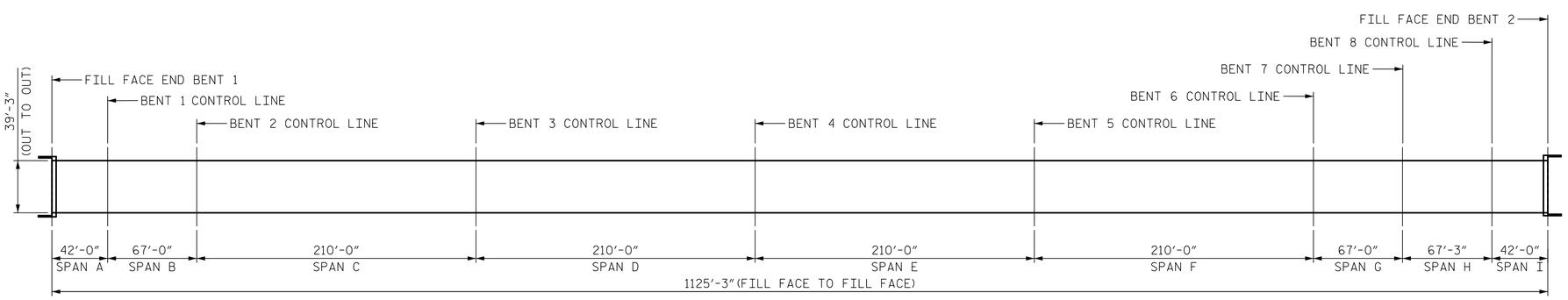
EAST APPROACH SPANS					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✳ A1	351	5	STR	38′-11″	14247
✳ A2	702	5	8	11′-1″	8115
A3	351	5	STR	7′-3″	2654
✳ B1	51	6	STR	9′-0″	689
✳ B2	52	4	STR	25′-6″	886
✳ B3	52	7	STR	43′-0″	4570
✳ B4	51	7	STR	16′-9″	1746
✳ B5	104	4	STR	22′-11″	1592
✳ B6	52	7	STR	50′-6″	5368
✳ B7	51	7	STR	20′-6″	2137
✳ B8	52	4	STR	21′-0″	729
B10	120	5	STR	45′-9″	5726
✳ G1	1	5	STR	38′-11″	41
H1	14	5	9	13′-6″	197
H2	14	5	9	13′-9″	201
K1	36	4	STR	5′-8″	136
K2	12	4	STR	4′-10″	38
K3	8	4	3	29′-8″	158
✳ K4	4	8	2	10′-0″	107
✳ K5	4	8	STR	17′-6″	187
K6	18	4	STR	5′-8″	68
K7	8	4	STR	24′-6″	131
K8	2	4	STR	2′-9″	4
K9	8	4	STR	7′-4″	39
S1	108	4	4	2′-9″	198
S2	18	5	6	4′-3″	80
✳ S3	18	4	1	11′-11″	143
✳ S4	18	4	1	9′-9″	117
✳ S5	362	5	7	5′-0″	1888
U1	24	4	2	13′-4″	214
U2	12	4	2	12′-0″	96
U3	28	4	5	9′-1″	170
U4	6	4	5	12′-1″	48
REINFORCING STEEL					10,158 LBS.
✳ EPOXY COATED REINF. STEEL					42,562 LBS.

SUPERSTRUCTURE BILL OF MATERIAL

	CLASS AA CONCRETE	REINFORCING STEEL	EPOXY COATED REINFORCING STEEL
	(CU. YDS.)	(LBS.)	(LBS.)
WEST APPROACH (SPANS A & B)	128.0	7,911	23,545
ARCH SPANS (SPANS C, D, E & F)	899.9	49,620	210,224
EAST APPROACH (SPANS G, H & I)	210.8	12,046	40,674

GROOVING BRIDGE FLOORS

WEST APPROACH DECK	4,673	SQ. FT.
ARCH SPANS DECK	6,892	SQ. FT.
EAST APPROACH DECK	27,572	SQ. FT.
TOTAL	39,137	SQ. FT.



LAYOUT FOR COMPUTING AREA OF REINFORCED CONCRETE DECK SLAB
(SQ. FT. = 44,245.78)

PROJECT NO. B-4974
STANLY/MONTGOMERY COUNTY
STATION: 339+86.39 -L-

AECOM
AECOM TECHNICAL SERVICES, INC.
701 CORPORATE CENTER DRIVE, SUITE 475
RALEIGH, NC 27607
(919) 854-6200 www.aecom.com
AECOM License No. F-0342

NORTH CAROLINA PROFESSIONAL SEAL 035062 ENGINEER JOHN E. SLONE
Digitally signed by
DocuSigned by:
8/30/2018

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE

BILL OF MATERIAL

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-60
1			3			TOTAL SHEETS
2			4			148

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DRAWN BY :	K. DONALD	DATE :	10/2017
CHECKED BY :	J.C. MORRISON	DATE :	11/2017
DESIGNED BY :	K. DONALD	DATE :	10/2017
DESIGN CHECKED BY :	J.C. MORRISON	DATE :	11/2017

DATE: 8/28/2018
TIME: 2:36:34 PM

USER: mdt1zom
DGN: \\USRAL1fp00\ocacomnet\Data\Projects\605362530\00_Work\90_CADD_ACDOT_TIP\Structures\04_Drawings\40_I2_B4974_SMU_BM5.dgn