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BILL OF MATERIAL SPAN A

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✱ A1	49	#5	STR	13'-2"	673
A2	49	#5	STR	13'-2"	673
✱ A101	6	#6	STR	6'-6"	59
✱ A102	2	#5	STR	1'-0"	2
✱ A103	2	#5	STR	1'-2"	2
✱ A104	2	#5	STR	1'-9"	4
✱ A105	2	#5	STR	2'-5"	5
✱ A106	2	#5	STR	3'-0"	6
✱ A107	2	#5	STR	5'-5"	11
✱ A108	2	#5	STR	6'-0"	13
✱ A109	2	#5	STR	6'-7"	14
✱ A110	2	#5	STR	7'-3"	15
✱ A111	2	#5	STR	7'-10"	16
✱ A112	2	#5	STR	8'-6"	18
✱ A113	2	#5	STR	9'-1"	19
✱ A114	2	#5	STR	9'-9"	20
✱ A115	2	#5	STR	10'-4"	22
✱ A116	2	#5	STR	11'-0"	23
✱ A117	2	#5	STR	11'-7"	24
✱ A118	2	#5	STR	12'-3"	26
✱ A119	2	#5	STR	12'-9"	27
A201	6	#5	STR	1'-9"	11
A202	2	#5	STR	2'-3"	5
A203	2	#5	STR	3'-0"	6
A204	2	#5	STR	3'-6"	7
A205	2	#5	STR	4'-2"	9
A206	2	#5	STR	4'-9"	10
A207	2	#5	STR	5'-5"	11
A208	2	#5	STR	6'-0"	13
A209	2	#5	STR	6'-7"	14
A210	2	#5	STR	7'-3"	15
A211	2	#5	STR	7'-10"	16
A212	2	#5	STR	8'-6"	18
A213	2	#5	STR	9'-1"	19
A214	2	#5	STR	9'-9"	20
A215	2	#5	STR	10'-4"	22
A216	2	#5	STR	11'-0"	23
A217	2	#5	STR	11'-7"	24
A218	2	#5	STR	12'-3"	26
A219	2	#5	STR	12'-9"	27
✱ B1	10	#4	STR	34'-9"	232
B2	17	#5	STR	34'-9"	616
✱ D1	65	#5	STR	3'-4"	226
D2	65	#5	STR	3'-4"	226
D3	6	#4	STR	1'-6"	6
D4	4	#4	STR	4'-7"	12
D5	1	#6	STR	5'-0"	8
✱ G1	2	#5	STR	16'-11"	35
K1	3	#4	STR	16'-11"	34
K2	1	#4	STR	16'-9"	11
K3	1	#6	STR	16'-11"	25
K4	1	#4	STR	9'-3"	6
K5	2	#4	STR	9'-11"	13
K6	1	#6	STR	8'-8"	13
K7	1	#4	STR	2'-2"	1
K8	2	#4	STR	2'-6"	3
K9	1	#6	STR	1'-10"	3
K10	1	#4	8	5'-4"	4
K11	2	#4	8	5'-0"	7
K12	1	#6	8	4'-8"	7
K13	2	#6	STR	4'-8"	14
K14	2	#6	STR	9'-3"	28
K15	2	#8	7	8'-3"	44
K16	4	#8	7	9'-8"	103
S1	28	#4	1	4'-9"	89
S2	15	#4	2	2'-6"	25
S4	13	#5	4	4'-8"	63
S5	3	#5	3	2'-10"	9
S9	13	#4	3	3'-9"	33

REINFORCING STEEL (LBS.) 2,372

✱ EPOXY COATED REINFORCING STEEL (LBS.) 1,492

BILL OF MATERIAL SPAN B&C†

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✱ A1	140	#5	STR	13'-2"	1923
A2	140	#5	STR	13'-2"	1923
✱ A101	6	#6	STR	6'-6"	59
✱ A102	2	#5	STR	1'-0"	2
✱ A103	2	#5	STR	1'-2"	2
✱ A104	2	#5	STR	1'-9"	4
✱ A105	2	#5	STR	2'-5"	5
✱ A106	2	#5	STR	3'-0"	6
✱ A107	2	#5	STR	5'-5"	11
✱ A108	2	#5	STR	6'-0"	13
✱ A109	2	#5	STR	6'-7"	14
✱ A110	2	#5	STR	7'-3"	15
✱ A111	2	#5	STR	7'-10"	16
✱ A112	2	#5	STR	8'-6"	18
✱ A113	2	#5	STR	9'-1"	19
✱ A114	2	#5	STR	9'-9"	20
✱ A115	2	#5	STR	10'-4"	22
✱ A116	2	#5	STR	11'-0"	23
✱ A117	2	#5	STR	11'-7"	24
✱ A118	2	#5	STR	12'-3"	26
✱ A119	2	#5	STR	12'-9"	27
A201	6	#5	STR	1'-9"	11
A202	2	#5	STR	2'-3"	5
A203	2	#5	STR	3'-0"	6
A204	2	#5	STR	3'-6"	7
A205	2	#5	STR	4'-2"	9
A206	2	#5	STR	4'-9"	10
A207	2	#5	STR	5'-5"	11
A208	2	#5	STR	6'-0"	13
A209	2	#5	STR	6'-7"	14
A210	2	#5	STR	7'-3"	15
A211	2	#5	STR	7'-10"	16
A212	2	#5	STR	8'-6"	18
A213	2	#5	STR	9'-1"	19
A214	2	#5	STR	9'-9"	20
A215	2	#5	STR	10'-4"	22
A216	2	#5	STR	11'-0"	23
A217	2	#5	STR	11'-7"	24
A218	2	#5	STR	12'-3"	26
A219	2	#5	STR	12'-9"	27
✱ B3	30	#4	STR	28'-1"	563
B4	34	#5	STR	41'-2"	1460
✱ D1	156	#5	STR	3'-4"	542
D2	156	#5	STR	3'-4"	542
D3	12	#4	STR	1'-6"	12
✱ G1	2	#5	STR	16'-11"	35
K17	4	#6	STR	3'-10"	23
K18	4	#6	STR	8'-5"	51
K19	4	#8	7	8'-11"	95
K20	4	#8	7	10'-9"	115
K21	2	#5	STR	3'-10"	8
K22	2	#5	STR	8'-5"	18
K23	2	#5	5	4'-7"	10
K24	2	#5	5	9'-1"	19
S3	22	#4	3	3'-11"	58
S6	22	#5	4	5'-8"	130
S7	6	#5	3	3'-10"	24
S8	11	#4	6	7'-3"	53

REINFORCING STEEL (LBS.) 4,837

✱ EPOXY COATED REINFORCING STEEL (LBS.) 3,389

† QUANTITIES ARE PER SPAN

BILL OF MATERIAL SPAN D

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✱ A1	57	#5	STR	13'-2"	783
A2	57	#5	STR	13'-2"	783
✱ A101	6	#6	STR	6'-6"	59
✱ A102	2	#5	STR	1'-0"	2
✱ A103	2	#5	STR	1'-2"	2
✱ A104	2	#5	STR	1'-9"	4
✱ A105	2	#5	STR	2'-5"	5
✱ A106	2	#5	STR	3'-0"	6
✱ A107	2	#5	STR	5'-5"	11
✱ A108	2	#5	STR	6'-0"	13
✱ A109	2	#5	STR	6'-7"	14
✱ A110	2	#5	STR	7'-3"	15
✱ A111	2	#5	STR	7'-10"	16
✱ A112	2	#5	STR	8'-6"	18
✱ A113	2	#5	STR	9'-1"	19
✱ A114	2	#5	STR	9'-9"	20
✱ A115	2	#5	STR	10'-4"	22
✱ A116	2	#5	STR	11'-0"	23
✱ A117	2	#5	STR	11'-7"	24
✱ A118	2	#5	STR	12'-3"	26
✱ A119	2	#5	STR	12'-9"	27
A201	6	#5	STR	1'-9"	11
A202	2	#5	STR	2'-3"	5
A203	2	#5	STR	3'-0"	6
A204	2	#5	STR	3'-6"	7
A205	2	#5	STR	4'-2"	9
A206	2	#5	STR	4'-9"	10
A207	2	#5	STR	5'-5"	11
A208	2	#5	STR	6'-0"	13
A209	2	#5	STR	6'-7"	14
A210	2	#5	STR	7'-3"	15
A211	2	#5	STR	7'-10"	16
A212	2	#5	STR	8'-6"	18
A213	2	#5	STR	9'-1"	19
A214	2	#5	STR	9'-9"	20
A215	2	#5	STR	10'-4"	22
A216	2	#5	STR	11'-0"	23
A217	2	#5	STR	11'-7"	24
A218	2	#5	STR	12'-3"	26
A219	2	#5	STR	12'-9"	27
✱ B5	10	#4	STR	38'-7"	258
B6	17	#5	STR	38'-7"	684
✱ D1	72	#5	STR	3'-4"	250
D2	72	#5	STR	3'-4"	250
D3	6	#4	STR	1'-6"	6
D4	4	#4	STR	4'-7"	12
D5	1	#6	STR	5'-0"	8
✱ G1	2	#5	STR	16'-11"	35
K1	3	#4	STR	16'-11"	34
K2	1	#4	STR	16'-9"	11
K3	1	#6	STR	16'-11"	25
K4	1	#4	STR	9'-3"	6
K5	2	#4	STR	9'-11"	13
K6	1	#6	STR	8'-8"	13
K7	1	#4	STR	2'-2"	1
K8	2	#4	STR	2'-6"	3
K9	1	#6	STR	1'-10"	3
K10	1	#4	8	5'-4"	4
K11	2	#4	8	5'-0"	7
K12	1	#6	8	4'-8"	7
K13	2	#6	STR	4'-8"	14
K14	2	#6	STR	9'-3"	28
K15	2	#8	7	8'-3"	44
K16	4	#8	7	9'-8"	103
S1	28	#4	1	4'-9"	89
S2	15	#4	2	2'-6"	25
S4	13	#5	4	4'-8"	63
S5	3	#5	3	2'-10"	9
S9	13	#4	3	3'-9"	33

REINFORCING STEEL (LBS.) 2,574

✱ EPOXY COATED REINFORCING STEEL (LBS.) 1,652

SUPERSTRUCTURE BILL OF MATERIAL

	CLASS AA CONCRETE	REINFORCING STEEL	✱ EPOXY COATED REINFORCING STEEL
	(CU. YDS.)	(LBS.)	(LBS.)
SPAN A	16.7	2,372	1,492
SPAN B	30.9	4,837	3,389
SPAN C	30.9	4,837	3,389
SPAN D	18.0	2,574	1,652
TOTALS✱✱	96.5	14,620	9,922

✱✱ QUANTITIES FOR CONCRETE PARAPET AND BARRIER RAIL ARE NOT INCLUDED

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

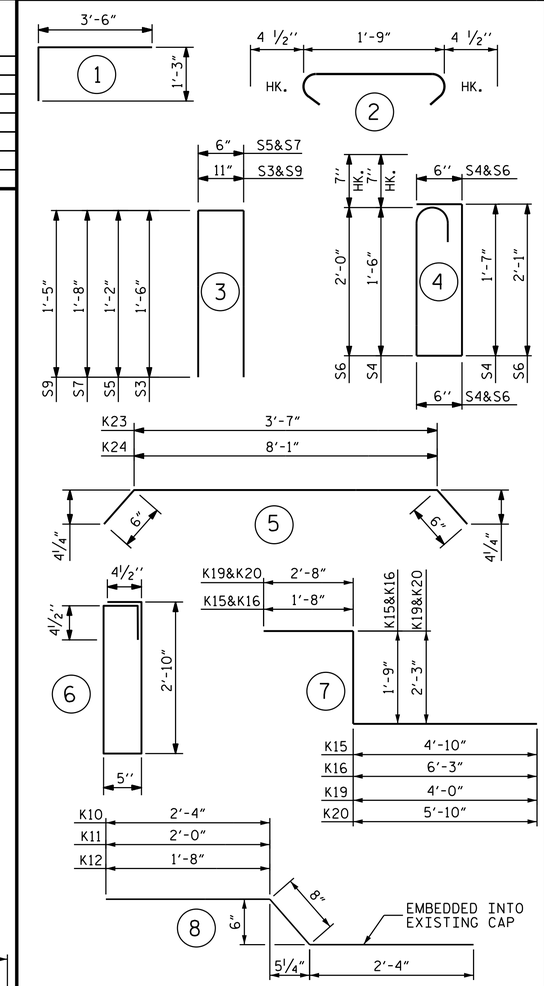
BAR SIZE	SUPERSTRUCTURE EXCEPT APPROACH SLABS, PARAPET, AND BARRIER RAIL		APPROACH SLABS		PARAPET AND BARRIER RAIL
	EPOXY COATED	UNCOATED	EPOXY COATED	UNCOATED	
#4	1'-11"	1'-7"	1'-11"	1'-7"	2'-6"
#5	2'-5"	2'-0"	2'-5"	2'-0"	3'-1"
#6	2'-10"	2'-5"	3'-7"	2'-5"	3'-8"
#7	4'-2"	2'-9"	—	—	—
#8	4'-9"	3'-2"	—	—	—

GROOVING BRIDGE FLOORS

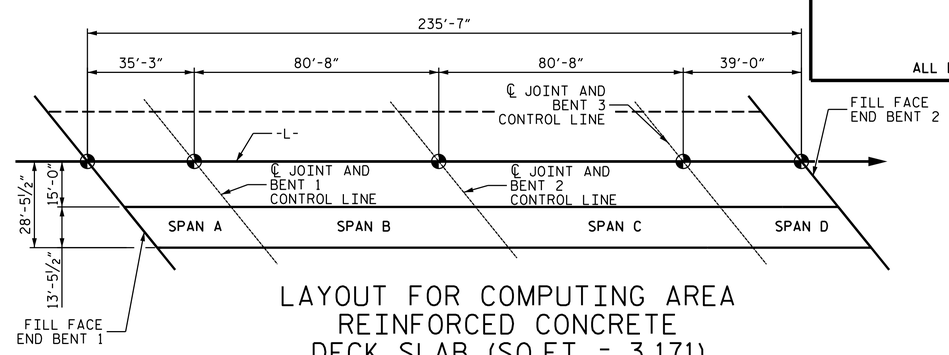
APPROACH SLABS	830	SQ.FT.
BRIDGE DECK	6589	SQ.FT.
TOTAL	7419	SQ.FT.

NOTE: GROOVING IS FOR LATEX MODIFIED CONCRETE OVERLAY. MULTI-USE PATH SHALL BE BROOM FINISHED.

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT



LAYOUT FOR COMPUTING AREA REINFORCED CONCRETE DECK SLAB (SQ.FT. = 3,171)

PROJECT NO. U-4424
EDGECOMBE COUNTY
STATION: 66+24.84 -L-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE BILL OF MATERIALS

DESIGNED BY: J. WHEATLEY DATE: MAR 2023
DRAWN BY: J. WHEATLEY DATE: MAR 2023
CHECKED BY: T. KIRSCHBAUM DATE: MAR 2023
DESIGN ENGINEER OF RECORD: T HARRIS DATE: MAR 2023

WSP USA Inc.
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
TEL: 1.919.836.4040
LICENSE NO. F-0165

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NORTH CAROLINA PROFESSIONAL SEAL 19299 ENGINEER THOMAS M. HARRIS
3/28/2023
DocuSigned by: Thomas Harris
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REVISIONS							SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:		S-26
1			3				TOTAL SHEETS
2			4				37

3/28/2023
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