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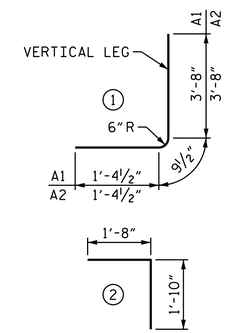
— BAR SCHEDULE STAGE 1 —

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A1	141	#4	1	5'-10"	549	A316	2	#5	STR	7'-10"	16
A2	212	#4	1	5'-10"	826	A317	2	#5	STR	6'-10"	14
						A318	2	#5	STR	5'-10"	12
A100	46	#5	STR	15'-8"	752	A319	2	#5	STR	4'-10"	10
A101	2	#5	STR	14'-2"	30	A320	2	#5	STR	3'-10"	8
A102	2	#5	STR	12'-5"	26	A321	2	#5	STR	2'-10"	6
A103	2	#5	STR	10'-9"	22	A322	2	#5	STR	1'-10"	4
A104	2	#5	STR	9'-0"	19						
A105	2	#5	STR	7'-3"	15	A400	55	#4	STR	11'-4"	416
A106	2	#5	STR	5'-6"	11	A401	2	#4	STR	9'-10"	13
A107	2	#5	STR	3'-10"	8	A402	2	#4	STR	8'-1"	11
A108	2	#5	STR	2'-1"	4	A403	2	#4	STR	6'-4"	8
A109	2	#5	STR	14'-10"	31	A404	2	#4	STR	4'-8"	6
A110	2	#5	STR	13'-10"	29	A405	1	#4	STR	3'-10"	3
A111	2	#5	STR	12'-10"	27	A406	2	#4	STR	10'-4"	14
A112	2	#5	STR	11'-10"	25	A407	2	#4	STR	9'-4"	12
A113	2	#5	STR	10'-10"	23	A408	2	#4	STR	8'-4"	11
A114	2	#5	STR	9'-10"	21	A409	2	#4	STR	7'-4"	10
A115	2	#5	STR	8'-10"	18	A410	2	#4	STR	6'-4"	8
A116	2	#5	STR	7'-10"	16	A411	2	#4	STR	5'-4"	7
A117	2	#5	STR	6'-10"	14	A412	2	#4	STR	4'-4"	6
A118	2	#5	STR	5'-10"	12	A413	2	#4	STR	3'-4"	4
A119	2	#5	STR	4'-10"	10	A414	2	#4	STR	2'-4"	3
A120	2	#5	STR	3'-10"	8	A415	1	#4	STR	1'-10"	1
A121	2	#5	STR	2'-10"	6						
A122	2	#5	STR	1'-10"	4	A450	56	#4	STR	6'-4"	237
						A451	2	#4	STR	4'-10"	6
A200	55	#4	STR	11'-4"	416	A452	2	#4	STR	3'-1"	4
A201	2	#4	STR	9'-10"	13	A453	2	#4	STR	1'-5"	2
A202	2	#4	STR	8'-1"	11	A454	2	#4	STR	5'-9"	8
A203	2	#4	STR	6'-4"	8	A455	2	#4	STR	4'-9"	6
A204	2	#4	STR	4'-8"	6	A456	2	#4	STR	3'-9"	5
A205	1	#4	STR	3'-10"	3	A457	2	#4	STR	2'-9"	4
A206	2	#4	STR	10'-4"	14	A458	2	#4	STR	1'-9"	2
A207	2	#4	STR	9'-4"	12						
A208	2	#4	STR	8'-4"	11	B1	72	#4	STR	5'-7"	269
A209	2	#4	STR	7'-4"	10	B3	71	#4	STR	4'-4"	206
A210	2	#4	STR	6'-4"	8						
A211	2	#4	STR	5'-4"	7	C1	100	#4	STR	21'-5"	1431
A212	2	#4	STR	4'-4"	6						
A213	2	#4	STR	3'-4"	4	D1	3	#6	STR	2'-7"	12
A214	2	#4	STR	2'-4"	3	D2	12	#6	STR	2'-1"	38
A215	1	#4	STR	1'-10"	1						
						G1	4	#5	STR	18'-1"	75
A250	56	#4	STR	6'-4"	237						
A251	2	#4	STR	4'-10"	6	S1	3	#6	STR	14'-2"	64
A252	2	#4	STR	3'-1"	4	S2	6	#6	STR	16'-5"	148
A253	2	#4	STR	1'-5"	2	S3	3	#6	STR	7'-4"	33
A254	2	#4	STR	5'-9"	8	S4	6	#6	STR	9'-1"	82
A255	2	#4	STR	4'-9"	6	S5	3	#6	STR	18'-1"	81
A256	2	#4	STR	3'-9"	5	S6	6	#6	STR	22'-2"	200
A257	2	#4	STR	2'-9"	4						
A258	2	#4	STR	1'-9"	2						
A300	46	#5	STR	15'-8"	752						
A301	2	#5	STR	14'-2"	30						
A302	2	#5	STR	12'-5"	26						
A303	2	#5	STR	10'-9"	22						
A304	2	#5	STR	9'-0"	19						
A305	2	#5	STR	7'-3"	15						
A306	2	#5	STR	5'-6"	11						
A307	2	#5	STR	3'-10"	8						
A308	2	#5	STR	2'-1"	4						
A309	2	#5	STR	14'-10"	31						
A310	2	#5	STR	13'-10"	29						
A311	2	#5	STR	12'-10"	27						
A312	2	#5	STR	11'-10"	25						
A313	2	#5	STR	10'-10"	23						
A314	2	#5	STR	9'-10"	21						
A315	2	#5	STR	8'-10"	18						
						REINFORCING STEEL				LBS.	7,494

— BAR SCHEDULE STAGE 2 —

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A1	196	#4	1	5'-8"	742	A400	98	#4	STR	11'-4"	742
A2	341	#4	1	5'-8"	1291	A401	2	#4	STR	10'-4"	14
						A402	2	#4	STR	9'-4"	12
A100	67	#5	STR	15'-8"	1095	A403	2	#4	STR	8'-4"	11
A101	4	#5	STR	14'-10"	62	A404	2	#4	STR	7'-4"	10
A102	4	#5	STR	13'-10"	58	A405	2	#4	STR	6'-4"	8
A103	4	#5	STR	12'-10"	54	A406	2	#4	STR	5'-4"	7
A104	4	#5	STR	11'-10"	49	A407	2	#4	STR	4'-4"	6
A105	4	#5	STR	10'-10"	45	A408	2	#4	STR	3'-4"	4
A106	4	#5	STR	9'-10"	41	A409	2	#4	STR	2'-4"	3
A107	4	#5	STR	8'-10"	37	A410	2	#4	STR	1'-4"	2
A108	4	#5	STR	7'-10"	33	A411	2	#4	STR	10'-6"	14
A109	4	#5	STR	6'-10"	29	A412	2	#4	STR	9'-6"	13
A110	4	#5	STR	5'-10"	24	A413	2	#4	STR	8'-6"	11
A111	4	#5	STR	4'-10"	20	A414	2	#4	STR	7'-6"	10
A112	4	#5	STR	3'-10"	16	A415	2	#4	STR	6'-6"	9
A113	4	#5	STR	2'-10"	12	A416	2	#4	STR	5'-6"	7
A114	4	#5	STR	1'-10"	8	A417	2	#4	STR	4'-6"	6
A115	2	#5	STR	1'-4"	3	A418	2	#4	STR	4'-0"	5
						A419	2	#4	STR	3'-0"	4
A200	98	#4	STR	11'-4"	742						
A201	2	#4	STR	10'-4"	14	A450	100	#4	STR	6'-4"	423
A202	2	#4	STR	9'-4"	12	A451	2	#4	STR	5'-6"	7
A203	2	#4	STR	8'-4"	11	A452	2	#4	STR	4'-6"	6
A204	2	#4	STR	7'-4"	10	A453	2	#4	STR	3'-6"	5
A205	2	#4	STR	6'-4"	8	A454	2	#4	STR	2'-6"	3
A206	2	#4	STR	5'-4"	7	A455	2	#4	STR	1'-6"	2
A207	2	#4	STR	4'-4"	6	A456	8	#4	STR	6'-5"	34
A208	2	#4	STR	3'-4"	4	A457	2	#4	STR	5'-10"	8
A209	2	#4	STR	2'-4"	3	A458	2	#4	STR	4'-10"	6
A210	2	#4	STR	1'-4"	2	A459	2	#4	STR	4'-0"	5
A211	2	#4	STR	10'-6"	14	A460	2	#4	STR	3'-1"	4
A212	2	#4	STR	9'-6"	13	A461	2	#4	STR	2'-2"	3
A213	2	#4	STR	8'-6"	11	A462	2	#4	STR	1'-3"	2
A214	2	#4	STR	7'-6"	10						
A215	2	#4	STR	6'-6"	9	B1	98	#4	STR	5'-7"	366
A216	2	#4	STR	5'-6"	7	B3	99	#4	STR	4'-4"	287
A217	2	#4	STR	4'-6"	6						
A218	2	#4	STR	4'-0"	5	C2	57	#4	STR	21'-10"	831
A219	2	#4	STR	3'-0"	4	C3	62	#4	STR	25'-8"	1063
						C4	2	#4	STR	10'-5"	14
A250	100	#4	STR	6'-4"	423						
A251	2	#4	STR	5'-6"	7	D1	3	#6	STR	2'-7"	12
A252	2	#4	STR	4'-6"	6	D2	15	#6	STR	2'-1"	47
A253	2	#4	STR	3'-6"	5	D3	8	#6	STR	3'-0"	36
A254	2	#4	STR	2'-6"	3						
A255	2	#4	STR	1'-6"	2	G2	4	#5	STR	22'-2"	92
A256	8	#4	STR	6'-5"	34						
A257	2	#4	STR	5'-10"	8	K1	16	#5	2	3'-6"	58
A258	2	#4	STR	4'-10"	6						
A259	2	#4	STR	4'-0"	5	S6	9	#6	STR	22'-2"	300
A260	2	#4	STR	3'-1"	4	S7	11	#6	STR	16'-5"	271
A261	2	#4	STR	2'-2"	3	S8	6	#6	STR	9'-1"	82
A262	2	#4	STR	1'-3"	2	S9	5	#6	STR	10'-5"	78
A300	67	#5	STR	15'-8"	1095						
A301	4	#5	STR	14'-10"	62						
A302	4	#5	STR	13'-10"	58						
A303	4	#5	STR	12'-10"	54						
A304	4	#5	STR	11'-10"	49						
A305	4	#5	STR	10'-10"	45						
A306	4	#5	STR	9'-10"	41						
A307	4	#5	STR	8'-10"	37						
A308	4	#5	STR	7'-10"	33						
A309	4	#5	STR	6'-10"	29						
A310	4	#5	STR	5'-10"	24						
A311	4	#5	STR	4'-10"	20						
A312	4	#5	STR	3'-10"	16						
A313	4	#5	STR	2'-10"	12						
A314	4	#5	STR	1'-10"	8						
A315	2	#5	STR	1'-4"	3						
						REINFORCING STEEL				LBS.	11,476

BAR TYPE



BAR DIMENSIONS ARE OUT TO OUT.

SPLICE LENGTH TABLE

BAR	SIZE	LENGTH
A	#4	1'-11"
C	#4	1'-11"
S	#6	3'-1"

STAGE 1 QUANTITIES

CLASS A CONCRETE
- BARREL @ 1.490 CY/FT — 52.9 CY
- WINGS, ETC. — 9.4 CY
- SILLS — 2.1 CY
- TOTAL — 64.4 CY

REINFORCING STEEL
- BARREL & SILLS — 7,494 LBS.
- WINGS, ETC. — 453 LBS.
- TOTAL — 7,947 LBS.

CULVERT EXCAVATION — LUMP SUM

FOUNDATION COND. MAT'L — 41 TONS

STAGE 2 QUANTITIES

CLASS A CONCRETE
- BARREL @ 1.490 CY/FT — 73.7 CY
- WINGS, ETC. — 13.2 CY
- SILLS — 2.7 CY
- TOTAL — 89.6 CY

REINFORCING STEEL
- BARREL & SILLS — 11,476 LBS.
- WINGS, ETC. — 373 LBS.
- TOTAL — 11,849 LBS.

CULVERT EXCAVATION — LUMP SUM

FOUNDATION COND. MAT'L — 70 TONS

PROJECT NO. 17BP.14.R.91

GRAHAM COUNTY

STATION: 13+27.15 -L-

WSP USA Inc.
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
TEL: 1.919.836.4040

LICENSE NO. F-0165

NORTH CAROLINA PROFESSIONAL SEAL 035733 ENGINEER NICHOLAS A. PIERCE
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9/7/2017

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DOUBLE 7FT. X 4FT. CONCRETE BOX CULVERT STAGES I & II BILL OF MATERIAL

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	C-11
1			3			TOTAL SHEETS
2			4			13

DRAWN BY : M.J. OSTRISHKO DATE : 10/2014
CHECKED BY : N.A. PIERCE DATE : 11/2014

8/23/2017
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