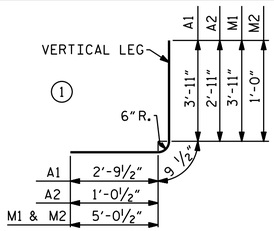
REINFORCING BAR SCHEDULE

STAGE I

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A1	378	#5	1	7'-6"	2957	A307	8	#7	STR.	23'-5"	383
A2	378	#5	1	5'-9"	2267	A308	8	#7	STR.	22'-2"	362
						A309	8	#7	STR.	20'-11"	342
A100	97	#6	STR.	32'-3"	4699	A310	8	#7	STR.	19'-7"	320
A101	8	#6	STR.	31'-1"	373	A311	8	#7	STR.	18'-4"	300
A102	8	#6	STR.	29'-10"	358	A312	8	#7	STR.	17'-1"	279
A103	8	#6	STR.	28'-6"	342	A313	8	#7	STR.	15'-10"	259
A104	8	#6	STR.	27'-3"	327	A314	8	#7	STR.	14'-6"	237
A105	8	#6	STR.	26'-0"	312	A315	8	#7	STR.	13'-3"	217
A106	8	#6	STR.	24'-9"	297	A316	8	#7	STR.	12'-0"	196
A107	8	#6	STR.	23'-5"	281	A317	8	#7	STR.	10'-8"	174
A108	8	#6	STR.	22'-2"	266	A318	8	#7	STR.	9'-5"	154
A109	8	#6	STR.	20'-11"	251	A319	8	#7	STR.	8'-2"	134
A110	8	#6	STR.	19'-7"	235	A320	8	#7	STR.	6'-11"	113
A111	8	#6	STR.	18'-4"	220	A321	8	#7	STR.	5'-7"	91
A112	8	#6	STR.	17'-1"	205	A322	8	#7	STR.	4'-4"	71
A113	8	#6	STR.	15'-10"	190	A323	8	#7	STR.	3'-1"	50
A114	8	#6	STR.	14'-6"	174						
A115	8	#6	STR.	13'-3"	159	A400	97	#7	STR.	32'-3"	6394
A116	8	#6	STR.	12'-0"	144	A401	8	#7	STR.	31'-1"	508
A117	8	#6	STR.	10'-8"	128	A402	8	#7	STR.	29'-10"	488
A118	8	#6	STR.	9'-5"	113	A403	8	#7	STR.	28'-6"	466
A119	8	#6	STR.	8'-2"	98	A404	8	#7	STR.	27'-3"	446
A120	8	#6	STR.	6'-11"	83	A405	8	#7	STR.	26'-0"	425
A121	8	#6	STR.	5'-7"	67	A406	8	#7	STR.	24'-9"	405
A122	8	#6	STR.	4'-4"	52	A407	8	#7	STR.	23'-5"	383
A123	8	#6	STR.	3'-1"	37	A408	8	#7	STR.	22'-2"	362
						A409	8	#7	STR.	20'-11"	342
A200	97	#6	STR.	32'-3"	4699	A410	8	#7	STR.	19'-7"	320
A201	8	#6	STR.	31'-1"	373	A411	8	#7	STR.	18'-4"	300
A202	8	#6	STR.	29'-10"	358	A412	8	#7	STR.	17'-1"	279
A203	8	#6	STR.	28'-6"	342	A413	8	#7	STR.	15'-10"	259
A204	8	#6	STR.	27'-3"	327	A414	8	#7	STR.	14'-6"	237
A205	8	#6	STR.	26'-0"	312	A415	8	#7	STR.	13'-3"	217
A206	8	#6	STR.	24'-9"	297	A416	8	#7	STR.	12'-0"	196
A207	8	#6	STR.	23'-5"	281	A417	8	#7	STR.	10'-8"	174
A208	8	#6	STR.	22'-2"	266	A418	8	#7	STR.	9'-5"	154
A209	8	#6	STR.	20'-11"	251	A419	8	#7	STR.	8'-2"	134
A210	8	#6	STR.	19'-7"	235	A420	8	#7	STR.	6'-11"	113
A211	8	#6	STR.	18'-4"	220	A421	8	#7	STR.	5'-7"	91
A212	8	#6	STR.	17'-1"	205	A422	8	#7	STR.	4'-4"	71
A213	8	#6	STR.	15'-10"	190	A423	8	#7	STR.	3'-1"	50
A214	8	#6	STR.	14'-6"	174						
A215	8	#6	STR.	13'-3"	159	B1	398	#4	STR.	14'-0"	3722
A216	8	#6	STR.	12'-0"	144	B2	398	#4	STR.	10'-4"	2747
A217	8	#6	STR.	10'-8"	128	B3	201	#4	STR.	14'-0"	1880
A218	8	#6	STR.	9'-5"	113						
A219	8	#6	STR.	8'-2"	98	C1	452	#4	STR.	26'-11"	8127
A220	8	#6	STR.	6'-11"	83						
A221	8	#6	STR.	5'-7"	67	D1	4	#6	STR.	4'-5"	27
A222	8	#6	STR.	4'-4"	52	D2	16	#6	STR.	2'-5"	58
A223	8	#6	STR.	3'-1"	37						
						G1	8	#5	STR.	31'-8"	264
A300	97	#7	STR.	32'-3"	6394						
A301	8	#7	STR.	31'-1"	508	M1	12	#8	1	9'-9"	312
A302	8	#7	STR.	29'-10"	488	M2	8	#8	1	6'-10"	146
A303	8	#7	STR.	28'-6"	466						
A304	8	#7	STR.	27'-3"	446	S1	3	#6	STR.	6'-0"	27
A305	8	#7	STR.	26'-0"	425	S2	36	#8	STR.	33'-8"	3236
A306	8	#7	STR.	24'-9"	405						

STAGE I TOTAL REINFORCING STEEL 70220



BAR TYPE

BAR DIMENSIONS ARE OUT TO OUT

REINFORCING BAR SCHEDULE

STAGE II PHASE 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A1	245	#5	1	7'-6"	1917
A2	503	#5	1	5'-9"	3017
A600	189	#6	STR.	21'-0"	5961
A601	4	#6	STR.	19'-10"	119
A602	4	#6	STR.	18'-7"	112
A603	4	#6	STR.	17'-3"	104
A604	4	#6	STR.	16'-0"	96
A605	4	#6	STR.	14'-9"	89
A606	4	#6	STR.	13'-6"	81
A607	4	#6	STR.	12'-2"	73
A608	4	#6	STR.	10'-11"	66
A609	4	#6	STR.	9'-8"	58
A610	4	#6	STR.	8'-4"	50
A611	4	#6	STR.	7'-1"	43
A612	4	#6	STR.	5'-10"	35
A613	4	#6	STR.	19'-11"	120
A614	4	#6	STR.	18'-8"	112
A615	4	#6	STR.	17'-5"	105
A616	4	#6	STR.	16'-1"	97
A617	4	#6	STR.	14'-10"	89
A618	4	#6	STR.	13'-7"	82
A619	4	#6	STR.	12'-3"	74
A620	4	#6	STR.	11'-0"	66
A621	4	#6	STR.	9'-9"	59
A622	4	#6	STR.	8'-6"	51
A623	4	#6	STR.	7'-2"	43
A624	4	#6	STR.	5'-11"	36
A625	4	#6	STR.	4'-8"	28
A626	4	#6	STR.	3'-4"	20
A800	189	#7	STR.	20'-9"	8016
A801	4	#7	STR.	19'-7"	160
A802	4	#7	STR.	18'-4"	150
A803	4	#7	STR.	17'-0"	139
A804	4	#7	STR.	15'-9"	129
A805	4	#7	STR.	14'-6"	119
A806	4	#7	STR.	13'-3"	108
A807	4	#7	STR.	11'-11"	97
A808	4	#7	STR.	10'-8"	87
A809	4	#7	STR.	9'-5"	77
A810	4	#7	STR.	8'-1"	66
A811	4	#7	STR.	6'-10"	56
A812	4	#7	STR.	5'-7"	46
A813	4	#7	STR.	19'-11"	163
A814	4	#7	STR.	18'-8"	153
A815	4	#7	STR.	17'-5"	142
A816	4	#7	STR.	16'-1"	131
A817	4	#7	STR.	14'-10"	121
A818	4	#7	STR.	13'-7"	111
A819	4	#7	STR.	12'-3"	100
A820	4	#7	STR.	11'-0"	90
A821	4	#7	STR.	9'-9"	80
A822	4	#7	STR.	8'-6"	69
A823	4	#7	STR.	7'-2"	59
A824	4	#7	STR.	5'-11"	48
A825	4	#7	STR.	4'-8"	38
A826	4	#7	STR.	3'-4"	27
B1	256	#4	STR.	14'-0"	2394
B2	256	#4	STR.	10'-4"	1767
B3	256	#4	STR.	14'-0"	2394
C2	220	#4	STR.	27'-2"	3992
D1	4	#6	STR.	4'-5"	27
M1	6	#8	1	9'-9"	156
M2	2	#8	1	6'-10"	36
S3	9	#8	STR.	40'-2"	965

STAGE II PHASE 1 TOTAL REINFORCING STEEL 35116 LBS.

REINFORCING BAR SCHEDULE

STAGE II PHASE 2

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A1	245	#5	1	7'-6"	1917	A850	207	#7	STR.	14'-6"	6135
A2	245	#5	1	5'-9"	1469	A851	4	#7	STR.	14'-2"	116
						A852	4	#7	STR.	12'-11"	106
A500	154	#6	STR.	32'-3"	7460	A853	4	#7	STR.	11'-8"	95
A501	8	#6	STR.	31'-1"	373	A854	4	#7	STR.	10'-5"	85
A502	8	#6	STR.	29'-10"	358	A855	4	#7	STR.	9'-1"	74
A503	8	#6	STR.	28'-6"	342	A856	4	#7	STR.	7'-10"	64
A504	8	#6	STR.	27'-3"	327	A857	4	#7	STR.	6'-7"	54
A505	8	#6	STR.	26'-0"	312	A858	4	#7	STR.	5'-3"	43
A506	8	#6	STR.	24'-9"	297	A859	4	#7	STR.	4'-0"	33
A507	8	#6	STR.	23'-5"	281	A860	4	#7	STR.	2'-9"	22
A508	8	#6	STR.	22'-2"	266	A861	4	#7	STR.	13'-4"	109
A509	8	#6	STR.	20'-11"	251	A862	4	#7	STR.	12'-1"	99
A510	8	#6	STR.	19'-7"	235	A863	4	#7	STR.	10'-9"	88
A511	8	#6	STR.	18'-4"	220	A864	4	#7	STR.	9'-6"	78
A512	8	#6	STR.	17'-1"	205	A865	4	#7	STR.	8'-3"	67
A513	8	#6	STR.	15'-10"	190	A866	4	#7	STR.	7'-0"	57
A514	8	#6	STR.	14'-6"	174	A867	4	#7	STR.	5'-8"	46
A515	8	#6	STR.	13'-3"	159	A868	4	#7	STR.	4'-5"	36
A516	8	#6	STR.	12'-0"	144	A869	4	#7	STR.	3'-2"	26
A517	8	#6	STR.	10'-8"	128						
A518	8	#6	STR.	9'-5"	113	B1	256	#4	STR.	14'-0"	2394
A519	8	#6	STR.	8'-2"	98	B2	256	#4	STR.	10'-4"	1767
A520	8	#6	STR.	6'-11"	83						
A521	8	#6	STR.	5'-7"	67	C2	345	#4	STR.	27'-2"	6261
A522	8	#6	STR.	4'-4"	52						
A523	8	#6	STR.	3'-1"	37	D2	20	#6	STR.	2'-5"	73
A650	207	#6	STR.	14'-6"	4508	G1	8	#5	STR.	31'-8"	264
A651	4	#6	STR.	14'-2"	85						
A652	4	#6	STR.	12'-11"	78	M1	6	#8	1	9'-9"	234
A653	4	#6	STR.	11'-8"	70	M2	6	#8	1	6'-10"	109
A654	4	#6	STR.	10'-5"	63						
A655	4	#6	STR.	9'-1"	55	S1	3	#6	STR.	6'-0"	27
A656	4	#6	STR.	7'-10"	47	S2	18	#8	STR.	33'-8"	1618
A657	4	#6	STR.	6'-7"	40	S4	9	#8	STR.	27'-1"	651
A658	4	#6	STR.	5'-3"	32						
A659	4	#6	STR.	4'-0"	24						
A660	4	#6	STR.	2'-9"	17						
A661	4	#6	STR.	13'-4"	80						
A662	4	#6	STR.	12'-1"	73						
A663	4	#6	STR.	10'-9"	65						
A664	4	#6	STR.	9'-6"	57						
A665	4	#6	STR.	8'-3"	50						
A666	4	#6	STR.	7'-0"	42						
A667	4	#6	STR.	5'-8"	34						
A668	4	#6	STR.	4'-5"	27						
A669	4	#6	STR.	3'-2"	19						
A700	154	#7	STR.	32'-3"	10152						
A701	8	#7	STR.	31'-1"	508						
A702	8	#7	STR.	29'-10"	488						
A703	8	#7	STR.	28'-6"	466						
A704	8	#7	STR.	27'-3"	446						
A705	8	#7	STR.	26'-0"	425						
A706	8	#7	STR.	24'-9"	405						
A707	8	#7	STR.	23'-5"	383						
A708	8	#7	STR.	22'-2"	362						
A709	8	#7	STR.	20'-11"	342						
A710	8	#7	STR.	19'-7"	320						
A711	8	#7	STR.	18'-4"	300						
A712	8	#7	STR.	17'-1"	279						
A713	8	#7	STR.	15'-10"	259						
A714	8	#7	STR.	14'-6"	237						
A715	8	#7	STR.	13'-3"	217						
A716	8	#7	STR.	12'-0"	196						
A717	8	#7	STR.	10'-8"	174						
A718	8	#7	STR.	9'-5"	154						
A719	8	#7	STR.	8'-2"	134						
A720	8	#7	STR.	6'-11"	113						
A721	8	#7	STR.	5'-7"	91						
A722	8	#7	STR.	4'-4"	71						
A723	8	#7	STR.	3'-1"	50						

STAGE II PHASE 2 TOTAL REINFORCING STEEL 58349 LBS.

SPLICE CHART

BAR	SIZE	SPLICE LENGTH
A600	#6	3'-2"
A800	#7	3'-0"
B1	#4	1'-5"
B3	#4	1'-5"
C1	#4	1'-11"
C2	#4	1'-11"
G1	#5	3'-0"
S2	#8	6'-11"
S3	#8	6'-11"

STAGE I STRUCTURE QUANTITIES

CLASS A CONCRETE

BARREL	537.4 C.Y.
SILLS	3.9 C.Y.
WINGS ETC.	58.4 C.Y.
TOTAL	599.7 C.Y.

REINFORCING STEEL

BARREL	70220 LBS.
WINGS ETC.	4455 LBS.
TOTAL	74675 LBS.

CULVERT EXCAVATION LUMP SUM

FOUNDATION CONDITTONING MATERIAL 259 TONS

STAGE II STRUCTURE QUANTITIES

PHASE 1

CLASS A CONCRETE

BARREL	248.7 C.Y.
SILL	1.7 C.Y.
WINGS ETC.	11.4 C.Y.
TOTAL	261.8 C.Y.

REINFORCING STEEL

BARREL	35116 LBS.
WINGS ETC.	4146 LBS.
TOTAL	39262 LBS.

CULVERT EXCAVATION LUMP SUM

FOUNDATION CONDITTONING MATERIAL 198 TONS

PHASE 2

CLASS A CONCRETE

BARREL	441.9 C.Y.
SILLS	2.8 C.Y.
WINGS ETC.	48.1 C.Y.
TOTAL	492.8 C.Y.

REINFORCING STEEL

BARREL	58349 LBS.
WINGS ETC.	894 LBS.
TOTAL	59243 LBS.

CULVERT EXCAVATION LUMP SUM

FOUNDATION CONDITTONING MATERIAL 135 TONS

PROJECT NO. R-2915C

ASHE COUNTY

STATION: 374+56.00 -L-

SHEET 9 OF 12

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DOUBLE 15 FT. X 11 FT. RCBC
35°00'-00" SKEW
(STAGES I & II)

NORTH CAROLINA PROFESSIONAL SEAL 17230 ENGINEER WAEL S. ARAFAT

DocuSigned by: Wael Arafat
4139C12A32AB406...
9/6/2016

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	C-9
1			3			TOTAL SHEETS
2			4			12

DRAWN BY : H. T. BARBOUR DATE : 7-1-16
CHECKED BY : V. X. NGUYEN DATE : 7-16
DESIGN ENGINEER OF RECORD: A. M. LEE DATE : 7-16

06-SEP-2016 12:38
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warafat