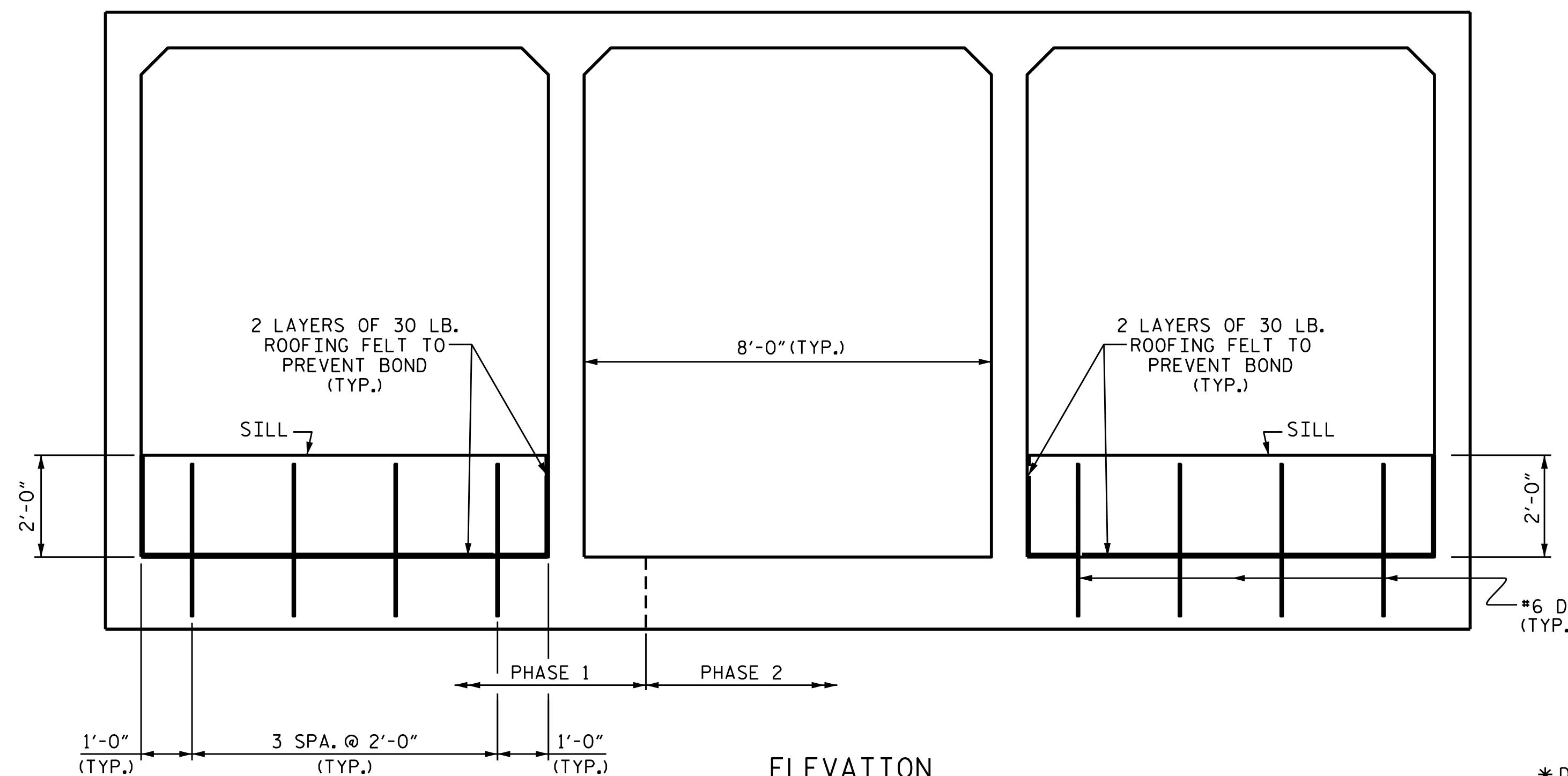


PLAN VIEW SHOWING SILL LOCATIONS

BAR	SIZE	SPLICE LENGTH
A200	#4	1'-5"
A400	#4	1'-5"
B1 & B3	#4	1'-5"
C1	#4	1'-11"
S3	#8	4'-11"



ELEVATION

CULVERT SILL DETAILS

(LOOKING DOWNSTREAM)

NOTES

MATERIAL EXCAVATED FROM THE EXISTING BED SHALL BE STOCKPILED FOR USE IN THE PROPOSED CULVERT AND SHALL PROVIDE A CONTINUOUS HIGH FLOW CHANNEL AS SHOWN. THE MATERIAL SHALL BE NATURAL STONE WITH A GRADATION SIZE SIMILAR TO THAT OF CLASS B RIP RAP. STONES LARGER THAN 6 INCHES SHALL NOT BE PLACED WITHIN THE LOW FLOW CHANNEL. BED MATERIAL SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER AND MAY BE SUBJECT TO PERMIT CONDITIONS.

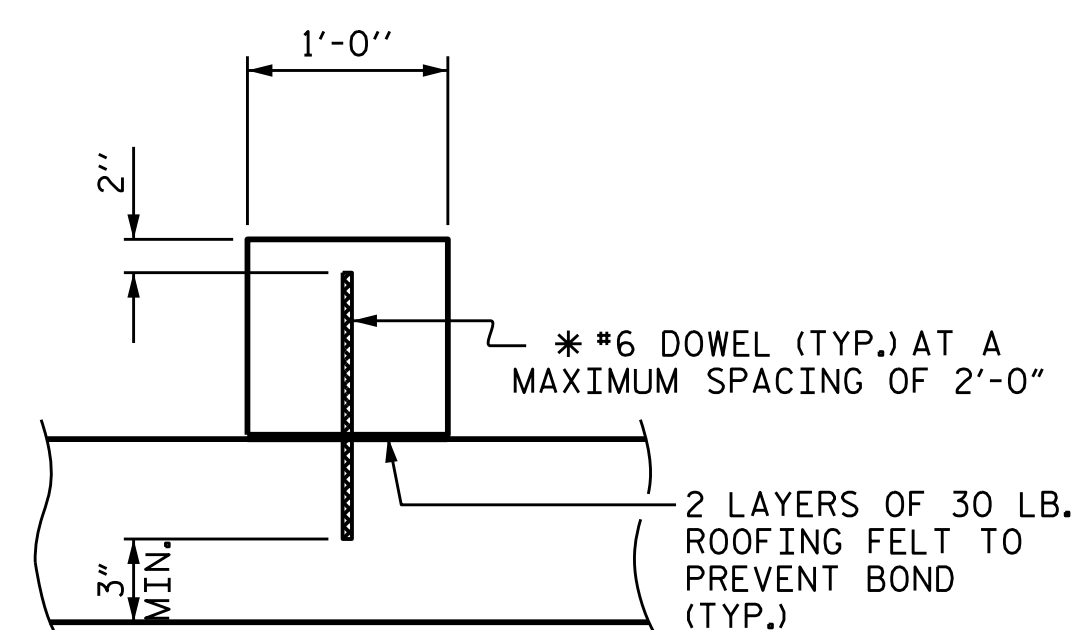
THE STOCKPILED MATERIAL SHALL BE PLACED TO THE LEVEL OF 2' BETWEEN THE HIGH FLOW SILLS.

BED MATERIAL SHALL BE SUPPLEMENTED BY CLASS B RIP RAP AS NECESSARY IN THE LEFT AND RIGHT BARRELS ONLY.

BED MATERIAL SHALL BE PLACED ON TOP OF THE SUPPLEMENTAL FILL, IF USED, TO PROVIDE A FLAT SURFACE FOR ANIMAL PASSAGE.

THE ENTIRE COST OF WORK REQUIRED TO PLACE EXCAVATED OR SUPPLEMENTAL MATERIAL AS SHOWN ON THE PLANS SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE BID FOR CULVERT EXCAVATION.

THE ENTIRE COST OF WORK REQUIRED TO CONSTRUCT THE SILLS/BAFFLES SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS.



SECTION THROUGH SILL

* DOWELS MAY BE PUSHED INTO GREEN CONCRETE AFTER SLAB HAS BEEN FLOAT FINISHED.

REINFORCING BAR SCHEDULE

PHASE 1						PHASE 2											
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT		BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR NO.	SIZE	TYPE	LENGTH	WEIGHT		
A1	176	#4	1	4'-6"	529	A1	176	#4	1	4'-6"	529	A450	157	#4	STR.	16'-0"	1678
A2	352	#4	1	4'-2"	980	A2	176	#4	1	4'-2"	490	A451	2	#4	STR.	14'-6"	19
A200	162	#4	STR.	11'-9"	1272	A100	145	#4	STR.	26'-3"	2543	A452	2	#4	STR.	12'-10"	17
A201	2	#4	STR.	10'-4"	14	A101	4	#4	STR.	24'-11"	67	A453	2	#4	STR.	11'-1"	15
A202	2	#4	STR.	8'-7"	11	A102	4	#4	STR.	23'-2"	62	A454	2	#4	STR.	9'-4"	12
A203	2	#4	STR.	6'-11"	9	A103	4	#4	STR.	21'-6"	57	A455	2	#4	STR.	7'-7"	10
A204	2	#4	STR.	5'-2"	7	A104	4	#4	STR.	19'-9"	53	A456	2	#4	STR.	5'-10"	8
A205	2	#4	STR.	3'-5"	5	A105	4	#4	STR.	18'-0"	48	A457	2	#4	STR.	4'-2"	6
A206	2	#4	STR.	10'-0"	13	A106	4	#4	STR.	16'-3"	43	A458	2	#4	STR.	2'-5"	3
A207	2	#4	STR.	8'-6"	11	A107	4	#4	STR.	14'-6"	39	A459	2	#4	STR.	14'-7"	19
A208	2	#4	STR.	6'-9"	9	A108	4	#4	STR.	12'-10"	34	A460	2	#4	STR.	12'-10"	17
A209	2	#4	STR.	5'-0"	7	A109	4	#4	STR.	11'-1"	30	A461	2	#4	STR.	11'-1"	15
A210	2	#4	STR.	3'-3"	4	A110	4	#4	STR.	9'-4"	25	A462	2	#4	STR.	9'-5"	13
						A111	4	#4	STR.	7'-7"	20	A463	2	#4	STR.	7'-8"	10
A400	162	#4	STR.	11'-9"	1272	A112	4	#4	STR.	5'-10"	16	A464	2	#4	STR.	5'-11"	8
A401	2	#4	STR.	10'-4"	14	A113	4	#4	STR.	4'-2"	11	A465	2	#4	STR.	4'-2"	6
A402	2	#4	STR.	8'-7"	11							A466	2	#4	STR.	2'-5"	3
A403	2	#4	STR.	6'-11"	9	A250	157	#4	STR.	16'-0"	1678	B1	118	#4	STR.	11'-0"	867
A404	2	#4	STR.	5'-2"	7	A251	2	#4	STR.	14'-6"	19	B2	176	#4	STR.	9'-4"	1097
A405	2	#4	STR.	3'-5"	5	A252	2	#4	STR.	12'-10"	17	B3	176	#4	STR.	11'-0"	1293
A406	2	#4	STR.	10'-0"	13	A253	2	#4	STR.	11'-1"	15						
A407	2	#4	STR.	8'-6"	11	A254	2	#4	STR.	9'-4"	12	C1	304	#4	STR.	23'-6"	4772
A408	2	#4	STR.	6'-9"	9	A255	2	#4	STR.	7'-7"	10						
A409	2	#4	STR.	5'-0"	7	A256	2	#4	STR.	5'-10"	8	D1	8	#6	STR.	2'-4"	28
A410	2	#4	STR.	3'-3"	4	A257	2	#4	STR.	4'-2"	6						
						A258	2	#4	STR.	2'-5"	3	G1	8	#5	STR.	30'-4"	253
B1	118	#4	STR.	11'-0"	867	A259	2	#4	STR.	14'-7"	19						
B2	176	#4	STR.	9'-4"	1097	A260	2	#4	STR.	12'-10"	17	S2	6	#8	STR.	30'-4"	486
B3	176	#4	STR.	11'-0"	1293	A261	2	#4	STR.	11'-1"	15	S4	6	#8	STR.	18'-5"	295
						A262	2	#4	STR.	9'-5"	13						
C1	136	#4	STR.	23'-6"	2135	A263	2	#4	STR.	7'-8"	10						
						A264	2	#4	STR.	5'-11"	8						
D1	8	#6	STR.	2'-4"	28	A265	2	#4	STR.	4'-2"	6						
						A266	2	#4	STR.	2'-5"	3						
E1	16	#5	STR.	3'-8"	61												
						A300	145	#4	STR.	26'-3"	2543						
S3	6	#8	STR.	16'-10"	270	A301	4	#4	STR.	24'-11"	67						
						A302	4	#4	STR.	23'-2"	62						
						A303	4	#4	STR.	21'-6"	57						
						A304	4	#4	STR.	19'-9"	53						
						A305	4	#4	STR.	18'-0"	48						
						A306	4	#4	STR.	16'-3"	43						
						A307	4	#4	STR.	14'-6"	39						
						A308	4	#4	STR.	12'-10"	34						
						A309	4	#4	STR.	11'-1"	30						
						A310	4	#4	STR.	9'-4"	25						
						A311	4	#4	STR.	7'-7"	20						
						A312	4	#4	STR.	5'-10"	16						
						A313	4	#4	STR.	4'-2"	11						

PHASE 1 REINFORCING STEEL 9984 LBS.

PHASE 2 REINFORCING STEEL 19924 LBS.

PHASE 1 QUANTITIES

CLASS A CONCRETE	
BARREL	68.7 C.Y.
WINGS ETC.	20.4 C.Y.
TOTAL	89.1 C.Y.

REINFORCING STEEL	
BARREL	9984 LBS.
WINGS ETC.	1392 LBS.
TOTAL	11376 LBS.

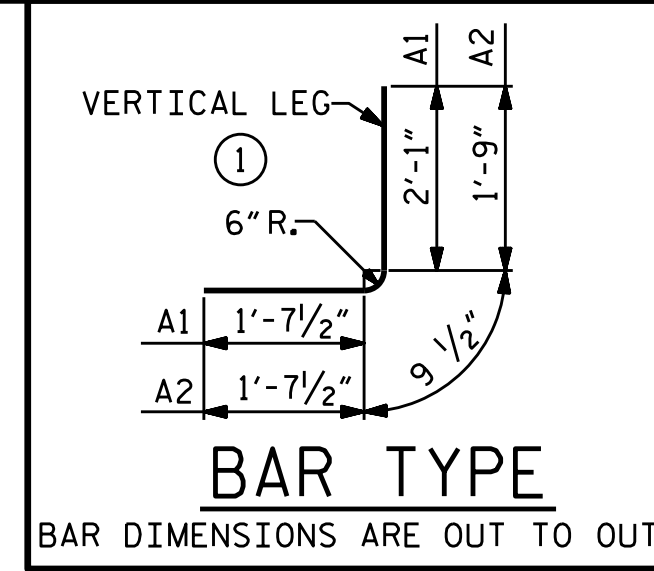
CULVERT EXCAVATION	LUMP SUM
FOUNDATION CONDITIONING MATERIAL.	157 TONS

PHASE 2 QUANTITIES

CLASS A CONCRETE	
BARREL	149.7 C.Y.
WINGS ETC.	24.2 C.Y.
TOTAL	173.9 C.Y.

REINFORCING STEEL	
BARREL	19924 LBS.
WINGS ETC.	1392 LBS.
TOTAL	21316 LBS.

CULVERT EXCAVATION	LUMP SUM
FOUNDATION CONDITIONING MATERIAL.	178 TONS

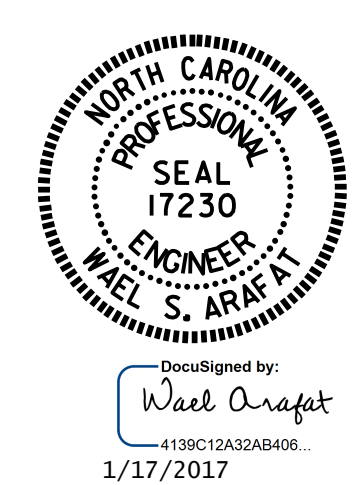


BAR TYPE

BAR DIMENSIONS ARE OUT TO OUT

PROJECT NO. I-5000
GASTON COUNTY
STATION: 18+50.00 -RPD-

SHEET 6 OF 7



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TRIPLE 8 FT. X 10 FT.
RCBC
66°-00'-00" SKEW

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	C-24
1			3			TOTAL SHEETS
2			4			26

DRAWN BY: H. T. BARBOUR DATE: 9-27-16
CHECKED BY: A. M. LEE DATE: 10-16
DESIGN ENGINEER OF RECORD: O. PUIGSERVER DATE: 11-16