

STRUCTURE QUANTITIES

CLASS 'A' CONCRETE:

BARREL @ 1.802 CY/FT = 100.9 CY.

WING, ETC. 24.9 CY.

EDGE BEAM 1.0 CY.

RND OF EXIST'g BARREL R.F.P.A. 4.0 CY.

TOTAL 130.8 CY.

REINFORCING STEEL:

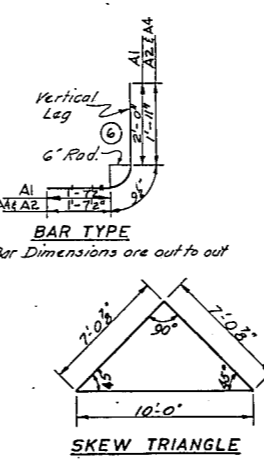
BARREL 16639 LBS.

WING, ETC. 2850 LBS.

TOTAL 19489 LBS.

FOUND. COND. MAT'L. 44 TONS

CULV. EXCAV. LUMP SUM



REINFORCING STEEL BAR SCHEDULE

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A1	158	6	6	4'-5"	1048
A2	158	6	6	4'-4"	1028
A4	5	6	6	4'-4"	33
A100	88	4	STR	15'-6"	911
A101	6	4	STR	14'-1"	56
A102	6	4	STR	12'-8"	51
A103	6	4	STR	11'-8"	45
A104	6	4	STR	9'-11"	40
A105	6	4	STR	8'-7"	34
A106	6	4	STR	7'-2"	29
A107	6	4	STR	5'-10"	23
A108	6	4	STR	4'-5"	18
A109	6	4	STR	3'-1"	12
A200	98	4	STR	15'-6"	911
A201	6	4	STR	14'-1"	56
A202	6	4	STR	12'-8"	51
A203	6	4	STR	11'-8"	45
A204	6	4	STR	9'-11"	40
A205	6	4	STR	8'-7"	34
A206	6	4	STR	7'-2"	29
A207	6	4	STR	5'-10"	23
A208	6	4	STR	4'-5"	18
A209	6	4	STR	3'-1"	12
A300	57	7	STR	15'-5"	1806
A301	4	7	STR	14'-0"	114
A302	4	7	STR	12'-7"	103
A303	4	7	STR	11'-2"	91
A304	4	7	STR	9'-9"	80
A305	4	7	STR	6'-4"	68
A306	4	7	STR	6'-11"	57
A307	4	7	STR	5'-6"	45
A308	4	7	STR	4'-1"	33
A309	4	7	STR	2'-8"	22
A400	57	7	STR	15'-6"	1806
A401	4	7	STR	14'-0"	114
A402	4	7	STR	12'-7"	103
A403	4	7	STR	11'-2"	91
A404	4	7	STR	9'-9"	80
A405	4	7	STR	8'-4"	68
A406	4	7	STR	6'-11"	57
A407	4	7	STR	5'-6"	45
A408	4	7	STR	4'-1"	33
A409	4	7	STR	2'-8"	22
B1	150	4	STR	10'-5"	1044
B2	158	4	STR	8'-4"	880
B3	112	4	STR	10'-5"	779
C1	166	4	STR	28'-5"	3151
D1	32	6	STR	1'-6"	72
D2	4	6	STR	0'-7"	4
G1	8	5	STR	22'-0"	184
J2	6	7	STR	10'-9"	132
K1	11	5	STR	5'-2"	59
M1	5	7	STR	22'-0"	225
S2	12	8	STR	22'-0"	702
TOTAL					16617

NOTES

ASSUMED LIVE LOAD HS20-44 OR ALTERNATE LOADING

DESIGN FILL 15.06 FT.

3" Ø WEEP HOLES INDICATED TO BE IN ACCORD WITH THE SPECIFICATIONS.

CONCRETE IN CULVERTS TO BE POURED IN THE FOLLOWING ORDER:

1. WING FOOTINGS AND FLOOR SLAB INCLUDING 3 1/2" OF ALL VERTICAL WALLS.
2. THE REMAINING PORTIONS OF THE WALLS AND THE WINGS FULL HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS.

THE CONTRACTOR SHALL CHECK THE LENGTH OF CURVE BEFORE STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE OF THE FILL.

STEEL IN THE BOTTOM SLAB MAY BE SPICED AT THE PERMITTED CONSTRUCTION AT THE CONTRACTORS OPTION. EXTRA WEIGHT OF STEEL DUE TO THE SPICES SHALL BE PAID FOR BY THE CONTRACTOR.

ALL REINFORCING STEEL SHALL BE GRADE 60

AT THE CONTRACTORS OPTION, HE MAY SPICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF THE EXTERIOR WALL AND BOTH FACES OF THE INTERIOR WALLS ABOVE LOWER WALL CONSTRUCTION JOINT. THE SPICE LENGTH SHALL BE AS PROVIDED IN THE SPICE LENGTH CHART AS SHOWN IN THE PLANS. EXTRA WEIGHT OF STEEL DUE TO THE SPICES SHALL BE PAID FOR BY THE CONTRACTOR.

FOR REMOVAL OF EXISTING CONCRETE AND BONDING OF NEW CONCRETE TO OLD CONCRETE, SEE STANDARD SPECIFICATIONS FOR 'BONDING' - EXISTING REINFORCING STEEL EXPOSED BY THE REMOVAL OF OLD CONCRETE SHALL LEFT IN PLACE TO EXTEND INTO NEW CONCRETE.

DOWELS WHEN INDICATED ON PLANS AS FOR CULVERT EXTENSIONS, SHALL EMBEDDED AT LEAST 12" INTO THE OLD CONCRETE AND GROUTED INTO PLACE WITH 1:2 CEMENT MORTAR.

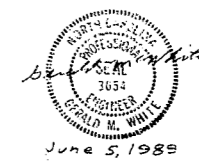
REPAIR TO END OF EXISTING BARREL SHALL BE COMPLETED BEFORE CULVERT IS EXTENDED.

FOR REPAIR OF CRACKED EXTERIOR WALL AT END OF EXISTING CULVERT, SEE DETAILS SHEET 5 OF 5.

ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CURRENT NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAYS AND STRUCTURES, AND THE CURRENT A.A.S.H.T.O. SPECIFICATIONS.

SPICE LENGTHS

NO. 4	1'-4"
NO. 5	1'-8"
NO. 6	2'-1"
NO. 7	2'-10"
NO. 8	3'-8"



NC 55 WIDENING

HUGH J. GILLEECE & ASSOC.
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REVISIONS Approved 11/1/89

DESIGNER	DATE	SHEET
DRAWN BY	SCALE	C-1
CHECKED BY	JOB NO.	OF 5