

ASSEMBLED BY: K.W. ALFORD DATE: 3/03
CHECKED BY: P. SPROUSE DATE: 3/03

DRAWN BY: R.W. WRIGHT DATE: AUG. 1989
CHECKED BY: A.R. BISSETTE DATE: AUG. 1989

SPECIAL

STANDARD

= 365.380 = 2:1

HYDROGRAPHIC DATA

= 515 cfs = 50 YR = 375.21 = 197 AC. = 585 cfs = 375.99

OVERTOPPING FLOOD DATA

= 925+ cfs = 500 + YR= 395.44

REINFORCING BAR

SCHEDULE FOR BARREL								
NO.	SIZE	TYPE	LENGTH	WEIGHT				
1250	5	6	4′-8″	6084				
1250	5	6	4′-9″	6193				
556	7	STR	8'-11"	10133				
3	7	STR	7'-1"	43				
3	7	STR	5'-4"	33				
3	7	STR	3'-7"	22				
5	7	STR	9'-11"	101				
6	7	STR	10'-11"	134				
5	7	STR	11'-11"	122				
570	7	STR	8'-11"	10389				
5	7	STR	9'-11"	101				
4	7	STR	10'-11"	89				
5	7	STR	11'-11"	122				
9	4	STR	8'-11"	54				
812	4	STR	7′-5″	4023				
1250		STR	5′-4″	4453				
540	4	STR	29'-6"	10641				
50	4	STR	11'-8"	390				
8	4	STR	9'-0"	48				
23	6	STR	3'-0"	104				
66	4	STR	6'-5"	283				
1	4	STR	8'-1"	5				
1	4	STR	9'-9"	7				
2	4	STR	12'-8"	17				
2	4	STR	13'-0"	17				
3	8	STR	12′-8″	101				
	NO. 1250 1250 556 3 3 565 570 54 5 9 812 1250 540 50 8 23 66 1 1 22	NO. SIZE 1250 5 1250 5 556 7 3 7 5 7 5 7 5 7 5 7 9 4 812 4 1250 4 540 4 500 4 500 4 8 4 23 6 66 4 1 4 1 4 2 4 2 4	NO. SIZE TYPE 1250 5 6 1250 5 6 556 7 STR 3 7 STR 3 7 STR 3 7 STR 5 7 STR 9 4 STR 9 4 STR 540 4 STR 50 4 STR 50 4 STR 23 6 STR 66 4 STR 1 4 STR 2 4 STR 2 4 STR 3 5 TR	NO. SIZE TYPE LENGTH 1250				

PROFILE ALONG & CULVERT

NOTES

ASSUMED LIVE LOAD -----HS20-44 OR ALTERNATE LOADING.

DESTGN FILL----- 26.31'

FOR OTHER DESIGN DATA AND NOTES SEE STANDARD NOTE SHEET.

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

CONCRETE IN CULVERTS TO BE POURED IN THE FOLLOWING ORDER:

- 1. WING FOOTINGS AND FLOOR SLAB INCLUDING 4"OF ALL VERTICAL WALLS
- 2. THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS.

THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE OF THE FILL.

DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL EMBEDDED IN BARREL ARE SHOWN ON WING SHEET.

TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED IN THE BARREL, SPACED TO LIMIT THE POURS TO A MAXIMUM OF 70 FT. LOCATION OF JOINTS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.

AT THE CONTRACTOR'S OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF EXTERIOR WALL ABOVE LOWER WALL CONSTRUCTION JOINT. THE SPLICE LENGTH SHALL BE PROVIDED IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS. EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.

AT THE CONTRACTOR'S OPTION THE VERTICAL CONSTRUCTION JOINT BETWEEN THE OUTLET WINGS AND THE BARREL MAY BE ELIMINATED AND THE "C" BARS IN THE BARREL MAY BE EXTENDED TO REPLACE THE "D" AND "H" BARS IN THE WINGS AND SLAB.

NO PRECAST CONCRETE BOX CULVERT OPTION WILL BE ALLOWED.

FOR SUBMITTAL OF WORKING DRAWINGS. SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK. SEE SPECIAL PROVISIONS.

A 3 FOOT STRIP OF FILTER FABRIC SHALL BE ATTACHED TO THE FILL FACE OF THE WING CONVERING THE ENTIRE LENGTH OF THE EXPANSION JOINT.

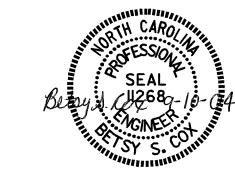
FOR CULVERT DIVERSION DETAILS AND PAY ITEM, SEE EROSION CONTROL PLANS.

TOTAL STRUCTURE QUANTITIES

CLASS A CONCRETE		,					
BARREL & TAPERED INLET	331.8	C.Y.					
INLET WING ETC.	8.2	C.Y.					
OUTLET WING ETC.	11.6	C.Y.					
TOTAL	351.6	C.Y.					
REINFORCING STEEL							
BARREL & TAPERED INLET_	53709	LBS.					
TNIFT WINGS FIC	396	IRS					

INLE! WINGS EIC. OUTLET WINGS ETC.

54962 CULVERT EXCAVATION ----- LUMP SUM FOUNDATION COND. MAT'L ----- 235 TONS



PROJECT NO. R-2417BB LEE COUNTY

STATION: 532+67.00 -L-

SHEET 1 OF 5

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BARREL STANDARD SINGLE 8 FT. X 6 FT. CONCRETE BOX CULVERT WITH SIDE TAPERED INLET

AUGUST		4	6°	SK	EW	1989
REVISIONS					SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	C-7
1			3			TOTAL SHEETS
2			4			11

STD. NO. CB41A