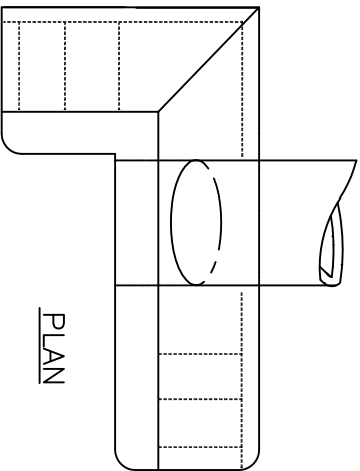
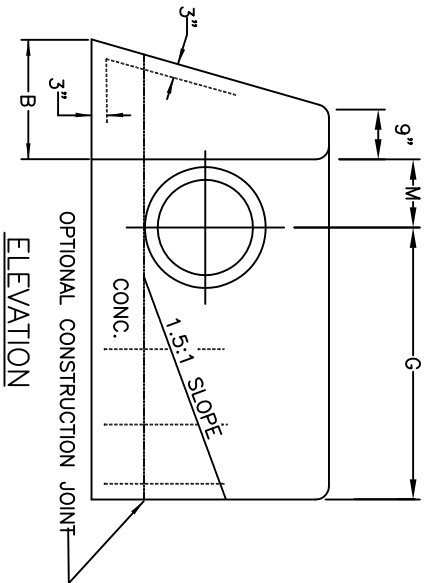


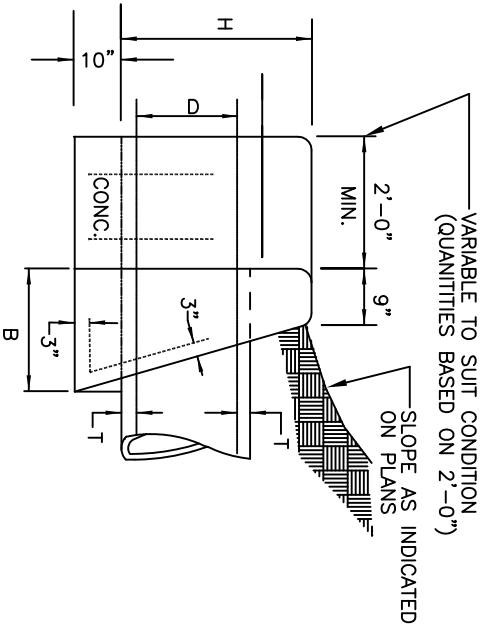


PLAN



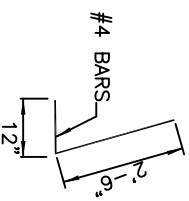
OPTIONAL CONSTRUCTION JOINT ELEVATION

- GENERAL NOTES:**
1. ALL CORNERS ARE TO BE CHAMFERED 1".
 2. THE CONTRACTOR WILL BE REQUIRED TO PLACE 2-# 6 BARS "Y" IN THE TOP OF ALL ENDWALLS FOR PIPE CULVERTS 42" AND OVER WITH A MINIMUM OF 3" COVER AND A LENGTH OF 6" LESS THAN ENDWALLS.
 3. IF CONTRACTOR ELECTS TO USE CONSTRUCTION JOINT AT BOTTOM OF PIPE, BAR "X" (DOWELS) SHALL BE PLACED IN THE BASE AS SHOWN OF PLANS, SPACING TO BE APPROXIMATELY 12" CENTERS UNLESS ENGINEER DIRECTS OTHERWISE.
 4. WHEN CONTRACTOR ELECTS TO USE CONSTRUCTION JOINT AT BOTTOM OF PIPE AND POURS SEPARATELY, THE TOP OF BASE SHALL BE LEFT ROUGH.
 5. FORMS ARE TO BE USED FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
 6. ALL CONCRETE TO BE 3600 P.S.I. COMPRESSIVE STRENGTH.



END ELEVATION

DIMENSIONS AND QUANTITIES									
COMMON DIMENSIONS					COMMON DIMENSIONS				
D	H	B	G	M	T	USING RC PIPE CU. YD.	H	B	G
15"	3'-4"	1'-8"	2'-9"	1'-0"	1 7/8"	0.960	3'-0"	1'-6"	2'-6"
18"	3'-7"	1'-10"	3'-2"	1'-2"	2"	1.193	3'-3"	1'-8"	2'-11"
24"	4'-2"	2'-1"	4'-0"	1'-5"	2 1/2"	1.711	3'-9"	1'-11"	3'-8"
30"	4'-9"	2'-5"	4'-7"	1'-9"	2 3/4"	2.394	4'-3"	2'-2"	4'-5"
36"	5'-3"	2'-8"	5'-5"	2'-0"	3"	3.169	4'-9"	2'-5"	4'-5"
42"	5'-10"	2'-11"	6'-4"	2'-4"	3 1/2"	4.139	5'-3"	5'-3"	5'-11"
48"	6'-5"	3'-3"	7'-3"	2'-8"	4"	5.422	5'-9"	2'-11"	6'-8"



DOWEL BAR "X"

REINFORCING QUANTITIES		
DIA.	BAR	QTY.
15"	"X"	5
18"	"X"	5
24"	"X"	6
30"	"X"	6
36"	"X"	7
42"	"X"	7
42"	"Y"	2
42"	"X"	7
48"	"Y"	2
48"	"X"	8
48"	"Y"	2

APPROVED DATE _____

REVISIONS			CONCRETE "L" ENDWALL FOR SINGLE PIPE CULVERTS 15" THRU 48" PIPE		CITY OF MONROE UNION COUNTY NORTH CAROLINA ENGINEERING DEPARTMENT		FILE: I:/Maps-Details/Detail Manual/Details DRAWN BY: JAM CHECKED BY: JNL DATE: 08-07-01 SCALE: N.T.S.	
NO.	DATE							
DETAIL		04.03.03						