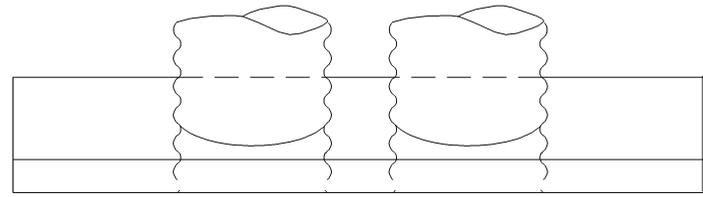
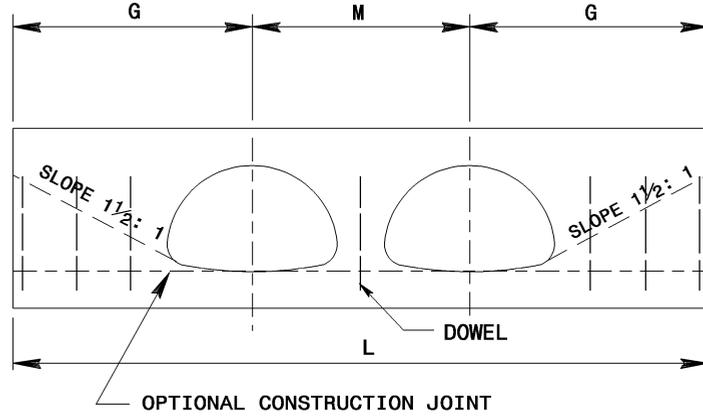


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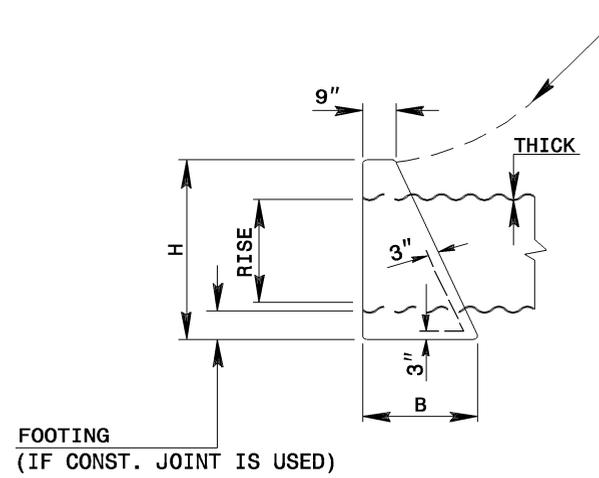
**PLAN**



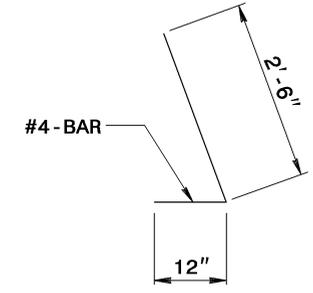
**ELEVATION**

**GENERAL NOTES:**

- CHAMFER ALL CORNERS 1". USE CLASS "B" CONCRETE.
- PLACE 2 #6 "Y" BARS IN THE TOP OF ALL ENDWALL FOR PIPE CULVERTS 42" AND OVER WITH A MINIMUM OF 3" COVER AND A LENGTH OF 6" LESS THAN ENDWALL LENGTH.
- CONSTRUCT BOTTOM SLAB WITH FORMS.
- WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE, PLACE BAR "X" DOWELS IN THE BASE AS SHOWN ON PLANS. SPACE BARS APPROXIMATELY ON 12" CENTERS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE AND POUR THE BASE SEPARATELY LEAVE THE POUR ROUGH.
- DO NOT INTERPRET WALL THICKNESS (T) SHOWN FOR THE THICKNESS ACCEPTABLE, BUT IS USED IN COMPUTING ENDWALL QUANTITIES.



**END ELEVATION**



**DOWEL BAR - "X"**

		DOWELS IN ENDWALL									
LOC.	PIPE	SINGLE PIPE					DOUBLE PIPE				
		40"	46"	53"	60"	66"	40"	46"	53"	60"	66"
BARS		"X"	"X"	"X"	"X"	"X"	"X"	"X"	"X"	"X"	"X"
G	QTY.	4	4	4	5	5	4	4	4	5	5
M	QTY.	-	-	-	-	-	1	2	2	2	2
G	QTY.	4	4	4	5	5	4	5	5	5	5
TOT. LBS.		19	19	19	23	23	21	23	23	28	28

DIMENSIONS AND CONCRETE QUANTITIES										
COMMON DIMENSIONS USING C.S. PIPE ARCH							SINGLE PIPE		DOUBLE PIPE	
SPAN	RISE	THICK.	H	B	G	M	L	YD <sup>3</sup>	L	YD <sup>3</sup>
40"	31"	0.079	4'-3"	2'-2"	5'-6"	4'-5"	11'-0"	2.179	15'-5"	2.848
46"	36"	0.109	4'-8"	2'-4"	6'-3"	5'-1"	12'-6"	2.834	17'-7"	3.692
53"	41"	0.109	5'-1"	2'-7"	7'-1"	5'-10"	14'-2"	3.742	20'-0"	4.868
60"	46"	0.109	5'-6"	2'-9"	7'-11"	6'-10"	15'-10"	4.717	22'-8"	6.234
66"	51"	0.109	5'-11"	3'-0"	8'-9"	7'-4"	17'-6"	5.968	24'-10"	7.759

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