



DOWELS IN ENDWALL WITH REINFORCED CONCRETE PIPE

LOC.	PIPE DIA.	SINGLE PIPE								DOUBLE PIPE									
		15"	18"	24"	30"	36"	42"		48"		15"	18"	24"	30"	36"	42"		48"	
	BARS	X	X	X	X	X	X	Y	X	Y	X	X	X	X	X	X	Y	X	Y
G	QTY.	2	2	3	3	4	4		5		2	2	3	3	4	4		5	
M	QTY.	-	-	-	-	-	-	2	-	2	1	1	2	2	2	2	2	3	2
G	QTY.	2	2	3	3	4	4		5		2	2	3	3	4	4		5	

DIMENSIONS USING CONCRETE PIPE

D	COMMON DIMENSIONS					SINGLE PIPE		DOUBLE PIPE	
	H	B	G	T	S	L	M	L	
15"	3'-3"	1'-8"	2'-9"	2 1/4"	9 1/2"	5'-6"	2'-2"	7'-8"	
18"	3'-7"	1'-10"	3'-2"	2 1/2"	10"	6'-4"	2'-7"	8'-11"	
24"	4'-2"	2'-1"	4'-0"	3"	10"	8'-0"	3'-5"	11'-5"	
30"	5'-0"	2'-6"	4'-7"	4 1/4"	11 1/2"	9'-2"	4'-3"	13'-5"	
36"	5'-8"	2'-8"	5'-6"	4 3/4"	11 1/2"	11'-0"	5'-0"	16'-0"	
42"	6'-2"	3'-1"	6'-4"	5 1/4"	11 1/2"	12'-8"	5'-10"	18'-6"	
48"	6'-9"	3'-5"	7'-2"	5 3/4"	11 1/2"	14'-4"	6'-8"	21'-0"	

General Notes

1. CONCRETE SHALL BE 4000 PSI MINIMUM
2. REINFORCING STEEL TO MEET ASTM-706 or ASTM 615 FOR GRADE 60
3. ALL PRECAST ELEMENTS SHALL MEET ASTM-C913



CATCH BASINS
CONCRETE PIPE
HEADWALLS
CAST IRON GRATES & FRAMES

MID-ATLANTIC DRAINAGE, INC.

1124 WHITE OAK LANE
COLUMBIANA, OHIO 43944
(614) 358-4206

Straight
Headwall

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