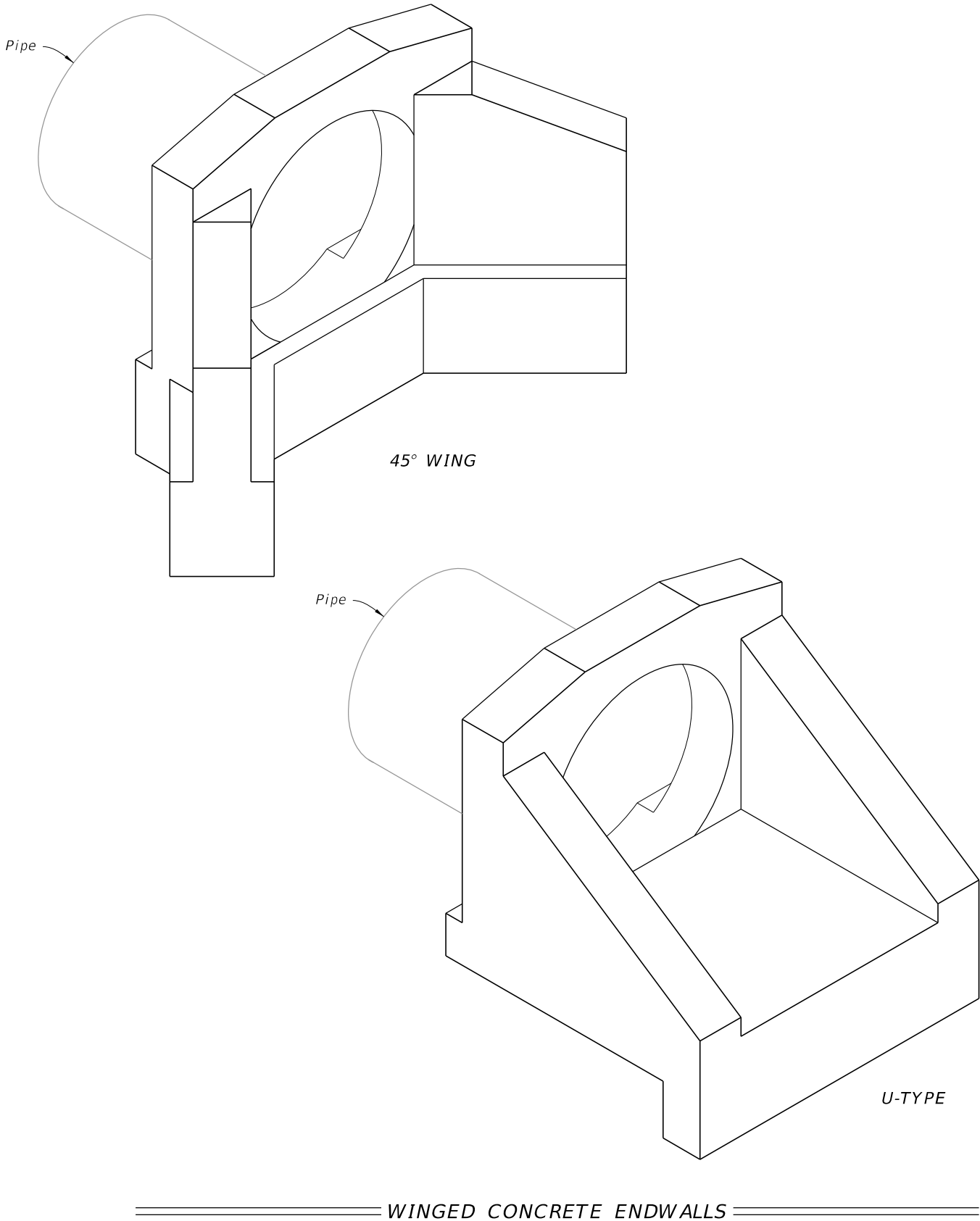


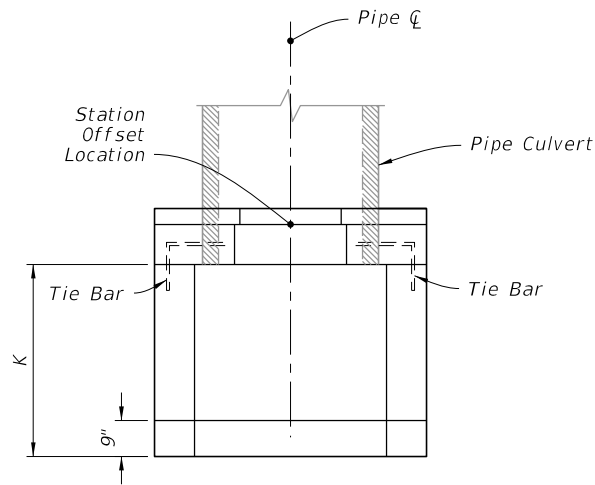
GENERAL NOTES:

- 1. Use Class II concrete.
- 2. Chamfer all exposed edges and corners $\frac{3}{4}$ " unless otherwise shown.
- 3. Quantities shown are for estimating purposes only.

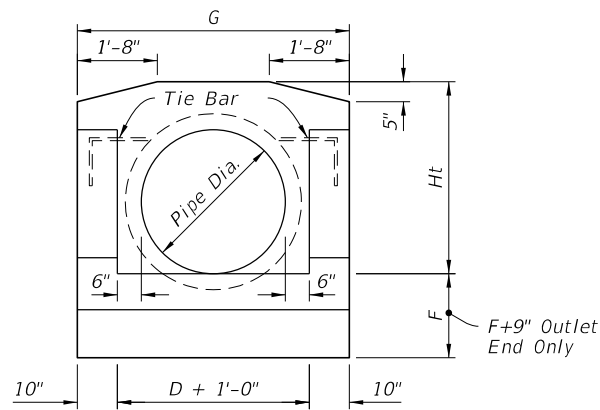
TABLE OF CONTENTS:	
Sheet	Description
1	General Notes and Contents
2	U-Type and 45° Endwalls



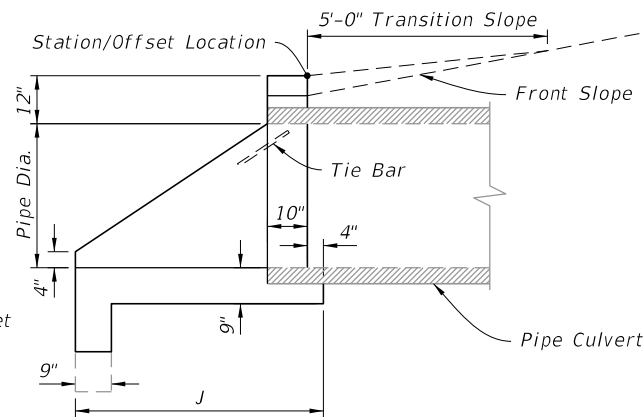
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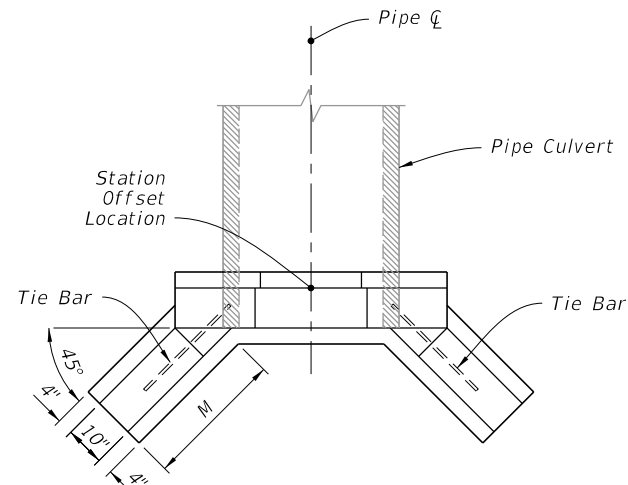
FRONT ELEVATION



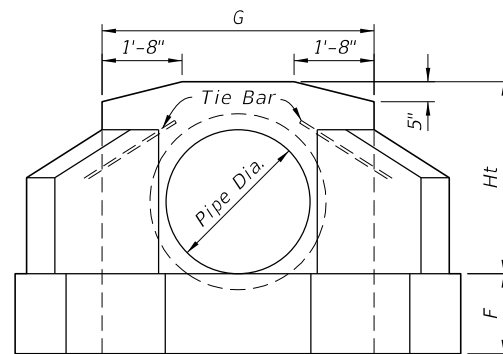
SIDE ELEVATION

DIMENSIONS							QUANTITIES IN ONE ENDWALL					
Pipe		Wall			Footing		Concrete, Class II, Total (CY)					
Dia. D	Area (ft ²)	G	Ht	K	F	J	RCP		CMP		CIP	
							Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
15"	1.2	3'-11"	2'-3"	1'-5"	1'-3"	2'-7"	0.59	0.67	0.62	0.70	0.61	0.70
18"	1.8	4'-2"	2'-6"	1'-9"	1'-3"	2'-11"	0.70	0.79	0.74	0.82	0.74	0.82
24"	3.1	4'-8"	3'-0"	2'-6"	1'-6"	3'-8"	1.01	1.11	1.06	1.16	1.06	1.16
30"	4.9	5'-2"	3'-6"	3'-3"	1'-6"	4'-5"	1.33	1.44	1.41	1.51	1.40	1.51
36"	7.1	5'-8"	4'-0"	4'-0"	1'-9"	5'-2"	1.73	1.85	1.84	1.96	1.82	1.94
42"	9.6	6'-2"	4'-6"	4'-9"	2'-0"	5'-11"	2.19	2.32	2.32	2.45		
48"	12.6	6'-8"	5'-0"	5'-6"	2'-0"	6'-8"	2.64	2.78	2.81	2.95		

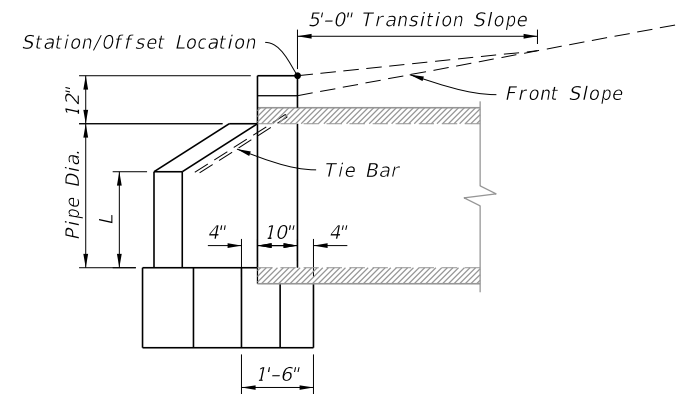
ENDWALL WITH U-TYPE WINGS



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FRONT ELEVATION



SIDE ELEVATION

TABLE 2 DIMENSIONS AND ESTIMATED QUANTITIES PIPE CULVERT ENDWALLS WITH 45° WINGS										
DIMENSIONS							QUANTITIES IN ONE ENDWALL			
Pipe		Wall				Footing	Concrete, Class II			Steel Tie Bars
Dia. D	Area (ft²)	Ht	G	L	M	F	Total (CY)			
							RCP	CMP	CIP	
15"	1.2	2'-3"	3'-7"	1'-0"	1'-3"	1'-3"	0.56	0.59	0.59	none
18"	1.8	2'-6"	3'-10"	1'-2"	1'-7"	1'-3"	0.74	0.77	0.77	none
24"	3.1	3'-0"	4'-4"	1'-5"	2'-1"	1'-4"	1.01	1.06	1.06	2 -#6 Bars x 2'-0"
30"	4.9	3'-6"	4'-10"	1'-9"	2'-5"	1'-6"	1.32	1.40	1.39	2 -#6 Bars x 2'-0"
36"	7.1	4'-0"	5'-4"	2'-0"	2'-11"	1'-8"	1.72	1.83	1.82	2 -#6 Bars x 2'-6"
42"	9.6	4'-6"	5'-10"	2'-3"	3'-6"	2'-0"	2.34	2.47		2 -#6 Bars x 2'-6"
48"	12.6	5'-0"	6'-4"	2'-6"	4'-0"	2'-0"	2.74	2.90		2 -#6 Bars x 2'-6"

ENDWALL WITH 45° WINGS

U-TYPE AND 45° ENDWALLS

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