

DIMENSIONS AND QUANTITIES FOR ONE SLOPED HEADWALL TYPE III

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	PIPE		DIMENSIONS									PRE CAST		WELDED WIRE	REINF. STEEL					
1 TO 3 SLOPE	I.D.	Α	В	С	N	М	Р	S	L	٧	W	CONC. CU. YD.	PLACE CU. YD.	FABRIC SQ. YD.	MARK	SIZE	NO.	LENGTH	LBS.	
	6"	9′′	23/4′′	1′-9¾′′	1'-0''	1′-8′′ 1	′-6¾′′	2′-111/4′′	7′-2′′	1'-0''	3′-6′′	.19	. 51	2.67	d6	#4	12	2′-0′′	16	
	12"	1'-31/2''	23/4′′	2'-41/4''	1'-0''	1′-8′′ 1	′-6¾′′	4'-6¾''	8'-91/2''	1'-0''	4′-0''	.36	.65	3.80	d12	#4	14	2'-0''	19	
	15"	1'-61/2''	23/4′′	2'-71/4''	1'-0''	1'-8'' 1	′-6¾′′	5′-3¾′′	9'-61/2''	1'-0''	4′-3′′	.47	.73	5.13	d15	#4	16	2'-0''	21	
	18"	1'-10''	2¾"	2′-10¾′′	1'-0''	1'-8'' 1	′-6¾′′	6'-21/4''	10′-5′′	1'-0''	4′-6′′	.61	.80	5.65	d18	#4	18	2'-0''	24	
	21''	2'-1"	2¾′′	3'-13/4''	1'-0''	1'-9" 1	′-6¾′′	6'-11 ¹ / ₄ ''	11'-3''	1'-3''	5′-3′′	.74	1.0	7.42	d21	#4	22	2'-0''	29	
	24"	2'-41/2''	23/4''	3′-51/4′′	1'-0''	2'-0''1	′-6¾′′	7′-9¾′′	12'-41/2''	1′-6′′	6′-0′′	.86	1.24	8.80	d24	#4	24	2'-0''	32	
	27''	2'-71/2''	23/4''	3'-81/4''	1'-11/2'	2′-3′′1	′-6¾′′	8'-6¾''	13′-6′′	1'-9''	6′-9′′	1.03	1.53	12.35	d27	#4	24	2'-0''	32	
	30"	2'-11''	23/4''	3′-11¾′′	1'-3''	2′-6′′1	′-6¾′′	9′-51/4′′	14'-9''	2'-0''	7′-6′′	1.22	2.00	15.08	d30	#4	26	2'-0''	35	
1 TO 4 SLOPE	PIPE	DIMENSIONS											CAST-IN-	WELDED WIRE	REINF. STEEL					
	I.D.	А	В	С	N	М	Р	S	L	٧	W	CONC.	PLACE CU. YD.	FABRIC SQ. YD.	MARK	SIZE	NO.	LENGTH	LBS.	
	6′′	9"	2''	1'-9''	1'-0''	1'-8''	2'-1''	3′-8′′	8′-5′′	1'-0''	3′-6′′	.21	. 57	3.27	d6	#4	12	2'-0''	16	
	12"	1'-31/2''	2′′	2'-31/2"	1'-0''	1'-8''	2'-1''	5′-10′′	10′-7′′	1'-0''	4'-0''	.44	.75	4.58	d12	#4	16	2'-0''	21	
	15"	1'-61/2''	2''	2'-61/2"	1'-0''	1'-8''	2'-1''	6′-10′′	11'-7''	1'-0''	4'-3''	. 57	.83	5.66	d15	#4	18	2'-0''	24	
	18"	1'-10''	2''	2'-10''	1'-0''	1'-8''	2'-1''	8'-0''	12'-11''	1'-0''	4'-6''	.73	.93	7.57	d18	#4	22	2'-0''	29	
	21''	2'-1''	2''	3′-1′′	1'-0''	1'-9''	2'-1''	9′-0′′	13′-10′′	1'-3''	5′-3′′	.89	1.16	9.83	d21	#4	24	2'-0''	32	
	24''	2'-41/2''	2"	3'-41/2''	1'-0''	2'-0''	2'-1''	10'-2"	15'-3''	1'-6''	6′-0′′	1.12	1.45	12.51	d24	#4	28	2'-0''	37	
	27''	2'-71/2''	2"	3'-71/2"	1'-11/2''	2'-3''	2'-1''	11'-2"	16'-7''	1'-9''	6′-9′′	1.32	1.77	13.28	d27	#4	30	2'-0''	40	
	30′′	2'-11''	2"	3′-11′′	1′-3′′	2′-6′′	2′-1′′	12'-4''	18'-2''	2'-0''	7′-6′′	1.58	2.14	18.77	d30	#4	32	2'-0''	43	
1 TO 6 SLOPE	DIDE		DIMENSIONS											WELDED WIRE	REINF. STEEL					
	PIPE I.D.	А	В	С	N	М	Р	S	L	٧	W		CAST-IN- PLACE CU. YD.	FABRIC SQ. YD.	MARK	SIZE	NO.	LENGTH	LBS.	
	6′′	9"	11/2"	1'-81/2''	1'-0''	1'-8''	3′-0′′	5′-3′′	10'-11'	1'-0''	3′-6′′	.29	.71	4.11	d6	#4	16	2'-0''	21	
	12''	1'-31/2''	11/2"	2'-3''	1'-0''	1'-8''	3′-0′′	8′-6′′	14'-2''	1'-0''	4'-0''	.60	.96	7.27	d12	#4	22	2'-0''	29	
	15''	1'-61/2''	11/2"	2'-6''	1'-0''	1'-8''	3'-0''	10'-0'	15′-8′′	1'-0''	4'-3''	.79	1.07	8.91	d15	#4	26	2'-0''	35	
	18"	1'-10''	11/2"	2'-91/2''	1'-0''	1'-8''	3′-0′′	11'-9''	17'-5''	1'-0''	4′-6′′	1.03	1.20	10.95	d18	#4	28	2'-0''	37	
	21''	2'-1''	11/2"	3′-01/2′′	1'-0''	1'-9''	3'-0''	13'-3''	19'-0''	1'-3''	5′-3′′	1.29	1.51	14.00	d21	#4	34	2'-0''	45	
	24''	2'-41/2''	11/2"	3'-4''	1'-0''	2'-0''	3'-0''	15'-0''	21'-0''	1'-6''	6′-0′′	1.59	1.89	15.49	d24	#4	38	2'-0''	51	
	27''	2'-71/2''	11/2"	3′-7′′	1'-11/2''	2'-3''	3'-0''	16′-6′′	22-101/2	" 1'-9"	6′-9′′	1.90	2.30	21.82	d27	#4	40	2′-0′′	53	
	30"	2'-11''	11/2"	3′-101/2′′	1'-3''	2'-6''	3'-0''	18'-3"	25′-0′′	2′-0′′	7′-6′′	2.27	2.79	26.60	d30	#4	44	2'-0''	59	

NOTES:

- THE CAST IN PLACE (CIP) SLOPED HEADWALL SHALL BE CONSTRUCTED FLUSH WITH EXISTING OR PROPOSED SLOPE.
- 2. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
- 3. WELDED WIRE FABRIC SHALL BE EPOXY COATED 6x6-W4xW4, 58 LBS. PER 100 SQ.FT.
- 4. ALL REINFORCEMENT BARS SHOWN SHALL BE EPOXY COATED.
- 5. BAR BENDING DETAILS ARE DIMENSIONED OUT TO OUT OF BARS.
- 6. COVER FROM FACE OF CONCRETE TO FACE OF REINFORCEMENT BAR SHALL BE 3" FOR SURFACES FORMED AGAINST EARTH AND 2" FOR ALL OTHER SURFACES UNLESS OTHERWISE SHOWN.
- 7. PRECAST UNIT USE IS OPTIONAL. THE ENTIRE STRUCTURE MAY BE CAST IN PLACE.
- 8. AFTER THE PRECAST SLOPED HEADWALL HAS BEEN PLACED, THE SPACE BETWEEN THE HEADWALL AND PIPE SHALL BE COMPLETELY FILLED WITH AN APPROVED NON-SHRINK GROUT WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5000 PSI. THE COST FOR FURNISHING AND PLACING THE CROUT SHALL BE INCIDENTAL TO SLOPED HEADWALLS.

- THE SLOPED HEADWALL DETAILS SHOWN ON THIS DRAWING ARE FOR USE ONLY WITH PIPES HAVING DIAMETER OR SPAN OF 30" OR LESS.
- 10. QUANTITIES FOR CONCRETE, WELDED WIRE FABRIC, AND REINFORCING STEEL SHOWN IN THE SCHEDULES OF QUANTITIES ARE BASED ON A "†" DIMENSION OF O'-O" AND A 1:2 SLOPE.
- 11. ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H). CONTRACT 60131 SHEET 893 OF 963
- 12. I.D. DENOTES INSIDE DIAMETER OF PIPE.
 O.D. DENOTES OUTSIDE DIAMETER OF PIPE.

