



NOTES

1. THE 'A' DIMENSION IS BASED ON A MINIMUM OF 12" FROM THE END OF THE CONCRETE BLOCK TO THE FACE OF THE BELL RING MEASURED ALONG CENTERLINE OF PIPE.

2. CONCRETE BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH ON THRUST SIDE.

SIZE	DEGREE BEND	75 PSI. & UNDER					75 TO 125 P.S.I.					125 TO 200 P.S.I.				
		A	B	C	CU.YDS. CONC.	LBS. STEEL	A	B	C	CU.YDS. CONC.	LBS. STEEL	A	B	C	CU.YDS. CONC.	LBS. STEEL
16	5°-20°	1'-8"	3'-8"	3'-3"	0.7	75	1'-8"	3'-8"	3'-3"	0.7	75	1'-8"	3'-8"	3'-3"	0.7	75
	21°-35°	2'-6"	3'-8"	3'-3"	1.0	150	2'-6"	3'-8"	3'-3"	1.0	150	2'-6"	3'-8"	3'-3"	1.0	150
	36°-45°	2'-9"	3'-8"	3'-3"	1.1	175	2'-9"	3'-8"	3'-3"	1.1	150	2'-6"	3'-8"	3'-3"	1.1	150
20	5°-20°	1'-8"	4'-0"	3'-6"	0.8	85	1'-8"	4'-0"	3'-6"	0.8	85	1'-8"	4'-0"	3'-6"	0.8	85
	21°-35°	2'-8"	4'-0"	3'-6"	1.2	185	2'-8"	4'-0"	3'-6"	1.2	185	2'-8"	4'-0"	3'-6"	1.2	185
	36°-45°	3'-0"	4'-0"	3'-6"	1.4	225	3'-0"	4'-0"	3'-6"	1.4	225	3'-0"	4'-0"	3'-6"	1.4	225
24	5°To20°	2'-0"	4'-4"	3'-10"	1.1	120	2'-0"	4'-4"	3'-10"	1.1	120	2'-0"	4'-4"	3'-10"	1.1	120
	21°To35°	2'-9"	4'-4"	3'-10"	1.5	230	2'-9"	4'-4"	3'-10"	1.5	230	2'-9"	4'-4"	3'-10"	1.5	230
	36°To45°	3'-2"	4'-4"	3'-10"	1.6	255	3'-2"	4'-4"	3'-10"	1.6	255	3'-2"	4'-4"	3'-10"	1.6	255
30	5°To20°	2'-3"	4'-11"	4'-5"	1.5	225	2'-3"	4'-11"	4'-5"	1.5	225	2'-3"	4'-11"	4'-5"	1.5	225
	21°To35°	2'-11"	4'-11"	4'-5"	1.8	290	2'-11"	4'-11"	4'-5"	1.8	290	3'-6"	4'-11"	4'-5"	2.4	330
	36°To45°	3'-5"	4'-11"	4'-5"	2.0	340	3'-5"	4'-11"	4'-5"	2.0	340	4'-6"	4'-11"	4'-5"	3.1	420
36	5°To20°	2'-4"	5'-10"	5'-4"	2.3	280	2'-4"	5'-10"	5'-4"	2.3	280	2'-4"	5'-10"	5'-4"	2.3	280
	21°To35°	3'-0"	5'-10"	5'-4"	3.0	335	3'-0"	5'-10"	5'-4"	3.0	335	3'-11"	5'-10"	5'-4"	3.9	450
	36°To45°	3'-8"	5'-10"	5'-4"	3.2	415	3'-8"	5'-10"	5'-4"	3.2	415	4'-11"	5'-10"	5'-4"	4.9	610
42	5°To20°	2'-6"	6'-3"	5'-9"	2.6	290	2'-6"	6'-3"	5'-9"	2.6	290	2'-9"	6'-3"	5'-9"	3.2	340
	21°To35°	3'-5"	6'-3"	5'-9"	3.8	380	3'-5"	6'-3"	5'-9"	3.8	380	4'-10"	6'-3"	5'-9"	5.5	565
	36°To45°	4'-0"	6'-3"	5'-9"	4.1	460	4'-3"	6'-3"	5'-9"	4.9	480	6'-1"	6'-3"	5'-9"	6.9	730
48	5°To20°	2'-9"	6'-10"	6'-4"	3.4	300	2'-9"	6'-10"	6'-4"	3.4	300	3'-4"	6'-10"	6'-4"	4.7	440
	21°To35°	3'-8"	6'-10"	6'-4"	4.6	400	4'-0"	6'-10"	6'-4"	5.6	500	5'-9"	6'-10"	6'-4"	8.0	670
	36°To45°	4'-5"	6'-10"	6'-4"	5.6	495	5'-0"	6'-10"	6'-4"	7.2	625	7'-3"	6'-10"	6'-4"	10.2	895

CITY OF ELYRIA, OHIO ENGINEERING DEPARTMENT	
TYPICAL BLOCKING FOR CONCRETE WATERMAINS	
DR. BY <u>TJS</u>	DATE <u>3-77</u>
CK. BY <u>cad</u>	DATE <u>7-12-77</u>
BY	DATE
REVISIONS	APPROVED <u>Randy D. Shroy</u> CITY ENGINEER
DRAWING 2-301	

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