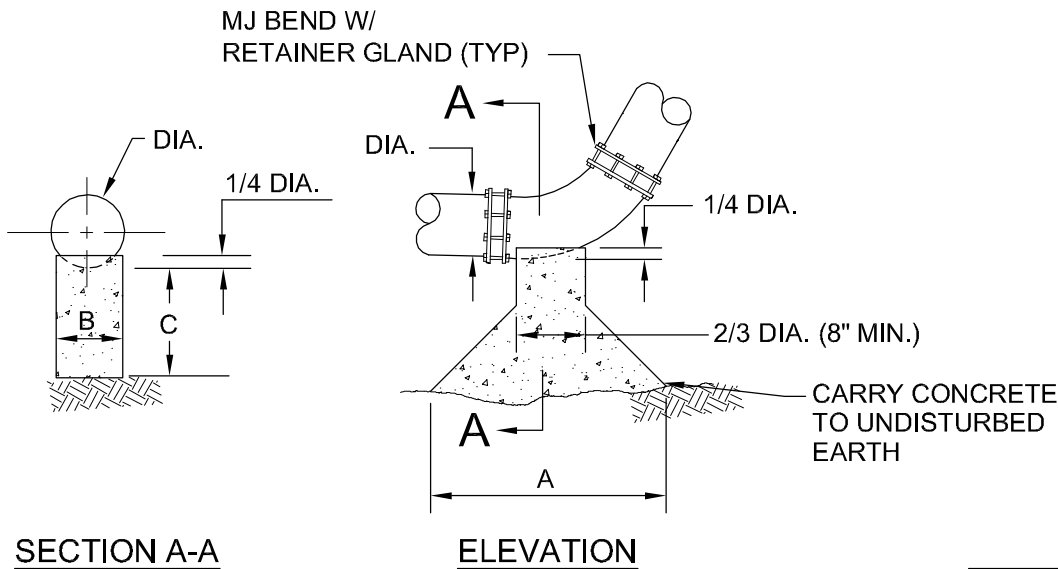
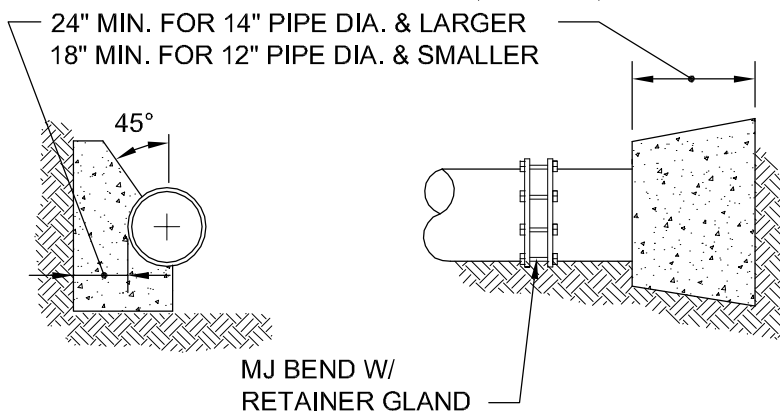
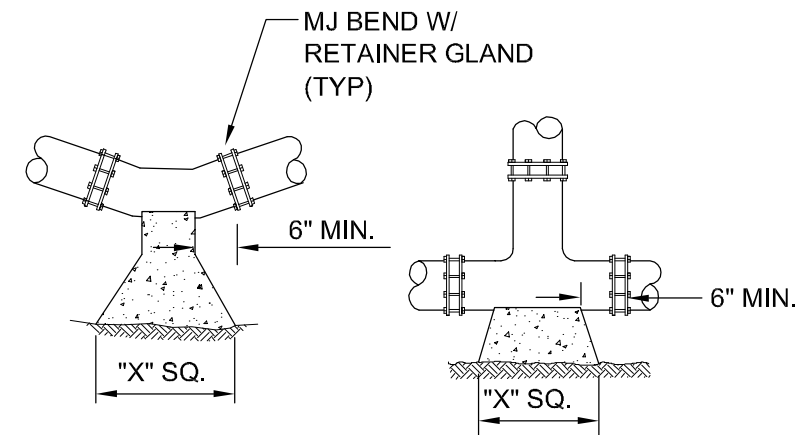




BUTTRESSES FOR VERTICAL BENDS

BEND	DIMENSION	LENGTH
11.25°	A	25"
	B	17"
	C	9"
	CY	0.06
22.5°	A	34"
	B	23"
	C	12"
	CY	0.14
45°	A	48"
	B	32"
	C	16"
	CY	0.34



PIPE SIZE	DIMENSION "X"
6"	18"
8"	24"
10"	30"
12"	36"
14"	42"
16"	48"

HORIZONTAL BEND DETAIL

SEE WS_05, SHEET 2 OF 2 FOR NOTES AND ADDITIONAL DETAILS.

STANDARD THRUST BLOCKS

NOT TO SCALE

REFERENCE 200,801,803	CATEGORY WATER & SANITARY	DATE 12/10	SHEET No. 1 OF 2	DETAIL No. WS_05
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