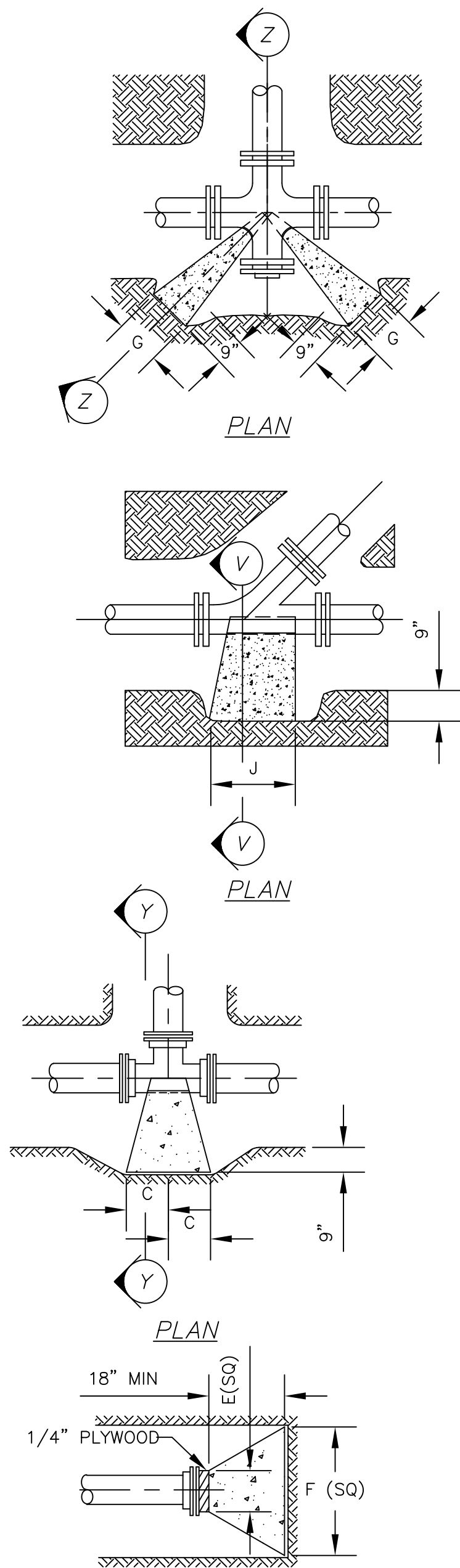
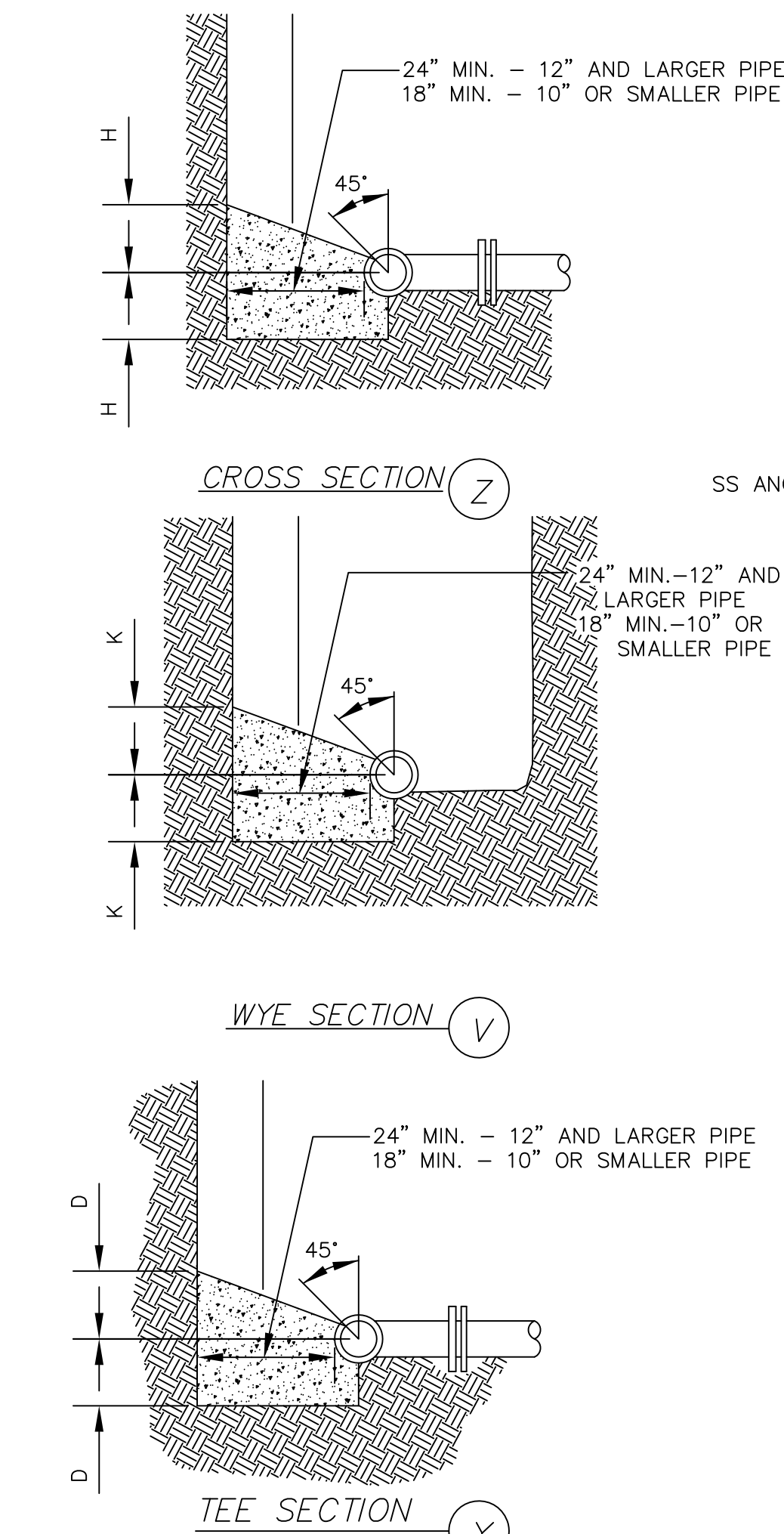




SIZE	CROSS		WYE	
	G	H	J	K
6"	11"	13"	10"	12"
8"	15"	17"	14"	14"
10"	18"	22"	15"	20"
12"	21"	26"	18"	23"
14"	24"	30"	21"	27"
16"	28"	33"	24"	30"
20"	33"	42"	27"	43"

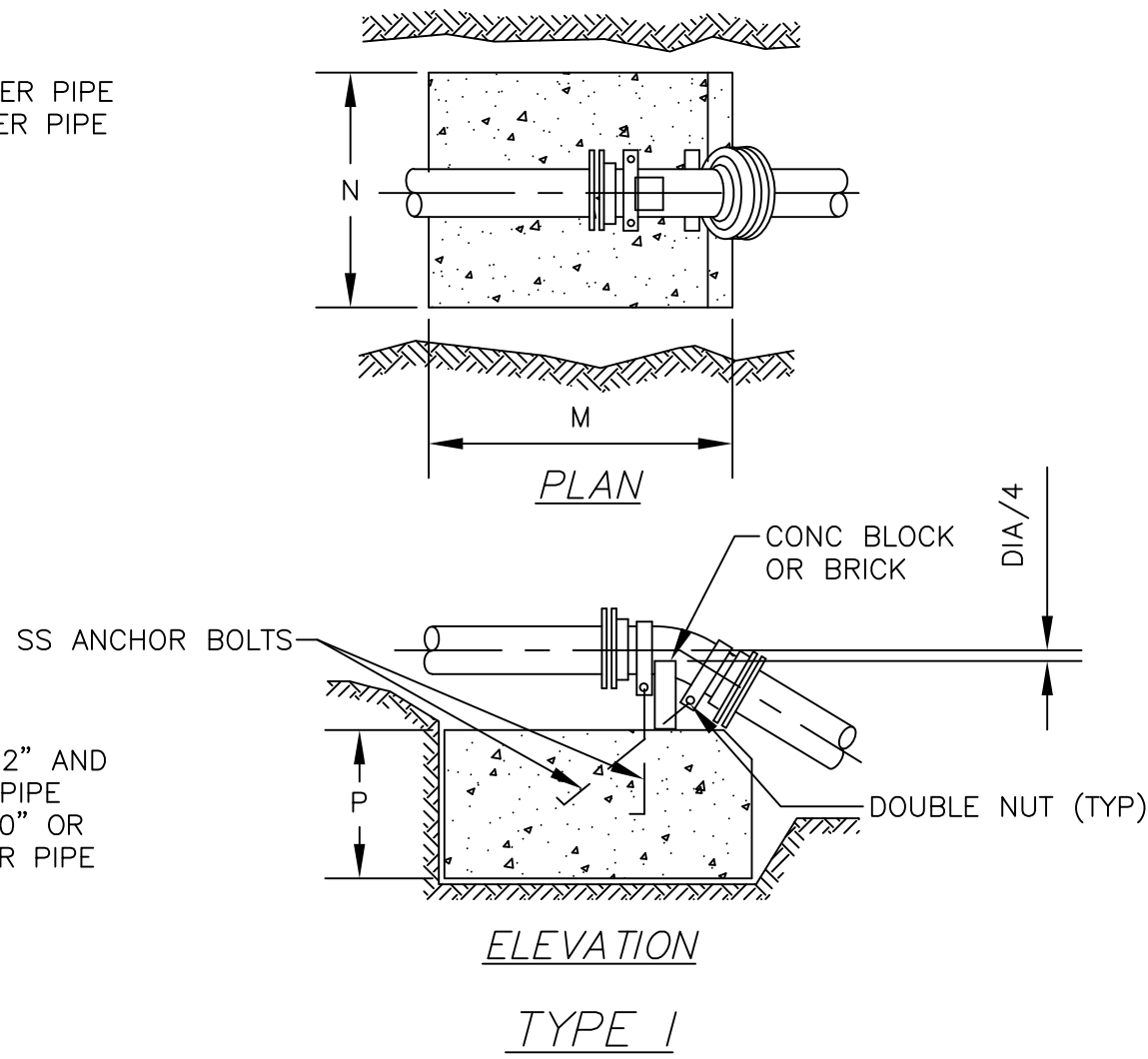


SIZE	TEES		PLUGS	
	C	D	E	F
6"	11"	13"	10"	24"
8"	15"	17"	12"	32"
10"	18"	22"	14"	40"
12"	21"	26"	16"	47"
14"	24"	30"	18"	54"
16"	28"	33"	20"	61"
20"	33"	42"	24"	74"

NOTE
BASED ON 150 P.S.I. STATIC PRESSURE PLUS A.W.W.A. WATER HAMMER AND A MINIMUM SOIL BEARING CAPACITY OF 2000 LB. PER SQ. FT. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.

MISCELLANEOUS FITTING DETAILS

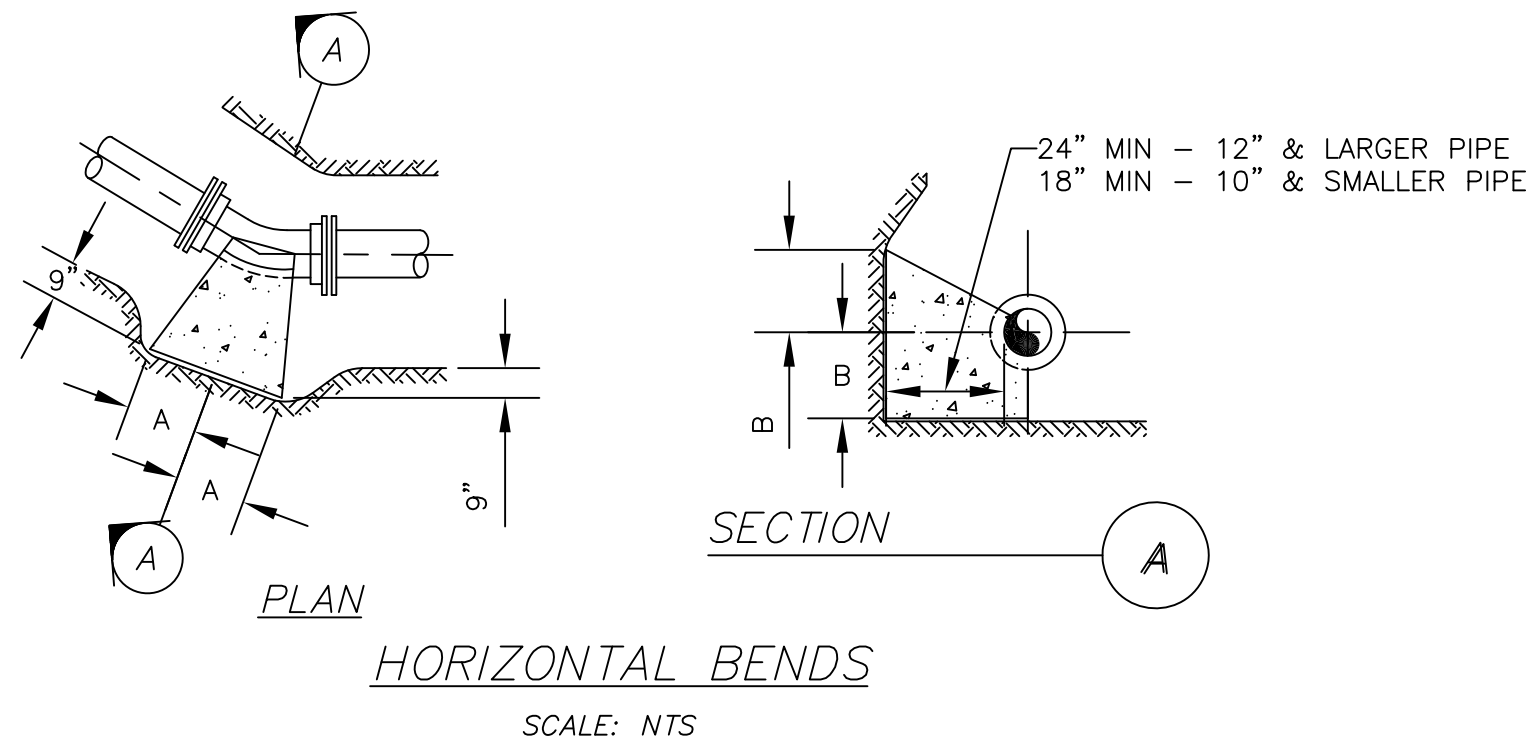
SCALE: NTS



SIZE	TYPE I				TYPE II			
	M	N	P	Q	R	S	T	
6"	38"	32"	27"	27"	27"	27"	16"	
8"	44"	38"	27"	30"	30"	30"	18"	
10"	50"	44"	34"	37"	37"	33"	18"	
12"	57"	51"	40"	41"	41"	40"	21"	
14"	57"	51"	67"	47"	47"	47"	24"	
16"	64"	57"	67"	54"	54"	49"	24"	
20"	78"	63"	80"	64"	64"	64"	30"	

NOTE
ALL ANCHOR BOLTS, NUTS AND STRAPS SHALL BE 316 ST. STEEL.

STRAP	BAR SIZE	L	NOTE
1/4" x 1-1/8"	5/8"Ø	1'-0"	6" TO 8" 1-1/4" x 1-1/8" STRAP
1/4" x 1-1/4"	5/8"Ø	1'-0"	10" TO 12" 2-1/4" x 1-1/4" STRAP
5/8" x 1-1/2"	3/4"Ø	1'-6"	14" TO 16" 2-5/8" x 1-1/2" STRAP
1/2" x 1-3/4"	7/8"Ø	2'-0"	18" TO 20" 2-1/2" x 1-3/4" STRAP



PIPE SIZE	1/4 BENDS - 90°		1/8 BENDS - 45°		1/16 BENDS - 22.5°		1/32 BENDS - 11.25°	
	A	B	A	B	A	B	A	B
6"	18"	11"	10"	11"	6"	9"	4"	7"
8"	25"	14"	14"	14"	9"	11"	5"	10"
10"	27"	20"	16"	19"	10"	15"	7"	11"
12"	33"	23"	18"	23"	12"	18"	8"	14"
14"	39"	26"	22"	26"	13"	22"	9"	16"
16"	43"	30"	24"	30"	14"	26"	10"	18"
20"	50"	39"	27"	39"	17"	32"	12"	23"

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NO.	REVISIONS	DESCRIPTIONS	DATE	BY	APP'D
1		RECORD DRAWING	6/05	MGW	WAD

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CHECKED BY
AJP
APPROVED BY
MGW

ENVIRONMENTAL, INC.
ENGINEERS IN WATER AND EARTH SCIENCES
UNIONTOWN, OHIO

CITY OF MASSILLON, OHIO
WWTP UPGRADE 2000
DETAILS

JOB NO.
E9031
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08/13/01
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