

BENDS

BENDS	"B"	"C"	"D"	"E"	"F"
6"-11 1/4"	8"	15"	12"	24"	10"
6"-22 1/2"	8"	19"	12"	24"	13"
6"-45"	8"	30"	12"	24"	15"
6"-90"	8"	30"	12"	24"	28"
8"-11 1/4"	8"	20"	12"	24"	10"
8"-22 1/2"	8"	22"	12"	24"	18"
8"-45"	8"	31"	12"	24"	24"
8"-90"	8"	38"	12"	24"	36"
12"-11 1/4"	8"	30"	12"	24"	15"
12"-22 1/2"	8"	35"	12"	24"	25"
12"-45"	8"	40"	12"	24"	40"
12"-90"	8"	60"	12"	24"	52"
16"-11 1/4"	TL	28"	20"	24"	28"
16"-22 1/2"	TL	39"	20"	24"	39"
16"-45"	TL	55"	20"	24"	55"
16"-90"	TL	91"	20"	24"	60"
20"-11 1/4"	TL	34"	24"	26"	28"
20"-22 1/2"	TL	48"	24"	26"	39"
20"-45"	TL	74"	24"	26"	55"
20"-90"	TL	136"	24"	26"	60"
24"-11 1/4"	TL	40"	28"	28"	40"
24"-22 1/2"	TL	56"	28"	28"	56"
24"-45"	TL	101"	28"	28"	60"
24"-90"	TL	186"	28"	28"	60"
30"-11 1/4"	TL	49"	34"	30"	49"
30"-22 1/2"	TL	79"	34"	30"	60"
30"-45"	TL	154"	34"	30"	60"
30"-90"	TL	285"	34"	30"	60"

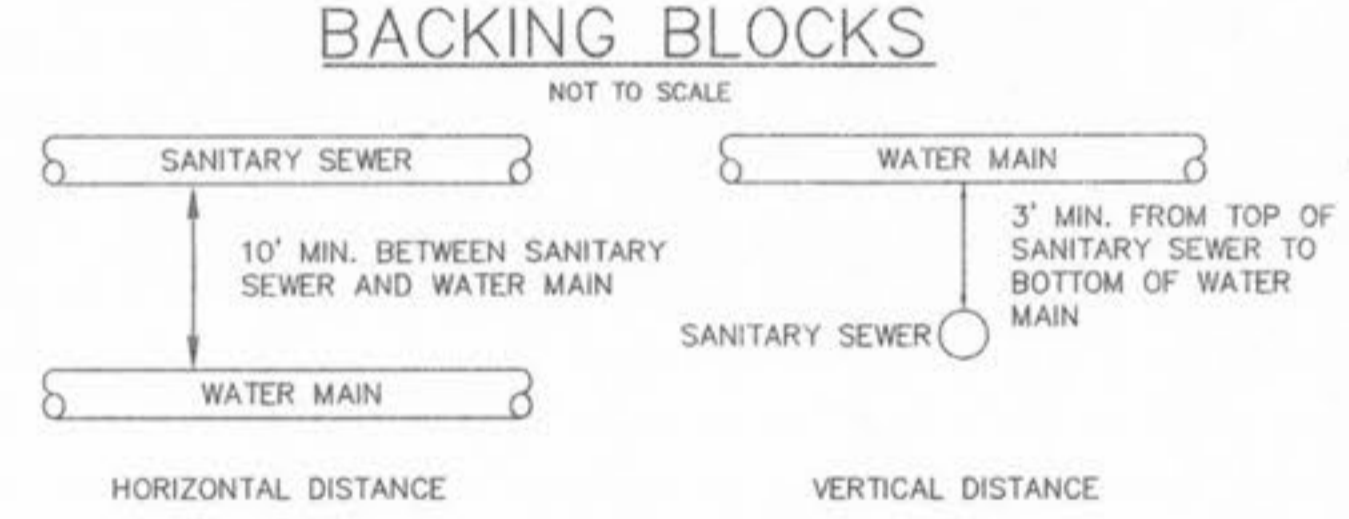
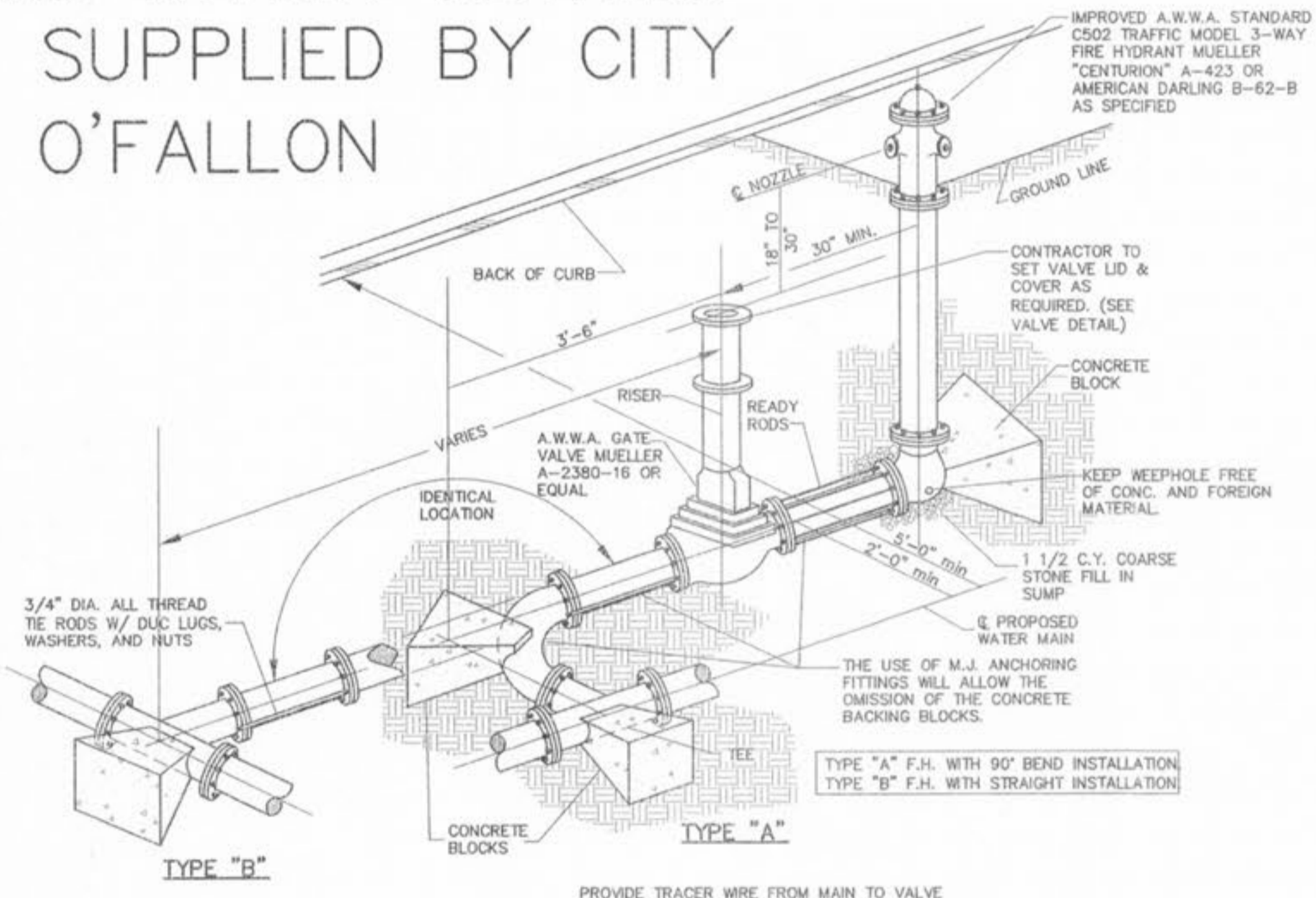
TEES

TEES	"G"	"H"	"J"	"K"
6"x6"x6"	12"	24"	24"	18"
8"x8"x8"	12"	24"	24"	18"
8"x8"x8"	12"	27"	24"	27"
12"x12"x6"	12"	24"	24"	18"
12"x12"x6"	12"	27"	27"	27"
12"x12"x12"	12"	38"	24"	38"
24"x24"x16"	16"	53"	28"	53"

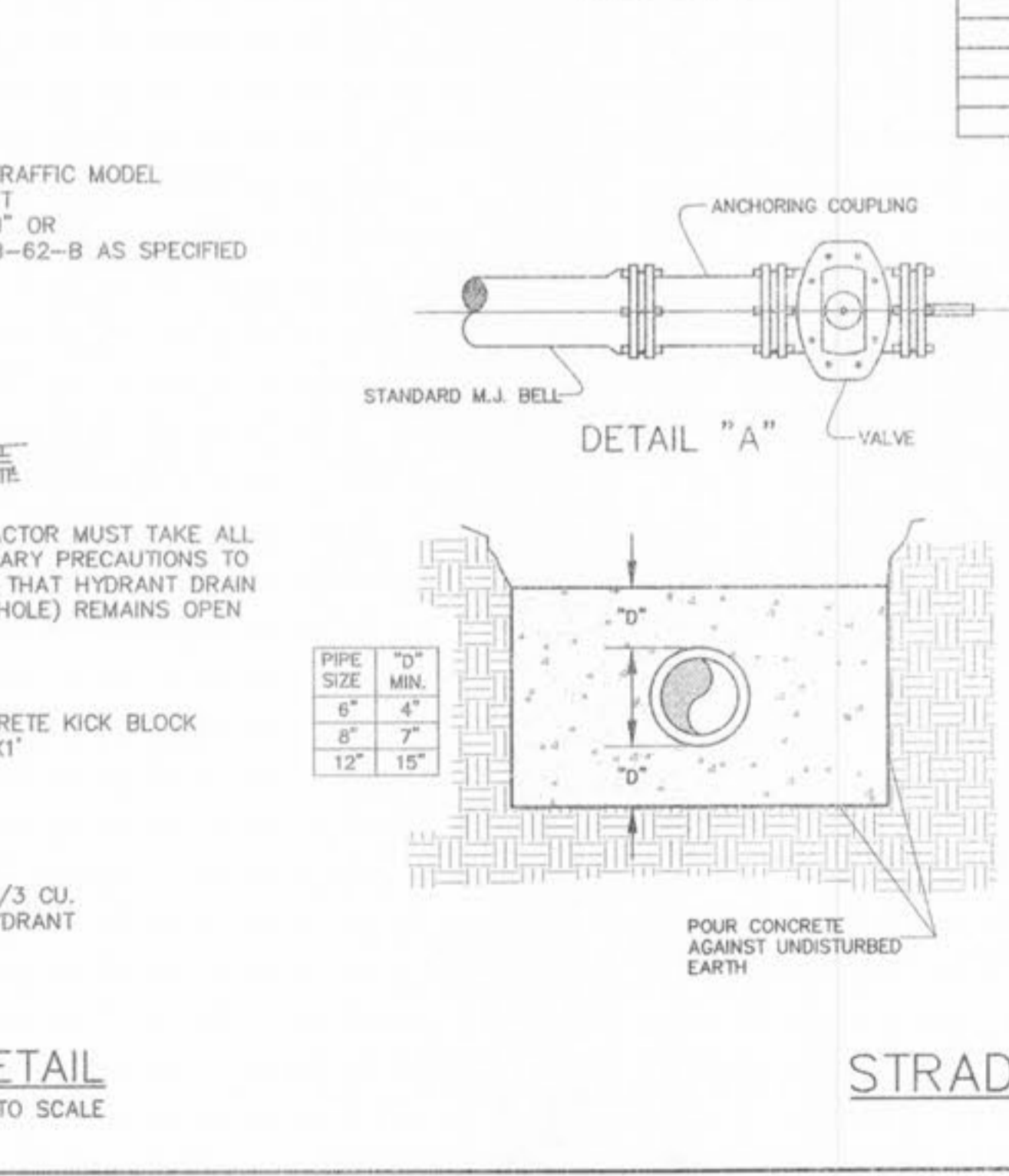
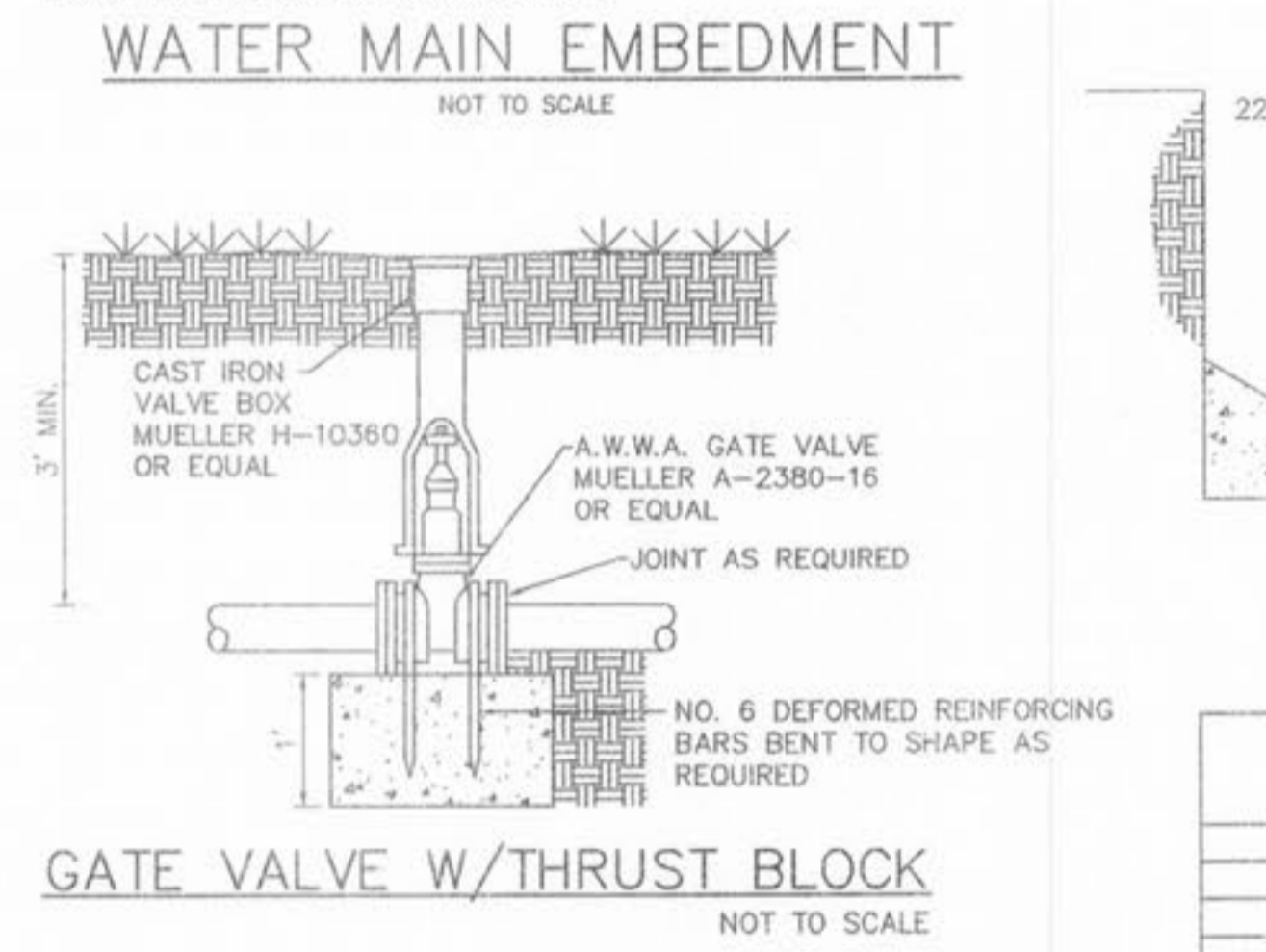
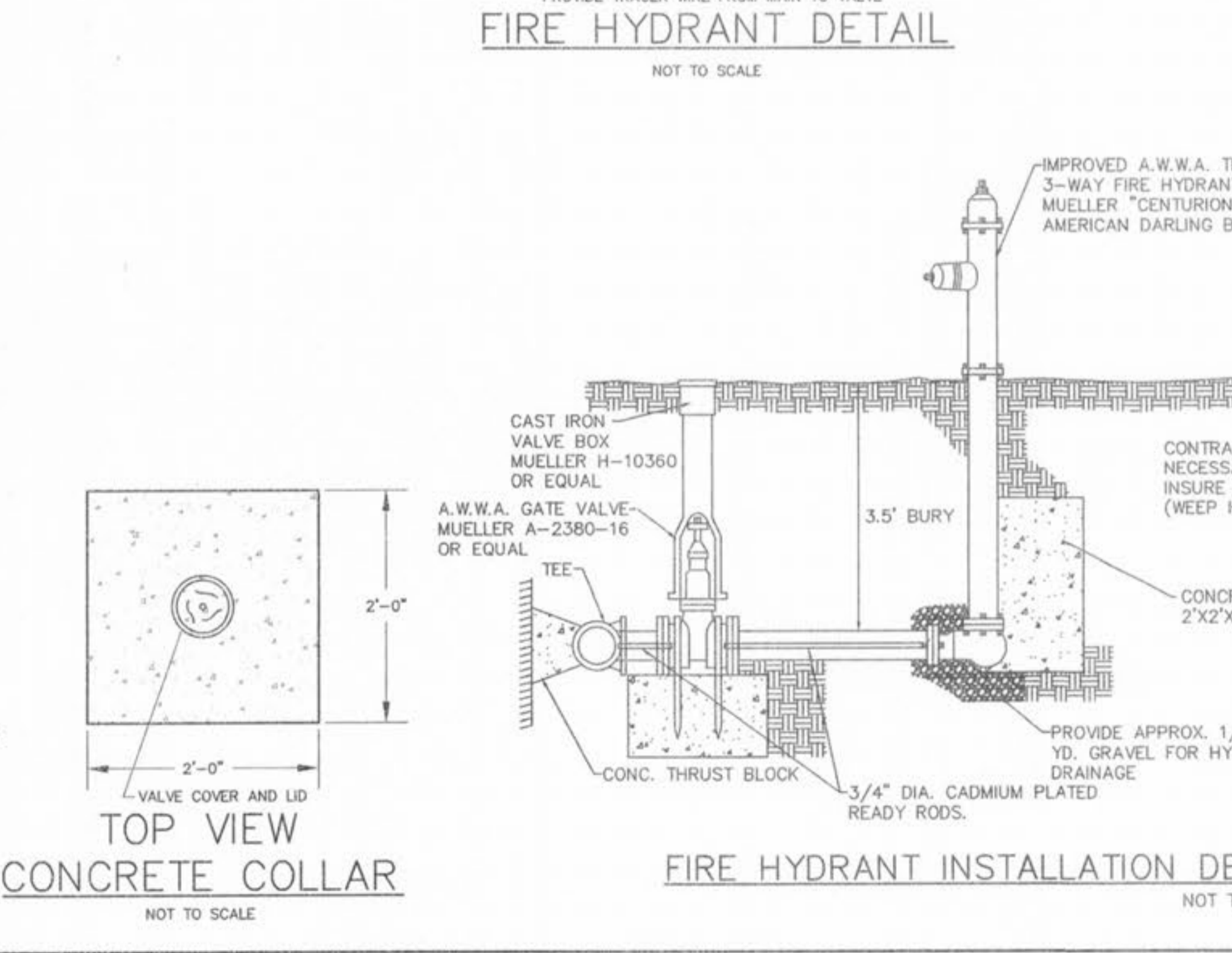
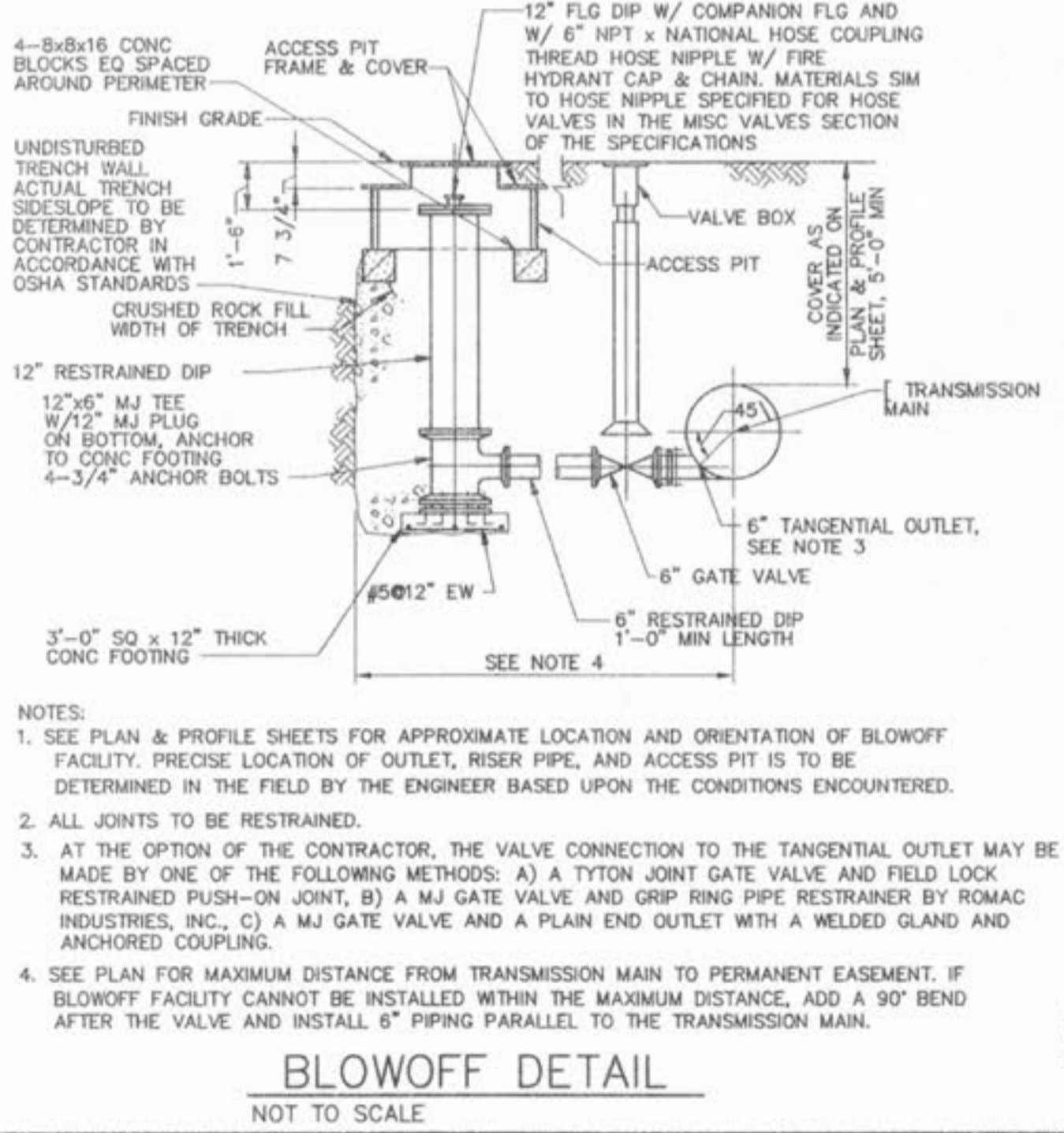
INTERNAL WATER PRESSURE 6" THRU 12"=200 psi
 INTERNAL WATER PRESSURE 16" THRU 30"=210 psi
 BEARING PRESSURE OF SOIL=2000 psi

NOTES:
 1. 2" & 4" FITTINGS EQUIVALENT TO 6" FITTINGS.
 2. TAPPING SLEEVES TO HAVE BACKING BLOCKS SAME SIZE AS REQUIRED FOR TEES.
 3. "TL" = TOTAL LENGTH OF FITTING MINUS CLEARANCE FOR BELLS.

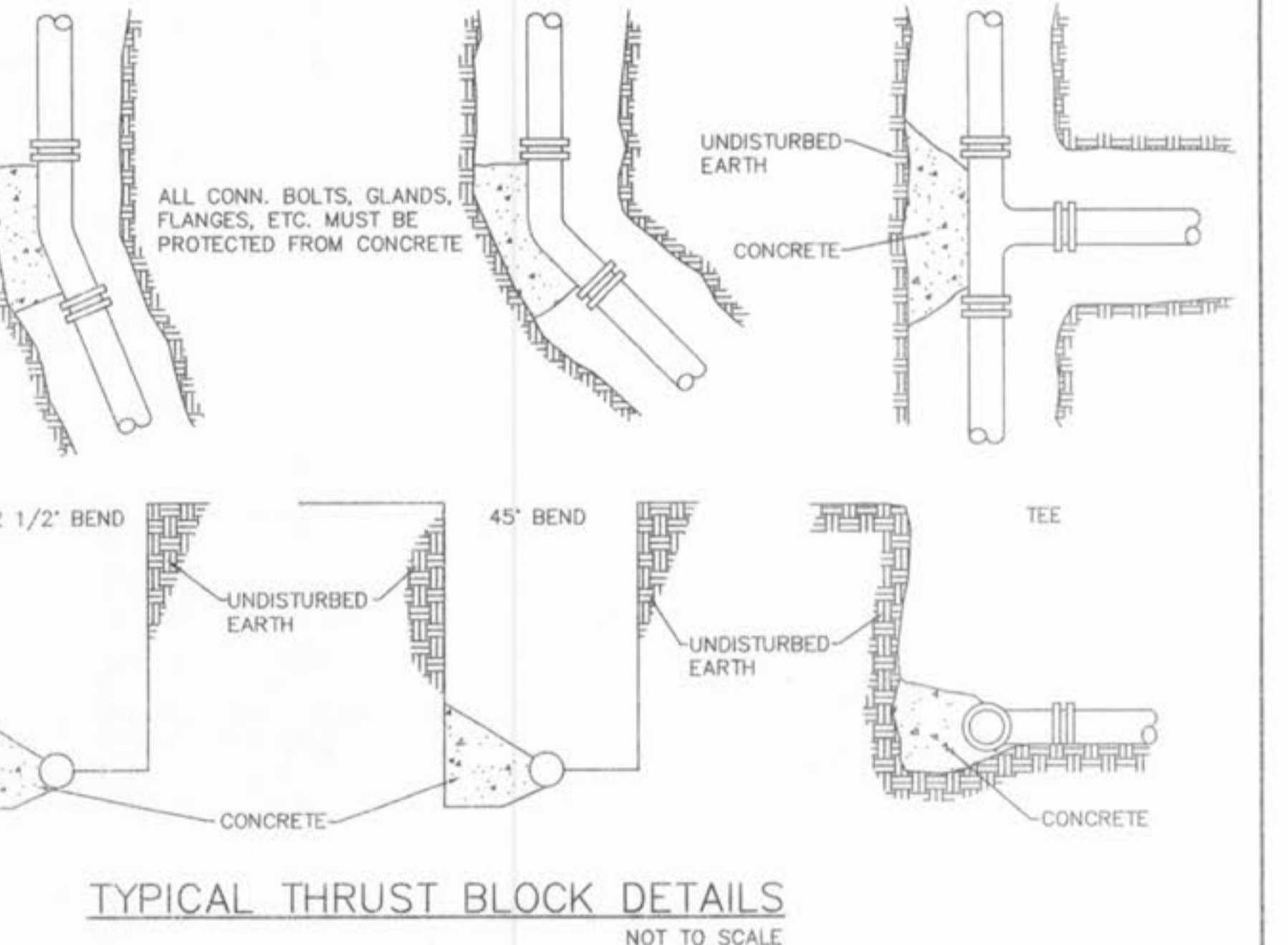
SOME WATER DETAILS AS SUPPLIED BY CITY OF O'FALLON



TYPICAL WATER AND SEWER SEPARATION
 NOT TO SCALE



TYPICAL WATER MAIN AND FIRE HYDRANT LOCATIONS
 NOT TO SCALE



MIN. THRUST BLOCK BEARING DIMENSIONS TO BEAR AGAINST UNDISTURBED EARTH

MAIN SIZE (I.D.)	45° BEND	22 1/2° BEND	TEE	VALVE	CROSS
2"	.5' X 1'	.5' X 1'	.5' X 1'	.5' X 1'	.5' X 1'
4"	1' X 1'	1' X 1'	2' X 1'	2' X 1'	1' X 1'
6"	1.5' X 1'	1' X 1'	2' X 1'	2' X 1'	1' X 1'
8"	2' X 1'	1' X 1'	2' X 2.5'	2' X 2'	1' X 1.5'
10"	2' X 2.5'	1.5' X 2'	2' X 3.5'	2' X 3'	2' X 2'
12"	2' X 3.5'	1.5' X 2.5'	3' X 3.5'	3' X 3'	2' X 3'
16"	3' X 4'	2' X 3'	4' X 4.5'	3' X 4.5'	3' X 3.5'



UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LOCATED PRIOR TO ANY GRADING OR CONSTRUCTION OF THE IMPROVEMENTS.