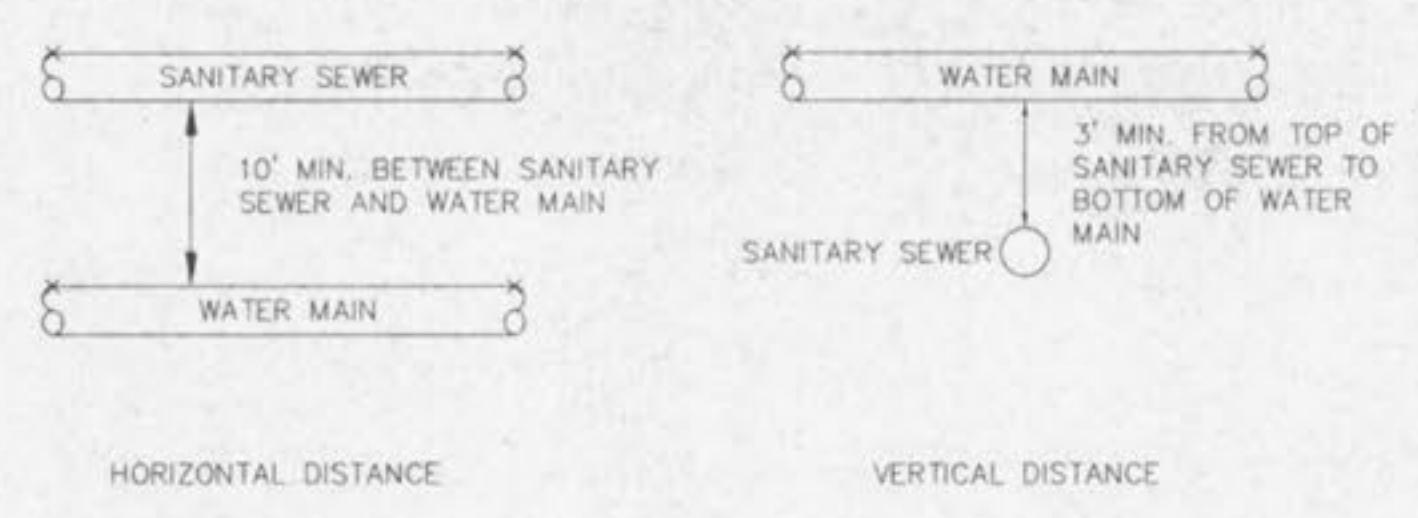
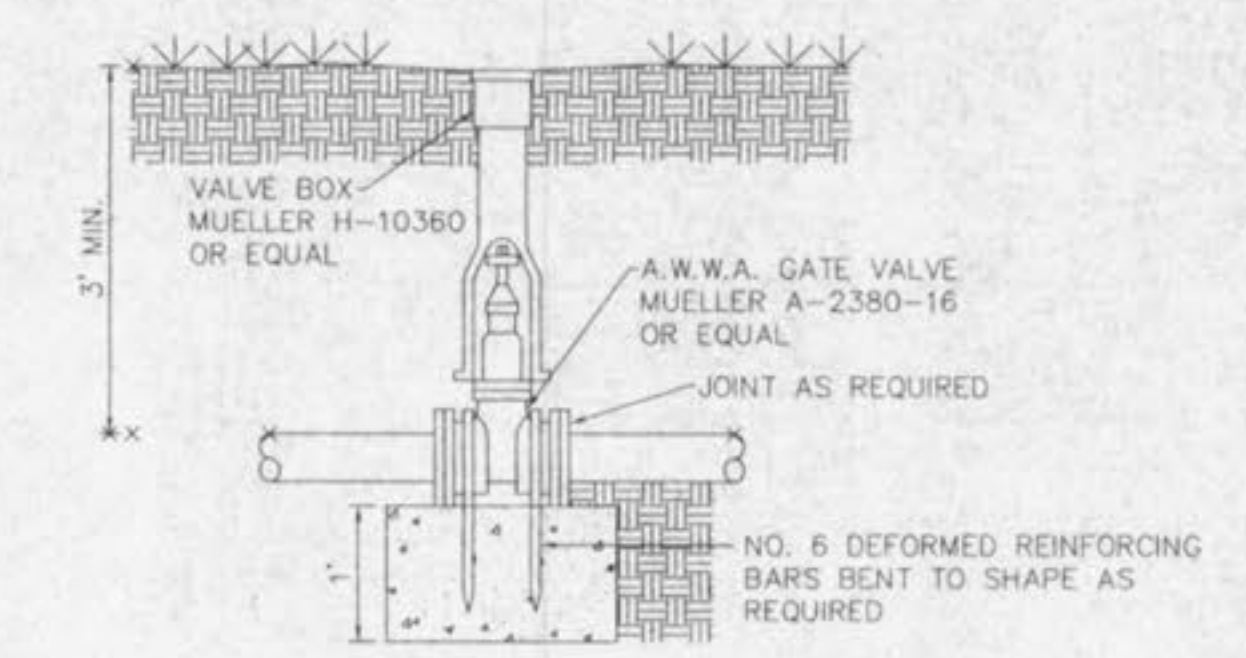


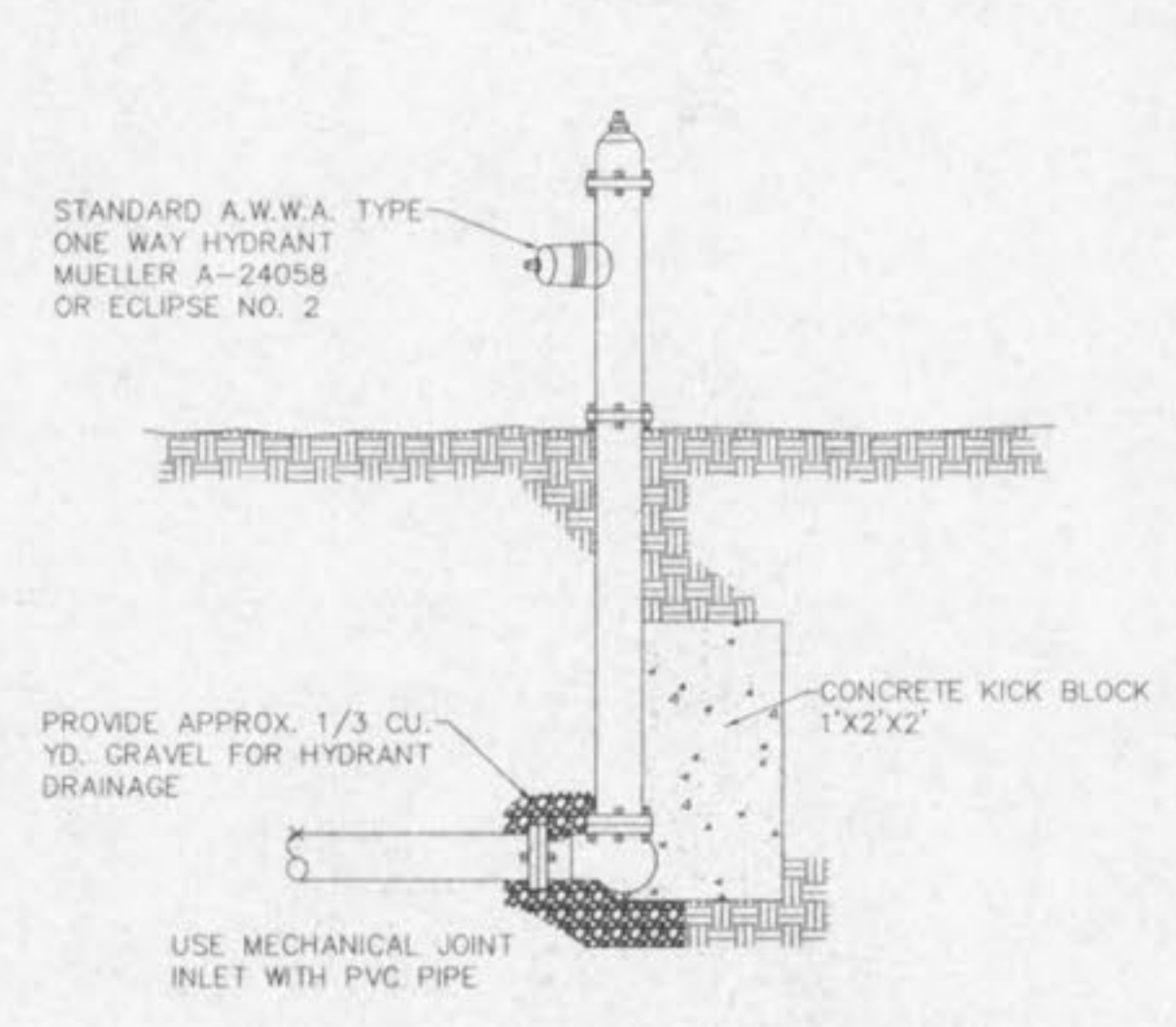
TYPICAL WATER MAIN INSTALLATION DETAILS
 NOT TO SCALE



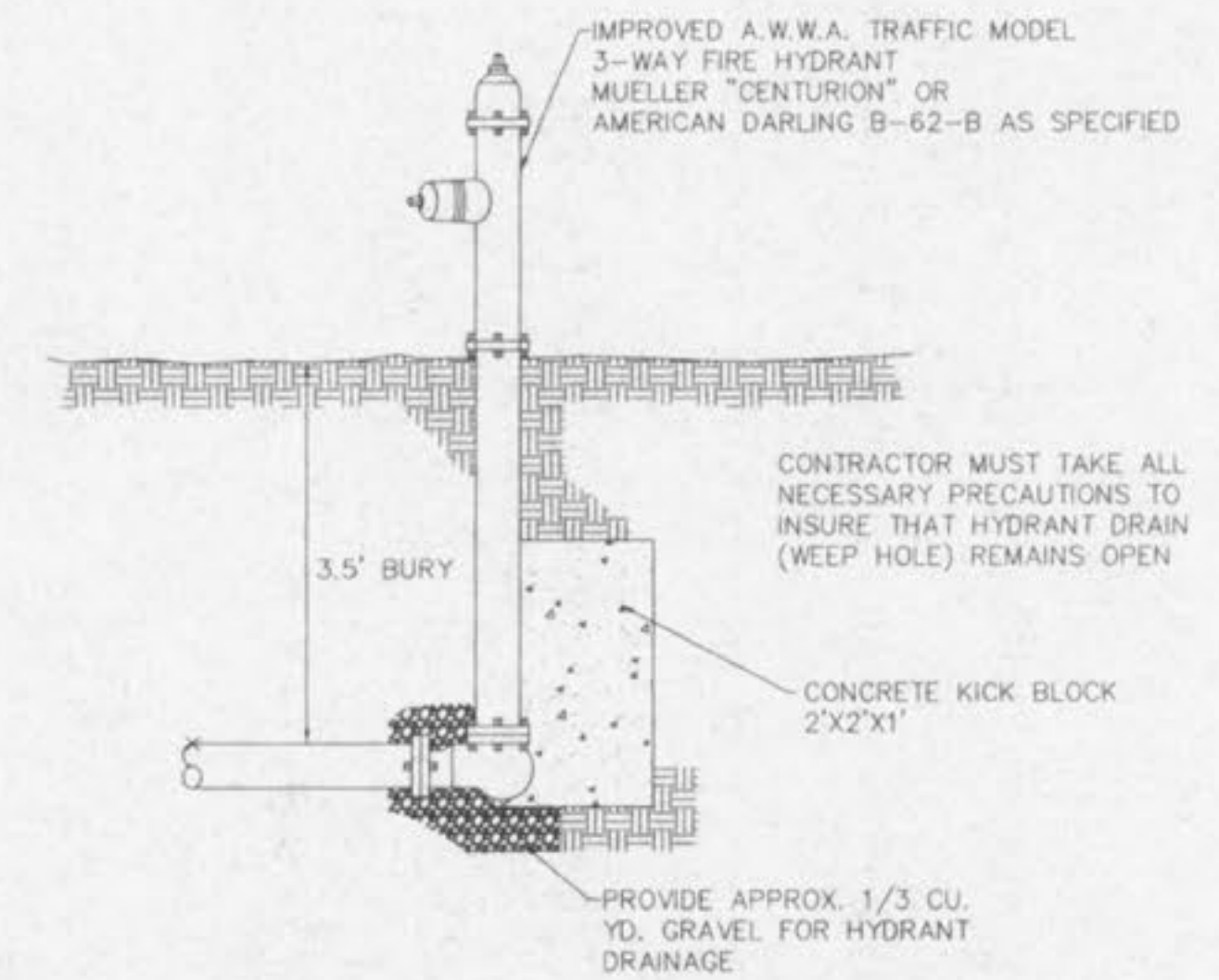
TYPICAL WATER AND SEWER SEPARATION
 NOT TO SCALE



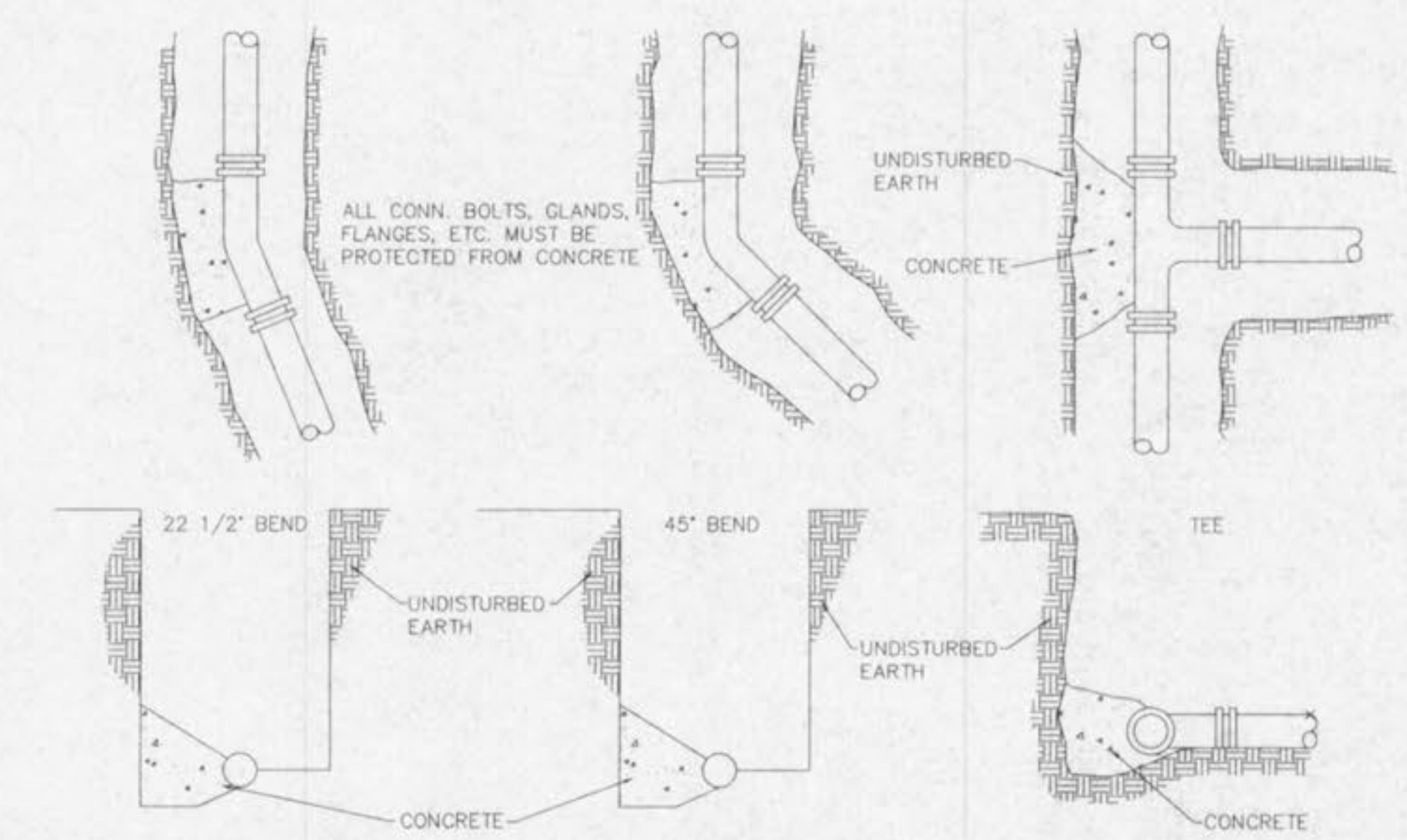
GATE VALVE W/THRUST BLOCK
 NOT TO SCALE



FLUSHING HYDRANT
 NOT TO SCALE



FIRE HYDRANT INSTALLATION DETAIL
 NOT TO SCALE



TYPICAL THRUST BLOCK DETAILS
 NOT TO SCALE

MAIN SIZE (I.D.)	MIN. THRUST BLOCK BEARING DIMENSIONS TO BEAR AGAINST UNDISTURBED EARTH				
	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'

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