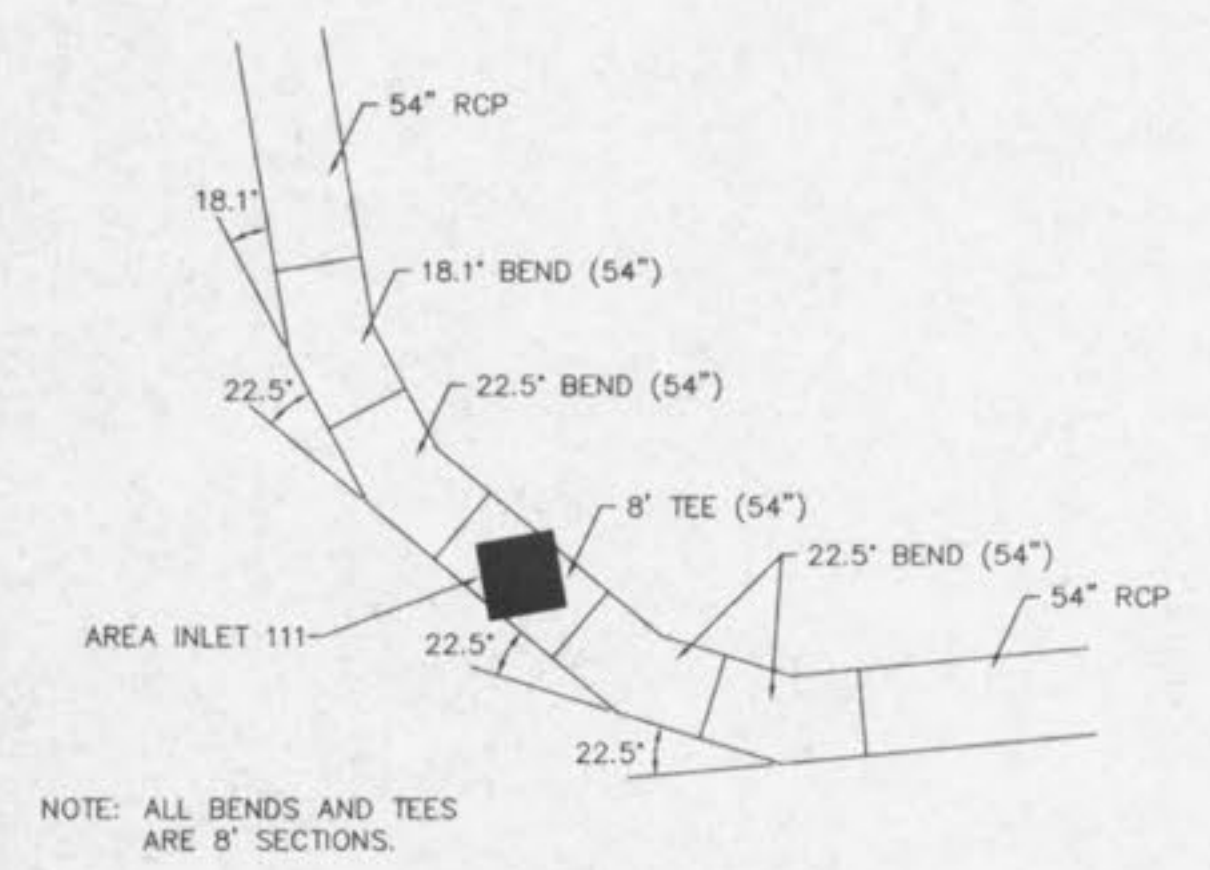
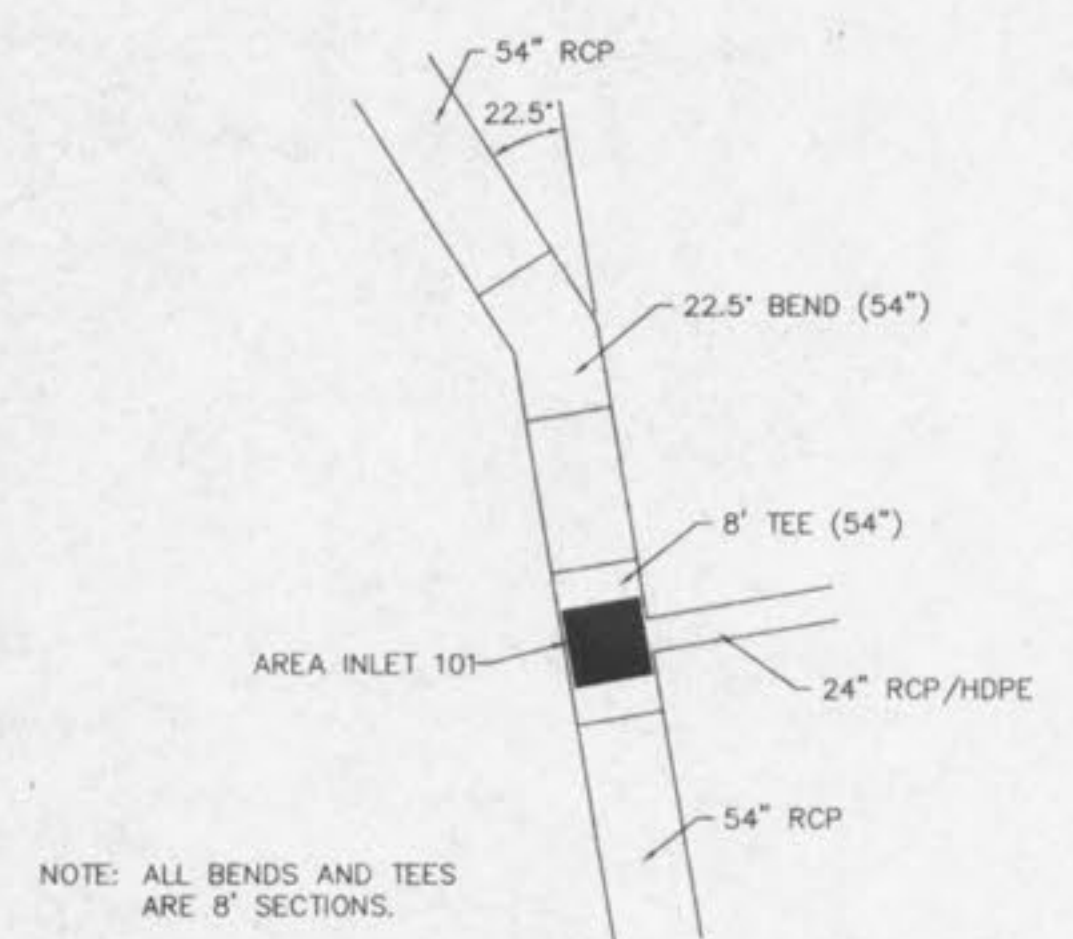


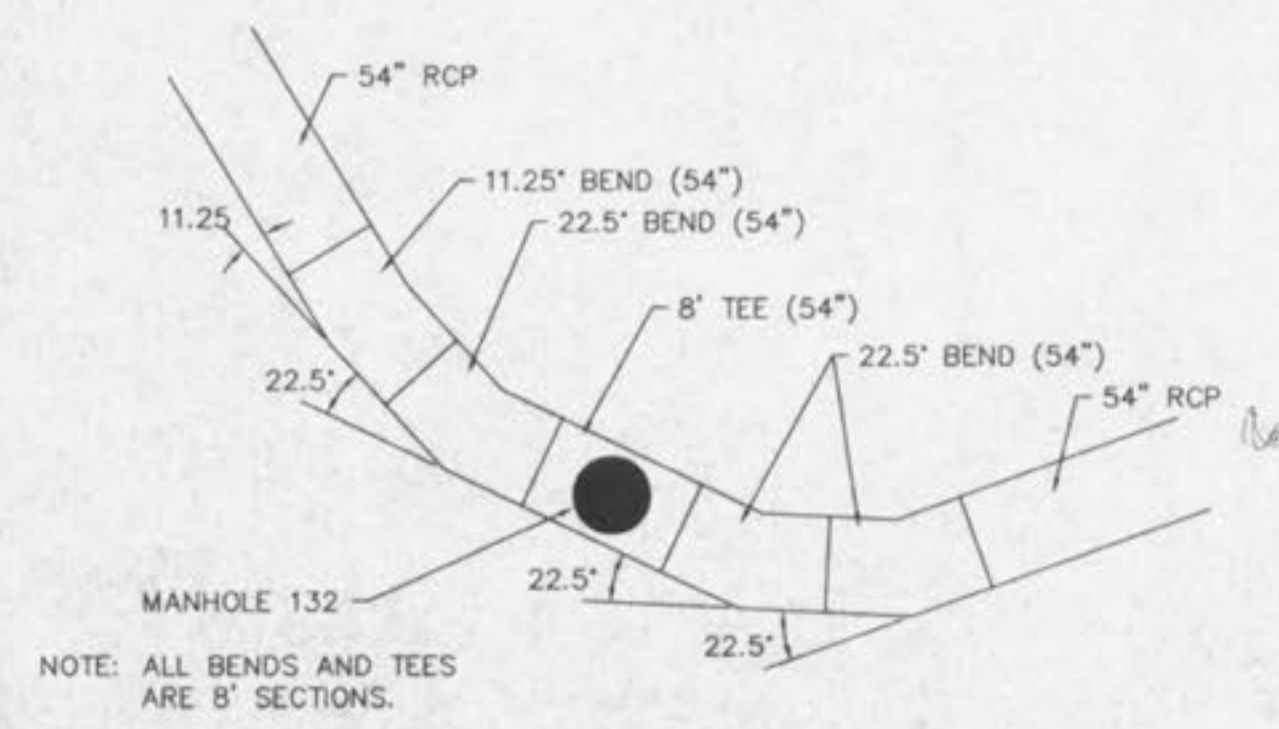
**MANHOLE 112 - BEND AND TEE DETAIL**  
NOT TO SCALE



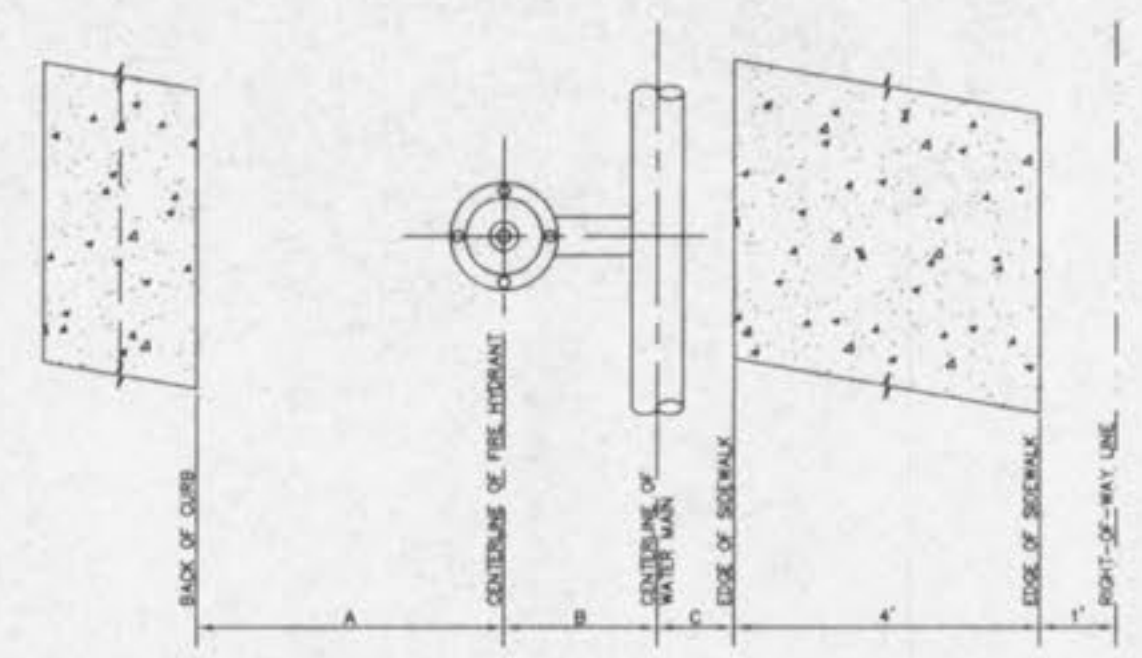
**AREA INLET 111 - BEND AND TEE DETAIL**  
NOT TO SCALE



**AREA INLET 101 - BEND AND TEE DETAIL**  
NOT TO SCALE



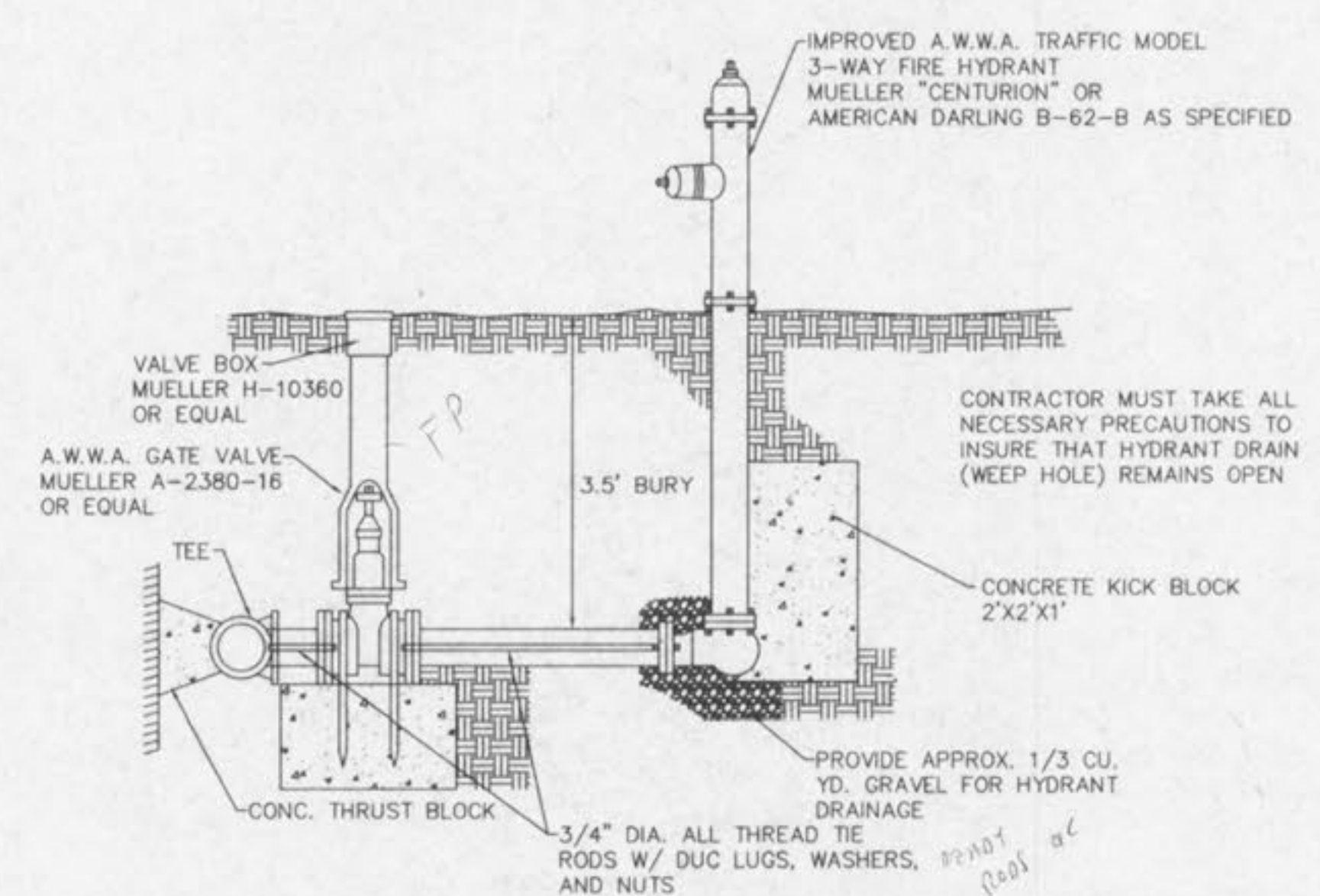
**MANHOLE 132 - BEND AND TEE DETAIL**  
NOT TO SCALE



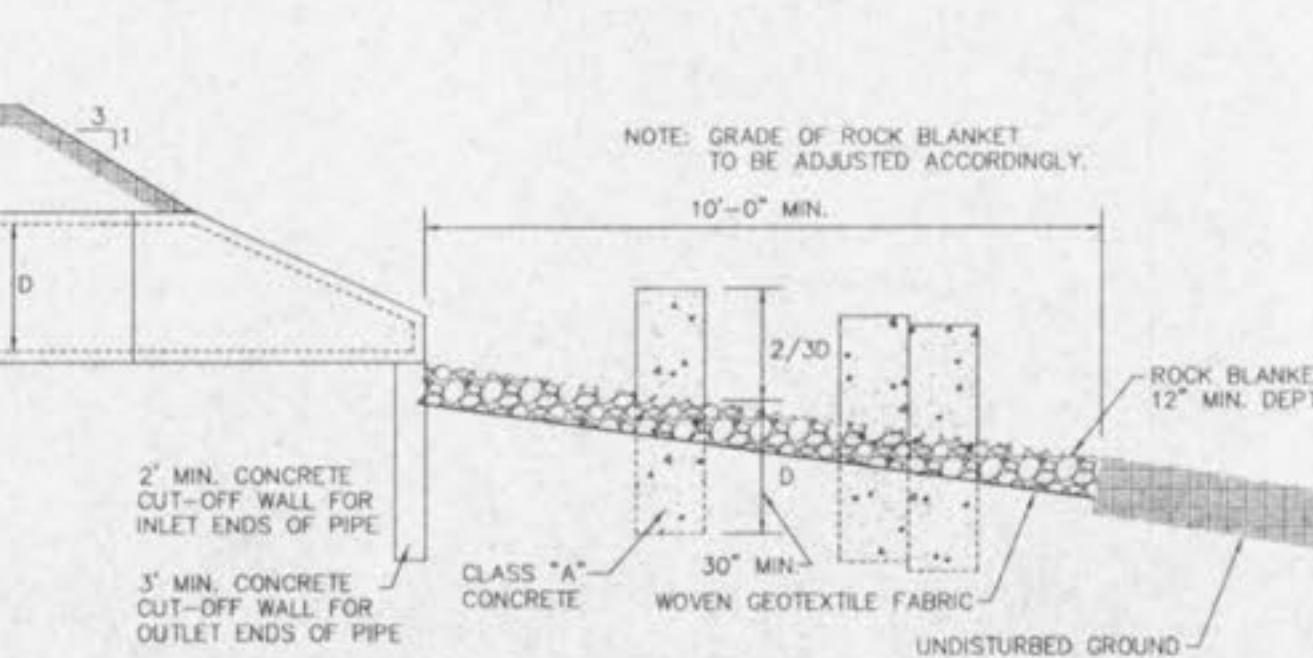
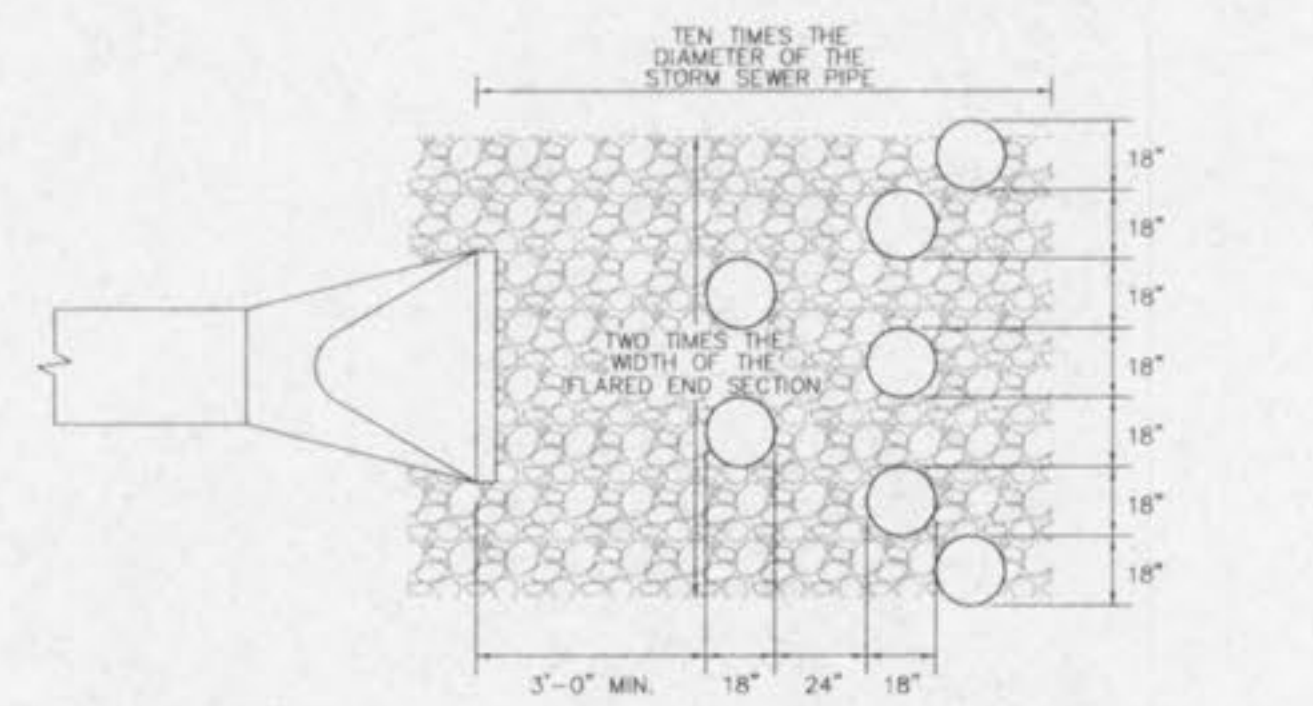
**CONFIGURATION**

50' RIGHT-OF-WAY/26' PAVEMENT/WITHOUT SIDEWALK	A	B	C
50' RIGHT-OF-WAY/26' PAVEMENT/WITH SIDEWALK	4'	2'	N/A
	4'	2'	1'

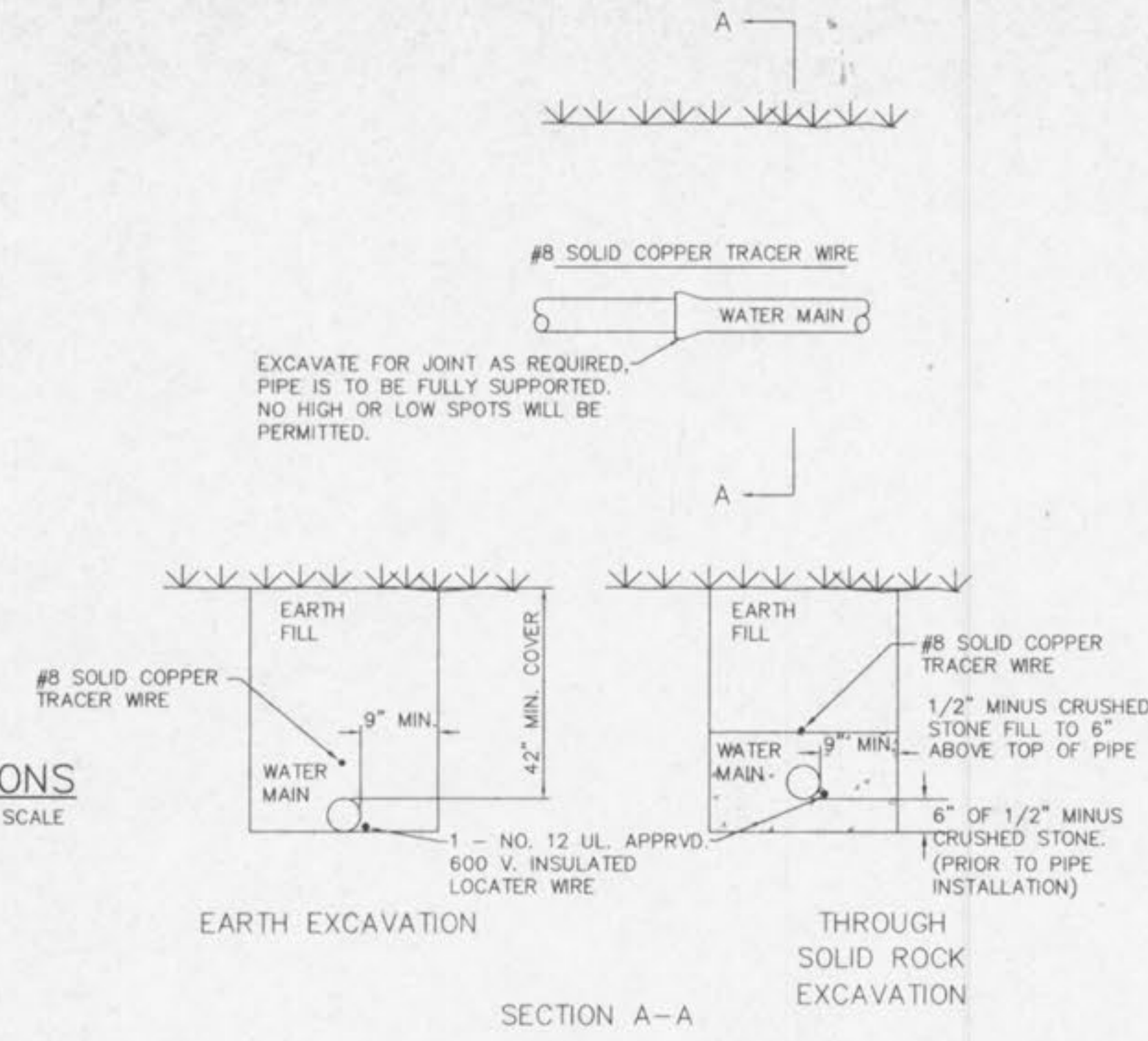
**TYPICAL WATER MAIN AND FIRE HYDRANT LOCATIONS**  
NOT TO SCALE



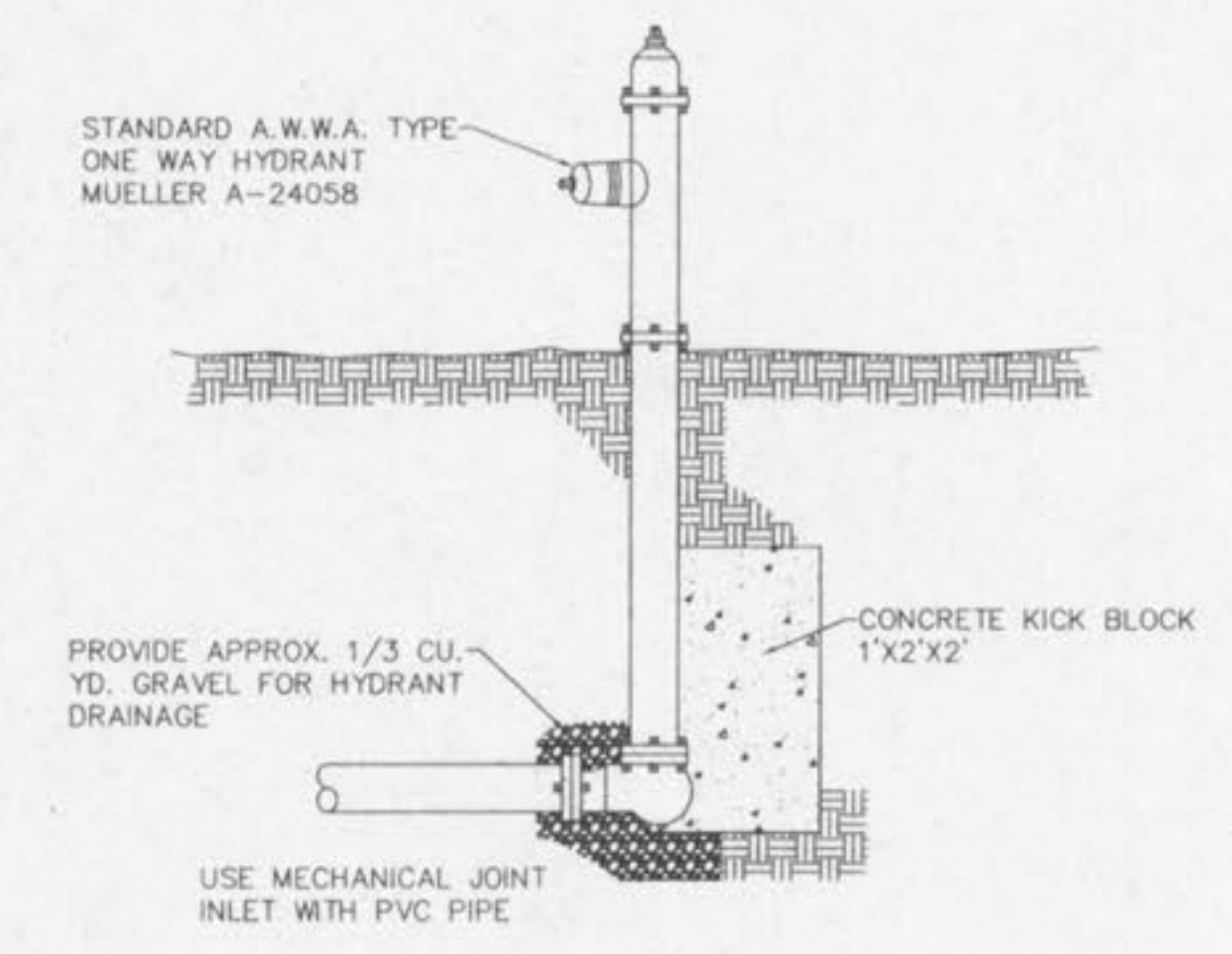
**FIRE HYDRANT INSTALLATION DETAIL**  
NOT TO SCALE



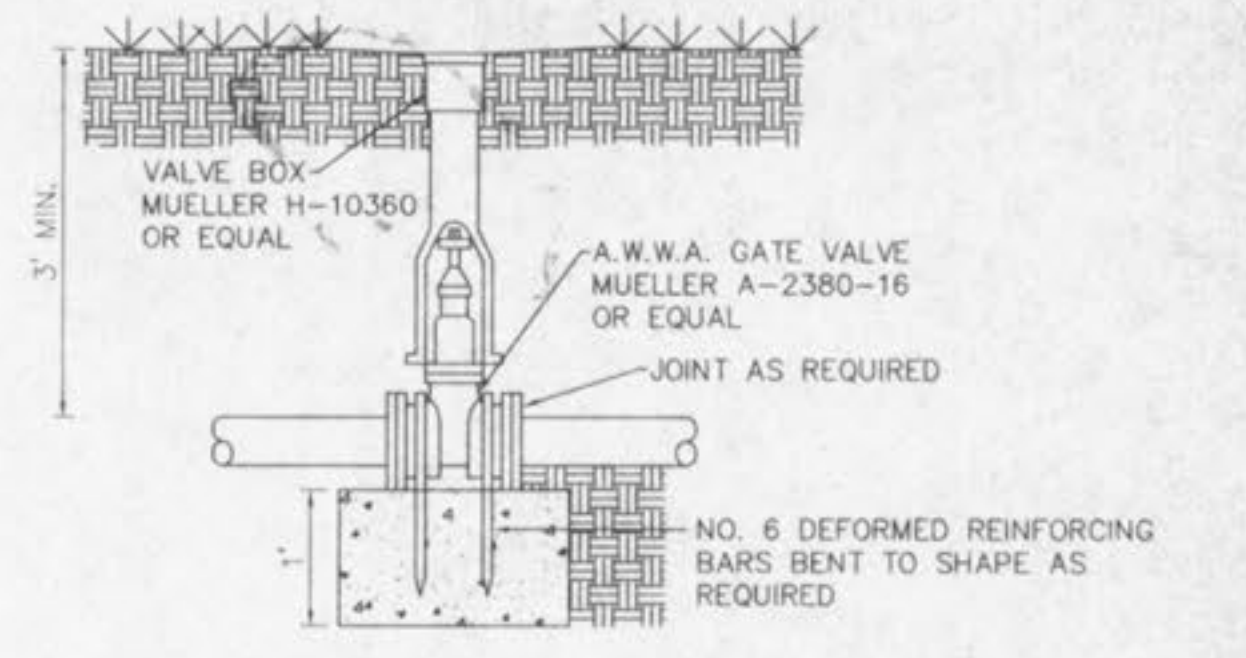
**RIP RAP UNDERLAIN WITH WOVEN GEOTEXTILE FABRIC**



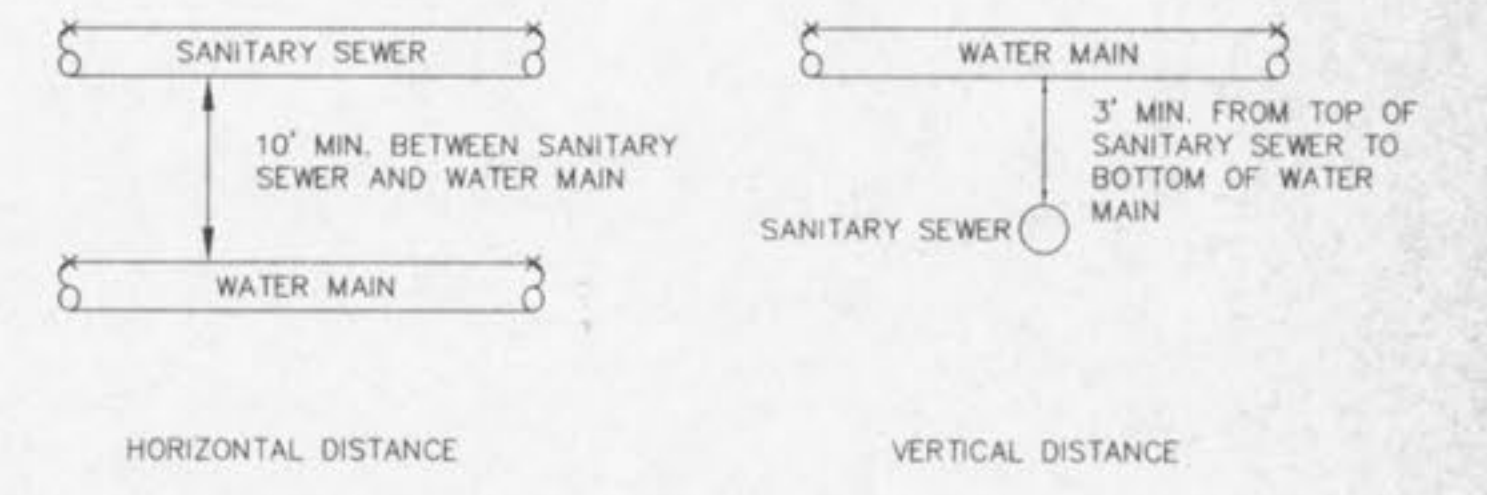
**TYPICAL WATER MAIN INSTALLATION DETAILS**  
NOT TO SCALE



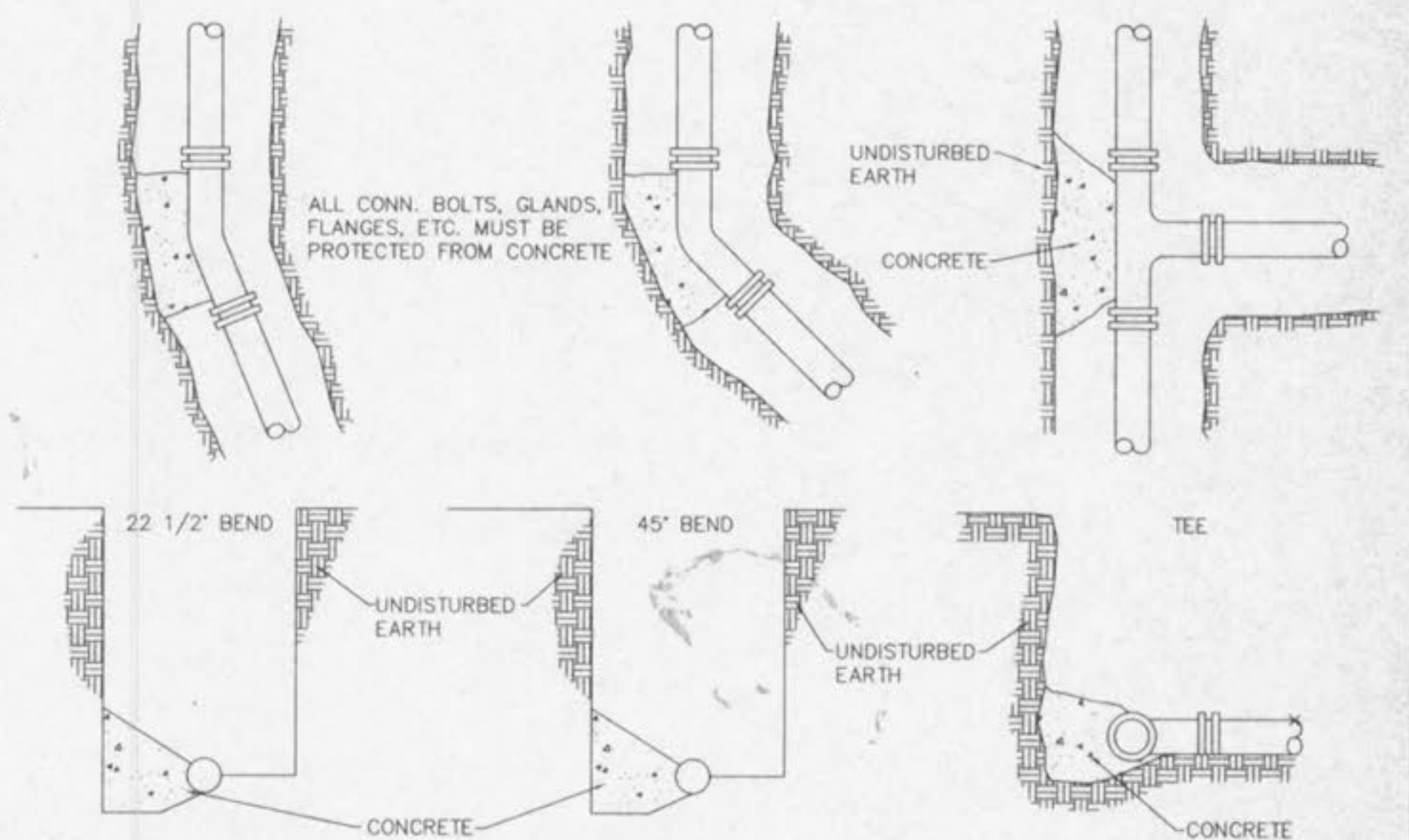
**FLUSHING HYDRANT**  
NOT TO SCALE



**GATE VALVE W/THRUST BLOCK**  
NOT TO SCALE



**TYPICAL WATER AND SEWER SEPARATION**  
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'