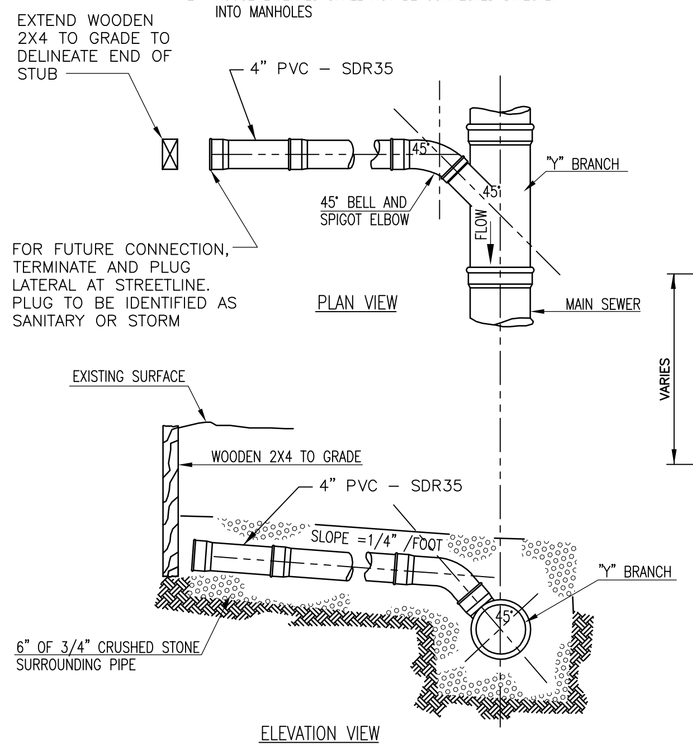
NOTES:

1. LOCATION / WARNING TAPE SHALL BE INSTALLED OVER CENTERLINE OF PIPE AT A MAXIMUM OF 24 INCHES BELOW FINISH GRADE.
2. HOUSE LATERALS SHALL NOT BE CONNECTED DIRECTLY INTO MANHOLES

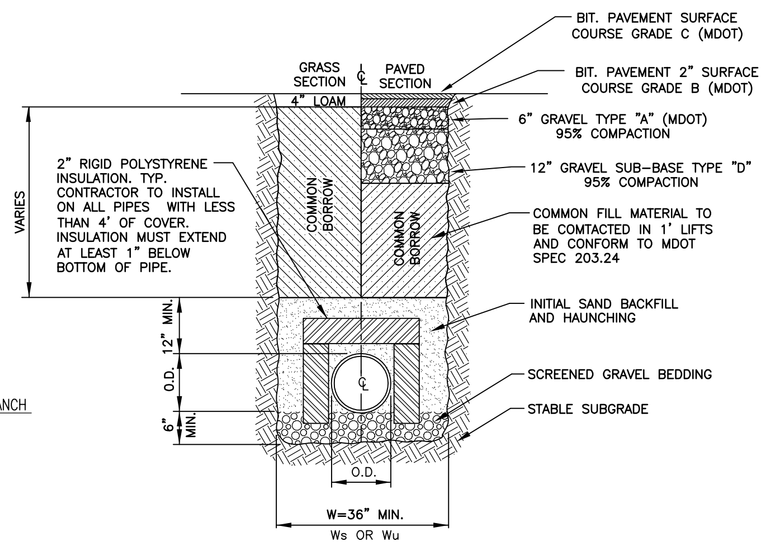


TYPICAL SANITARY SEWER HOUSE LATERAL "Y" CONNECTION DETAILS

NOT TO SCALE

TRENCH WIDTH Ws OR Wu		
DIAMETER OF PIPE D	Wu UNSHEETED	Ws SHEETED
12" AND SMALLER	3'-0"	4'-2"
15"	3'-2"	4'-4"
18"	3'-6"	4'-8"
21"	3'-10"	5'-0"
24"	4'-2"	5'-4"
27"	4'-6"	5'-8"
30"	4'-10"	6'-0"
36"	5'-6"	6'-8"
42"	6'-2"	7'-4"
48"	6'-10"	8'-0"

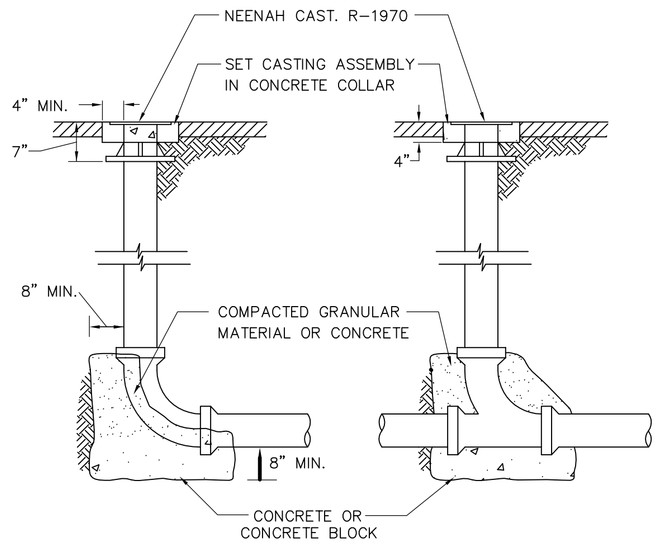
TRENCH WIDTH DATA



SEWER TRENCH SECTION

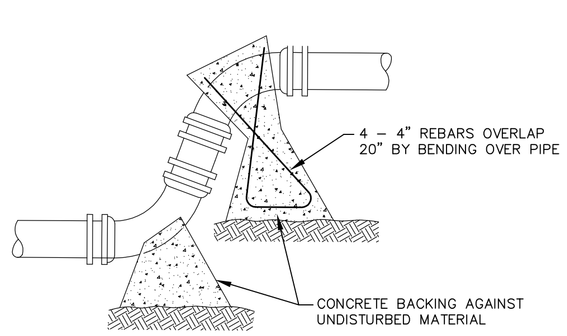
N. T. S.

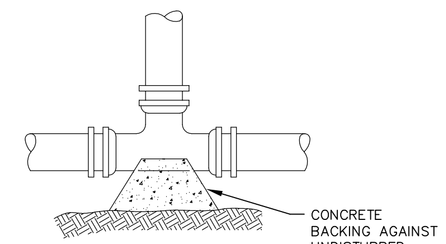
NOTE:
CLEANOUT TOP SHALL BE ENCLOSED IN CASTING AND/OR FABRICATED COVER ASSEMBLY.



SEWER CLEANOUT DETAIL

N.T.S.





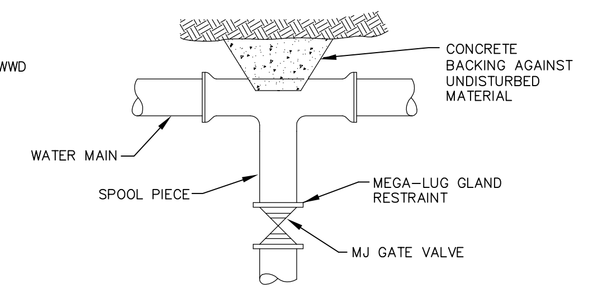
TYPICAL TEE

NOT TO SCALE

NOTE:
NO WATERLINE OFFSETS ARE TO BE USED WITHOUT PRIOR WRITTEN APPROVAL OF KKWWD

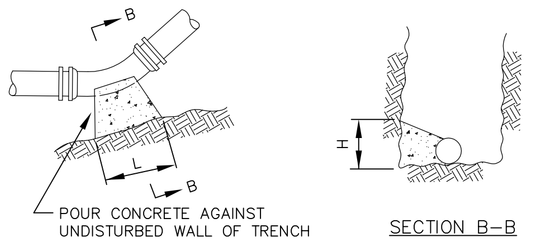
TYPICAL OFF-SET

NOT TO SCALE



TYPICAL VALVE CONNECTION RESTRAINED JOINT TEE

NOT TO SCALE



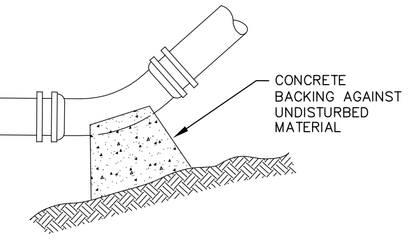
BEARING AREAS – SQUARE FEET					
NOMINAL DIAMETER OF FITTING	FITTING				
	DEAD END	BRANCH OF TEE	90° BEND	45° BEND	BEND SMALLER THAN 45° GREATER THAN 10°
6"	2	2	3	2	2
8"	4	4	5	3	2
10"	6	6	8	4	2
12"	8	8	10	6	3
14"	12	12	16	9	4
16"	12	12	20	10	5

NOTES

1. ALL BENDS, TEE HYDRANTS AND DEAD ENDS SHALL BE BRACED WITH CONCRETE THRUST BLOCKS.
2. BEARING AREA IS AREA OF CONCRETE IN CONTACT WITH WALL OF TRENCH=HxL.
3. HEIGHT (H) AND LENGTH (L) AS REQUIRED TO OBTAIN BEARING AREA IN TABLE.

THRUST BLOCK DETAILS

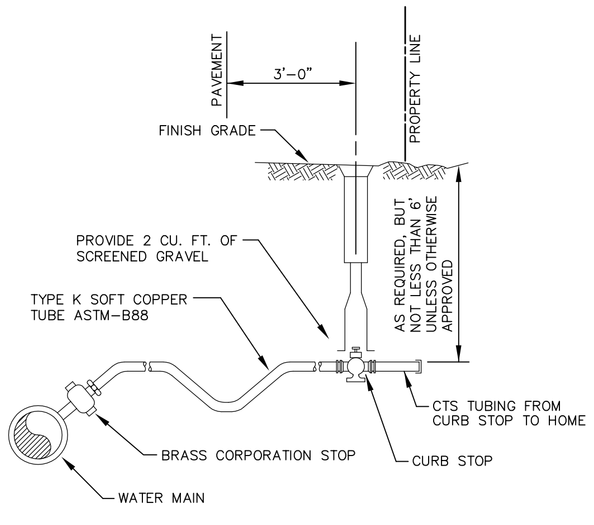
NOT TO SCALE



TYPICAL BEND

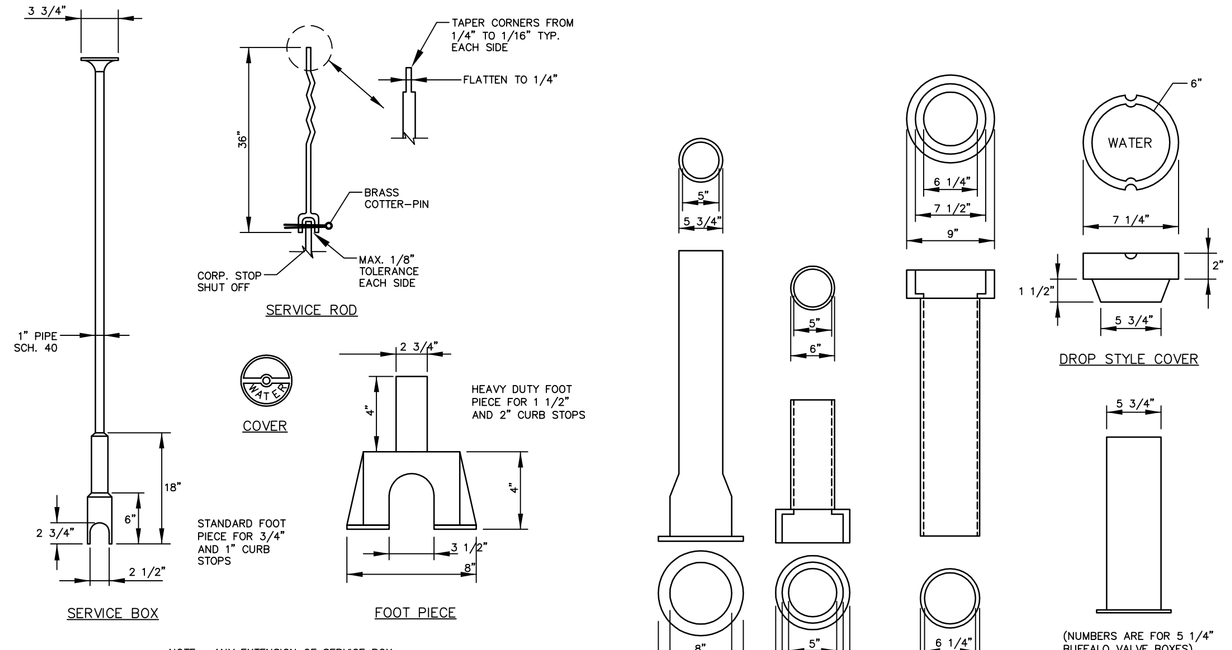
NOT TO SCALE

THIS PLAN IS FOR REVIEW PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION OR RECORDING



TYPICAL WATER SERVICE CONNECTION

NOT TO SCALE



VALVE BOX & COVER

NOT TO SCALE

Revision:	By:	Date:	Change:
1	SMA	1/23/14	REVISED PER PWD

PROJECT NUMBER: 33946 | ACAD FILE: 33946-DETAILS.DWG | SCALE: AS NOTED | DATE: AUGUST 20, 2013

Drawing Name:
WATER & SEWER DETAILS

Project Name:
SINGLE FAMILY RESIDENCE
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Owner/Applicant:
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SHEET 3 OF 3

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