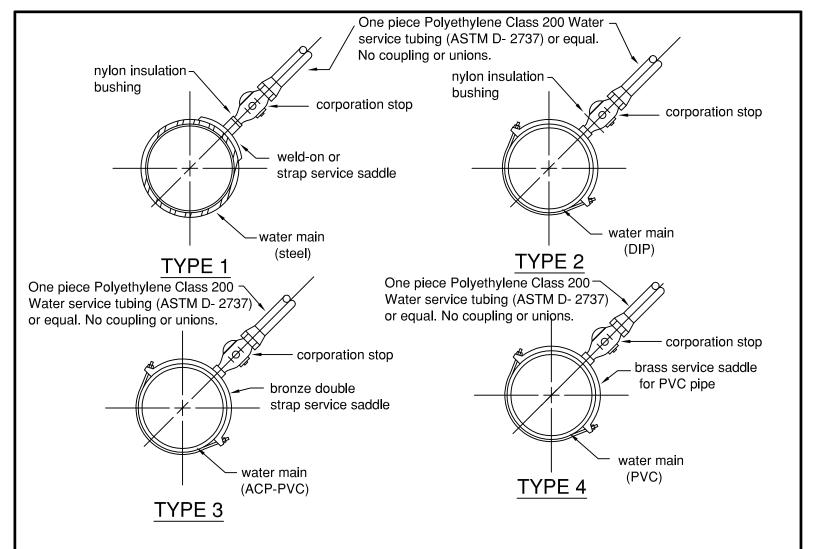


CITY/EMID STANDARD DETAILS

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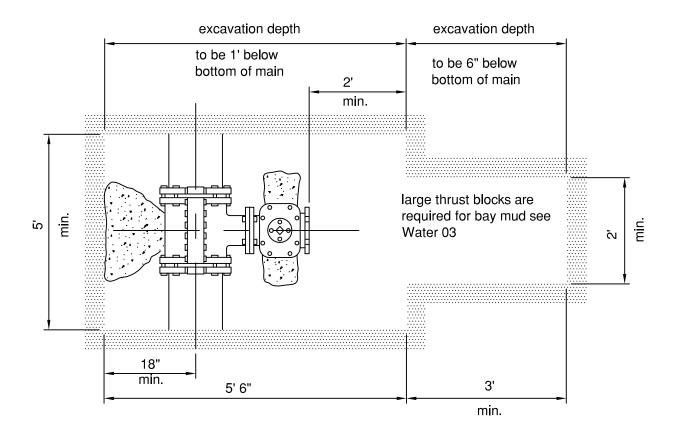


	SERVICE CONNECTION SCHEDULE									
Service		WATER MAIN MATERIAL								
Size	STEEL	D.I.P.	A.C.P.	PVC	PVC					
3/4"	Type 1	Type 2	Type 3	Type 3	Type 4					
1"	"	"	"	"	"					
1 1/2"	"	" " " "								
2"	"	"	"	"	"					

CORP STOP	TYPE 1 & 2	TYPE 3 & 4
FORD	F1100G	F1000G
MUELLER	H15024	H15006

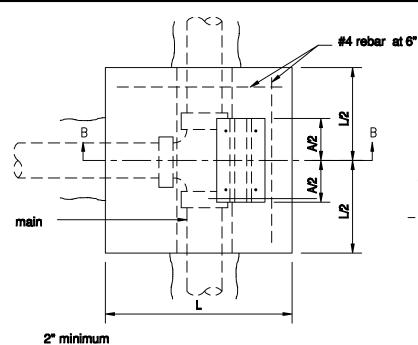
- 1. Type 1 install anode as shown in standard detail.
- 2. Type 1 and 2 wrap corporation stop and 5' of copper tubing with 10 mil PVC tape 1/2 lapped.
- 3. Type 1 if water main is coated, replace coating on main and insulating brush with 1/4" minimum coat of same material or 10 mil tape.
- 4. Type 2 if main is polywrapped, repair and extend polywrap to cover corporation stop.
- 5. All brass corporation stops and brass saddles shall have cc threds.
- 6. One Piece Polyethylene Class 200 Water service tubing (ASTM D- 2737) or equal. No coupling or unions.

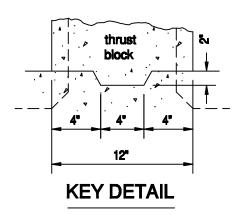
ESTERO MUNICIPAL IMPROVEMEN	IT DISTRICT					
CITY OF FOSTER CITY, CALI	FORNIA					
WATER		Rev. D	ate		Descrip	otion
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		DWN:	DWN:			Water 01
CONNECTION TYPE FOR 3/4"-2	" SERVICE TAPS	CHK:			SHT	OF
APPROVED:	APPROVED:				SCALE	: NONE
CITY/DISTRICT ENGINEER	DEPART	MENT S	SUPER	VISOR	DATE:	Oct. 2007

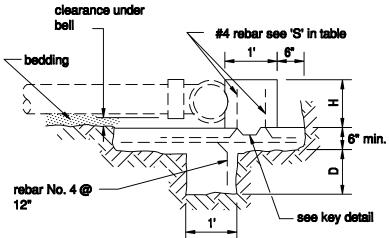


- 1. No tap to be made within 3 feet of a joint, coupling, or fitting.
- 2. Contractor to install thrust blocks behind and under valve tapping sleeve.
- 3. For bay mud conditions see Water Detail 03.
- 4. Tapping sleeve and trim shall be 316 stainless steel or equal.
- 5. The contractor supplies the material and makes the wet tap.
- 6. A permit from the City Engineer is needed.
- 7. Cathodic protection shall be in place.

ESTERO MUNICIPAL IMPROVEMENT DISTRICT CITY OF FOSTER CITY, CALIFORNIA						
W \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Date		Descri	ption Water 02
EXCAVATION FOR TAPPING SLE	EVES & VALVES	DWN: CHK:				OF
APPROVED:	APPROVED:				SCALE	E: NONE
CITY/DISTRICT ENGINEER	DEPARTMENT	SUPE	RINTE	NDENT	DATE:	Oct. 2007







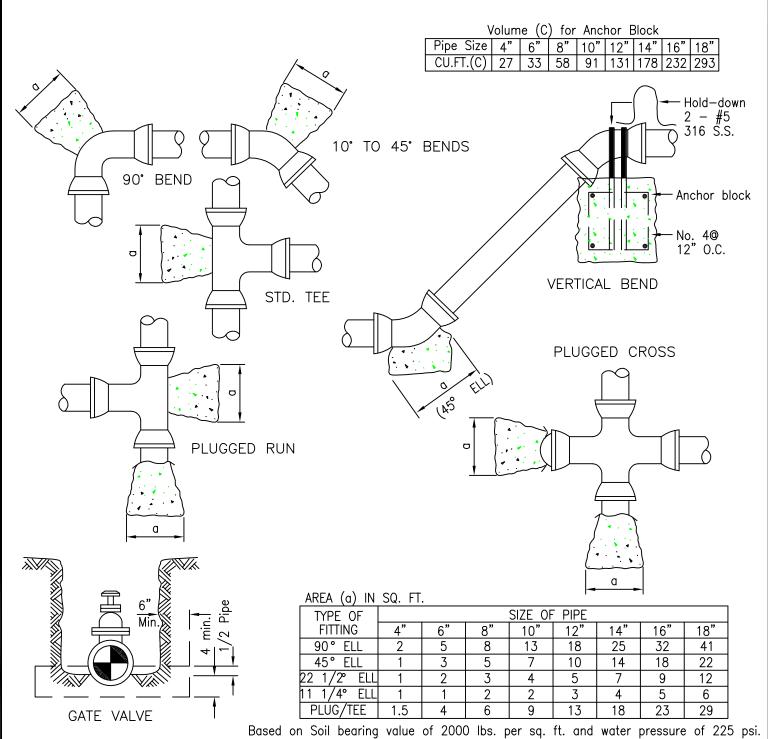
SECTION B-B

DIMENSION TABLE FOR TEE & DEAD ENDS									
PIPE DIAMETER	TEE A	DEAD END A	D	Н	L	REBAR 'S' SIZE			
6"	16"	8"	12"	12"	4'	No. 4			
8"	18"	10"	12"	14"	4'	No. 4			
10"	22"	12"	24"	16"	4'	No. 5			
12"	24"	14"	36"	18"	5'	No. 6			

NOTE:

1. All fitting joints will be clear of concrete.

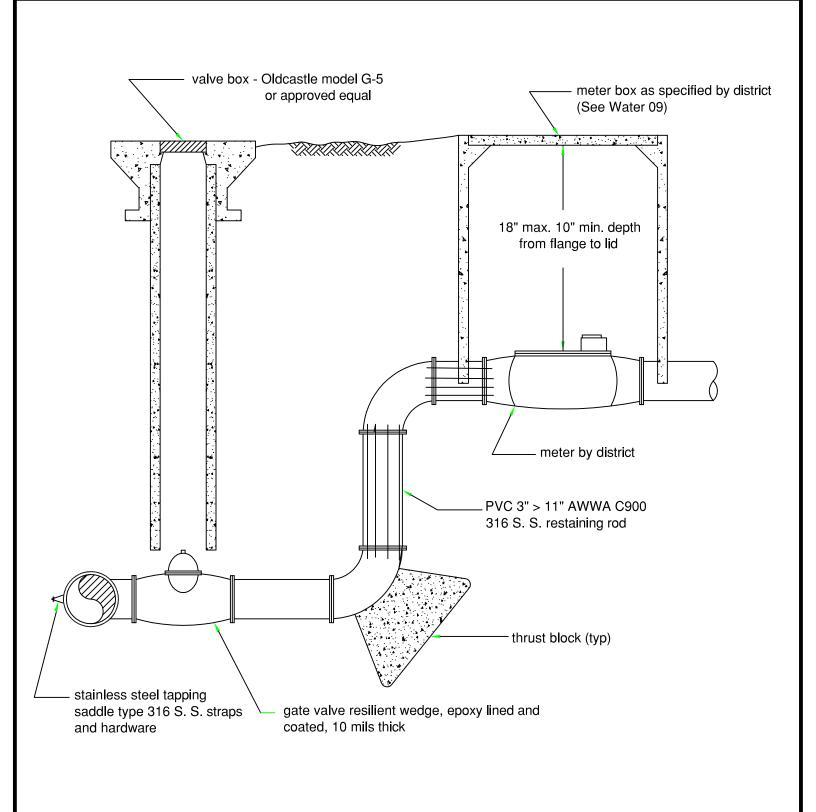
ES	ESTERO MUNICIPAL IMPROVEMENT DISTRICT					
CITY OF FOSTER CITY, CALIFORNIA						
	WATER				Descri	ption
	THRUST BLOCKS (II	M DAV MIIDI	DWN:		NO.	Water 03
	I I BLOCKS (II	N BAT MUD)	CHK:		SHT.	OF
APPROVED:		APPROVED:			SCALE	E: NONE
_	CITY/DISTRICT ENGINEER	DEPARTMEN	T SUPERIN	NTENDENT	DATE:	Oct. 2007



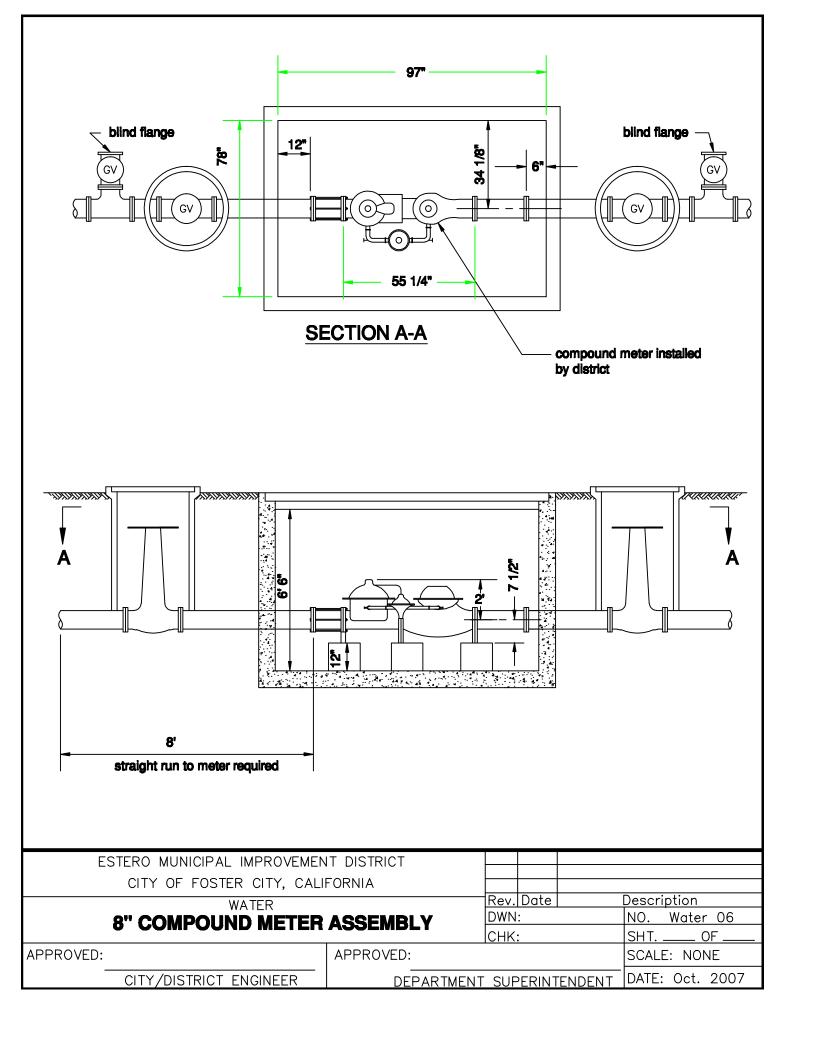
Notes:

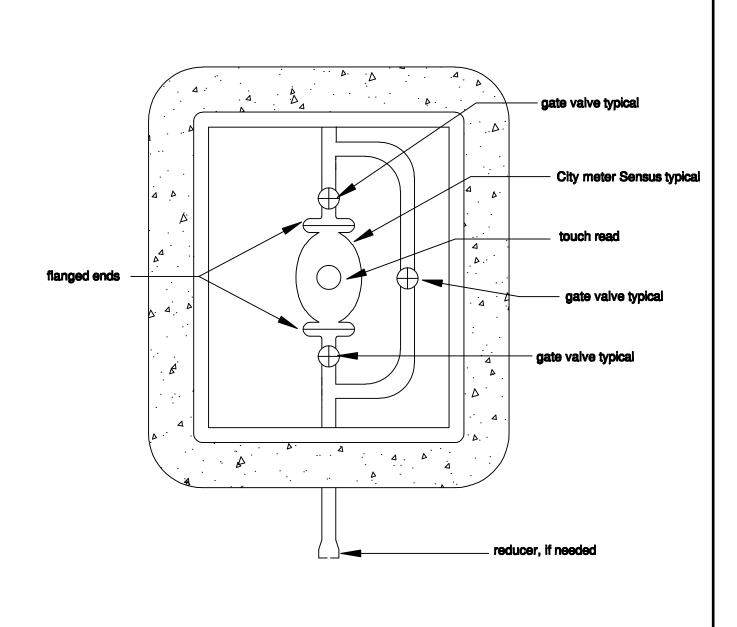
- 1. All thrust blocks must bear against undisturbed earth.
- 2. $22 \frac{1}{2}$ degree vertical bend requires $\frac{1}{2}$ the volume concrete as 45 degree bend.
- 3. Form as required to keep concrete off of mechanical joint or flange bolts.

ESTERO MUNICIPAL IMPROVEMENT DISTRICT								
CITY OF FOSTER CITY, CALIFORNIA								
	¥V∕\ ∟ \			Rev. [)ate		Descri	ption
				DWN:			NO.	WATER 04
	TIMOST BEOCKS			HK:			SHT.	OF
APPROVED:		APPROVED:					SCAL	E: NONE
	CITY/DISTRICT ENGINEER		DEPARTME	ENT S	SUPE	RVISOR	DATE:	Oct. 2007

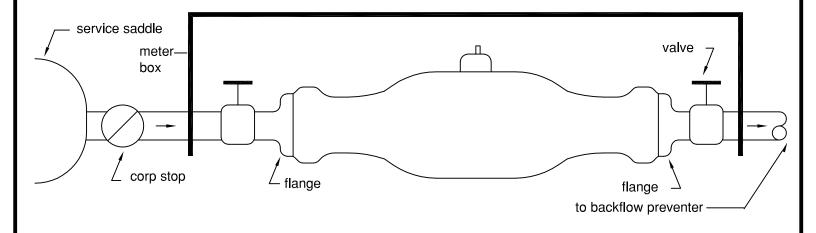


ESTERO MUNICIPAL IMPROVEME			
CITY OF FOSTER CITY, CAL	_IFORNIA		
WATER SYSTEM		Rev. Date	Description
WATER SERVICE (3" AN	ID I ADGEDI	DWN:	NO. Water 05
WATER SERVICE (S. AI	ID LANGEN)	CHK:	SHT OF
APPROVED:	APPROVED:		SCALE: NONE
CITY/DISTRICT ENGINEER	DEPARTMEN	IT SUPERINTENDENT	DATE: Oct. 2007





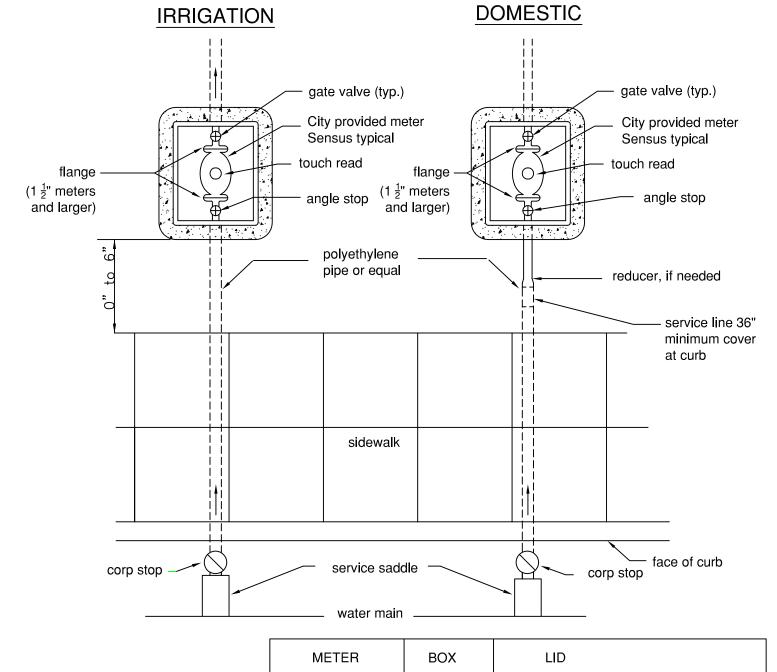
ESTERO MUNICIPAL IMPROVEMENT DISTRICT CITY OF FOSTER CITY, CALIFORNIA							
	BY PASS METER		Rev. DWN CHK			Descri NO. SHT.	Water 07
APPROVED:		APPROVED:				SCALE	E: NONE
	CITY/DISTRICT ENGINEER	 DEPARTMEN	T SU	PERIN	TENDENT	DATE:	Oct. 2007



Sensus Type	<u>Size</u>	Operating Range (gpm)	Meter Length	End Type
SR II	3" 4" 1"	$\frac{1}{2}$ - 30 $\frac{3}{4}$ - 50	9" 10	threaded threaded
OMNI C ²	1½" 2" 3" 4" 6"	$\frac{1}{4} - 200$ $\frac{1}{4} - 200$ $\frac{1}{2} - 500$ $\frac{3}{4} - 1000$ $2\frac{1}{2} - 2500$	13" 15 ¹ / ₄ " 17" 20" 24"	flanged flanged flanged flanged flanged
OMNI T ²	1½" 2" 3" 4"	$\frac{3}{4}$ - 200 1 - 250 1 $\frac{1}{2}$ - 650 2 - 1250	13" 17" 19" 23"	flanged flanged flanged flanged
OMNI F ²	4" 6"	1 ½ - 1000 3 - 2000	33" 45"	flanged flanged

- 1. All meters shall have a minimum 10" and a maximum 18" space from the top of the angle stop or flange to the bottom of the meter box lid.
- 2. Installation: Add $\frac{1}{4}$ " extra spacing to the meter length to allow for two $\frac{1}{8}$ " thick gaskets. For example, on a 13" long 1 $\frac{1}{2}$ " Omni C² meter, leave 13 $\frac{1}{4}$ " from flange to flange.
- 3. For $\frac{3}{4}$ " and 1" meter assembly, see Water 10.

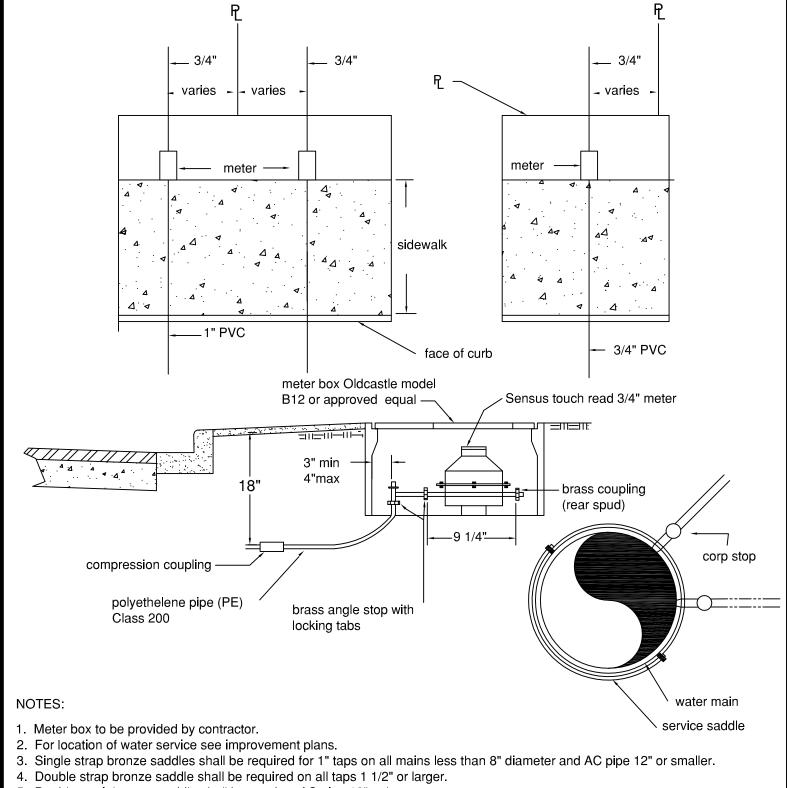
ESTERO MUNICIPAL IMPROVEMENT DISTRICT CITY OF FOSTER CITY, CALIFORNIA							
WATER METER ASSEMBLY		.Y	Rev. DWN CHK			Descri NO. SHT	ption Water 08 —— OF ——
APPROVED:		APPROVED:				SCALE	E: NONE
_	CITY/DISTRICT ENGINEER	DEPARTMEN	T SU	PERIN	TENDENT	DATE:	July 2010



METER	вох	LID
3/4"	B12	B12P
1"	B16	B16P
1 1/2"	B30	B30P
2"	B36	B36P
3"	B48	B48M
4"	B48	B48M2 (2PC lid) w/read lids
6" and up	vault	R-37 pit R37 - 54H lid w/ read lid

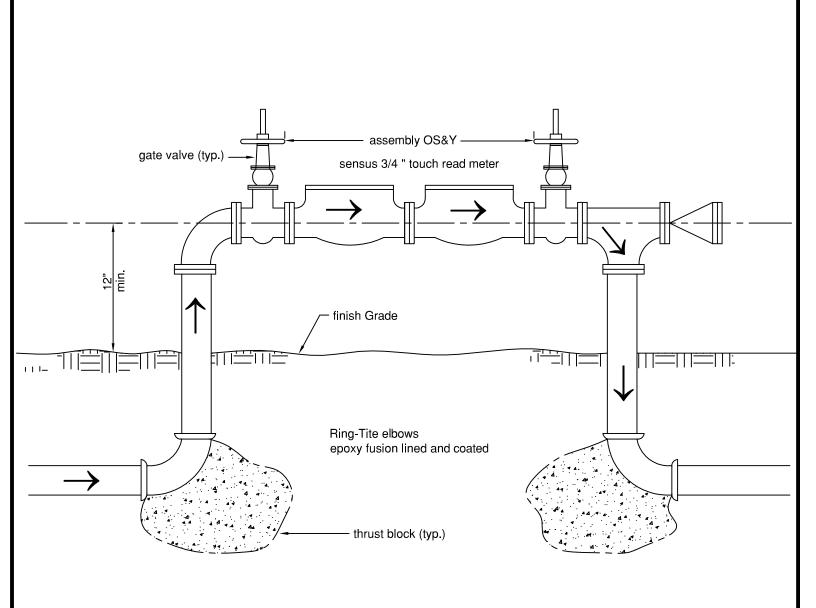
- 1. Install all backflow devices after the meters.
- 2. $\frac{3}{4}$ % 1" meters -- brass meter coupling provided by contractor (no flange connections)

ESTERO MUNICIPAL IMPROVEME CITY OF FOSTER CITY, CAL						
WATER DOMESTIC & IRRIGATION METER ASSEMBLY		Rev. DWN CHK			Descri NO. SHT.	Water 09
APPROVED:	APPROVED:				SCAL	E: NONE
CITY/DISTRICT ENGINEER	DEPARTMEN	T SU	PERIN	TENDENT	DATE:	Oct. 2007



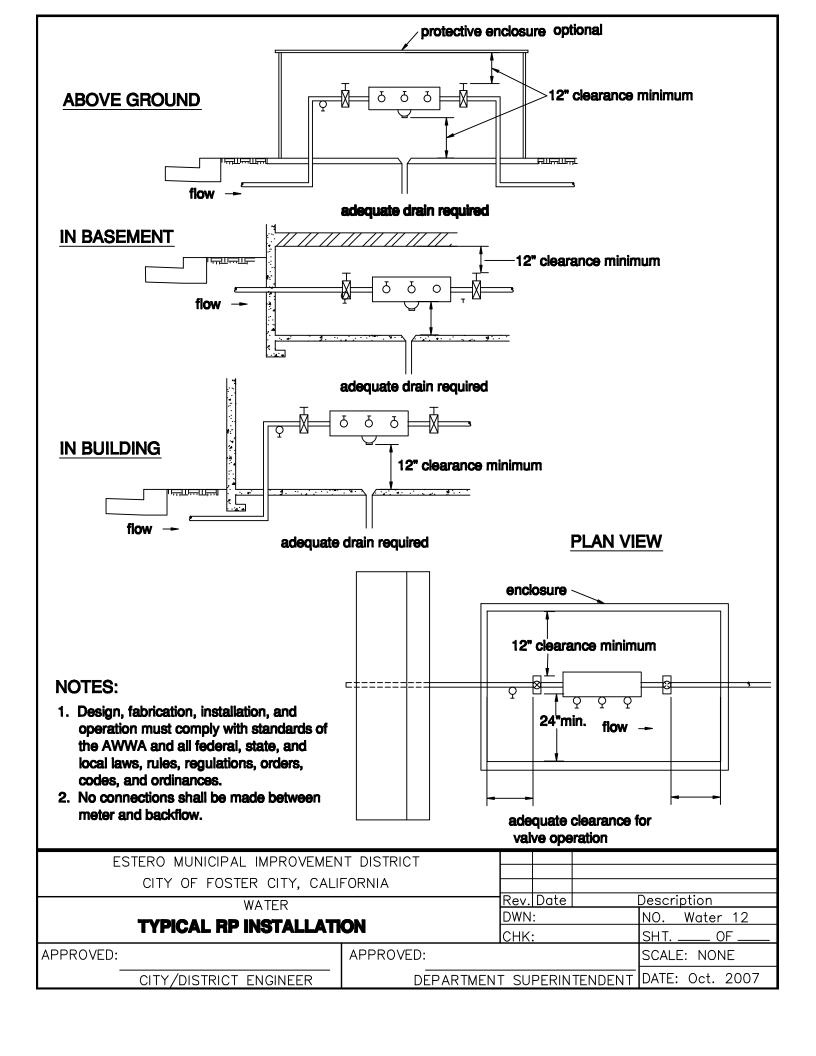
- 5. Double or triple strap saddle shall be used on AC pipe 12" or larger.
- 6. PVC pipe shall use single bolt band type stainless steel saddle.
- 7. All saddles shall be Mueller, Ford, or approved equal.
- 8. Boxes installed in driveways shall have traffic covers.
- 9. Meter assembly for $\frac{3}{4}$ % 1" meters for larger meter assembly, see Water 09

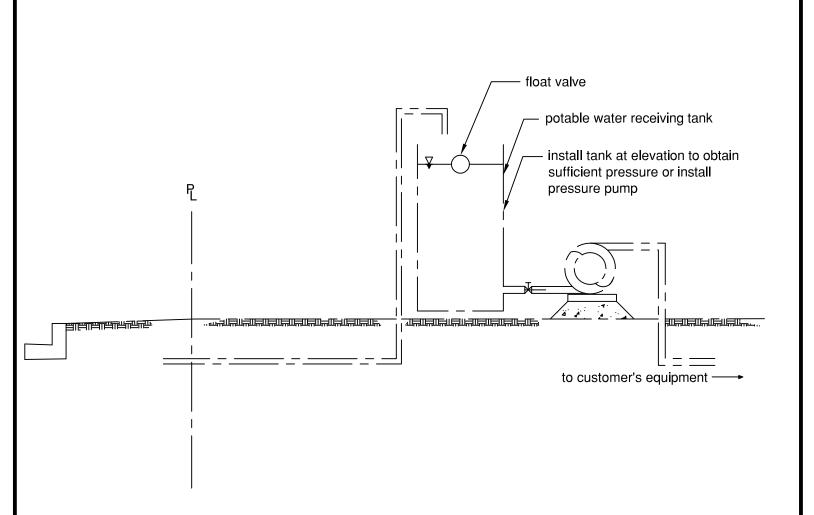
■ ESTERO MUNICIPAL IMPROVEMENT DISTRICT L								
CITY OF FOSTER CITY, CALIFORNIA								
WATEN			Rev. Date			Description		
			DWN:			Water 10		
TYPICAL WATER SERVICE I	NSTALLATION	CHK:			SHT.	OF		
APPROVED:	APPROVED:				SCALI	E: NONE		
CITY/DISTRICT ENGINEER	 DEPARTMEN	T SU	PERIN	TENDENT	DATE:	Oct. 2007		



- Double Check-Valve Assembly must be approved by the State of California Department of Health Approved Backflow Assemblies Guide.
 City to install Sensus touch read meter, use detail for domestic and fire service line installations.

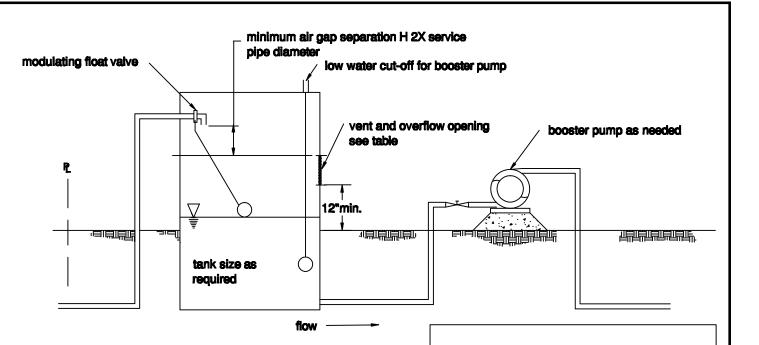
ESTERO MUNICIPAL IMPROVEMEN CITY OF FOSTER CITY, CALIF			
DOUBLE CHECK-VALVE	Rev. Date DWN: CHK:	Description NO. Water 11 SHT OF	
APPROVED:	APPROVED:		SCALE: NONE
CITY/DISTRICT ENGINEER	 DEPARTMEN	T SUPERINTENDEN	DATE: Oct. 2007

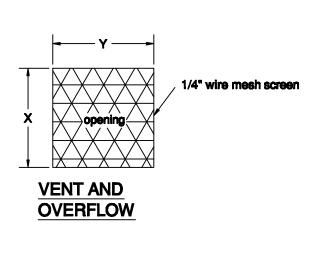




- 1. All metal material lower than 12" above ground must be epoxy lined and coated.
- 2. Tank shall be of substantial construction and of a kind and size to suit consumer's needs.
- 3. Tank may be situated at ground level, but must have a pump to provide adequate pressure.
- 4. Design, fabrication, installation, and operation must comply with the standards of the AWWA and all federal, state, and local laws, rules, regulations, orders, codes, and ordinances.
- 5. No connections shall be between the meter and the receiving vessel.

ESTERO MUNICIPAL IMPROVEMENT DISTRICT						
CITY OF FOSTER CITY, CALIFORNIA						
■ WAILN F		Rev.	Date		<u>Descri</u>	iption
		DWN:		NO.	Water 13	
TYPICAL AIR GAP SEPARATION I	NSTALLATION	СНК	:		SHT.	OF
APPROVED:	APPROVED:				SCAL	E: NONE
CITY/DISTRICT ENGINEER	 DEPARTMEN	T SL	IPERIN	TENDENT	DATE:	Oct. 2007



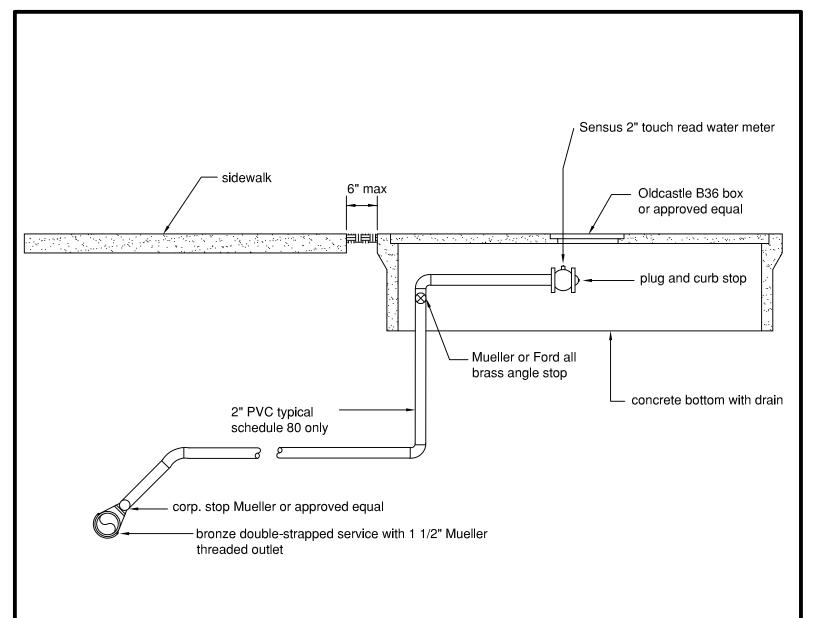


	ANDOVERFLOW	
SERVICE PIPE	DIME	NTIONS
SIZE	x	Y
3/4"	4"	3"
1"	4"	4 1/2"
1 1/2"	5"	6"
2"	6"	7"
3"	7"	10"
4"	7"	10"
6"	7"	15"

VENT AND OVERFLOW TABLE

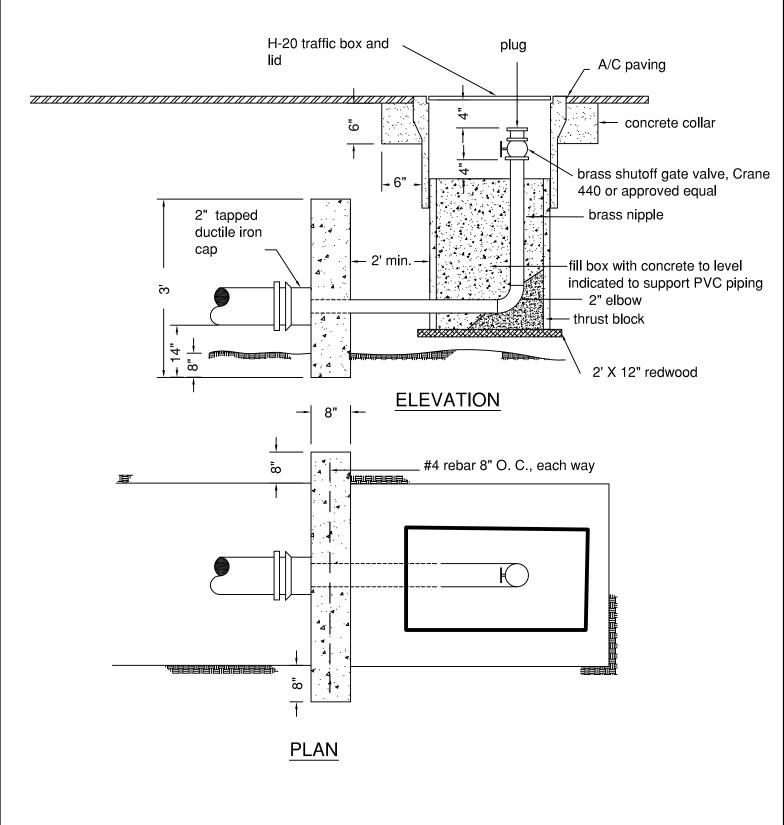
- 1. Design, fabrication, installation, and operation must comply with standards of the AWWA and all federal, state, and local laws, rules, regulations, orders, codes, and ordinances.
- 2. No connections shall be made between the meter and the receiving vessels.
- 3. The overflow opening and screen size shall be as shown hereon or greater capacity as required to maintain the specified air gap separation.
- 4. All metal materials lower than 12" above ground level must be epoxy lined and coated.

ESTERO MUNICIPAL IMPROVEMENT DISTRICT CITY OF FOSTER CITY, CALIFORNIA				
AI TERNATIVE AIR GAP SEPARATION INSTALL ATION		DWV		Description NO. Water 14 SHT OF
APPROVED:	APPRO	OVED:		SCALE: NONE
CITY/DISTRIC	Γ ENGINEER	DEPARTMENT SU	JPERINTENDEN	T DATE: Oct. 2007

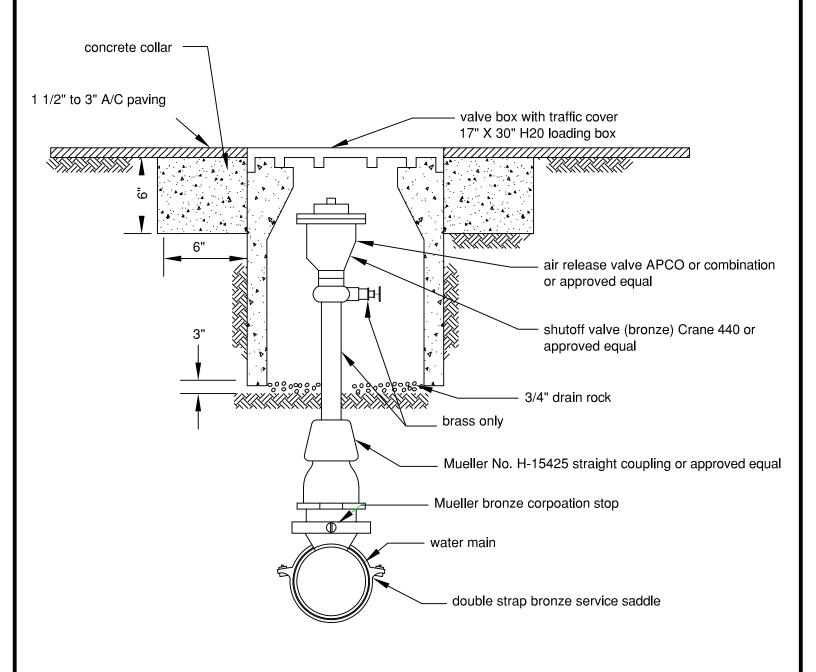


- 1. On AC pipe 12" and smaller, the service saddle shall be Rockwell No. 315, single strap type, Mueller, Ford, or approved equal.
- 2. On AC pipe larger than 12", the service saddle shall be Rockwell Nos. 362 or 366, double or triple strapped type, Mueller, Ford, or approved equal.
- 3. On PVC pipe the service saddle shall be Rockwell No. 371, single bolt band type, Mueller, Ford, or approved equal.
- 4. Center outlet 14" below grade.
- 5. Boxes installed in driveways shall have traffic covers.

ESTERO MUNICIPAL IMPROVEMENT DISTRICT					
CITY OF FOSTER CITY, CALIFORNIA			_		D . 1.
WATEN			<u>Date</u>		<u>Description</u> NO. Water 15
2" WATER METER INSTA	ALLATION	DWN: CHK:			SHT OF
APPROVED:	APPROVED:				SCALE: NONE
CITY/DISTRICT ENGINEER	DEPARTMEN	T SU	PERIN	TENDENT	DATE: Oct. 2007

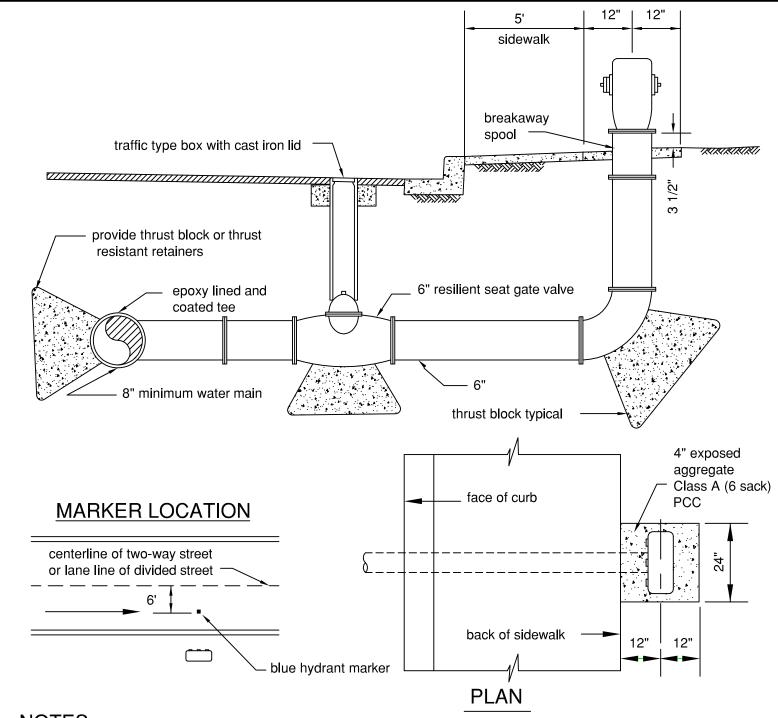


ESTERO MUNICIPAL IMPROVEMENT DISTRICT				
CITY OF FOSTER CITY, CALIFORNIA				
WA	ATFR		Rev. Date	Description
2" WATER BLOWOFF			DWN:	NO. Water 16
2 WAIERD	LOWOFF		CHK:	SHT OF
APPROVED:	APPR	OVED:		SCALE: NONE
	NGINEER	DEPARTMEN ⁻	T SUPERINTEI	NDENT DATE: Oct. 2007



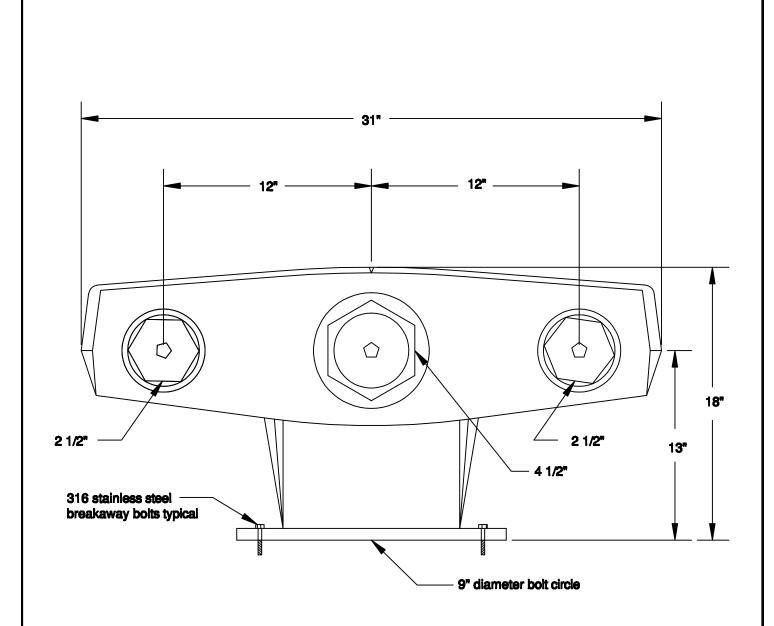
- 1. Valves and boxes are to be located directly over the pipe.
- 2. Double strap bronze service saddles (Mueller, Ford, or approved equal) shall be required on all water main pipes.
- 3. Air release valves are to be factory fusion epoxy lined and coated.

ESTERO MUNICIPAL IMPROVEMENT DISTRICT				
CITY OF FOSTER CITY, CALIFORNIA				
WATER		Rev. Do	ate	Description
AIR RELEASE VALVE ASSEMBLY				NO. Water 17
AIR RELEASE VALVE AS	SEIVIDL Y	CHK:		SHT OF
APPROVED:	APPROVED:			SCALE: NONE
CITY/DISTRICT ENGINEER	DEPARTMEN	IT SUPE	RINTENDENT	DATE: Oct. 2007



- 1. Blue markers shall be placed in the center of the travel lane adjacent to the fire hydrant.
- 2. Blue markers shall be Stimsonite #88 (reflective both ends) or approved equal, and shall be attached to pavement per California Standard Specification, section 95-2.04.
- 3. Hydrant and bury, including 5/8" X 3 1/4" type 316 stainless steel bolts, nuts, washers, and gaskets to be furnished by contractor.
- 4. Valve and bury to be epoxy lined and coated as specified in section 15060.
- 5. Bury shall have slotted holes in order to permit aligning face of hydrant with face of curb.
- 6. For anode installation, see Cathodic Protection Detail.

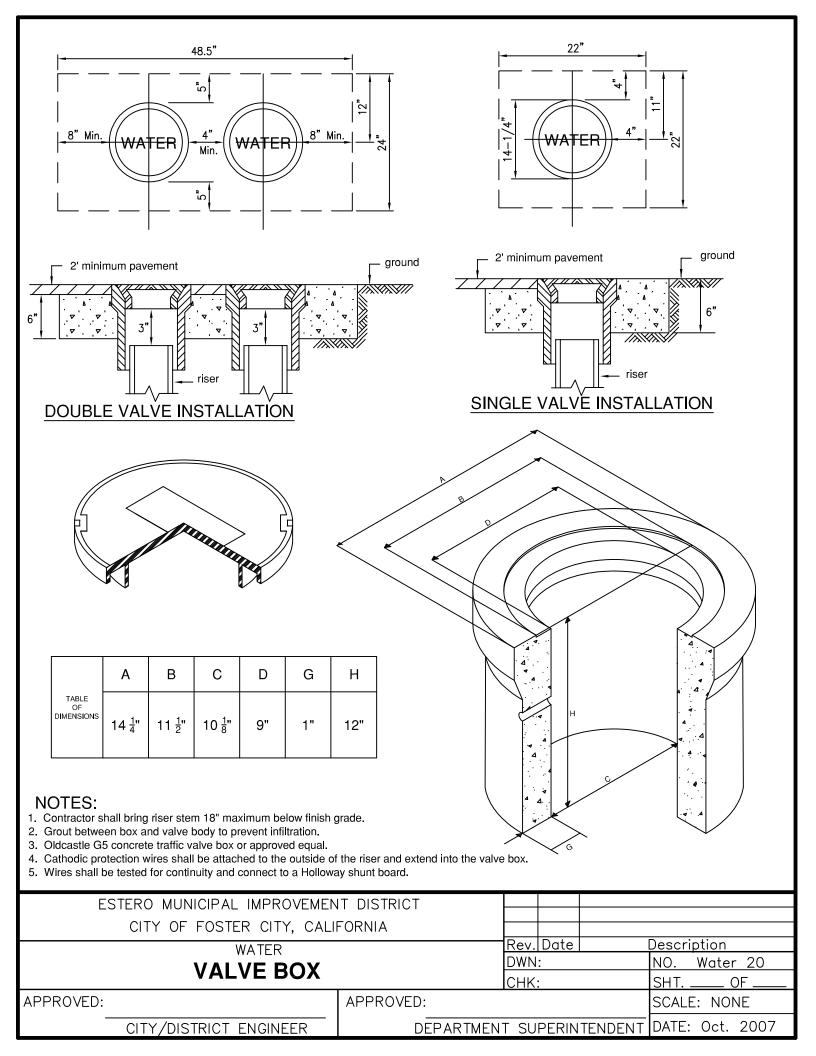
ESTERO MUNICIPAL IMPROVEMEN	IT DISTRICT					
CITY OF FOSTER CITY, CALIFORNIA						
WATER SYSTEM		Rev. I	Date		Descri	ption
			DWN:		NO.	Water 18
FIRE HYDRANT ASSE	MBLY	CHK:		SHT	OF	
APPROVED:	APPROVED:				SCALE	E: NONE
CITY/DISTRICT ENGINEER	DEPARTMEN	T SUF	ERINT	ENDENT	DATE:	Oct. 2007

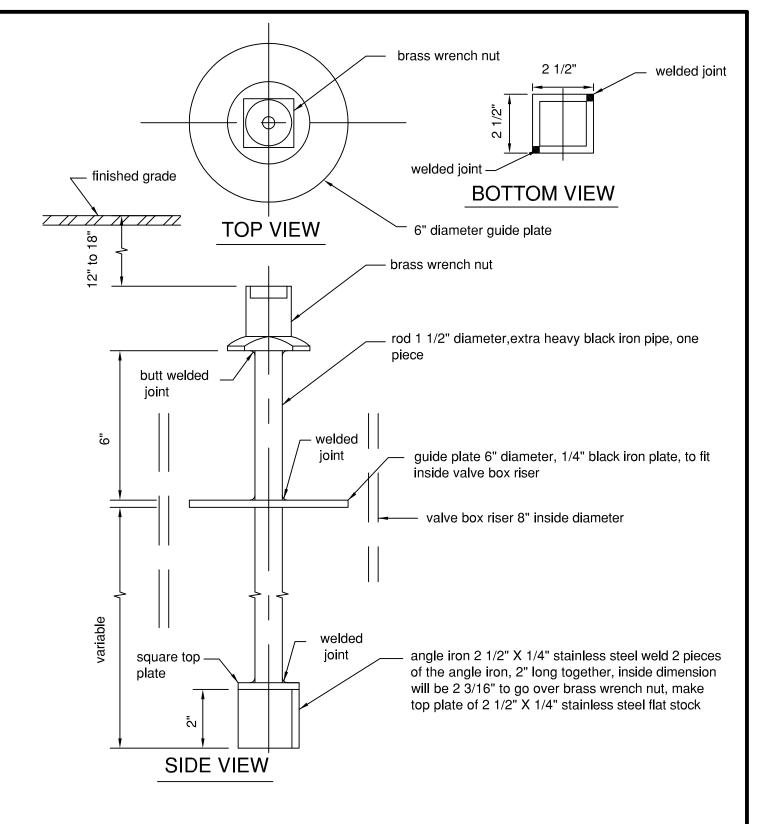


CLOW 92 LOW PROFILE

- Fire hydrant shall be Model 92, Foster City type, manufactured by Clow Co.
 Entire assembly shall be fusion epoxy lined and coated.
- 3. All hydrants shall be one color: Kelly-Moore 1700-333 Deep Tint Base Fire Hydrant Green.

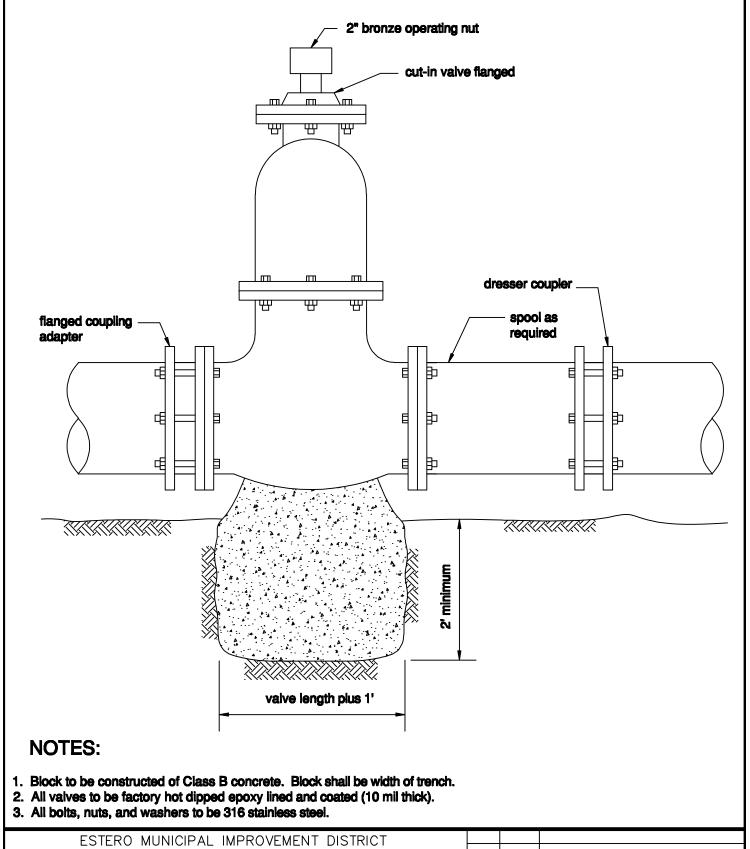
ESTERO MUNICIPAL IMPROVEMENT DISTRICT						
CITY OF FOSTER CITY, CALIFORNIA						
WATER		Rev.	Rev. Date		Description	
FIDE LIVERANT			DWN:		NO.	Water 19
FIRE HYDRAN	. I.	снк:			SHT.	OF
APPROVED:	APPROVED:				SCALE	E: NONE
CITY/DISTRICT ENGINEER	DEPARTMEN	T SUF	PERIN	TENDENT	DATE:	Oct. 2007



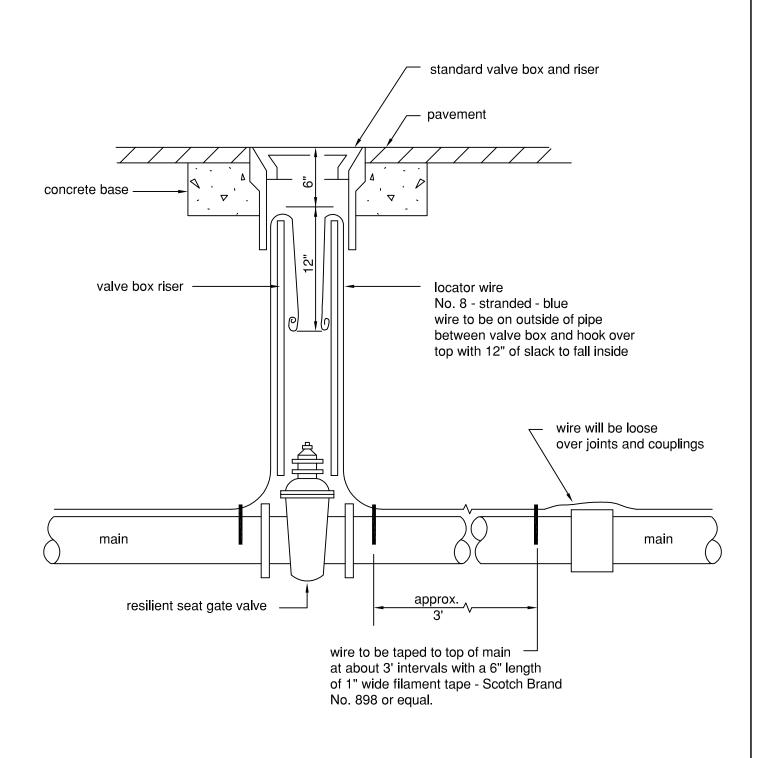


- 1. Extentions are required for valves with nuts more than 3' below the surface.
- 2. After assembly the valve stem shall be fusion epoxy coated per standard specifications.

ESTERO MUNICIPAL IMPR CITY OF FOSTER CIT			
WATER OPERATING NUT	Rev. Date DWN: CHK:	Description NO. Water 21 SHT OF	
APPROVED:	APPROVED:		SCALE: NONE
CITY/DISTRICT ENGIN	EER DEPARTME	ENT SUPERINTENDEN	DATE: Oct. 2007



ESTERO MUNICIPAL IMPROVEMENT DISTRICT						
CITY OF FOSTER CITY, CALIFORNIA						
WATER					Descri	otion
CIIT-IN VAI VE			DWN:		NO.	Water 22
			CHK:		SHT	OF
APPROVED:	APPROVED:				SCALE	: NONE
CITY/DISTRICT ENGINEER	DEPARTMEN	IT SU	PERIN	TENDENT	DATE:	Oct. 2007



ESTERO MUNICIPAL IMPROVEMEN					
CITY OF FOSTER CITY, CALI	FORNIA				
WATER	Rev.	Date		Description	
LOCATOR WIRE INSTALLATION			•		NO. Water 23
					SHT OF
APPROVED:	APPROVED:				SCALE: NONE
CITY/DISTRICT ENGINEER	DEPARTMEN	T SUF	PERINTE	NDENT	DATE: Oct. 2007

CATHODIC PROTECTION NOTES

GENERAL

1. All burried ferrous metallic pipe, valves, fittings etc. shall be cathodicly protected.

WELDS:

- 1. Wire connections to pipes, valves, fittings etc. shall be made using EXOTHERMIC weld kits.
- 2. Epoxy Coating shall be removed from the surface of the pipe, valve, fitting etc. over an area just sufficient to make the weld.
- 3. Exothermic welds shall be covered with a molded plastic dome filled with corrosion resistant compound (Handy Cap or equal) and secured with 10 mil tape.
- 4. All areas where the epoxy coating has been removed shall be repaired with liquid epoxy.
- 5. Exothermic welds shall not touch each other.

WIRE:

- 1. Wire for test stations shall be solid single conductor copper wire No. 10 or No. 12 AWG as shown.
- 2. Wire for Continuity bonds shall be stranded single conductor copper wire No. 8 AWG.
- 3. All wires shall have a minimum of 24" cover, be free of joints and splices and have at least 18" slack left in the test station.
- 4. Continuity Bond shall be a maximum length of 10 feet.

TEST STATION:

- 1. Test Station shall be installed per standard drawing "Cathodic Protection -- Test Station"
- 2. Test Stations shall have the legend "ANODE" cast on the lid.

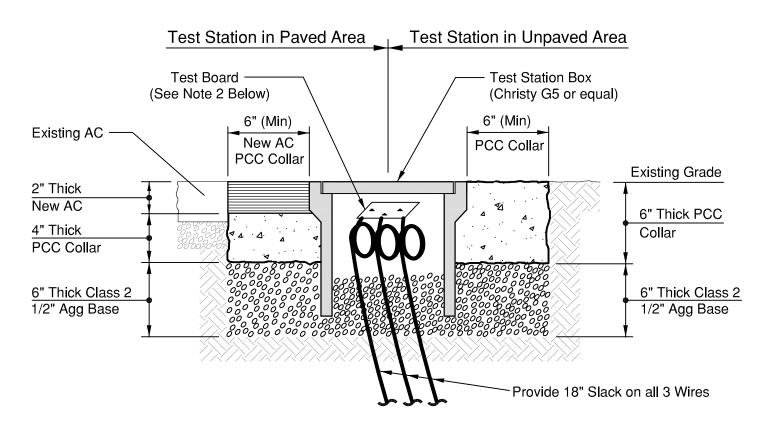
SACRIFICIAL ANODES:

- 1. Sacrificial anodes shall be zinc or magnesium anodes.
- 2. Bare Anode weight per installation shall be 30lbs minimum
- 3. See Cathodic Protection -- Anode Size (Sheet 5) for Anode Weight
- 4. Anode shall be placed a minimum of 3 feet from closest metal object.
- 5. Anode shall be drenched with water prior to backfilling trench.

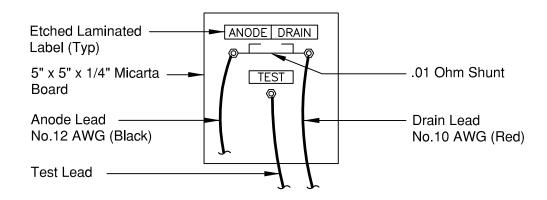
TEST & INSPECTION PROCEDURES:

- 1. City shall test cathodic protection assembly for continuity prior to backfilling of trench.
- 2. Contractor shall provide the City with test data indicating that cathodic protection assembly is operating at an acceptable potential.

ESTERO MUNICIPAL IMPROVEMENT DISTRICT						
CITY OF FOSTER CITY, CALIFORNIA						
				_	5.	Description
WATER CATHODIC PROTECTION NOTES			Rev	Date	Description	
		NI NOTE	-0	DWN:		Dwg No. Water 24
		-5	CHK:		Sheet 1 of 5	
APPROVED:		APPROVED:				Scale: None
-	CITY/DISTRICT ENGINEER		DEPARTMEN	JT SH	PERVISOR	Date:



TEST STATION HOUSING DETAIL

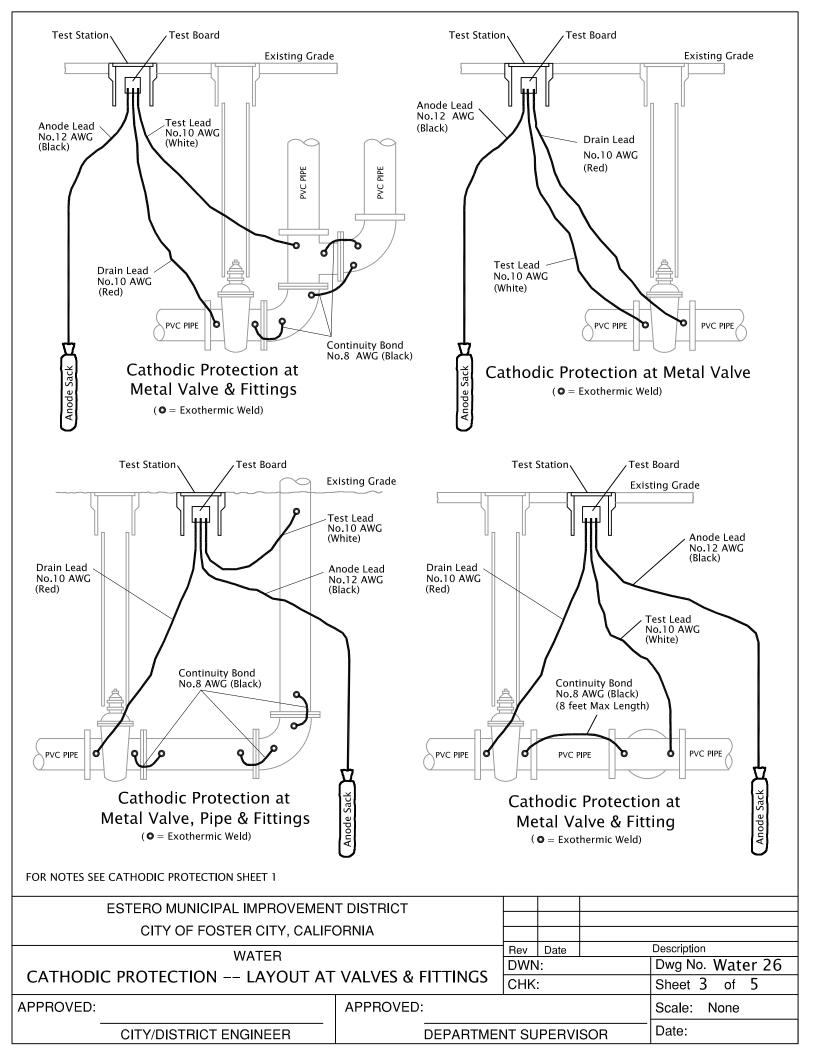


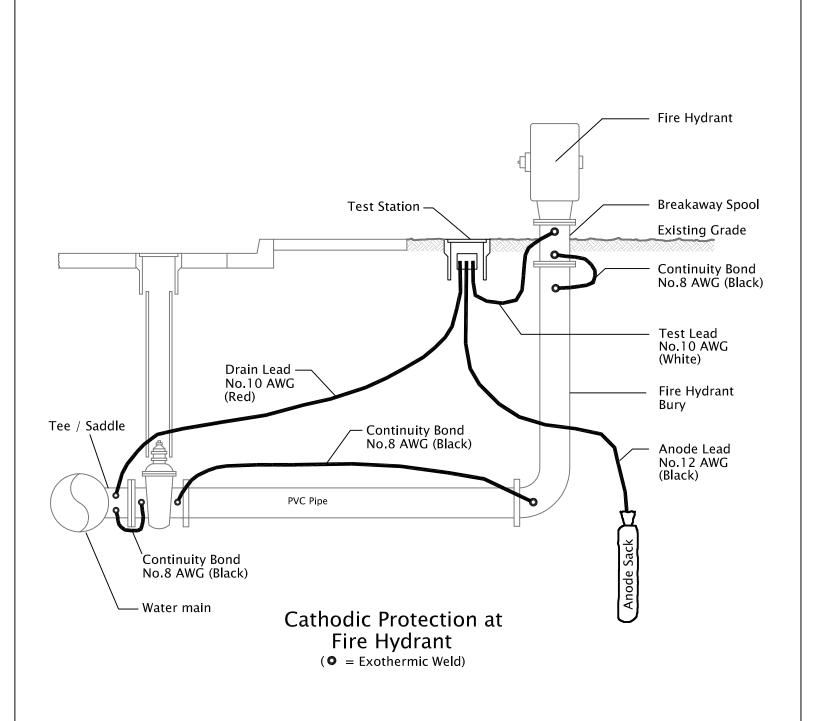
No.10 AWG (White)

TEST BOARD DETAIL

- 1. FOR GENERAL NOTES SEE CATHODIC PROTECTION SHEET 1
- 2. TEST BOARD MAY BE:
 - (a) MICARTA TYPE AS SHOWN ABOVE.
 - (b) "BIG FINK" TYPE STATION OR ENGINEER APPROVED EQUAL.

ESTERO MUNICIPAL IMPROVEMENT DISTRICT					
CITY OF FOSTER CITY, CALIFORNIA					
WATER CATHODIC PROTECTION TEST STATION			Date		Description
			DWN:		Dwg No. Water 25
			CHK:		Sheet 2 of 5
APPROVED: APPROVED:					Scale: None
CITY/DISTRICT ENGINEER DEPARTME		NT SU	PERVIS	SOR	Date:





FOR NOTES SEE CATHODIC PROTECTION SHEET 1

ESTERO MUNICIPAL IMPROVEMENT DISTRICT CITY OF FOSTER CITY, CALIFORNIA					
WATER CATHODIC PROTECTION LAYOUT AT FIRE HYDRANTS		Rev Date DWN:			Description Dwg No. Water 27 Sheet 4 of 5
APPROVED:	APPROVED:				Scale: None
CITY/DISTRICT ENGINEER	DEPARTMENT SUPERVISOR			₹	Date:

 TABLE 1 (Anode weight in lbs for pipe and fittings)

PIPE SIZE	VALVE	CROSS	TEE *	ELBOW	RT. X FLG ADAPTER	FIRE HYDRANT AND BURY	EACH 36" OF SPOOL LENGTH
4"	1.2	1.5	1.2	1	0.5	-	1
6"	1.8	2.3	1.8	1.5	0.5	3	1.5
8"	2.4	3	2.4	2	0.5	-	N
10"	3	3.8	3	2.5	0.5	-	2.5
12"	3.6	4.5	3.6	3	0.5	-	3
14"	4.2	5.3	4.2	3.5	0.5	-	3.5
16"	4.8	6.0	4.8	4.0	0.5	-	4.0

* Base Weight Required on Largest Outlet

NOTES:

- 1. Bare anode weight per installation shall be 30lbs minimum
- 2. Table 1 indicates the anode weight (lbs) for pipe and fittings
- 3. Weight of Anode shall be rounder UP in 5lb increments

Anode Weight Example 'A'

A configuration contains: 4 -- 12" valves = 14.4lbs (4 x 3.6lbs)

3 -- 12" tee's = 10.8lbs (3 x 3.6lbs)

1 -- 12" cross = 4.5lbs (1 x 4.5lbs)

2 -- 12" elbows = 6.0lbs (2 x 3lbs)

TOTAL 35.7LBS

Example 'A' indicates that the minimum weight of the anode shall be 40lbs

Anode Weight Example 'B'

A configuration contains: 2 -- 6" valves = 3.6lbs (2 x 1.8lbs)

1 -- 6" tee = 1.8lbs (1 x 1.8lbs)

2 -- 6" elbows = 3.0lbs (2 x 1.5lbs)

TOTAL 8.4LBS

Example 'B' indicates that the minimum weight of the anode shall be 30lbs

FOR NOTES SEE CATHODIC PROTECTION SHEET 1

CITY/DISTRICT ENGINEER

FOR NOTES SEE CATHODIC PROTECTION SI	IEEI I			
ESTERO MUNICIPAL IMPROVEMEN				
CITY OF FOSTER CITY, CALIFO				
WATER		Rev	Date	Description
******		DWN:		Dwg No. Water 28
CATHODIC PROTECTION A	NODE SIZE	СНК		Sheet 5 of 5
APPROVED:	APPROVED:			Scale: None

DEPARTMENT SUPERVISOR

Date: