

FIRE METERS - OS & Y VALVES, GASKETS & METER (NEPTUNE MACH 10 Ultrasonic Meter)									
SIZE	VALVES (2)	GASKETS (4)	METER w/ Strainer	TOTAL LENGTH					
3" w/ 4" X 3" Reducer **	16"	1/2"	30" **	46 1/2"					
4"	18"	1/2"	27 1/2"	46"					
6"	21"	1/2"	33"	54 1/2"					
8"	23"	1/2"	30"	53 1/2"					
10"	26"	1/2"	41"	67 1/2"					
FIRE &/or Domestic Water SERVICE METERS - TEES, OS & Y VALVES, GASKETS & METERS (NEPTUNE MACH 10 Ultrasonic Meter)									
SIZE	TEES (2)	VALVES (2)	GASKETS (6)	Strainer	METER w/	TOTAL LENGTH			
3" w/ 4" X 3" Reducer **	3" X 3" - 22"	16"	3/4"	30" **	68 3/4"				
4"	4" X 3" - 26"	18"	3/4"	27 1/2"	72 1/4"				
6"	6" X 4" - 32"	21"	3/4"	33"	86 3/4"				
8"	8" X 4" - 36"	23"	3/4"	30"	89 3/4"				
10"	10" X 6" - 44"	26"	3/4"	41"	111 3/4"				
*All fittings, valves and meters are flanged & all dimensions are from face of flange to face of flange.									
NOTE: PLEASE NOTE THAT WATER METERS 3" AND LARGER ARE SUBJECT TO AN APPROXIMATE ORDER LEAD TIME OF 60 TO 75 BUSINESS DAYS AFTER FULL PAYMENT. PLEASE CONTACT CUSTOMER SERVICE AT 954-786-4637 TO ARRANGE FOR METER PROCUREMENT AND INSTALLATION. LARGE METERS MUST BE AT MINIMUM ORDERED PRIOR TO INITIAL INSPECTIONS.									

ENGINEERING STANDARDS 2022			
REVISIONS	ENGINEERING DIVISION		METER INSTALL DIMENSION LIST
BY DATE	CITY OF POMPAÑO BEACH		
T.W. 02-2008			DATE: JAN. 2022
S.S. 11-2016			DWG. NO.
A.S. 01-2022	SCALE: N.T.S.		106-4

PLAN

18" MIN. 42.5"
2'-5"

WATER MAIN

A

B

C

D

BLUE PVC CASING

BALL VALVE CURB STOP
FORD B43-342W, 3/4"
FORD B43-444W, 1"

PROPERTY LINE

METER BOX
(BY CITY ONLY DURING
CITY INSTALLATION)

3' MIN.

PROPERTY LINE

••ALL WATER METERS ARE INSTALLED
PERPENDICULAR TO WATER MAIN.

BALL VALVE CURB STOP
FORD B43-342W, 3/4"
FORD B43-444W, 1"

PROPERTY LINE

SIDEWALK

METER BOX
(BY CITY ONLY DURING
CITY INSTALLATION)

BLUE STAKE

3' MIN.

CLOSE OPENING WITH
SOLID BRASS PLUG
ROLL-UP SERVICE LINE
NO 90° BENDS.

BLUE PVC CASING

SECTION

FINISHED GRADE

COVER

2'-6" MIN.

COVER

3' MIN.

26°

WATER MAIN

A

B

C

D

SINGLE SERVICE

DOUBLE SERVICE

A 1" TAPPING SADDLE CC THREAD
FORD

A 1" TAPPING SADDLE (2)
FORD FC-202 OR EQUAL

B 1" CORPORATION STOP
FORD TYPE F1000-4 NL THREADS

B 1" CORPORATION STOP (2)
FORD TYPE F1000

C 1" POLYETHYLENE SOLID BLUE CTS
SDR 18 (200 PSI)

C 1" POLYETHYLENE SOLID BLUE C.T.S. (2)

D 1 1/2" SCH. 40 FOR 1" SERVICE
2 1/2" SCH. 40 FOR 2" SERVICE
PAINTED BLUE

D 2 1/2" SCH. 40 FOR 1" SERVICE
6" SCH. 40 FOR 2" SERVICE
PAINTED BLUE

TYPICAL 3/4" AND 1" WATER SERVICE

ENGINEERING STANDARDS 2022			
REVISIONS	ENGINEERING DIVISION		TYPICAL 1" WATER SERVICE
BY DATE	CITY OF POMPAÑO BEACH		
T.W. 11-2007			DATE: MAY 2022
S.S. 05-2012			DWG. NO.
S.S. 11-2015	SCALE: N.T.S.		107-1
A.S. 08-2021			

Diagram illustrating the PLAN view of a typical 1 1/2" and 2" water service connection. The diagram shows a WATER MAIN on the left, connected to a BALL VALVE CURB STOP FORD BF43-777W-NL, 2". The connection is made using a BLUE PVC CASING. The diagram includes labels for PROPERTY LINE, METER BOX (BY CITY ONLY DURING CITY INSTALLATION), and a 3' MIN. distance. The connection is labeled with callouts A through F.

PLAN

**** ALL WATER METERS ARE INSTALLED PERPENDICULAR TO WATER MAIN.**

**BALL VALVE CURB STOP
FORD BF43-777W-NL, 1 1/2" AND 2"**

Diagram illustrating the SECTION view of a typical 1 1/2" and 2" water service connection. The diagram shows a WATER MAIN on the left, connected to a BALL VALVE CURB STOP FORD BF43-777W-NL, 1 1/2" AND 2". The connection is made using a BLUE PVC CASING. The diagram includes labels for FINISHED GRADE, SIDEWALK, PROPERTY LINE, METER BOX (BY CITY ONLY DURING CITY INSTALLATION), BLUE STAKE, 3' MIN. distance, CLOSE OPENING WITH SOLID BRASS PLUG, and ROLL-UP SERVICE LINE NO 90° BENDS. The connection is labeled with callouts A through F.

SECTION

- (A)** 2" TAPPING SADDLE IRON PIPE
THREADED FORD FC-202 OR EQUAL.
- (B)** 2" RESILIENT SEATED GATE VALVE
CLOW FB1-03
MUELLER A-23-60-B
2" OPERATING NUT BOXED TO GRADE - C.I. BOX
- (C)** 2" POLYETHYLENE BLUE
- (D)** 2 1/2" SCH. 40
- (E)** 2" X 3" BRASS NIPPLE
- (F)** 2" MIP COUPLING C-84-77 - PACK JOINT - CTS

TYPICAL 1 1/2" AND 2" WATER SERVICE

ENGINEERING STANDARDS 2022			
REVISIONS	ENGINEERING DIVISION		TYPICAL 2" WATER SERVICE
BY DATE	CITY OF POMPAÑO BEACH		
S.S. 05-2011			DATE: APRIL 2022
S.S. 05-2012			DWG. NO.
S.S. 11-2018	SCALE: N.T.S.		107-2
A.S. 08-2021			

NOTES: WHERE CONDITIONS PERMIT, PIPE DEFLECTION MAY BE USED INSTEAD OF BENDS TO OBTAIN THE MINIMUM CLEARANCE. FACTORY OFFSETS MAY BE USED.	
TYPICAL CONFLICT DETAIL	
USE MEGALUGS AT ALL PIPE JOINTS	
ALL D.I.P. TO BE PAINTED BLUE ON TOP HALF OF PIPE.	

ENGINEERING STANDARDS 2022			
REVISIONS	ENGINEERING DIVISION		TYPICAL CONFLICT (WATER)
BY DATE	CITY OF POMPAÑO BEACH		
S.S. 04-2005			DATE: MAY 2022
S.S. 01-2012			DWG. NO.
	SCALE: N.T.S.		108-1

NOTES

HYDRANT GUARDS TO BE 6" DIAMETER GALVANIZED STEEL PIPE PAINTED YELLOW FILLED WITH CONCRETE. OMIT GUARDS IN LOCATIONS WHERE SIDEWALKS EXIST.

**USE 2-3/4" S.S. TIE RODS WHEN DISTANCE BETWEEN MAIN AND HYDRANT < 10'. TIE RODS WILL BE USED W/RESTRAINED JOINTS OR USE MEGALUGS AT ALL PIPE JOINTS

HYDRANTS INSTALLED ON EXISTING WATER MAINS MUST USE A MUELLER MJ DI TAPPING SLEEVE, H-615 OR APPROVED EQUAL.

HYDRANTS CONNECTED TO NEW MAINS SHALL BE CONNECTED USING A HYDRANT TEE.

ALL POMPAÑO BEACH HYDRANTS SHALL BE PAINTED RED.

TYPICAL FIRE HYDRANT ASSEMBLY

ENGINEERING STANDARDS 2022

ENGINEERING DIVISION
CITY OF POMPAÑO BEACH

FIRE HYDRANT ASSEMBLY

REVISIONS

BY	DATE
T.W.	11-2007
T.W.	10-2010
S.S.	2-2012
S.S.	11-2012

SCALE: N.T.S.

DATE: MAY 2022
DWG. NO.

109-1

RESTRAINED VALVE AT TEE (BRANCH)

RESTRAINED VALVE AT TEE (IN LINE)

USE MEGALUGS AT ALL PIPE JOINTS

ALL D.I.P. TO BE PAINTED BLUE
ON THE TOP HALF OF PIPE.

ENGINEERING STANDARDS 2022

REVISIONS	
BY	DATE
S.S.	JUNE 2009

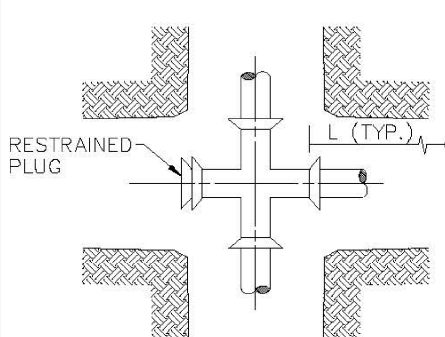
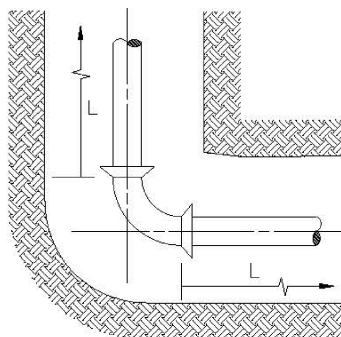
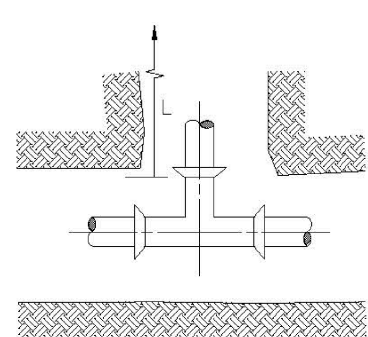
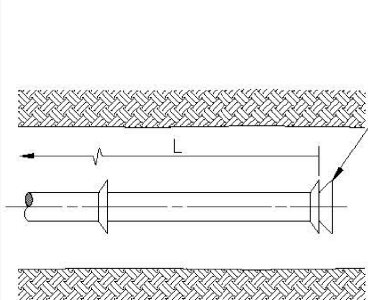
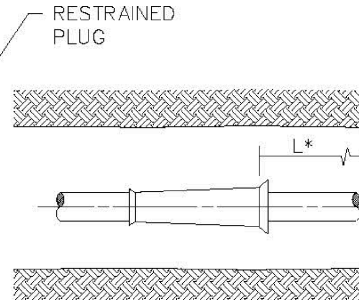
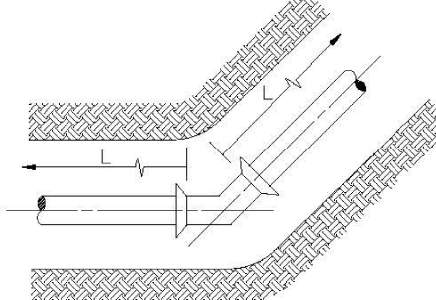
ENGINEERING DIVISION
CITY OF POMPAÑO BEACH

SCALE: N.T.S.

RESTRAINED VALVE AT TEE

DATE: MAY 2022
DWG. NO.

111-1

					
CROSS WITH PLUG		90° BEND		TEE/WYE	
					
DEAD END		REDUCER		45° BEND & SMALLER	
• SEE NOTE 2					
<u>GENERAL NOTES:</u>					
1. VALUES IN TABLE ARE BASED ON 3' OF COVER, 100 PSI INTERNAL PRESSURE, FOR FORCE MAINS, 150 PSI REUSE WATER LINES, ANSI/AWWA C605 & C150/A21.50 LAYING CONDITION 3, ASTM D2487 SAND-SILT SP. SOIL TYPE, AND SAFETY FACTOR OF 2.0. RESTRAINED LENGTHS WERE COMPUTED PER DIPRA "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AND "PVC PIPE THRUST RESTRAINT DESIGN HANDBOOK," EBAA IRON, INC.					
2. CONFIRM THE EXACT LENGTH OF RESTRAINING REQUIRED FOR REDUCERS, PIPE ENCASED IN POLYETHYLENE AND ENCROACHING RESTRAINED LENGTHS WITH THE DESIGN ENGINEER.					
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPER INSTALLATION OF THE RESTRAINED JOINTS TO PREVENT MOVEMENT OF THE PIPE & FITTINGS.					
4. IN THE EVENT OF A CONFLICT BETWEEN RESTRAINED LENGTHS SHOWN ON THE TABLE AND RESTRAINED LENGTHS SHOWN ON THE DRAWINGS, THE LONGEST RESTRAINED LENGTH SHALL BE USED.					
<u>RESTRAINED JOINT INFORMATION</u>					
ENGINEERING STANDARDS 2022					
REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH			
BY	DATE				
		RESTRAINED JOINT INFORMATION			
		DATE: MAY 2022			
		DWG. NO.			
SCALE: N.T.S.		118-1			