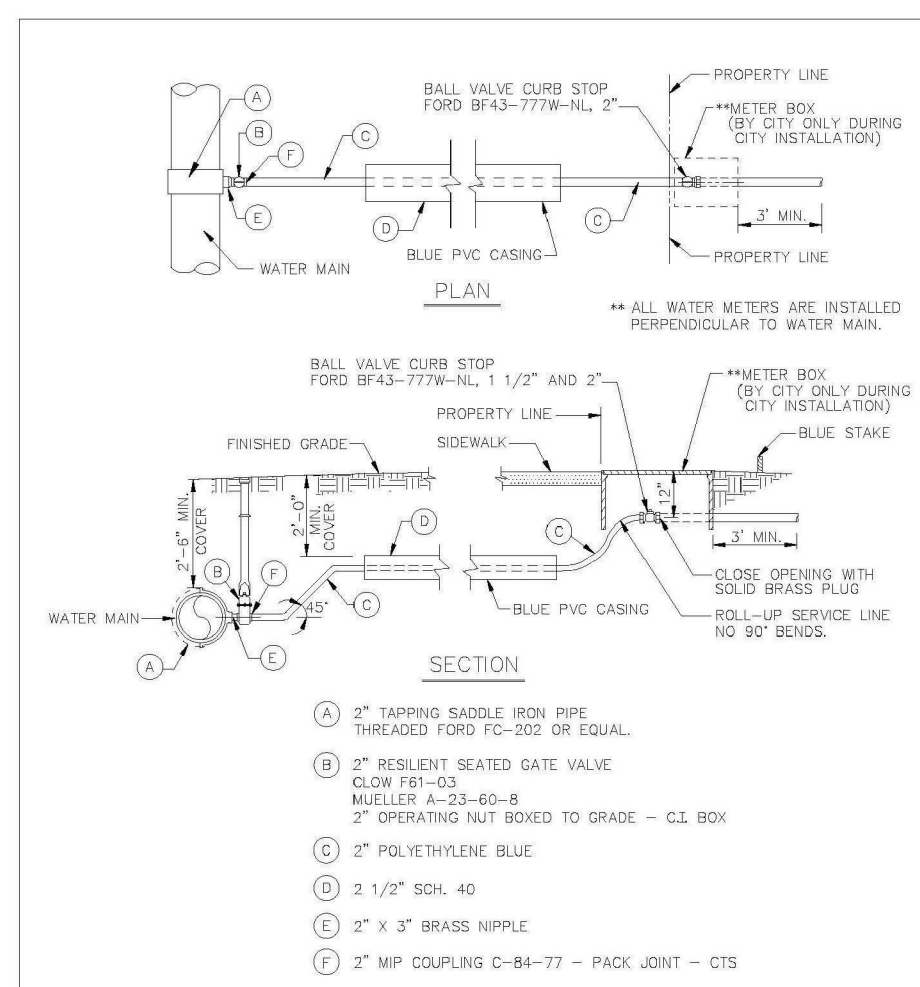
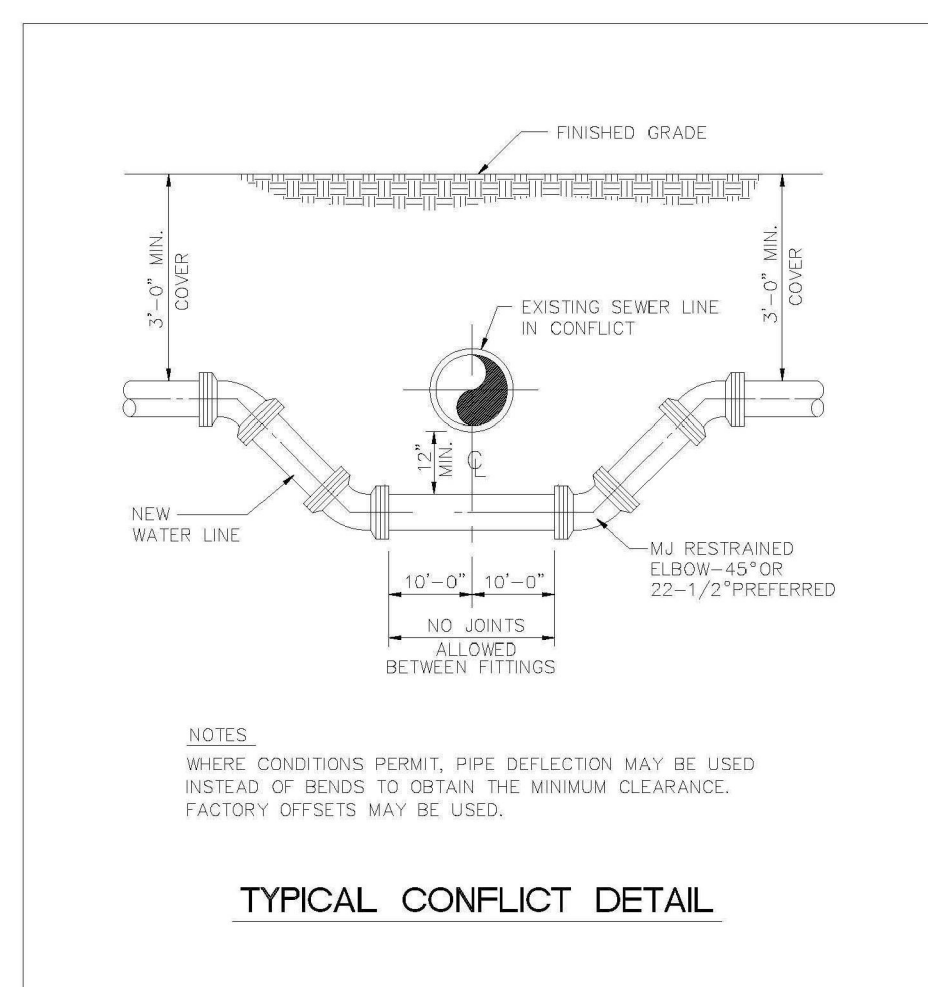


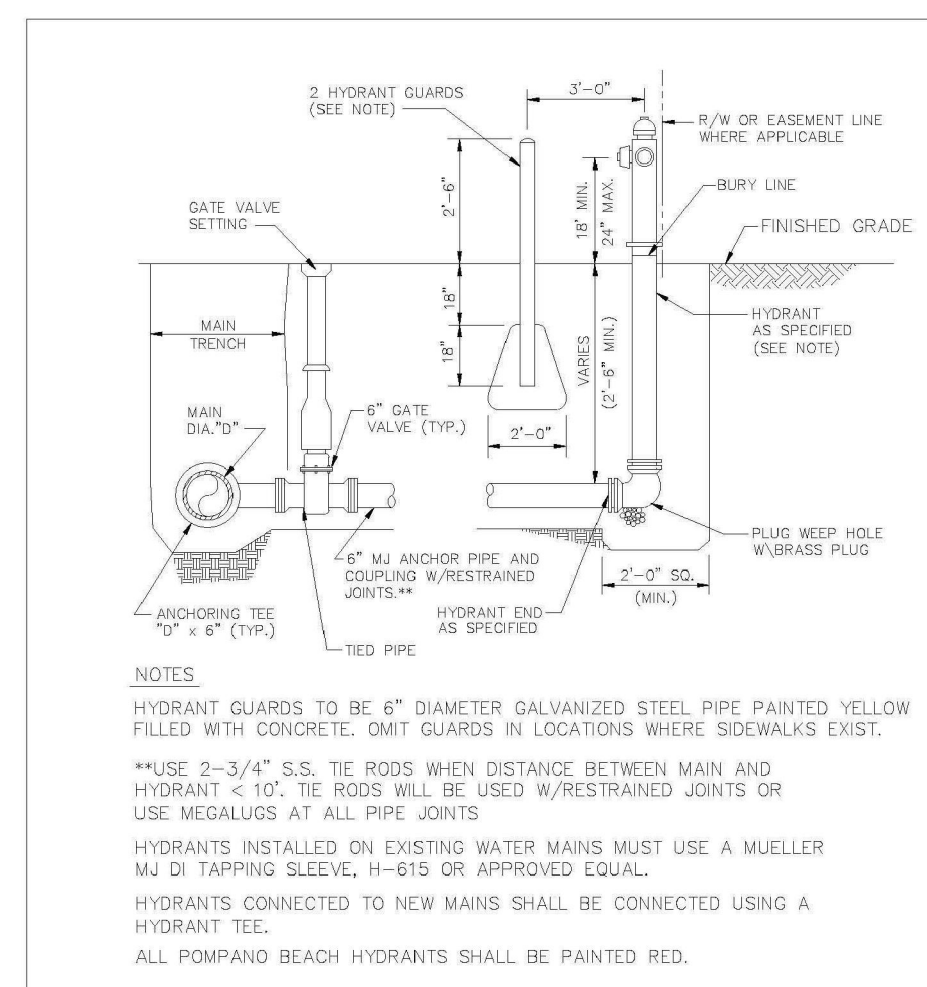
ENGINEERING STANDARDS 2022			
REVISIONS BY DATE T.W. 11-2007 S.S. 05-2012 S.S. 11-2015 A.S. 08-2021		ENGINEERING DIVISION CITY OF POMPANO BEACH	TYPICAL 1' WATER SERVICE DATE: MAY 2022 DWG. NO. <div style="text-align: right;">107-1</div>
		SCALE: N.T.S.	



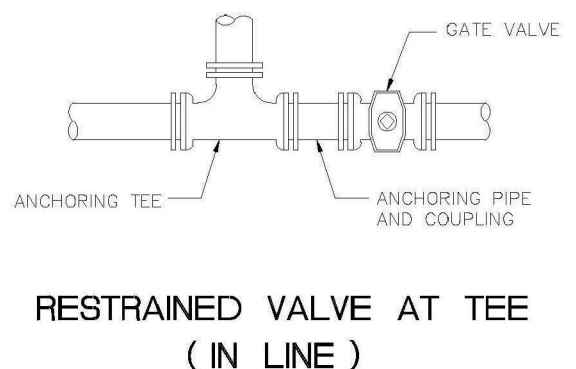
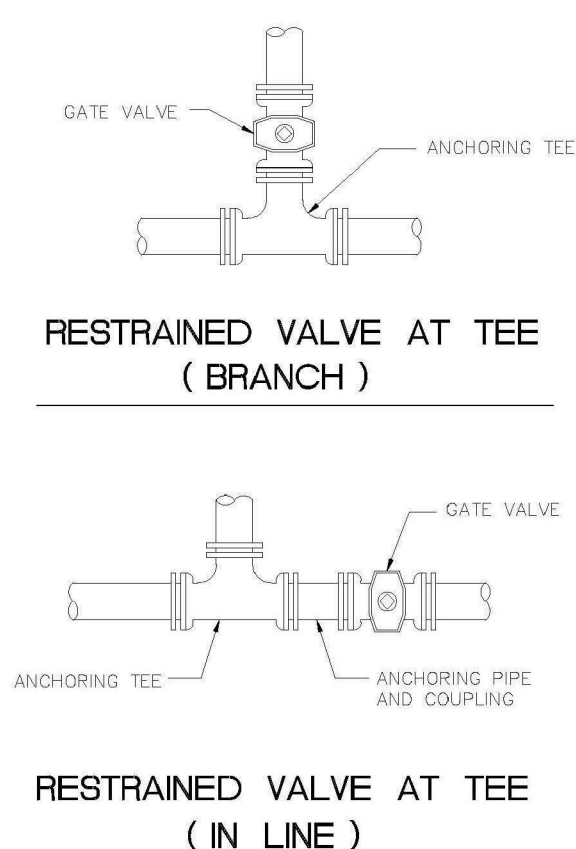
ENGINEERING STANDARDS 2022			
REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	TYPICAL 2' WATER SERVICE
BY	DATE		
S.S.	05-2011		
S.S.	05-2012		
S.S.	11-2016		
A.S.	08-2021		
SCALE: N.T.S.		DATE: APRIL 2022 DWG. NO. 107-2	



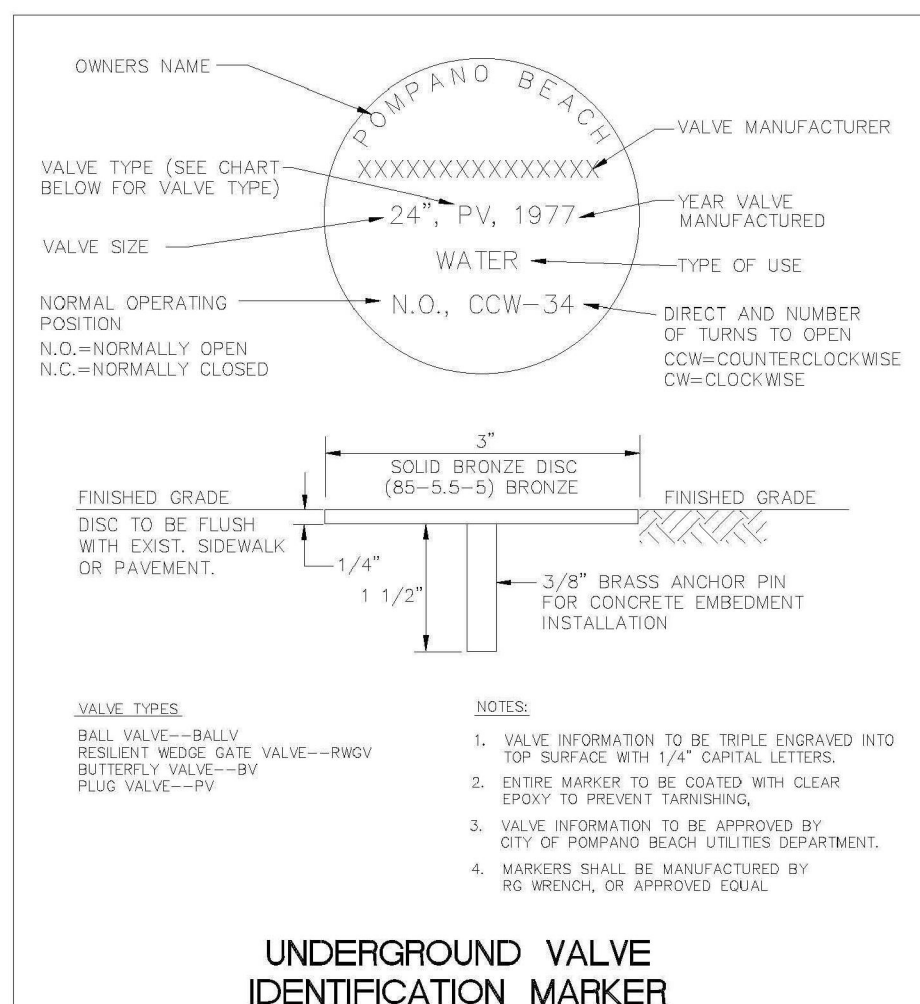
ENGINEERING STANDARDS 2022		
REVISIONS BY DATE S.S. 04-2005 S.S. 01-2012		ENGINEERING DIVISION CITY OF POMPANO BEACH
		TYPICAL CONFLICT (WATER) <div style="display: flex; justify-content: space-between;"> <div>SCALE: N.T.S.</div> <div> DATE: MAY 2022 DWG. NO. 108-1 </div> </div>



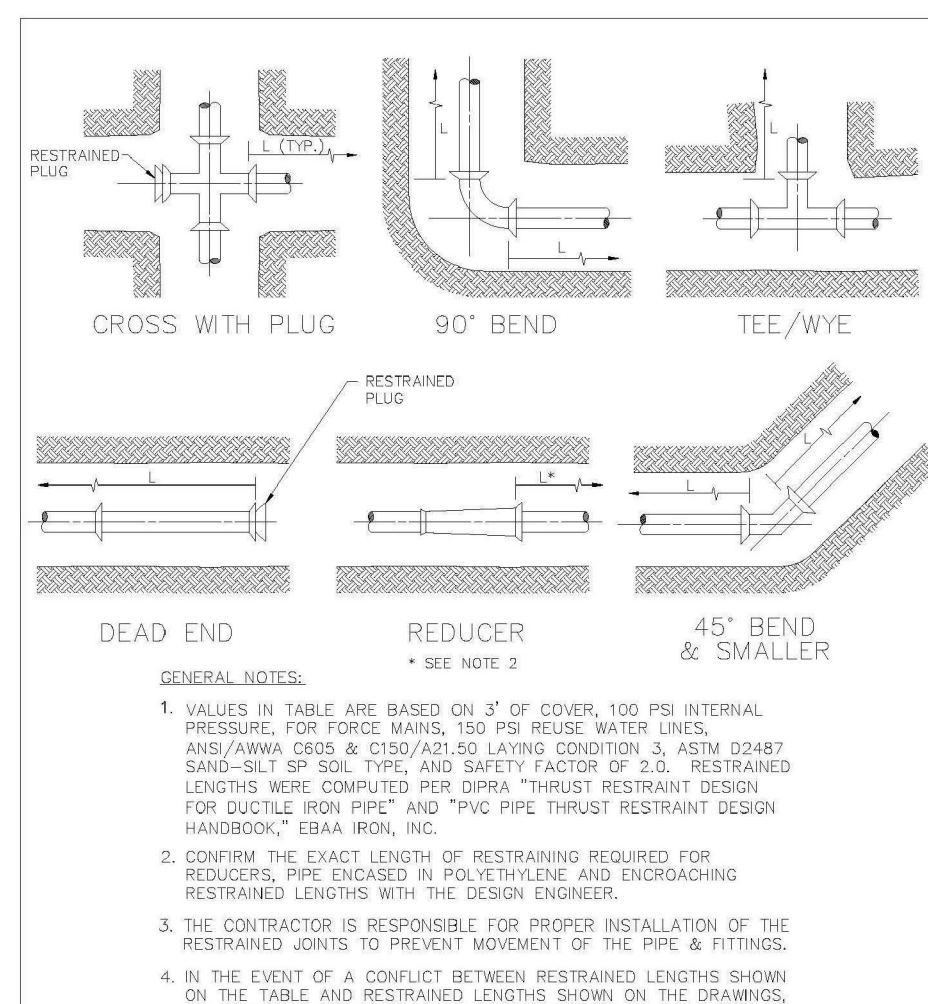
ENGINEERING STANDARDS 2022			
REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	FIRE HYDRANT ASSEMBLY
BY	DATE		
T.W.	11-2007		
T.W.	10-2010		
S.S.	2-2012		
S.S.	11-2015	SCALE: N.T.S.	DATE: MAY 2022 DWG. NO. 109-1



ENGINEERING STANDARDS 2022			
REVISIONS		ENGINEERING DIVISION CITY OF POMPANO BEACH	RESTRAINED VALVE AT TEE
BY	DATE		
S.S.	JUNE 2009		
SCALE: N.T.S.		DATE: MAY 2022 DWG. NO. 11-I	



ENGINEERING STANDARDS 2022		
REVISIONS BY DATE S.S. JUNE 2005 T.W. 11-00-07 T.W. 02-00-08 S.S. 1-24-12		UNDERGROUND VALVE IDENTIFICATION MARKER DATE: FEB. 2002 DWG. NO. 115-1
ENGINEERING DIVISION CITY OF POMPAÑO BEACH		
SCALE: N.T.S.		



ENGINEERING STANDARDS 2022			
REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	RESTRAINED JOINT INFORMATION
BY	DATE		
SCALE: N.T.S.		DATE: MAY 2022 DWG. NO.	118-1

PVC HORIZONTAL BENDS AND VERTICAL UP BENDS						
PIPE SIZ. (IN.)	RESTRAINED JOINT LENGTH L		(MINIMUM DISTANCE IN FEET FROM FITTING EACH WAY)		ORDER WITH PIPE BENDS	
	BENDS					
	90°	45°	22.5°	11.25°		
6	26	11	6	3	53	
8	33	14	7	4	68	
12	46	19	10	5	96	

PVC VERTICAL DOWN BEND						
PIPE SIZ. (IN.)	RESTRAINED JOINT LENGTH L		(MINIMUM DISTANCE IN FEET FROM FITTING EACH WAY)		ORDER WITH PIPE BENDS	
	BENDS					
	90°	45°	22.5°	11.25°		
6	26	11	6	3		
8	33	14	7	4		
12	46	19	10	5		

DIP HORIZONTAL BENDS AND VERTICAL UP BENDS						
PIPE SIZ. (IN.)	RESTRAINED JOINT LENGTH L		(MINIMUM DISTANCE IN FEET FROM FITTING EACH WAY)		ORDER WITH PIPE BENDS	
	BENDS					
	90°	45°	22.5°	11.25°		
6	26	11	6	3	144	
8	33	14	7	4		
24"	119	49	24	12	258	

DIP VERTICAL DOWN BEND						
PIPE SIZ. (IN.)	RESTRAINED JOINT LENGTH L		(MINIMUM DISTANCE IN FEET FROM FITTING EACH WAY)		ORDER WITH PIPE BENDS	
	BENDS					
	90°	45°	22.5°	11.25°		
12"	144	60	29	14		
24"	258	107	51	25		

ENGINEERING STANDARDS 2022		
REVISIONS		ENGINEERING DIVISION CITY OF POMPANO BEACH RESTRAINED JOINT INFORMATION
BY	DATE	
SCALE: N.T.S.		DATE: MAY 2022 DWS. NO. 118-2

[illegible]