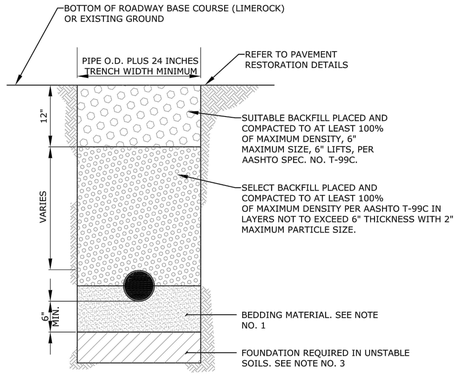
BROWARD COUNTY
PUBLIC WORKS DEPARTMENT

WATER & WASTEWATER SERVICES
ENGINEERING DIVISION
2555 WEST COPANS ROAD
POMPANO BEACH, FL 33069
PHONE NO. 954-831-0745
FAX: 954-831-0925

STANDARD DETAIL



NOTES:

1. UNLESS OTHERWISE SPECIFIED, BEDDING MATERIAL SHALL CONSIST OF SELECT BACKFILL MATERIAL 2" MAXIMUM PARTICLE SIZE, COMPACTED TO AT LEAST 100% OF MAX. DENSITY, 6" LIFTS, PER AASHTO SPEC. NO. T-99C.
2. WHERE REQUIRED, SHEETING AND SHORING SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.
3. WHERE UNSTABLE SOILS ARE ENCOUNTERED, INCLUDING PEAT, MUCK OR OTHER ORGANIC SOILS, ELASTIC SILT AND CLAYS, A FOUNDATION IS REQUIRED AS DETERMINED BY THE ENGINEER OF RECORD.

REVISED	TYPICAL TRENCH BACKFILL	FIGURE 180
7/7/2021		

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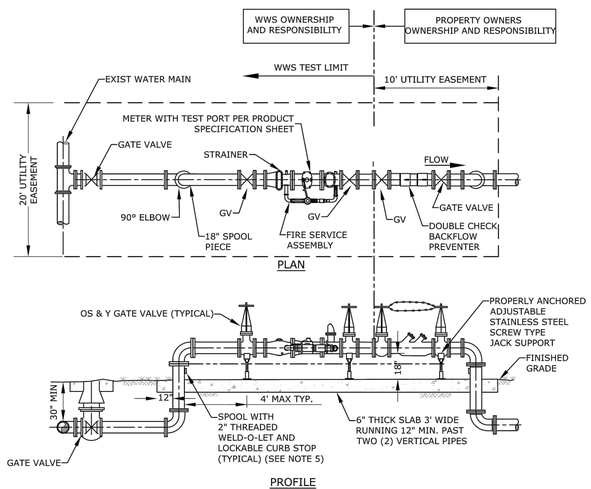

1. THE DOUBLE CHECK VALVE SHALL BE PRIVATELY OWNED BY THE PROPERTY OWNER.
2. EASEMENT SHALL BE PROVIDED IN ACCORDANCE WITH WWS MINIMUM REQUIREMENTS.
3. ALL ABOVE-GROUND PIPE SHALL BE FLANGED, DI (DUCTILE IRON) TYPE.
4. ALL PIPE LEADING FROM WATER MAIN TO FLANGED PIPING SHALL BE D.I. PIPE, RESTRAINED JOINTS.
5. ALL ABOVE-GROUND PIPING, FITTINGS, GATE VALVES AND CHECK VALVES AND THE METER ASSEMBLY SHALL BE PAINTED WITH POLYURETHANE COATING (BLUE).

COMBINED DOMESTIC WATER SERVICE AND FIRE PROTECTION

REVISED	TYPE 2 PRIVATE FIRE PROTECTION 4", 6" AND 8" DIAMETER CONNECTION	FIGURE 236
7/7/2021		

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WATER MAIN SEPARATION IN ACCORDANCE WITH F.A.C. RULE 62-555.314

	JOINT SPACING @ CROSSINGS (FULL JOINT CENTERED)	CROSSINGS (1) (4)	HORIZONTAL SEPARATION	OTHER PIPE
	Alternate 3 ft. minimum	Water Main — 12 inches is the minimum, except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	Water Main — 3 ft. minimum	STORM SEWER, STORM SEWER FORCE MAIN, RECLAIMED WATER (2)
	Alternate 3 ft. minimum	Water Main — 12 inches preferred 6 inches min	Water Main — 10 ft. preferred 3 ft. minimum	VACUUM SANITARY SEWER
	Alternate 6 ft. minimum	Water Main — 12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred	Water Main — 10 ft. preferred 6 ft. minimum	GRAVITY SANITARY SEWER,(3) SANITARY SEWER FORCE MAIN, RECLAIMED WATER
	—	—	10 ft. minimum	ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM

(1) WATER MAIN SHOULD CROSS ABOVE OTHER PIPE, WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
(2) RECLAIMED WATER SEPARATION SHALL BE IN ACCORDANCE WITH F.A.C.
(3) 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
(4) 18" VERTICAL MINIMUM SEPARATION REQUIRED BY WWS, UNLESS OTHERWISE APPROVED.

REVISED	WATER MAIN SEPARATION	FIGURE 105
7/7/2021		

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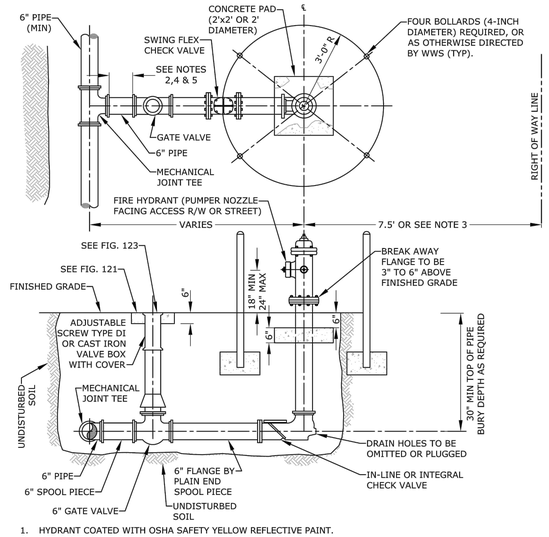

1. HYDRANT COATED WITH OSHA SAFETY YELLOW REFLECTIVE PAINT.
2. USE RESTRAINED JOINTS FOR THE ENTIRE ASSEMBLY SHOWN.
3. HYDRANT SET BACK SHALL CONFORM TO FDOT AND BCHCED REQUIREMENTS, WHERE APPLICABLE.
4. GATE VALVE IS NORMALLY LOCATED NEXT TO TEE.
5. IF DISTANCE FROM MAIN LINE TO FIRE HYDRANT IS GREATER THAN 20 FEET ANOTHER GATE VALVE WILL BE PROVIDED CLOSE TO THE HYDRANT. THIS SECOND VALVE SHALL BE INSTALLED WITHIN 5' OF THE FIRE HYDRANT. CHECK VALVE SHALL BE WITHIN 3' OF FIRE HYDRANT UNLESS CHECK VALVE INTEGRAL TO HYDRANT ASSEMBLY.
6. HYDRANT FEED PIPE MAY BE TAPPED FOR A SERVICE LINE UPSTREAM OF THE ISOLATION GATE VALVE.
7. A BLUE RAISED REFLECTIVE PAVEMENT MARKER SHALL BE PLACED AT THE CENTER LINE OF THE OUTSIDE ROADWAY LANE TO IDENTIFY THE FIRE HYDRANT LOCATION.

REVISED	FIRE HYDRANT INSTALLATION	FIGURE 231
7/7/2021		

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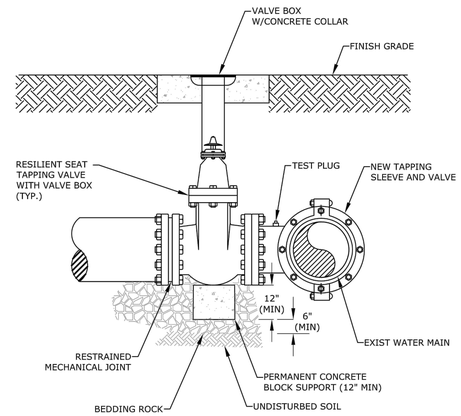

NOTES:

1. REFER TO WWS MINIMUM DESIGN AND CONSTRUCTION STANDARDS FOR MINIMUM REQUIREMENTS AND PRE-APPROVED MANUFACTURERS.
2. MAIN SHALL BE CLEANED BEFORE ATTACHING SLEEVE
3. SLEEVE AND VALVE SHALL BE PRESSURE TESTED BEFORE MAKING TAP. PRESSURE TEST AND TAP SHALL BE MADE IN PRESENCE OF AN AUTHORIZED COUNTY REPRESENTATIVE.
4. TAP SHALL BE MADE NO CLOSER THAN 18" FROM THE NEAREST JOINT.
5. CONCRETE BLOCK SHALL COMPLETELY SUPPORT TAPPING VALVE.
6. RESTRAINT JOINT REQUIREMENTS SHALL BE IN ACCORDANCE WITH WWS MINIMUM DESIGN AND CONSTRUCTION STANDARDS.

REVISED	TAPPING SLEEVE AND VALVE INSTALLATION	FIGURE 196
7/7/2021		

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REVISIONS

NO.	DESCRIPTION	DATE

PRELIMINARY PLAN NOT FOR CONSTRUCTION

THESE PLANS ARE NOT FULLY PERMITTED AND ARE SUBJECT TO REVISIONS MADE DURING THE PERMITTING PROCESS.

RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USER.

ISSUE DATE:	09/15/22
DESIGNED BY:	JW
DRAWN BY:	NW/SS/FA
CHECKED BY:	TD
BID-CONTRACT:	

This item has been digitally signed and sealed by Thomas F. Donahue, P.E. on the date below using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

2022.11.17 11:00:10-05'00'

THOMAS F. DONAHUE LICENSE No. 60529 STATE OF FLORIDA PROFESSIONAL ENGINEER

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

CLIENT

FIRST INDUSTRIAL REALITY TRUST

PROJECT

2551 NW 19TH ST
POMPANO BEACH, FL 33069

SHEET TITLE

WATER AND SEWER DETAILS

SHEET NUMBER: CU 501

PROJECT NUMBER: 1290.04

STATUS: PRELIMINARY

DRC
PZ22-12000042
12/21/2022