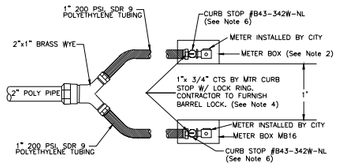
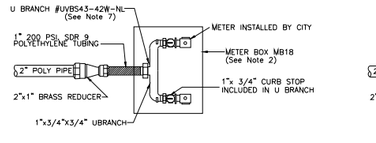
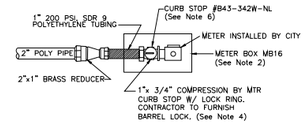


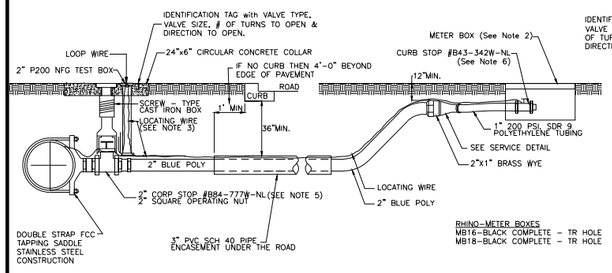
1. DOUBLE SERVICE PLAN



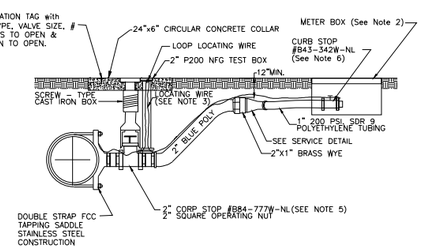
2. DOUBLE SERVICE PLAN WITH U BRANCH



3. SINGLE SERVICE PLAN



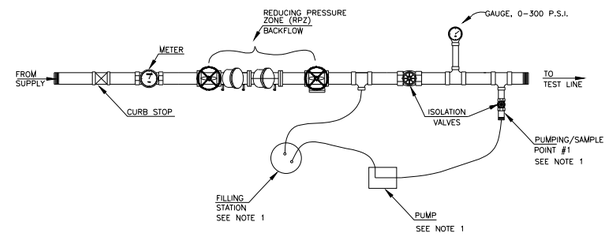
SERVICE REQUIRING ROAD CROSSING



SERVICE NOT REQUIRING ROAD CROSSING

NOTES:

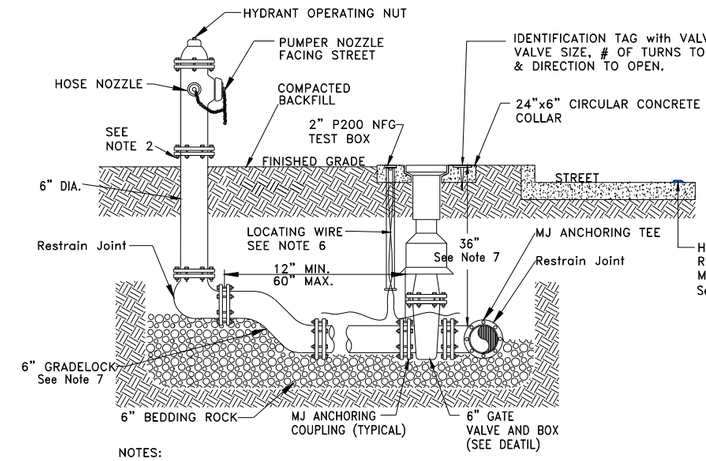
1. STAINLESS STEEL INSERT FOR POLY TUBE (TYP.)
2. METER BOX TO BE SUPPLIED & INSTALLED BY CONTRACTOR TO FINISH GRADE. ALL BOXES MUST BE LOCATED AT PROPERTY CORNER AND WITHIN THE RIGHT-OF-WAY. WHEN TWO BOXES ARE USED FOR SEPARATE PROPERTIES A 1' SEPARATION IS REQUIRED BETWEEN BOXES. BOXES MUST NOT CONFLICT WITH SIDEWALKS OR DRIVEWAYS. THE CITY SHALL DETERMINE SIZE AND TYPE OF METER BOX.
3. A TRACER WIRE SHALL BE A BLUE-COATED #10 COPPER HEAD HIGH STRENGTH (HS) SOLID TRACER AND JOINT SEAL SHALL BE INSTALLED ALONG ALL PIPE AND SERVICE. TRACER WIRE SHALL BE TAPED TO THE PIPE AND STUBBED UP AT ALL HYDRANTS AND VALVES.
4. BARREL LOCKS SHALL BE SUPPLIED AND INSTALLED. WHEN THE PROJECT IS COMPLETE THE CONTRACTOR SHALL DELIVER THE BARREL LOCK'S KEY TO THE CITY'S UTILITIES DEPARTMENT. BARREL LOCK SHALL BE INNER-TITE #E-55001 AND THE KEY FOR THE BARREL LOCK SHALL BE INNER-TITE #E5008. ALSO A BARREL LOCK PLASTIC WEATHER CAP SHALL BE SUPPLIED. THE WEATHER CAP SHALL BE INNER-TITE #E0018R.
5. FOR SERVICE CONNECTION, SHALL BE USE 2" CORP STOP #B84-777W-NL WITH 2" SQUARE OPERATING NUT.
6. FOR METER CONNECTION, SHALL BE USE 1"X ¾" CURB STOP #B43-342W-NL WITH LOCK RING.
7. DETAIL SERVICE #2, FOR NEW DEVELOPMENTS WITH WATER AND REUSE, METERS SHOULD BE CONNECTED WITH U BRANCH #UVBS43-42W-NL IN A DOUBLE METER BOX. THIS DRAWING APPLIES TO ALL AREAS WHERE REUSE IS AVAILABLE.



NOTES:

1. AFTER COMPLETION OF TESTING, FILLING STATION AND PUMP ARE REMOVED. THEN THE PUMPING POINT BECOMES THE SAMPLE POINT #1.

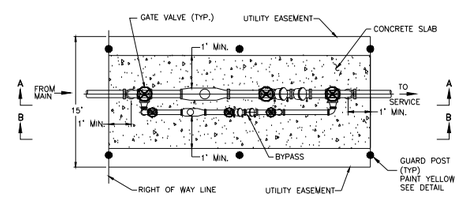
PRESSURE TEST

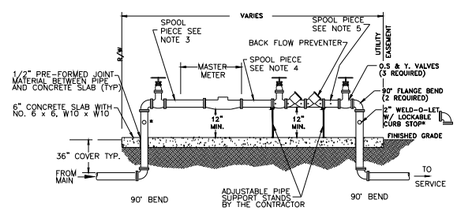


NOTES:

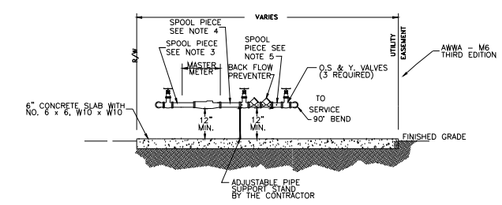
1. FIRE HYDRANT SHALL BE SUPPLIED WITH A WEEP HOLE (DRY BARREL TYPE).
2. CLEARANCE BETWEEN BOTTOM OF BOLTS AND TOP OF GROUND SHALL BE 6". STANDARD BARREL SHALL BE 42".
3. RESTRAINED JOINTS REQUIRED THROUGHOUT FIRE HYDRANT ASSEMBLY.
4. FIRE HYDRANT SHALL HAVE CITY OF LAKE WALES STANDARD FINISH.
5. FIRE HYDRANT MUST BE A AMERICAN DARLING HYDRANT B84B-5, MUELLER SUPER CENTURION A-423 OR KENNEDY K-81 AS NOTED IN CITY SPECIFICATIONS.
6. THE TRACER WIRE SHALL BE A BLUE-COATED #10 COPPER HEAD HIGH STRENGTH (HS) SOLID TRACER AND JOINT SEAL SHALL BE INSTALLED ALONG ALL PIPE AND SERVICE. THE TRACER WIRE SHALL BE TAPED TO THE PIPE AND STUBBED UP AT ALL HYDRANTS AND VALVES.
7. WHEN THE WATER MAIN DEPTH IS GREATER THAN 36" (Top of Pipe) A GRADELOK® FIRE HYDRANT SWING ARM WILL BE REQUIRED.
8. FIRE HYDRANT MUST BE ON THE SAME SIDE WERE MAIN IS LOCATED. TAP FOR HYDRANTS MUST BE ALWAYS ON THE BACK SIDE OF THE MAIN FACING THE PROPERTY WITH STEAMER CAP FACEING THE ROAD.
9. EVERY NEW HYDRANT MUST HAVE A BLUE REFLECTIVE MARKER ON THE CENTER OF THE TRAVEL LANE CLOSES TO THE HYDRANT TO ASSIST FIRST RESPONDERS IN LOCATING FIRE HYDRANTS.

HYDRANT DETAIL





SECTION A-A

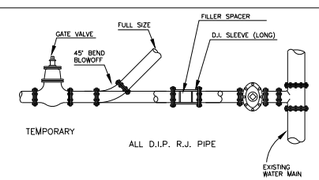


SECTION B-B (BYPASS)

NOTES:

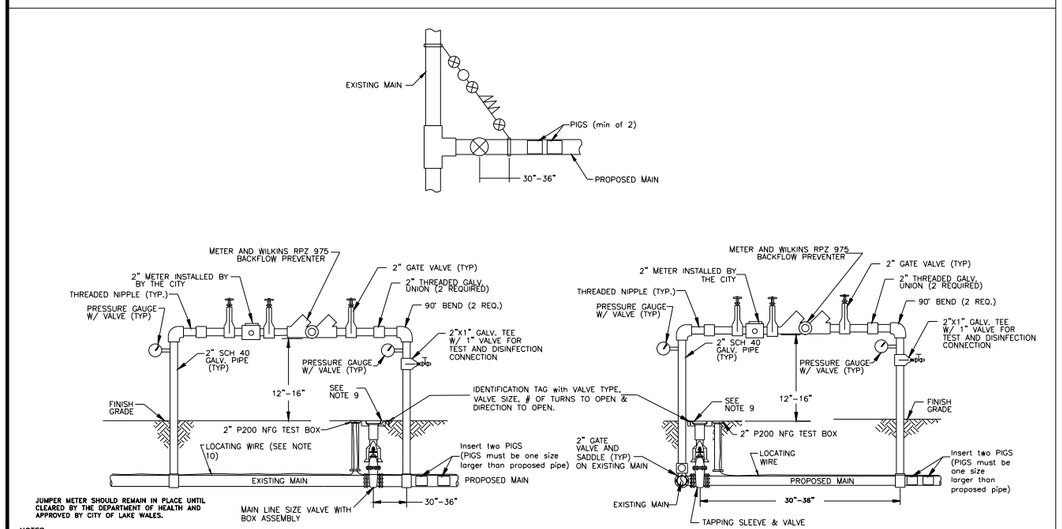
1. ALL PIPE, FITTINGS, APPURTENANCES, METER AND BACKFLOW PREVENTER SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
2. ALL ABOVE GROUND PIPE SHALL BE FLANGE DUCTILE IRON.
3. SPOOL PIECE MINIMUM LENGTH SHALL BE TEN TIMES THE PIPE DIAMETER.
4. SPOOL PIECE MINIMUM LENGTH SHALL BE FIVE TIMES THE PIPE DIAMETER.
5. SPOOL PIECE LENGTH SHALL BE A MINIMUM OF ONE FOOT. ON SPOOL PIECE PLACE A 2" HEAVY DUTY WELD-O-LET NINETY DEGREES FROM THE TOP OF SPOOL PIECE. WELD-O-LET TO BE INSTALLED WITH A LOCKABLE CURB STOP (TEST PORT).
6. MASTER METER SHALL BE SENSUS COMPOUND FLOW METER.
7. METER SHALL BE PAINTED BLUE WHEN COMPLETED EXCEPT FOR BRASS.

MAIN METER ASSEMBLY 4" AND LARGER



FLUSHING CONNECTION AND BLOW OFF DETAIL

RECLAIMED WATER SIGN



NOTES:

1. A TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE WATER SYSTEMS AND PROPOSED NEW WATER SYSTEMS.
2. THIS DETAIL IS TO BE USED FOR FILLING ANY NEW MAIN OF ANY SIZE FROM EXISTING ACTIVE WATER SYSTEMS AND THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER FILLING, PIGGING, TESTING AND DISINFECTION OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND OTHER AGENCIES HAS BEEN RECEIVED. ADEQUATE THRUST RESTRAINTS SHALL BE PROVIDED. PIPE AND FITTINGS USED FOR CONNECTING THE PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651 LATEST EDITION.
3. THE TIE-IN VALVES SHALL BE OPERATED AND PRESSURE TESTED IN THE PRESENCE OF UTILITIES OPERATIONS AND INSPECTION SERVICES TO VERIFY WATER TIGHTNESS PRIOR TO THE TIE-IN. VALVES WHICH ARE NOT WATER TIGHT SHALL BE REPLACED.
4. THE TEMPORARY JUMPER CONNECTION SHALL BE CONSTRUCTED AS DETAILED. THE JUMPER CONNECTION SHALL BE USED TO FILL THE NEW WATER SYSTEM AND FOR PROVIDING WATER FOR BACTERIOLOGICAL SAMPLING OF THE NEW MAIN AS REQUIRED BY THE FDEP PERMIT.
5. AFTER THE NEW LINE IS TIED IN, ONE-TIME FLUSHING MUST BE OBSERVED BY THE CITY INSPECTOR.
6. THE CONTRACTOR WILL REQUEST METER AND BACKFLOW FROM THE CITY; AFTER INSTALLATION THE CONTRACTOR WILL NOTIFY THE CITY AND THE CITY INSPECTOR WILL TEST THE SYSTEM FOR PROPER OPERATION.
7. ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACKFLOW PREVENTION DEVICE FITTINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. WHEN THE CONTRACTOR HAS ESTABLISHED AN ACCOUNT WITH LAKE WALES UTILITIES-CUSTOMER SERVICE, UTILITIES OPERATIONS SHALL PROVIDE THE METER ASSEMBLY TO THE CONTRACTOR.
9. ONCE THE CONSTRUCTION WATER SUPPLY CONNECTION IS MADE THE CITY OF LAKE WALES WILL INSTALL A LOCK ON THE GATE VALVE TO THE MAIN. THIS WILL ALLOW THE VALVE TO REMAIN CLOSED UNTIL END OF PROJECT.
10. A TRACER WIRE SHALL BE A BLUE-COATED #10 COPPER HEAD HIGH STRENGTH (HS) SOLID TRACER AND JOINT SEAL SHALL BE INSTALLED ALONG ALL PIPE AND SERVICE. TRACER WIRE SHALL BE TAPED TO THE PIPE AND STUBBED UP AT ALL HYDRANTS AND VALVES.

CONSTRUCTION WATER SUPPLY CONNECTION DETAIL A

CONSTRUCTION WATER SUPPLY CONNECTION DETAIL B

ISSUE CODE
MODIFIED: ROS 03-26-25
MODIFIED: ROS 04-10-25
MODIFIED: ROS 06-03-25

CITY OF LAKE WALES
201 W CENTRAL AVE. LAKE WALES, FLORIDA 33853

		03-09-22 Revised barrel lock note #4 "Service Detail".
		05-05-22 Revised lock note on Service Details drawings.
		05-18-23 Added Hydrant Details drawing from Fire Line Hydrant Details.
		06-29-23 Change Curb Stop for Corp Stop #B84-777W-NL.
		08-17-23 Changed the verbiage for the pigging swabs; Added the "one size up rule".
		09-05-23 Added note #8 on Hydrant Detail

ISSUE CODE			
A PRELIMINARY	B DESIGN		
C BIDS	D CONSTRUCTION	E APPROVAL	

DESIGN: SCALE: N.T.S.
CHK'D BY: DATE:
DRAWN BY: ENGR. APPR.
DRAWING TITLE
WATER DETAILS
AREA CITY-OF-LAKE-WALES
JOB NO.
SHEET - OF -
REV.