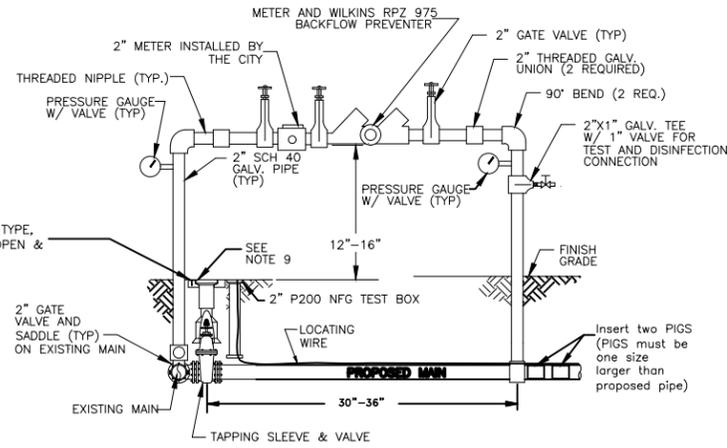
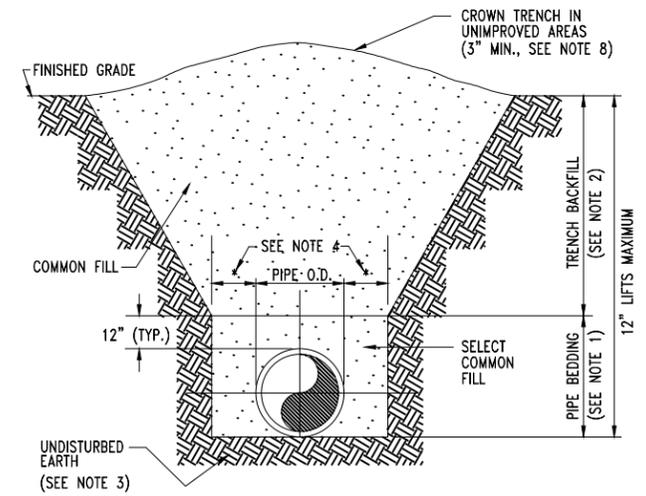


- NOTES:
1. A TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE WATER SYSTEMS AND PROPOSED NEW WATER SYSTEMS.
 2. THIS DETAIL IS TO BE USED FOR FILLING ANY NEW MAIN OF ANY SIZE FROM EXISTING ACTIVE WATER SYSTEMS AND THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER 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.



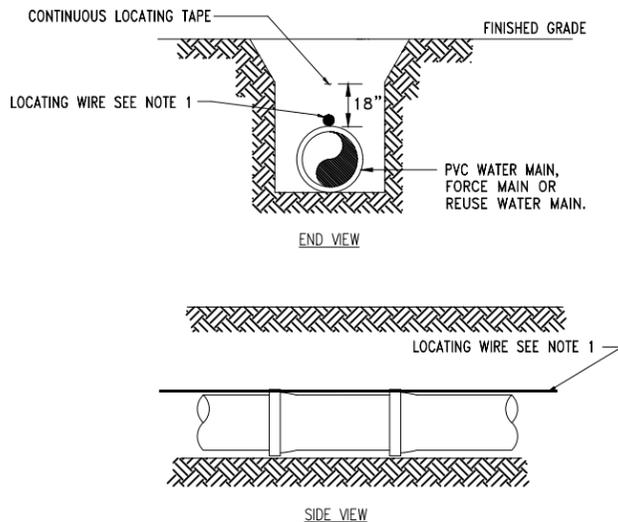
- NOTES:
1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE "A" BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY THE COUNTY.
 4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
 5. TRENCHES MUST BE FREE OF WATER AT ALL TIMES DURING CONSTRUCTION.
 6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF FLOW.
 7. REFER TO THE MANUAL FOR SHEETING AND BRACING EXCAVATIONS.
 8. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN MUNICIPAL RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

NOTE:
INSTALL PERMANENT MARKERS ON BACK OF CURB FOR WATER MAINS, SERVICES, AND HYDRANTS.

CONSTRUCTION WATER SUPPLY CONNECTION DETAIL A

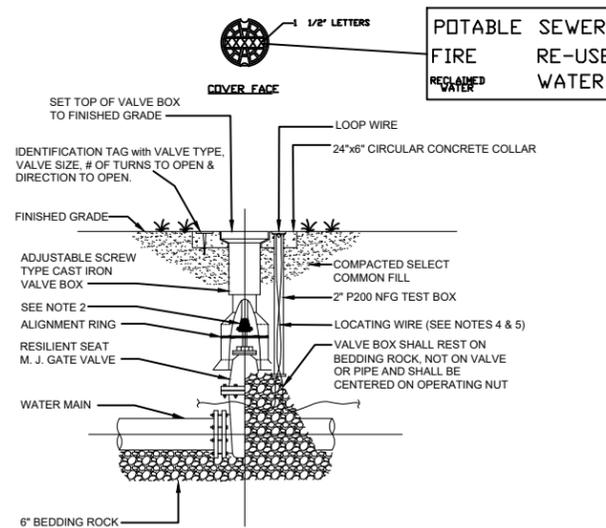
CONSTRUCTION WATER SUPPLY CONNECTION DETAIL B

TYPE B BEDDING AND TRENCHING DETAIL



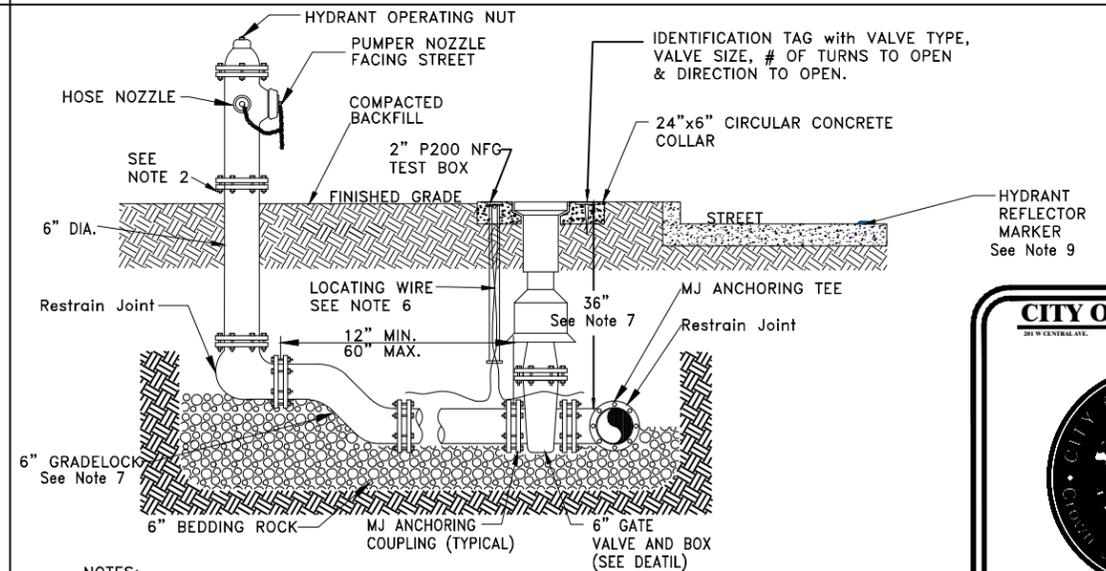
- NOTES:
1. THE TRACER WIRE SHALL BE A BLUE-COATED (WATER), GREEN-COATED (SEWER), OR PURPLE (REUSE) #10 COPPER HEAD HIGH STRENGTH (HS) SOLID TRACER WIRE AND JOINT SEAL SHALL BE INSTALLED ALONG ALL PIPE AND SERVICE. TRACER WIRE SHALL BE TAPED TO THE PIPE AND STUBBED UP AT ALL HYDRANTS AND VALVES.
 2. LOCATING WIRE SHALL TERMINATE AT THE TOP OF EACH TEST BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.
 3. USE DUCT TAPE AS NECESSARY TO HOLD TRACER WIRE DIRECTLY AGAINST THE PIPE.

PVC PIPE LOCATING WIRE DETAIL



- NOTES:
1. 6" DIA. PVC PIPE IS PERMITTED FOR USE AS VALVE BOX EXTENSION.
 2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE 2.5 FEET BELOW FINISHED GRADE. EXTENSIONS SHALL BE PROVIDED AS REQUIRED.
 3. VALVE BOX LIDS SHALL BE ROUND FOR WATER AND REUSE AND MARKED AS SUCH.
 4. A TRACER WIRE SHALL BE A BLUE-COATED (WATER), GREEN COATED (SEWER), OR PURPLE COATED (REUSE) #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.
 5. LOCATING WIRE SHALL TERMINATE AT THE TOP OF EACH TEST BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.
 6. ALL GATE VALVES/MJ FITTINGS, AND BOXES SHALL BE PLACED IN GREEN AREAS, TO PREVENT CONFLICTS WITH SIDEWALKS AND ROADS (ASPHALT).
 7. WE REQUIRE THAT ON ALL INTERSECTIONS, THE WATER LINES SHALL BE RE-ROUTED AWAY FROM THE EXISTING LOCATION TO THE RESPECTED R/W LIMITS, IN SOME CASES IF AT ALL POSSIBLE IN AN EASEMENT TO AVOID CONFLICTS.
 8. THESE DEVIATIONS CHANGES REQUIRE BELL RESTRAINTS, REFER TO UNDERGROUND WORK DETAIL SHEET.

GATE VALVE AND BOX DETAIL



- 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 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 FACING THE ROAD.
 9. EVERY NEW HYDRANT MUST HAVE A BLUE REFLECTIVE MARKER ON THE CENTER OF THE TRAVEL LANE CLOSE TO THE HYDRANT TO ASSIST FIRST RESPONDERS IN LOCATING FIRE HYDRANTS.

ISSUE CODE	BY	DATE
MODIFIED:	MJC	09-06-19
MODIFIED:	RDS	06-17-24
MODIFIED:	RDS	03-26-25

CITY OF LAKE WALES
LAKE WALES, FLORIDA 33853

9-6-19 ADD TEXT FOR VALVE TYPE TO VALVE TAG

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.

WATER SUPPLY LINE AND HYDRANT DETAIL

JOB NO.

AREA	REV.
CITY-OF-LAKE-WALES	