

NOTES:

REFER TO SHEET 2 OF 2 FOR APPLICABLE "NOTES".

- (*) -METER TYPE AND SIZE AS APPROVED BY CITY ENGINEERING/UTILITIES DIVISION BASED UPON HYDRAULIC CALCULATIONS SUBMITTED BY ENGINEER (SEE NOTE 6 AND 11).
- (**) -"UPSTREAM" STRAINER REQUIRED FOR TURBINE METER ONLY.
- (***) -NO SECTIONS OF STRAIGHT PIPE ARE REQUIRED IMMEDIATELY UPSTREAM OR DOWNSTREAM OF AN ULTRASONIC METER.

CITY OF PEMBROKE PINES
ENGINEERING/UTILITIES DIVISION

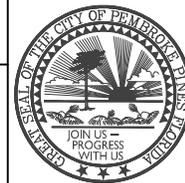
STANDARD WATER
DISTRIBUTION DETAIL

APPROVED: K.M.K.

REVISED:
 12/23/20
 05/14/19

DATE: 04/01/19

LARGE (3-INCH OR GREATER)
WATER METER AND BACKFLOW
PREVENTER ASSEMBLY



W-9

SHEET 1 OF 2

NOTES:

1. MECHANICAL JOINT FITTINGS SHALL BE REQUIRED UNDERGROUND BACK TO "SUPPLY MAIN" AND FLANGED FITTINGS FOR ABOVE GROUND WATER METER, BACKFLOW PREVENTER AND ALL PIPING FITTINGS/APPURTENANCES. NO UNIFLANGES WILL BE PERMITTED. ALL HARDWARE (BOLTS, NUTS, ETC.) FOR ABOVE GROUND FLANGED FITTINGS (CONNECTIONS) SHALL BE STAINLESS STEEL.
2. THE ABOVE GROUND ASSEMBLY AND PIPING FITTINGS/APPURTENANCES SHALL BE PAINTED WITH TNEML EPOXY/POLYURETHANE COATING OR CITY APPROVED EQUAL BASED UPON TNEML'S/PAINT MANUFACTURER'S RECOMMENDATION PER APPLICATION. PAINTING SHALL BE COMPLETED ONLY AFTER TNEML'S/PAINT MANUFACTURER'S REQUIRED SURFACE AND PREPARATION MEASURES HAVE BEEN COMPLETED, INSPECTED, AND ACCEPTED BY THE CITY.
3. ADJUSTABLE PIPE JACKS/SUPPORT PIERS AS APPROVED BY THE CITY PER SHOP DRAWINGS SUBMITTAL SHALL BE PROVIDED AT LOCATIONS AS SHOWN OR AS OTHERWISE DIRECTED BY CITY IN THE FIELD.
4. PROVIDE PROTECTIVE "BOLLARDS" OR OTHER CITY APPROVED DEVICES WHERE ASSEMBLY IS LOCATED IN AN AREA THAT COULD POTENTIALLY BE IMPACTED BY VEHICULAR TRAFFIC.
5. APPROVED REDUCED PRESSURE BACKFLOW PREVENTER WITH SILICONE RUBBER SEAL RINGS OR DISKS AS FOLLOWS:
 - A. WILKENS MODEL #375 S, 3" TO 10"
 - B. AMES MODEL #4000 SSI, 3" TO 10"
 - C. CITY APPROVED ALTERNATE
6. WATER METER SHALL BE NEPTUNE MACH10 ULTRASONIC METER FOR METER SIZES OF 3", 4" AND 6" OR NEPTUNE HIGH PERFORMANCE TURBINE METER FOR METER SIZES OF 8" AND 10". NEPTUNE MACH10 ULTRASONIC AND HIGH PERFORMANCE TURBINE WATER METERS SHALL HAVE NEPTUNE PROCODER REGISTER. ALL WATER METERS LARGER THAN 2" SHALL BE PURCHASED BY THE DEVELOPER/OWNER OF THE PROJECT AND INSTALLED BY THE SITE CONTRACTOR ONLY AFTER VERIFICATION OF WATER METER TYPE AND SIZE AND OPENING OF WATER AND SEWER ACCOUNT BY CUSTOMER SERVICES SECTION OF THE UTILITIES DIVISION.
7. GATE VALVES, STRAINER (IF APPLICABLE), BACKFLOW PREVENTER ASSEMBLY, PIPING AND FITTINGS SHALL BE OF THE SAME SIZE AS THE WATER MAIN.
8. ALL TEST PORTS SHALL BE PLUGGED WITH BRASS PLUGS.
9. D.I.P. WATER MAIN (RESTRAINED) WITH A DEPTH OF COVER TO TOP OF PIPE OF 30" (MIN.) SHALL BE REQUIRED BACK TO THE "SUPPLY MAIN". MEGALUGS OR APPROVED EQUAL ARE TO BE UTILIZED TO RESTRAIN THE PIPE AND ALL FITTINGS/APPURTENANCES BACK TO THE "SUPPLY MAIN".
10. 3' WIDE (MIN.) 6" THICK CONCRETE SLAB HAVING A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI ON 12" STABILIZED SUBGRADE HAVING A MINIMUM LBR OF 40 COMPACTED TO 98% OF MAXIMUM DRY DENSITY PER A.A.S.H.T.O. T-180 SHALL BE PROVIDED FOR LIMITS AS SHOWN.
11. FOR PERMIT APPROVAL, THE ENGINEER SHALL SUBMIT FOR ENGINEERING/UTILITIES DIVISION APPROVAL HYDRAULIC CALCULATIONS FOR THE SELECTED WATER METER TYPE AND SIZE VERIFYING ADEQUATE METER FLOW MEASUREMENT AND PERFORMANCE AT LOW PRESSURE AND AT LOW AND PEAK DEMAND CONDITIONS.
12. PRIOR TO OPENING A WATER AND SEWER ACCOUNT THROUGH THE CUSTOMER SERVICE SECTION OF THE UTILITIES DIVISION AND PRIOR TO INSTALLATION, THE CONTRACTOR SHALL "DROP OFF"/DELIVER THE WATER METER TO THE CUSTOMER SERVICES SECTION OF THE UTILITIES DIVISION FOR ACCOUNT INFORMATION PURPOSES AND INSPECTION AND VERIFICATION OF WATER METER TYPE AND SIZE PER APPROVED HYDRAULIC CALCULATIONS AND PLANS. WATER METER WILL BE RELEASED FOR INSTALLATION ONLY AFTER ACCEPTANCE OF WATER METER AND OPENING OF WATER AND SEWER ACCOUNT.

CITY OF PEMBROKE PINES ENGINEERING/UTILITIES DIVISION		STANDARD WATER DISTRIBUTION DETAIL			W-9
APPROVED: <u> K.M.K. </u>	REVISED: <u> 12/23/20 </u> <u> 06/25/19 </u>	----			
DATE: <u> 04/01/19 </u>				SHEET 2 OF 2	