

<p>TAPPING SADDLE 1" - JCM 402-CC MULLERS PARTS MATERIAL OR A. Y. McDONALD ONLY CORPORATION STOP CURB STOP ANGLE CURB STOP METER COUPLING - 3/4" OR 1" U-BRANCH CONNECTION - 1"x 3/4"x 6 1/2"</p> <p>MULLER A. Y. McDONALD H-15008 XXX B-25170 XXX H-14265 XXX H-10890 XXX H-15365 XXX</p> <p>MEGALUG CAP 4" x 6" WM VALVE 4" x 1" OR 6" x 1" TAPPING SADDLE CC</p>	<p>PROPERTY LINE METER BY OTHERS CONCRETE METER BOX AND C.I. COVER PAVEMENT EDGE OF PAVEMENT 30" MIN. COVER OR EXIST COVER 1" ANGLE METER STOP (MIN.) WITH LOCKING WINGS AND DRILLED METER NUT SEAL BOTH ENDS OF CASING WITH CONCRETE DETAIL "A" 1" PIPE COPPER OR PE (1" PIPE FOR SINGLE SERVICE OR TWO 5/8" METERS) 1" CORPORATION STOP AND TUBING (MINIMUM SIZE) DOUBLE STRAP TAPPING SADDLE (NO DIRECT TAPS PERMITTED) MAIN</p> <p>NOTES: 1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED A MINIMUM OF 18". OFFSET AND AT 45° FROM THE CENTERLINE (ON MAINS WITH GREATER THAN 30" OF COVER, SEE DETAIL "A"). 2. WHERE NO SIDEWALK EXISTS, METER BOXES SHALL BE SET TO CONFORM TO FINISH GRADE. 3. COPPER TUBING SHALL BE TYPE "K" WITH COMPRESSION FITTINGS. POLYETHYLENE TUBING SHALL BE SDR 9, COPPER SIZE TUBING. 4. ROTATE THE CORPORATION STOP SO THAT THE OPERATING NUT IS ACTUATED FROM THE VERTICAL POSITION RATHER THAN THE HORIZONTAL. 5. COPPER SERVICE LINES SHALL BE CONTINUOUS FROM CORPORATION STOP TO ANGLE METER STOP WITH NO FITTINGS IN BETWEEN. 6. TAPPING SADDLES AND CORPORATION STOPS SHALL HAVE CC THREADS. 7. SERVICE CASING SHALL NOT BE INSTALLED BY WATER JETTING UNDER ROADWAY. 8. GALVANIZED CASING REQUIRED FOR JACK AND BORE IN MOST CASES, SCHEDULE 40 PVC MAY BE USED WITH THE APPROVAL OF THE ENGINEER. CASING SHOULD EXTEND SIX (6) FEET BEYOND EDGE OF PAVEMENT AND SIZED AS FOLLOWS A. 1" SERVICE USE 2" CASING B. 2" SERVICE USE 4" CASING 9. METER BOX TO BE SET TWO FEET BEHIND PROPERTY LINE AND TWO FEET INSIDE SIDE PROPERTY LINE ON EITHER SIDE OF PROPERTY. 10. PIPING LAYOUT SHOWN IS TYPICAL FOR 2" SERVICE.</p>	<p>TO PUT CONTINUOUS TRACE WIRE UNDER BOLT, FIRST LOOSEN BOLT, THEN STRIP 3" MIN., WRAP ONCE AROUND BOLT, 1 TWIST, 2 WRAPS, DO "NOT CUT WIRE" TIGHTEN BOLT AFTER WRAPPING TRACE WIRE AROUND THE BOLT.</p> <p>DETAIL OF THREE (3) WIRE SPICE CUTAWAY DETAIL OF A TWO (2) WIRE SPICE</p> <p>NOTES: 1. TRACE WIRE IS REQUIRED ON ALL NON-METALLIC PIPE. 2. INCLUDE ALL COST OF MATERIAL &amp; LABOR IN PRICE OF PIPE. 3. CONTRACTOR IS RESPONSIBLE FOR CONTINUITY OF ALL TRACE WIRE. 4. WIRE SPICE CONNECTORS SHALL BE DRY-CON DIRECT BURY LUG BY KING INNOVATIONS, DS-500 DRI-SPICE BY SPEARS OR DIRECT BURY PRODUCTS BY 3M</p>	<p>HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATERMANS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES AND ON SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.</p> <ol style="list-style-type: none"> <li>NEW OR RELOCATED UNDERGROUND WATERMANS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED SEWER, STORMWATER FORCEMAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 2-610, F.A.C.</li> <li>NEW OR RELOCATED UNDERGROUND WATERMANS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.</li> <li>NEW OR RELOCATED UNDERGROUND WATERMANS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE TYPE SANITARY SEWER, WASTEWATER FORCEMAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATERMANS AND GRAVITY TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATERMAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.</li> <li>NEW OR RELOCATED UNDERGROUND WATERMANS SHALL BE LAID TO PROVIDE A MINIMUM HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATERMAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED ON SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM AS DEFINED IN SECTION 381.0065(2), F.S. AND RULE 64E-6.002, F.A.C.</li> </ol> <p>VERTICAL SEPARATION BETWEEN UNDERGROUND WATERMANS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCEMANS, AND RECLAIMED WATER PIPELINES.</p> <ol style="list-style-type: none"> <li>NEW OR RELOCATED UNDERGROUND WATERMANS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM TYPE SANITARY OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATERMAIN IS AT LEAST SIX INCHES, AND PREFERABLY TWELVE INCHES ABOVE, OR AT LEAST TWELVE INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATERMAIN ABOVE THE OTHER PIPELINE.</li> <li>NEW OR RELOCATED UNDERGROUND WATERMANS CROSSING ANY EXISTING OR PROPOSED PRESSURE TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPE LINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATERMAIN IS AT LEAST TWELVE INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATERMAIN ABOVE THE OTHER PIPELINE.</li> <li>AT THE UTILITY CROSSING DESCRIBED IN PARAGRAPH 1 AND 2 ABOVE, ONE FULL LENGTH OF WATERMAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATERMAIN JOINTS SHALL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATERMAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM TYPE SANITARY SEWER, STORM SEWERS, STORMWATER FORCEMANS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE TYPE SANITARY SEWERS, WASTEWATER FORCEMANS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.</li> </ol>
<p>MULTIPLE WATER SERVICES</p>	<p>1</p>	<p>WATER SERVICE FOR 1" OR 2" PIPE</p>	<p>2</p>
<p>RPZ BACKFLOW PREVENTER ZURN/WILKINS 975.XL OR WATTS 909 RPZ THREADED 6" LONG BRASS NIPPLES (TYP.) UNI-STRUT CAP (TYP.) 316 S.S. UNI-STRUT (TYP.) FINISHED GRADE TYPE "K" COPPER TUBING (HARD DRAWN) WITH COPPER/BRASS "SWEAT" FITTINGS AND ADAPTERS SHALL BE USED FROM THE METER ON. PIPE SIZE SHALL BE 1" OR 2".</p> <p>NOTE: PROVIDE GUARD SHACK STEEL ENCLOSURE WITH GREEN VINYL COATING FOR PROTECTION.</p>	<p>CONCRETE METER BOX W/ TRAFFIC TYPE COVER FINISHED GRADE CAP 2" BRONZE ANGLE VALVE CRANE CATALOG NO. 701 OR APPROVED EQUAL 90° BRASS ELBOW 2" BRASS NIPPLE WATER MAIN PLUG 2" TYPE "K" COPPER RISER OR BRASS PIPE (TYP.) 2" CORPORATION STOP</p> <p>NOTES: 1. GALVANIZED PIPING AND FITTINGS SHALL NOT BE USED ON TEMPORARY OR PERMANENT BLOWOFFS. 2. MEGALUG RESTRAINED JOINTS REQUIRED ON WATERMAIN.</p>	<p>TOP OF PAVEMENT ROAD BASE CONCRETE COLLAR (NON-PAVED AREAS ONLY) CONCRETE COLLAR 30"x30"x6" LEAVE 24" OF EXTRA WIRE INSIDE VALVE BOX 48" MAX. 30" MIN. C.I. ADJUSTABLE VALVE BOX (INSIDE SCREW TYPE) TYPICAL FOR PAVED AREAS. FOR GRASSED AREAS, RISER PIPE MAY BE AWWA C900 PVC PIPE. TRACING WIRE</p> <p>NOTES: 1. TOP OF LID MUST BE FLUSH WITH PAVEMENT OR CONCRETE COLLAR. 2. WHEN VALVE IS DEEPER THAN 36" AN EXTENSION WILL BE REQUIRED TO BRING OPERATING NUT TO 24" OF FINISHED GRADE. EXTENSION MUST BE SET SCREW TYPE AND ATTACHED TO OPERATING NUT. 3. OUTSIDE BOX SHALL BE UNITED STATES FOUNDRY NO. 7630 WITH TYPE FD LID. LID SHALL BE CAST WITH THE WORDS: "WATER" OR "RAW WATER". 4. USE NYLON CABLE TIES TO SECURE TRACE WIRE TO OUTSIDE OF VALVE EXTENSION AND CABLE TIE BEHIND EACH BELL. 5. SEE NOTES ON DETAIL NO. 3, THIS SHEET.</p>	<p>PIPE SUPPORTS REQUIRED (SEE "PIPE SUPPORT" DETAIL) EMERGENCY BYPASS (TO BE SIZED BY ENGINEER OF RECORD)(4" MIN. SIZE) FULL FACED NEOPRENE GASKETS SHALL BE REQUIRED ON ALL FLANGES Y STRAINER SPOOL PIECE COMPOUND WATER METER TEST PORT (3/4" TAP WITH LOCKING BALL VALVE)(TYPICAL) REDUCED PRESSURE BACKFLOW PREVENTION DEVICE (SEE NOTE 4) NON-RISING STEM GATE VALVE WITH HAND WHEEL OPERATOR (TYPICAL) FINISHED GRADE BRACE PIPE, MIN. 4" 4" MIN. SIZE</p> <p>THIS DRAWING DEPICTS A GENERAL ASSEMBLY ONLY. THE ENGINEER OF RECORD SHALL COORDINATE THE SPECIFIC ASSEMBLY'S REQUIREMENTS WITH THE CITY OF LAKE WORTH.</p>
<p>BACKFLOW PREVENTION DEVICE - 3/4" TO 2"</p>	<p>5</p>	<p>2" TERMINAL BLOWOFF</p>	<p>6</p>
<p>6"x 6"x 3/8" STEEL PLATE. 1/2" DRY PACK GROUT 3/16" PLATE &amp; PIPE 1/2" DIA. x 5" LONG J-BOLT W/ HEX NUT AND WASHER (2 REQUIRED) (LOCATE IN OPPOSITE CORNERS) 1" TYP. 2"</p> <p>5/8" METER (BY OWNER) (MODEL 806 ONLY) DOUBLE CHECK ASSEMBLY (MODEL SPECIFIED ON PLAN) ADJUSTABLE PIPE SADDLE SUPPORT (TYP.) FLANGED D.I. 90° BEND (TYP.) D.I.P. (TYP.) FINISHED GRADE 3/4" TIE RODS &amp; BOLTS, ONE EACH SIDE, TO BE HOT DIPPED GALVANIZED AND PAINTED (TYP.) BRACE PIPE, MIN. 4" 4x4-W 2.9 x W 2.9 WWF DETAIL</p>	<p>2" REDUCED PRESSURE BACKFLOW PREVENTER FEBCO MODEL 825Y-BV 6" LONG BRASS NIPPLE 2" BRASS PIPE 6" LONG BRASS NIPPLE 2" BRASS HOSE VALVE 3/4" HOSE BIB PIPE SUPPORT (TYP. SEE DETAIL) 1/2" CHAMFER (ALL AROUND) 36"x12"x6" THICK CONCRETE PAD 3" PVC PIPE SLEEVE FINISHED GRADE 18" MIN. COVER</p>	<p>2"x2"x1/4" 316 S.S. STEEL ANGLE OR 316 S.S. UNI-STRUT 1" CLEAR PIPE STANDARD 316 S.S. U- BOLT OR 316 S.S. UNI-STRUT PIPE CLAMP FLEXIBLE POLYURETHANE CAULKING (ALL AROUND) 6"x3"x3/8" THICK 316 S.S. PLATE 3/8" 316 S.S. WEDGE TYPE CONCRETE EXPANSION ANCHOR (2 REQUIRED) 3" MIN.</p>	<p>NOTES: 1. MECHANICAL JOINT FITTINGS SHALL BE REQUIRED UNDERGROUND AND FLANGED FITTINGS FOR ABOVE GROUND USE, NO UNFLANGES PERMITTED. 2. PAINT THE ABOVE GROUND ASSEMBLY IN ACCORDANCE WITH CONSTRUCTION STANDARD, AFTER MANUFACTURERS RECOMMENDED SURFACE PREP IS COMPLETED. DO NOT PAINT OVER NAME/SERIAL PLATE, STAINLESS STEEL OR BRASS FITTINGS. 3. PROTECTIVE PIPE STANCHIONS ARE REQUIRED. 4. APPROVED REDUCED PRESSURE BACKFLOW PREVENTER WITH SILICONE RUBBER SEAL RINGS OR DISKS: A. WILKENS MODEL 375 S, 4" TO 10" B. AMES MODEL 4000 SSSR, 4" TO 10" C. AMES MODEL 4000 SESR, 4" TO 10" D. AMES MODEL 4000 SSI, 4" TO 10" 5. 3" METER REQUIRES 4" BACKFLOW ASSEMBLY AND PIPING. 6. ALL TEST PORTS SHALL BE PLUGGED WITH BRASS PLUGS. 7. PROVIDE SPOOL PIECES DIRECTLY IN FRONT OF METER. MINIMUM LENGTH TO BE THREE PIPE DIAMETERS. 8. METER TO BE SUPPLIED BY CONTRACTOR. MODEL NUMBER TO BE DETERMINED BY CITY.</p>
<p>DOUBLE CHECK VALVE ASSEMBLY</p>	<p>9</p>	<p>BACKFLOW PREVENTER WITH HOSE BIB</p>	<p>10</p>
<p>MULTIPLE WATER SERVICES</p>	<p>1</p>	<p>WATER SERVICE FOR 1" OR 2" PIPE</p>	<p>2</p>
<p>BACKFLOW PREVENTION DEVICE - 3/4" TO 2"</p>	<p>5</p>	<p>2" TERMINAL BLOWOFF</p>	<p>6</p>
<p>DOUBLE CHECK VALVE ASSEMBLY</p>	<p>9</p>	<p>BACKFLOW PREVENTER WITH HOSE BIB</p>	<p>10</p>
<p>MULTIPLE WATER SERVICES</p>	<p>1</p>	<p>WATER SERVICE FOR 1" OR 2" PIPE</p>	<p>2</p>
<p>BACKFLOW PREVENTION DEVICE - 3/4" TO 2"</p>	<p>5</p>	<p>2" TERMINAL BLOWOFF</p>	<p>6</p>
<p>DOUBLE CHECK VALVE ASSEMBLY</p>	<p>9</p>	<p>BACKFLOW PREVENTER WITH HOSE BIB</p>	<p>10</p>