

ODOT ITEM 748 WATER MAIN AND SERVICE BRANCH MATERIAL

ALL PROVISIONS OF ITEM 748 FROM THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS 2019 EDITION SHALL APPLY WITH THE FOLLOWING MODIFICATIONS. INFORMATION ON APPROVED PLANS AND CITY OF WADSWORTH STANDARD DETAILS WILL TAKE PRECEDENCE IF THERE ARE ANY CONFLICTS WITH THIS ITEM.

748.01 DUCTILE IRON PIPE, JOINTS, AND FITTINGS, IN ADDITION TO THE FOLLOWING REQUIREMENTS:

- A) DUCTILE IRON PIPE SHALL BE CLASS 52 WITH PUSH-ON JOINTS.
- B) FITTINGS AND ACCESSORIES SHALL HAVE MECHANICAL TYPE JOINTS.
- C) RESTRAINED JOINTS ARE REQUIRED AT TEES VALVES, BENDS, PLUGS, ETC., USING MEGA-LUGS AS MANUFACTURED BY EBAA IRON, OR APPROVED EQUAL.
- D) ALL BOLTS MUST BE COMPLETELY COVERED WITH A SPRAY-ON RUBBERIZED UNDERCOATING MATERIAL. STAINLESS STEEL BOLTS DO NOT NEED TO BE SPRAYED.
- E) JOINTS WITHIN 25 FEET OF ANY FITTING, VALVE, OR PLUG SHALL HAVE FIELD-LOK GASKETS, OR APPROVED EQUAL.

748.02 POLYVINYL CHLORIDE (PVC) PIPE, JOINTS, AND FITTINGS – NOT ALLOWED

748.03 POLYETHYLENE (PE) SERVICE BRANCHES AND FITTINGS – NOT ALLOWED

748.04 GLASS-FIBER REINFORCED POLYMER MORTAR PIPE (RPMP), JOINTS, AND FITTINGS – NOT ALLOWED

748.05 COPPER SERVICE BRANCHES AND FITTINGS, WITH THE FOLLOWING MODIFICATIONS:

- A) FLARE-TYPE FITTINGS ARE NOT ALLOWED
- B) REFER TO CITY OF WADSWORTH STANDARD DETAIL WAT-03 FOR INSTALLATION AND ACCEPTABLE MATERIALS

748.06 STEEL PIPE ENCASEMENT, WITH THE FOLLOWING MODIFICATIONS:

- A) REFER TO CITY OF WADSWORTH STANDARD DETAIL WAT-08 FOR INSTALLATION AND ACCEPTABLE MATERIALS

748.07 POLYETHYLENE ENCASEMENT

- A) REQUIRED ONLY AS INDICATED PER PLAN OR UNDER DIRECTION OF THE CITY ENGINEER.

748.08 GATE VALVE AND VALVE BOX, IN ADDITION TO THE FOLLOWING REQUIREMENTS:

- A) GATE VALVES TO BE USED ON 12 IN. AND SMALLER MAINS SHALL BE MUELLER A-2362
- B) ALL HAND OPERATED GATE VALVES SHALL OPEN BY TURNING COUNTER-CLOCKWISE AND HAVE AN ARROW ON THE OPERATING NUT THAT INDICATES THE DIRECTION OF OPENING.
- C) VALVES SHALL HAVE MECHANICAL JOINT CONNECTIONS.
- D) ALL VALVES SHALL BE DESIGNED FOR A WORKING PRESSURE OF 200 POUNDS PER SQUARE INCH, UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER.
- E) VALVE BOXES SHALL BE BUFFALO STYLE 5-1/4 IN., TWO PIECE, SCREW TYPE CONSTRUCTION, SEE CITY OF WADSWORTH STANDARD DETAILS WAT-01 OR WAT-02 FOR APPROVED MATERIALS.
- F) VALVE BOXES SHALL BE OF STANDARD, ADJUSTABLE, HEAVY PATTERN, CAST IRON EXTENSION TYPE OF SUCH LENGTH AS IS REQUIRED TO PROVIDE FOR A COVER OF NOT LESS THAN 4 FEET.
- G) THE VALVE BOX SHALL NOT TRANSMIT SHOCK OR STRESS TO THE VALVE AND SHALL BE CENTERED AND PLUMB OVER THE WRENCH NUT OF THE VALVE, WITH THE BOX COVER FLUSH WITH THE SURFACE OF THE FINISHED PAVEMENT OR OTHER LEVEL AS DIRECTED BY THE ENGINEER.
- H) EXTENSION SECTIONS SHALL BE PROVIDED WHERE REQUIRED.

748.11 TAPPING SLEEVE, VALVE AND VALVE BOX, IN ADDITION TO THE FOLLOWING REQUIREMENTS:

- A) MECHANICAL JOINT TAPPING SLEEVES FURNISHED SHALL BE MUELLER H-615 OR APPROVED EQUAL IN ACCORDANCE WITH ANSI/AWWA C153 USING AN IRON BODY WITH A 3/4 IN. NPT TEST PLUG.
- B) AFTER THE TAPPING SLEEVE AND VALVE ARE IN PLACE, A HYDROSTATIC PRESSURE AND LEAKAGE TEST IS REQUIRED WITH A CITY REPRESENTATIVE PRESENT. THE DURATION OF THE TEST IS 10 MINUTES AT 150 PSI OR 1-1/2 TIMES THE STATIC PRESSURE OF THE WATER LINE, WHICHEVER IS GREATER.

748.12 TAPPING SADDLE AND CORPORATION STOP, WITH THE FOLLOWING MODIFICATIONS:

- A) REFER TO CITY OF WADSWORTH STANDARD DETAIL WAT-03 FOR INSTALLATION AND ACCEPTABLE MATERIALS.

748.13 SERVICE STOP AND SERVICE BOX, WITH THE FOLLOWING MODIFICATIONS:

- A) REFER TO CITY OF WADSWORTH STANDARD DETAIL WAT-03 FOR INSTALLATION AND ACCEPTABLE MATERIALS.

748.14 FIRE HYDRANT, WITH THE FOLLOWING MODIFICATIONS:

- A) REFER TO CITY OF WADSWORTH STANDARD DETAIL WAT-01 AND WAT-02 FOR INSTALLATION AND ACCEPTABLE MATERIALS.