

WATER DISTRIBUTION SPECIFICATIONS

1.1 GENERAL: THE ITEM SHALL CONSIST OF THE LABOR, EQUIPMENT, AND MATERIALS REQUIRED FOR THE COMPLETE CONSTRUCTION OF THE WATER MAIN AND SERVICES INCLUDING THE FOLLOWING: PIPE, VALVES, TEES, HYDRANTS, ELBOWS, REDUCERS, AND ALL OTHER APPURTENANCES NECESSARY FOR A COMPLETE WATER DISTRIBUTION SYSTEM AS INDICATED ON THE ACCEPTED DRAWINGS.

1.2 WATER MAIN PIPE MATERIALS: PVC PIPE POLYVINYL CHLORIDE (PVC) PLASTIC PIPE SHALL BE OF THE DIAMETER INDICATED ON THE PLANS. FOR ALL MAINS, PIPE SHALL BE CONSTRUCTION OF PRESSURE CLASS 200 (DRI) MEETING ANWA SPECIFICATIONS C900 OR LATER REVISION; WITH CAST IRON OR COMPACT FIBER REINFORCED POLYESTER (FRP) WITH NEGLIGIBLE JOINT RESTRAINT.

1.3 FITTINGS: DUCTILE IRON FITTINGS SHALL BE CEMENT-LINED, HAVE 300 POUNDS WORKING PRESSURE, AND BE IN ACCORDANCE WITH ANWA C104-C111, AND C-110 OR C-110 FOR COMPACT FIBER REINFORCED POLYESTER (FRP) FITTINGS. MECHANICAL JOINT AND BOLT SEALS SHALL BE HIGH STRENGTH, LOW ALLOY STEEL PER ANSI A 21.11. DUCTILE IRON FITTINGS LARGER THAN TWELVE INCHES (12") SHALL HAVE A STANDARD BOLT LENGTH EQUAL TO CLASS 250 CAST IRON FITTINGS. CAST IRON CLASS 250 FITTINGS SHALL BE ALLOWED ON FITTINGS IN SIZES LARGER THAN TWELVE INCHES (12"). JOINTS FOR PVC SHALL BE COMPRESSION-MECHANICAL JOINTS CONFORMING TO ASTM D3139 AND ANWA HUBS 21.1.

1.4 GATE VALVE RESILIENT SEAT: GATE VALVES SHALL BE ANWA C 590-F STANDARD GATE VALVES WITH MECHANICAL JOINTS OF SIZES AS INDICATED ON THE PLANS. ALL VALVES SHALL BE CAST OR DUCTILE IRON BODY, PARALLEL BRASS SEATS, NON-RISING STEM, INSIDE SCREW, DOUBLE DISK CONSTRUCTION WITH 10" RING STEM BEAM. ALL VALVES SHALL HAVE STAINLESS STEEL BOLTS AND NUTS. ALL VALVES TO BE EQUIPPED WITH A VALVE BOX FOR A MINIMUM OF 5' OF COVER MATERIAL. THE VALVE SHALL OPEN LEFT AND BE OPERATED BY A WORKING PRESSURE OF 20 PSI.

1.5 VALVE BOXES: VALVE BOXES ARE TO BE INSTALLED ON ALL BURIED VALVES. THE BOXES SHALL BE CAST IRON WITH A MINIMUM FIVE (5) INCH DIAMETER AND LONG ENOUGH TO EXTEND FROM THE VALVE TO THE FINISHED GRADE. THE BOXES SHALL ENCLOSE THE OPERATING NUT AND THE STOPPING BOX OF THE VALVE. VALVE BOXES SHALL NOT TRANSFER LOADS TO THE VALVE.

1.6 COVERS SHALL BE CLOSE FITTING AND DIRT-TIGHT WITH THE TOP OF THE COVER FLUSH WITH THE TOP OF THE RIM BOX. COVERS SHALL BE MARKED "WATER" WITH AN ARROW INDICATING THE DIRECTION OF OPENING. VALVE BOXES SHALL BE FIVE INCH BY SIX FOOT (5' X 6') NEW ENGLAND STYLE SLIDE-TYPE.

1.7 HYDRANT BRASSES: HYDRANT BRASSES SHALL BE CONSTRUCTION OF ANWA C622 AND THE TOWN OF HINESBURG. ALL HYDRANTS ARE TO BE 3-WAY, 5" MINIMUM DIAMETER AND LIMITED TO THE FOLLOWING MAKES: MUELLER OR KENNEDY 1/2" BORE 1-1/2" WITH A MINIMUM CURVE

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1.9 CONSTRUCTION METHODS: A. INSPECTION AND TESTING: ALL PIPE AND FITTINGS SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

B. INSTALLATION: FITTINGS, FITTINGS, AND ACCESSORIES SHALL BE CAREFULLY HANDLED TO AVOID DAMAGE. PRIOR TO THE DATE OF ACCEPTANCE OF THE PROJECT WORK BY THE OWNER, THE CONTRACTOR SHALL FURNISH FOR APPROVAL CERTIFICATION FROM THE PIPE MANUFACTURER THAT ALL TESTS HAVE BEEN PERFORMED WITH SATISFACTORY RESULTS.

C. TRENCHING: TRENCHING SHALL BE IN ACCORDANCE WITH ANWA STANDARDS C-60 AND ANWA SPECIFICATION A2-11. ANY DEFLECTION JOINTS SHALL BE WITHIN THE LIMITS SPECIFIED BY THE MANUFACTURER. ALL PIPING AND APPURTENANCES CONNECTED TO THE EQUIPMENT SHALL BE SUPPORTED SO THAT NO STRAIN WILL BE IMPOSED ON THE EQUIPMENT.

D. TAPPING: TAPPING SHALL BE IN ACCORDANCE WITH ANWA STANDARDS C-109 AND ANWA SPECIFICATION A2-11. THE CONTRACTOR SHALL FURNISH FOR APPROVAL CERTIFICATION FROM THE PIPE MANUFACTURER THAT ALL TESTS HAVE BEEN PERFORMED WITH SATISFACTORY RESULTS.

E. TAPPING VALVE: TAPPING VALVES SHALL BE CONSTRUCTION OF ANWA C622 AND THE TOWN OF HINESBURG. ALL TAPPING VALVES SHALL BE 3-WAY, 5" MINIMUM DIAMETER AND LIMITED TO THE FOLLOWING MAKES: MUELLER OR KENNEDY 1/2" BORE 1-1/2" WITH A MINIMUM CURVE

F. THRUST BLOCKS: THRUST BLOCKS SHALL BE CONSTRUCTION OF ANWA C622 AND THE TOWN OF HINESBURG. ALL THRUST BLOCKS SHALL BE 3-WAY, 5" MINIMUM DIAMETER AND LIMITED TO THE FOLLOWING MAKES: MUELLER OR KENNEDY 1/2" BORE 1-1/2" WITH A MINIMUM CURVE

G. TAPPING SLEEVE: TAPPING SLEEVES SHALL BE CONSTRUCTION OF ANWA C622 AND THE TOWN OF HINESBURG. ALL TAPPING SLEEVES SHALL BE 3-WAY, 5" MINIMUM DIAMETER AND LIMITED TO THE FOLLOWING MAKES: MUELLER OR KENNEDY 1/2" BORE 1-1/2" WITH A MINIMUM CURVE

H. THRUST BLOCK END AREA: THRUST BLOCK END AREAS SHALL BE CONSTRUCTION OF ANWA C622 AND THE TOWN OF HINESBURG. ALL THRUST BLOCK END AREAS SHALL BE 3-WAY, 5" MINIMUM DIAMETER AND LIMITED TO THE FOLLOWING MAKES: MUELLER OR KENNEDY 1/2" BORE 1-1/2" WITH A MINIMUM CURVE

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