

UTILITY ADJUSTMENT QUANTITIES & NOTES

REVISED	FHWA REGION	STATE	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
	3	VA		1867	1867-080-295,M-501	4(1)

SHEET NO.		8" DI WATER MAIN	CONCRETE ENCASEMENT	8" X 8" TAPPING SLEEVE VALVE & BOX	
		LF	LF	EA	
4(2)		353	32	2	
TOTAL		353	32	2	

GENERAL NOTES

1 THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE EXISTING WATER FACILITIES WITHIN THE PROJECT UNTIL THE PROPOSED WATER FACILITIES ARE INSTALLED AND PLACED INTO OPERATION. ANY VARIANCE MUST BE APPROVED BY THE ENGINEER. TEMPORARY WATER CONNECTIONS AND LINES MAY BE NECESSARY DEPENDING ON THE CONTRACTORS SEQUENCE OF CONSTRUCTION. ANY COST FOR THESE ITEMS SHALL BE INCLUDED IN THE BID PRICE FOR WATER MAIN.

2 CONNECTIONS TO EXISTING WATER LINES SHALL BE MADE ONLY AFTER THE PROPOSED LINES ARE COMPLETED AND APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL COORDINATE THE CHANGEOVER OF WATER FACILITIES WITH MR. ED TRENT, SUPERINTENDENT FOR THE WATER SERVICES CITY OF ROANOKE, AND SHALL NOTIFY HIM (TEL. 540-981-2513) FIVE DAYS PRIOR TO ANTICIPATED DATE OF CHANGEOVER AND/OR TIE IN. THE CITY OF ROANOKE SHALL PERFORM TIE-INS TO EXISTING WATER MAINS. SHUT DOWN TIMES FOR WATER MAINS SHALL BE LIMITED TO 3 HOURS PER DAY. ALL EXCAVATION AND MATERIALS NECESSARY FOR CONNECTIONS AND ACCESS TO THE WATER MAINS SHALL BE PROVIDED BY THE CONTRACTOR.

3 THE CONTRACTOR SHALL INFORM THE LOCAL FIRE DEPARTMENT PRIOR TO ANY WORK ON FIRE HYDRANTS WITHIN THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE CITY OF ROANOKE FIRE DISPATCHER'S OFFICE, (TEL. 540-981-2829), WITH THE LOCATION OF HYDRANTS BEING WORKED ON AND A DOWNTIME SCHEDULE FOR EACH HYDRANT.

4 ALL VALVES LEFT IN PLACE AND NOT USED IN THE COMPLETED SYSTEM SHALL HAVE THEIR VALVE BOXES REMOVED COMPLETELY OR REMOVED TO A POINT ONE FOOT BELOW FINISHED GRADE OR NORMAL GROUND LINE AND FILLED WITH CLASS A3 CONCRETE.

5 THE LOCATIONS AND ELEVATIONS OF EXISTING WATER MAINS, WATER SERVICE LINES, SANITARY SEWER LINES AND LATERALS, AND UNDERGROUND TELEPHONE, POWER, GAS, AND CABLE TELEVISION LINES ARE APPROXIMATE ONLY AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO EXCAVATION. THE CONTRACTOR SHALL ADJUST ALL SANITARY SEWER SERVICE LATERALS AND WATER SERVICE LINES FOUND TO BE IN CONFLICT WITH PROPOSED CONSTRUCTION. QUANTITIES OF LATERAL MATERIALS AND SERVICE LINE MATERIALS SHOWN ON THE PLANS ARE ESTIMATED. ACTUAL MATERIAL NEEDED MAY VARY DEPENDING ON FIELD CONDITIONS.

6 WATER MAINS ARE OWNED BY THE CITY OF ROANOKE.

7 ALL PROPOSED WATER MAINS TO HAVE MINIMUM 1050MM COVER.

MATERIAL NOTES FOR WATER FACILITIES

1 WATER MAIN FITTINGS SHALL BE DUCTILE IRON COMPACT FITTINGS IN ACCORDANCE WITH AWWA C153 WITH A MINIMUM PRESSURE RATING OF 350 PSI. WATER MAIN TEST PRESSURE SHALL BE 150 PSI. ALL SIZES OF DUCTILE IRON WATER MAIN SHALL BE PRESSURE CLASS 350 IN ACCORDANCE WITH AWWA C151. PIPE SHALL BE CEMENT-MORTAR LINED, SEAL COATED, AND MECHANICAL JOINT OR PUSH-ON JOINT. BEDDING SHALL BE VDOT STANDARD UB-1, TYPE 1. ALL BENDS, VALVES, SLEEVES, REDUCERS, TEES, PIPE, AND FITTINGS SHALL BE ANCHORED WITH REACTION BACKING IN ACCORDANCE WITH VDOT STANDARD RB-1 OR SHALL BE FULLY RESTRAINED WITH A MECHANICAL JOINT RESTRAINING MECHANISM WHICH, WHEN ACTUATED, IMPARTS MULTIPLE WEDGING ACTION AGAINST THE PIPE. MECHANICAL JOINT RESTRAINING MECHANISMS SHALL BE USED AT THE TIE-INS TO THE EXISTING WATER MAINS WHERE POSSIBLE TO PROVIDE A MINIMUM AMOUNT OF DOWNTIME FOR THE WATER MAIN. MECHANICAL JOINT PIPE SHALL BE USED WITH MECHANICAL JOINT RESTRAINING MECHANISMS.

2 TAPPING SLEEVES SHALL BE MECHANICAL JOINT, FURNISHED COMPLETE WITH PLAIN RUBBER GASKETS, JOINT ACCESSORIES, AND DUCKBACK GASKETS. CONNECTING FLANGE BETWEEN SLEEVE AND VALVE SHALL CONFORM TO MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVES AND FITTINGS INDUSTRY STANDARD SP60. TAPPING SLEEVES SHALL BE ALL STAINLESS, JCM MODEL 432 OR EQUIVALENT AS APPROVED BY AWWA. TAPPING VALVES SHALL MEET THE SAME SPECIFICATIONS AS GATE VALVES, EXCEPT THEY SHALL HAVE A FULLY UNOBSTRUCTED OPENING TO RECEIVE A FULL SIZE SHELL CUTTER. TAPPING VALVES SHALL OPEN BY TURNING TO THE RIGHT. TAPPING VALVES SHALL BE MANUFACTURED BY MUELLER OR AMERICAN DARLING.

3 WATER MAIN FITTINGS SHALL BE DUCTILE IRON COMPACT FITTINGS IN ACCORDANCE WITH C153 WITH A MINIMUM PRESSURE RATING OF 350 PSI. WATER MAIN TEST PRESSURE SHALL BE 150 PSI. ALL SIZES OF DUCTILE IRON WATER MAIN SHALL BE PRESSURE CLASS COATED, AND MECHANICAL JOINT OR PUSH-ON JOINT. BEDDING SHALL BE VDOT STANDARD UB-1, TYPE 1. ALL BENDS, VALVES, SLEEVES, REDUCERS, TEES, PIPE, AND FITTINGS SHALL BE ANCHORED WITH REACTION BACKING IN ACCORDANCE WITH VDOT STANDARD RB-1 OR SHALL BE FULLY RESTRAINED WITH A MECHANICAL JOINT RESTRAINING MECHANISM WHICH, WHEN ACTUATED, IMPARTS MULTIPLE WEDGING ACTION AGAINST THE PIPE. MECHANICAL JOINT RESTRAINING MECHANISMS SHALL BE USED AT THE TIE-INS TO THE EXISTING WATER MAINS WHERE POSSIBLE TO PROVIDE A MINIMUM AMOUNT OF DOWNTIME FOR THE WATER MAIN.

4 CONCRETE ENCASEMENT SHALL BE IN ACCORDANCE WITH VDOT STANDARD UB-1.

SUPERVISED BY: _____
DESIGNED BY: _____
CADD OPERATOR: _____
REVISED BY: _____
DATE: _____
PLAN NO. _____
NOTE BOOK NO. _____
11/05/98 09:28:57

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
A	1867-080-295		4(1)