


SHALL REFLECT ANY FIELD CHANGES AND INDICATE "TIES" FOR THE LOCATION OF VALVES, BENDS, MANHOLES, FIRE HYDRANTS, APPURTENANCES, ETC.

13. THE CONTRACTOR SHALL NOT OPERATE ANY VALVES LOCATED ON THE EXISTING DISTRIBUTION SYSTEM. REQUESTS TO OPERATE VALVES MUST BE SUBMITTED TO THE AMERICAN WATER UTILITY MANAGER 48 HOURS IN ADVANCE.
14. ALL MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
15. WHEN A WATER MAIN AND A SEWER LINE ARE IN A PARALLEL ALIGNMENT, THE WATER MAIN SHALL NOT BE INSTALLED HORIZONTALLY WITHIN TEN FEET (10') OF THE SEWER LINE.
16. WHEN A WATER MAIN AND SEWER LINE ARE IN A PERPENDICULAR CROSSING ALIGNMENT, THE WATER MAIN SHALL NOT BE INSTALLED WITHIN TWO FEET (2') OF VERTICAL CLEARANCE OF THE SEWER LINE AND NO WATER MAIN JOINTS SHALL BE ALLOWED WITHIN TEN FEET (10') OF THE SEWER LINE.
17. SEPARATION DISTANCES MEASURED EDGE-TO-EDGE. IF REQUIRED CLEARANCES CAN NOT BE MAINTAINED, CONCRETE ENCASEMENT SHALL BE REQUIRED.
18. WATER MAIN, SEWER LINES AND FORCE MAINS SHALL BE LAID AT LEAST THREE FEET (3') HORIZONTALLY MEASURED EDGE-TO-EDGE FROM ANY OTHER EXISTING OR PROPOSED UTILITIES, SUCH AS GAS LINES, TELEPHONE, ELECTRIC, RECLAIMED WATER LINES, ETC.
19. SEWERS AND FORCE MAINS SHALL BE LAID AT LEAST THREE FEET (3') HORIZONTALLY MEASURED EDGE-TO-EDGE FROM ANY EXISTING OR PROPOSED PAVEMENT OR SIDEWALKS.
20. SCHEDULE 40 AND SCHEDULE 80 PVC PIPE ARE NOT PERMITTED UNDER ANY CIRCUMSTANCES.

GUIDELINES FOR VARIANCES

1. AMERICAN WATER MAY ALLOW VARIANCES TO THE DESIGN STANDARDS AND STANDARD DETAILS WHEN STRICT ADHERENCE WOULD LESS ADEQUATELY PROVIDE FOR THE DEVELOPMENT, MAINTENANCE, EFFICIENCY, AND EFFECTIVENESS OF THE WATER AND SEWER UTILITIES. ANY VARIANCE GRANTED SHALL ENSURE THAT THE OBJECTIVES AND INTENT OF THE ORIGINAL DESIGN STANDARD OR STANDARD DETAIL TO WHICH THE VARIANCES IS GRANTED ARE SUBSTANTIALLY MET.
2. VARIANCES MAY BE ALLOWED WHEN:
 - 2.1. A SUBSTITUTION FOR A CHANGE IN STANDARD MATERIAL RESULTS IN THE USE OF A MATERIAL WHICH CAN BE CLEARLY DEMONSTRATED TO BE EQUAL TO OR OF SUPERIOR QUALITY;
 - 2.2. A STRICT ADHERENCE TO A DESIGN STANDARD OR STANDARD DETAIL WOULD BE IMPRACTICAL OR IMPOSSIBLE BECAUSE OF FIELD CONDITIONS SUCH AS EXISTING UTILITY FACILITIES;
 - 2.3. AN EMERGENCY SITUATION PROHIBITS STRICT ADHERENCE TO A DESIGN STANDARD OR STANDARD DETAIL;
 - 2.4. AT THE DISCRETION OF AMERICAN WATER.

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