


1. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS, AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.
2. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCAL MUNICIPALITY CODES, STANDARDS, AND SPECIFICATIONS. INSTALLATION OF UTILITIES SHALL CONFORM TO HILDALE CITY STANDARDS AND SPECIFICATIONS.
3. COORDINATE ALL UTILITY SERVICES WITH APPROPRIATE PROVIDER. EASEMENTS AND PERMITS TO BE OBTAINED BY DEVELOPER PRIOR TO CONSTRUCTION.
4. NEW WATER LINES SHALL CONFORM TO THE AMERICAN WATER WORKS ASSOCIATION (AWWA) SPECIFICATIONS C200-86, AND ANY LOCAL RESTRICTIONS. WATER LINES SHALL BE INSTALLED 4' (MIN.) BELOW FINISH GRADE FOR FROST PROTECTION.
5. FOR WORK PERFORMED WITHIN THE RIGHT-OF-WAY, A TRAFFIC CONTROL PLAN SHALL BE DEVELOPED AND IMPLEMENTED IN ACCORDANCE WITH THE CURRENT FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
6. ALL EXCAVATIONS AND BACKFILL SHALL CONFORM TO HILDALE CITY STANDARDS AND SPECIFICATIONS.
7. 14 GAUGE WIRE SHALL BE TAPED TO THE BOTTOM OF ALL WATER LINES FOR LOCATING PURPOSES. THE WIRE SHALL ALSO BE BROUGHT UP AT EACH VALVE BOX AND HYDRANT.
8. INSTALL JOINT RESTRAINTS ON THE NEW PIPELINE. USE MEGA-LUG ON THE FITTINGS AND FIELD LOCK GASKETS ON THE REQUIRED LENGTH OF RESTRAINED PIPE.
9. ALL MANHOLES, VALVE BOXES AND OTHER SIMILAR ITEMS SHALL HAVE CONCRETE COLLAR PER HILDALE CITY STANDARDS.
10. ALL MATERIALS THAT MAY COME INTO CONTACT WITH DRINKING WATER, INCLUDING PIPES, GASKETS, LUBRICANTS AND O-RINGS, SHALL BE ANSI-CERTIFIED MEETING THE REQUIREMENTS OF ANSI / NSF STANDARD 61, DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS. TO PERMIT FIELD-VERIFICATION OF THIS CERTIFICATION, ALL COMPONENTS SHALL BE APPROPRIATELY STAMPED WITH THE NSF LOGO.
11. THE HORIZONTAL DISTANCE BETWEEN WATER LINES AND SANITARY LINES SHALL BE AT LEAST 10 FEET. WHEN A WATER MAIN AND A SEWER LINE MUST CROSS, THE WATER MAIN SHALL BE AT LEAST 18 INCHES ABOVE THE SEWER LINE. SEPARATION DISTANCES SHALL BE MEASURED EDGE-TO-EDGE.
12. ALL NEW WATER MAINS OR APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C681-05 OR A METHOD APPROVED BY THE DIRECTOR. THE SPECIFICATIONS SHALL INCLUDE DETAILED PROCEDURES FOR THE ADEQUATE FLUSHING, DISINFECTION, AND MICROBIOLOGICAL TESTING OF ALL WATER MAINS. ON ALL NEW AND EXTENSIVE DISTRIBUTION SYSTEM CONSTRUCTION, EVIDENCE OF SATISFACTORY DISINFECTION SHALL BE PROVIDED TO THE DIVISION. SAMPLES FOR COLIFORM ANALYSES SHALL BE COLLECTED AFTER DISINFECTION IS COMPLETE AND THE SYSTEM IS REFILLED WITH DRINKING WATER. A STANDARD HETEROTROPHIC PLATE COUNT IS ADVISABLE. THE USE OF WATER FOR PUBLIC DRINKING WATER PURPOSES SHALL NOT COMMENCE UNTIL THE BACTERIOLOGIC TESTS INDICATE THE WATER IS FREE FROM CONTAMINATION.
13. ALL TYPES OF INSTALLED PIPE SHALL BE PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD C600-10.

- 1 EXISTING 6" WATERLINE
- 2 LOCATE END OF EXISTING WATERLINE. CONFIRM SIZE AND TYPE OF EXISTING. CONNECT TO EXISTING TEE & INSTALL REDUCER IF NECESSARY. SEE DETAIL A2, SHEET C-5.1 FOR TRENCHING & DETAIL A4, SHEET C-5.1 FOR JOINT RESTRAINTS.
- 3 REMOVE PORTION OF EXISTING 2" WATERLINE. CONNECT END OF EXISTING 6" PVC WATERLINE WITH 8" MJ x TAPPED FLANGE, AND JOINT RESTRAINTS AS INDICED IN DETAIL A4, SHEET C-5.1.
- 4 PROPOSED 8" PVC C-900, DR18 WATERLINE. SEE DETAIL A2, SHEET C-5.1 FOR TRENCHING & DETAIL A4, SHEET C-5.1 FOR JOINT RESTRAINTS.
- 5 PROPOSED 3" WATER SERVICE LINE & METER SET. SEE DETAIL C2, SHEET C-5.1. ~~CONFIRM WATER METER SERVICE SIZE WITH HILDALE CITY.~~
- 6 INSTALL 4" FIRE SUPPRESSION LINE. CONNECT TO MAIN WITH 4" x 8" REDUCER AND VALVE IN STREET. CAP FIRE SUPPRESSION LINE WITH BOLTED END CAP.
- 7 PROPOSED FIRE HYDRANT ASSEMBLY PER DETAIL B2, SHEET C-5.1.
- 8 INSTALL 20' OF NEW 8" PVC WATERLINE WITH BOLTED END CAP AT END
- 9 INSTALL 8" CROSS WITH 8" GATE VALVES ON EACH END
- 10 INSTALL 8" GATE VALVE ON NORTH END OF TEE
- 11 LOCATE END OF EXISTING WATERLINE. CONFIRM SIZE AND TYPE. INSTALL 8" TEE WITH GATE VALVES IN EACH END. INSTALL REDUCER ON BRANCH END AS NEEDED DEPENDING ON SIZE OF EXISTING WATERLINE.
- 12 EXISTING 2" WATERLINE

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HILDALE CITY	
INNOVATION CENTER WATERLINE EXTENSION	
BID SCHEDULE EXHIBIT	
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