

UTILITY CONSTRUCTION

GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.

2. THE EXISTING WATER UTILITIES BELONG TO THE CITY OF HENDERSONVILLE AND THE EXISTING SEWER UTILITIES BELONG TO CANE CREEK WATER & SEWER DISTRICT.

3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.

4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.

5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

6. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.

7. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.

8. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.

9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

CONSTRUCTION SEQUENCING:

1. INSTALL NEW WATER LINE FROM -WL2- STA. 10+00 TO 21+60±. TEST, DISINFECT WATER LINE, AND MAKE TEMPORARY CONNECTION TO EXISTING WATER LINE. COORDINATE ALL WORK WITH TRAFFIC CONTROL DESIGN.

2. ONCE ROADWAY WORK ON NORTH SIDE OF OLD AIRPORT ROAD HAS CREATED A NEW LANE FOR TRAFFIC, INSTALL WATER LINE FROM -WL2- STA. 21+60± TO 29+00±. TEST, DISINFECT WATER LINE, AND MAKE TEMPORARY CONNECTION TO EXISTING WATER LINE. COORDINATE WATER LINE CONSTRUCTION WITH RETAINING WALL CONSTRUCTION.

3. INSTALL REMAINING WATER LINE WORK EAST OF -WL2- STA. 29+00± IN COORDINATION WITH TRAFFIC CONTROL FOR ROADWAY CLOSURE.

4. INSTALL NEW 16" WATER LINE ACROSS CULVERT NEAR -WL3- STA. 17+00± IN COORDINATION WITH NEW CULVERT INSTALLATION.

5. SEWER INSTALLATION AT JONES CIRCLE SHALL BE COORDINATED WITH TRAFFIC CONTROL DESIGN.

PROJECT SPECIFIC NOTES:

1. WATER LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF HENDERSONVILLE STANDARD DETAILS AND THE PROJECT SPECIAL PROVISIONS.

2. SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH MSD OF BUNCOMBE COUNTY DETAILS AND THE PROJECT SPECIAL PROVISIONS.

3. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PIPELINE OCCUPANCY OF RAILROAD PROPERTY FROM BLUE RIDGE SOUTHERN RAILROAD. REFER TO EXECUTED RAILROAD ENCROACHMENT.

4. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS IS FOR THE USE OF THE CONTRACTOR IN PROVIDING PROTECTION FOR THE UTILITIES DURING CONSTRUCTION OPERATIONS. NCDOT, DESIGN CONSULTANT AND/OR AGENT SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF LOCATION, SIZE, DEPTH, OR COMPLETENESS OF THE INFORMATION. THE CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

5. THE CONTRACTOR SHALL SUPPORT AND PROTECT ANY EXISTING UNDERGROUND UTILITIES ENCOUNTERED DURING TRENCH EXCAVATION AND/OR PIPE INSTALLATION.

6. ALL SHORING SHALL BE IN ACCORDANCE WITH OSHA TRENCHING STANDARDS PART 1926, SUBPART P, AS AMENDED TO DATE.

7. THE CONTRACTOR SHALL LIMIT THE LANE CLOSURES INSTALLING THE 8", 10", AND 16" WATER LINES. SEE TRAFFIC CONTROL PLANS.

8. ANY BENDS OF WATER PIPE NOT SPECIFICALLY CALLED OUT WITH A 90, 45, 22.5, OR 11.25 DEGREE BEND FITTING, SHALL BE CONSTRUCTED BY A RADIAL BEND OF THE PIPE AS NOTED ON THE PLANS OR IN ACCORDANCE WITH THE PIPE MANUFACTURER'S SPECIFICATIONS (WHICHEVER IS MORE STRINGENT) - OR A COMBINATION OF BEND FITTINGS AND A RADIAL BEND OF THE PIPE.

9. THE CITY OF HENDERSONVILLE SHALL BE NOTIFIED MIN. TWO WEEKS PRIOR TO THE BEGINNING OF WATER WORK.

10. CANE CREEK WATER & SEWER DISTRICT SHALL BE NOTIFIED MIN. TWO WEEKS PRIOR TO THE BEGINNING OF SEWER WORK.

11. ALL FITTINGS SHALL BE MECHANICAL JOINT WITH MEGA-LUG RESTRAINT OR EQUAL.

12. WATER AND SEWER LINES ARE TO REMAIN ACTIVE DURING CONSTRUCTION. IF THIS IS NOT POSSIBLE, THEN THE CONTRACTOR SHALL FOLLOW PROCEDURES AS OUTLINED IN THE SPECIAL PROVISIONS REGARDING OUTAGE AND TEMPORARY WATER SERVICE.

13. EXISTING WATER METERS TO REMAIN SHALL BE RECONNECTED TO THE PROPOSED WATER MAIN WITH NEW WATER SERVICE LINES.

14. CONTRACTOR TO RETURN ALL EXISTING WATER METERS AND FIRE HYDRANTS MARKED FOR REMOVAL TO THE UTILITY OWNER. EXISTING WATER LINES AND VALVES NO LONGER IN SERVICE SHALL BE ABANDONED IN PLACE OR REMOVED AS NEEDED.

15. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS CONTRACTOR'S RESPONSIBILITY TO HAVE BORE/RECEIVING PIT DESIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER, WETLANDS, OR BUFFER ZONES.

16. PRIOR TO FINAL ACCEPTANCE OF THE WATER LINE WORK, CONTRACTOR SHALL PROVIDE SURVEYED AS-BUILT RECORD DRAWINGS.

17. ANY PROPOSED CHANGES TO WATER LINE WORK SHALL BE APPROVED IN ADVANCE AND IN WRITING BY THE CITY OF HENDERSONVILLE.

18. BEGIN WATER LINE REPLACEMENT AT WESTERN END (US25) LAYING EAST ACROSS US25.

19. WHEN OPEN-CUT INSTALLING WATER LINE ACROSS US25, CONTRACTOR MAY BE REQUIRED TO USE SHORTER LENGTHS OF PIPE AND CASING TO COMPLY WITH TRAFFIC CONTROL PLANS.

20. FOR WORK IN PAVEMENTS, CONTRACTOR SHALL BACKFILL OR PLATE ALL OPEN EXCVATIONS AT THE END OF EACH WORK DAY.

21. ALL SANITARY GRAVITY SEWER SHALL HAVE TYPE 5 TRENCH.

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