

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 2024.
2. THE EXISTING WATER AND SEWER UTILITIES BELONG TO CHARLOTTE WATER. THE CHARLOTTE WATER REPRESENTATIVE IS LOGAN HEDRICK. CONTACT LOGAN AT (980) 253-4390.
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. 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.
7. 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.
8. 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.
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.
- GRAVITY SEWER SEQUENCE OF CONSTRUCTION:
1. INSTALL TEMPORARY BYPASS PUMPING FROM UPSTREAM MANHOLES TO DOWNSTREAM MANHOLES.
2. PLUG EXISTING SANITARY GRAVITY SEWER LINES AT BYPASS PUMPS.
3. REMOVE EXISTING SANITARY GRAVITY SEWER AND MANHOLES AS NECESSARY.
4. INSTALL SANITARY GRAVITY SEWER AS INDICATED ON DRAWINGS WITH MANHOLES.
5. BACKFILL NEW SANITARY GRAVITY SEWERS.
6. TEST NEW SANITARY GRAVITY SEWERS IN ACCORDANCE WITH CLTWATER STANDARDS.
7. REMOVE TEMPORARY BYPASS PUMPING AND PLACE NEW GRAVITY SEWERS INTO OPERATION AFTER APPROVAL BY CLTWATER.

PROJECT SPECIFIC NOTES:

1. IF THE PROPOSED WATER AND/OR SANITARY SEWER MAIN IS INSTALLED WITHIN 12" IN ANY DIRECTION (VERTICALLY OR HORIZONTALLY) OF A GAS MAIN, THEN THE CONTRACTOR SHALL CALL PIEDMONT NATURAL GAS COMPANY AT 704-525-5585 AND INFORM THEM.
2. WATER AND SEWER LINES ARE TO REMAIN ACTIVE DURING CONSTRUCTION. IF THIS IS NOT POSSIBLE, THEN THE CONTRACTOR SHALL FOLLOW THE SPECIAL PROVISIONS REGARDING OUTAGE, TEMPORARY SERVICE, AND BYPASS PUMPING.
3. ALL PROPOSED WATER LINES SHALL BE RESTRAINED JOINT PRESSURE CLASS 350 DUCTILE IRON PIPE.
4. LAY PIPE STRAIGHT IN ALIGNMENT AND GRADIENT OR FOLLOW TRUE CURVES AS NEARLY AS POSSIBLE. DO NOT DEFLECT ANY JOINT MORE THAN HALF THE MAXIMUM DEFLECTION RECOMMENDED BY THE MANUFACTURER.
5. CONTRACTOR SHALL ADHERE TO SECTION 1530 "ABANDON OR REMOVE UTILITIES" FOR ABANDONEMENT OF EXISTING WATER AND SEWER LINES.
6. PROPOSED WATER LINES SHALL HAVE TYPE 4 BEDDING.
7. WATER VALVES ARE TO BE OPERATED BY CHARLOTTE WATER OPERATIONS STAFF.
8. ALL PROPOSED 6", 8", 12" AND 16" VALVES SHALL BE RESILIENT SEATED GATE VALVES. FOR 16" VALVES WITH VERTICAL ORIENTATION, DIRECT BURIED, WITH 20.5 INCH CLEAR OPENING VALVE BOX. FOR 16" VALVES WITH HORIZONTAL ORIENTATION, DIRECTED BURIED, SHALL HAVE OPERATOR/NUT LOCATED INSIDE A MANHOLE.



Stantec

Stantec Consulting Services Inc.

521 E. Morehead St

Suite 425

Charlotte, NC 28202

Tel. (704) 329-0900

Fax. (704) 329-0905

www.stantec.com

License No. F-0672

PROJECT REFERENCE NO.

W-5710X

SHEET NO.

UC-3

DESIGNED BY: TK

DRAWN BY: TK

CHECKED BY: XMD

APPROVED BY:

REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151

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9/7/2025

PAOLIN DENG

ENGINEER

UTILITY CONSTRUCTION PLANS ONLY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TRANSYSTEMS

1 Glenwood Avenue
Raleigh, NC 27603
Tel: 919.789.9977
Fax: 919.789.9591
License: F-0453