

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 UTILITIES BELONG TO THE CITY OF CONCORD AND WATER AND SEWER AUTHORITY OF CABARUS COUNTY (WSACC).

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.

PROJECT SPECIFIC NOTES:

1. PER CITY OF CONCORD CODE OF ORDINANCE CHAPTER 62, ARTICLE 3, SECTION 62-98 (2) ALL MATERIALS, EQUIPMENT, LABOR, AND WORKMANSHIP ASSOCIATED WITH PUBLIC WATER AND /OR SEWER EXTENSION AND/OR MODIFICATION SHALL BE IN ACCORDANCE WITH AND SUBJECT TO THE WATER AND SEWER AUTHORITY OF CABARRUS COUNTY'S STANDARD SPECIFICATIONS; THE CITY OF CONCORD'S ORDINANCES, POLICIES, AND STANDARD SPECIFICATIONS, AND THE NORTH CAROLINA ADMINISTRATIVE CODE FOR WASTEWATER COLLECTION AND WATER DISTRIBUTION SYSTEMS. IN THE EVENT OF CONFLICT BETWEEN THE WATER AND SEWER AUTHORITY OF CABARRUS COUNTY'S STANDARD SPECIFICATIONS; THE CITY OF CONCORD'S ORDINANCES, POLICIES, AND STANDARD SPECIFICATIONS, OR THE NORTH CAROLINA ADMINISTRATIVE CODE, THE MORE RESTRICTIVE REQUIREMENTS SHALL APPLY.

2. REVIEW AND APPROVAL OF THE PLANS DOES NOT RELIEVE THE OWNER, CONTRACTOR, OR DEVELOPER FROM MEETING THE REQUIREMENTS OF THE CITY OF CONCORD'S OR CABARRUS COUNTY ORDINANCES, POLICIES, AND STANDARD SPECIFICATIONS, (AS APPLICABLE), CONCORD WATER & SEWER POLICIES AND TECHNICAL SPECIFICATIONS, THE STANDARD SPECIFICATION FOR WASTEWATER COLLECTION & WASTE DISTRIBUTION FOR CABARRUS COUNTY (WSACC MANUAL) AND ANY OTHER LOCAL, STATE, AND FEDERAL REGULATIONS & APPROVALS.

3. THE CONTRACTOR MUST CONTACT THE WATER AND SEWER AUTHORITY OF CABARRUS COUNTY (WSACC) AT 704-786-1783 AT LEAST 24 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY RELATED TO SANITARY SEWER SYSTEMS.

4. THE EXISTING WATER MAIN VALVE RIMS AND STEMS AND THE EXISTING SEWER MAIN MANHOLES RIMS ARE TO BE RAISED OR LOWERED TO FINAL GRADE, AS APPLICABLE AND AT LEAST 3-FT OF GROUND COVER IS TO BE MAINTAINED OVER THE EXISTING UTILITIES AT ALL TIMES PER THE CITY OF CONCORD CODE OF ORDINANCE CHAPTER 62, ARTICLE 3, SECTION 62-98.

5. PER THE CITY OF CONCORD CODE OF ORDINANCE CHAPTER 62, ARTICLE 3, SECTION 62-98- THE FOLLOWING MINIMUM SEPARATIONS MUST BE INDICATED, UNLESS OTHERWISE APPROVED BY THE CITY.
 A MINIMUM HORIZONTAL SEPARATION OF FIVE FEET SHALL BE MAINTAINED BETWEEN ANY TYPE OF MAINTENANCE OBSTRUCTION AND THE CITY'S WATER DISTRIBUTION LINES, WASTEWATER COLLECTION LINES, AND ASSOCIATED APPURTENANCES, UNLESS AN EXCEPTION IS GRANTED. GREATER SEPARATION DISTANCES MAY BE REQUIRED AS SPECIFIED BY FEDERAL, STATE, OR LOCAL REGULATIONS.

6. A MINIMUM VERTICAL SEPARATION OF TWO FEET SHALL BE MAINTAINED BETWEEN ANY TYPE OF MAINTENANCE OBSTRUCTION, INCLUDING BUT NOT LIMITED TO ANY OTHER UTILITY PROVIDER'S LINES OR EQUIPMENT, AND THE CITY WATER DISTRIBUTION LINES, WASTEWATER COLLECTION LINES, AND ASSOCIATED APPURTENANCES, UNLESS AN EXCEPTION IS GRANTED. IF AN EXCEPTION IS GRANTED, A MINIMUM VERTICAL SEPARATION OF ONE FOOT MUST BE MAINTAINED AND THE CITY WATER DISTRIBUTION LINES, WASTEWATER COLLECTION LINES, AND ASSOCIATED APPURTENANCES SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE OR AN APPROVED FERROUS MATERIAL WITH JOINTS THAT ARE EQUIVALENT TO POTABLE WATER MAIN STANDARDS FOR A DISTANCE OF TEN FEET ON EITHER SIDE OF THE POINT OF CROSSING. GREATER SEPARATION DISTANCES MAY BE REQUIRED AS SPECIFIED BY FEDERAL, STATE, OR LOCAL REGULATIONS.

7. A MINIMUM HORIZONTAL SEPARATION OF TEN FEET SHALL BE MAINTAINED BETWEEN THE CITY WATER DISTRIBUTION SYSTEM AND WASTEWATER COLLECTION LINES, AND ASSOCIATED APPURTENANCES, UNLESS AN EXCEPTION IS GRANTED.

8. THE CONTRACTOR SHALL NOTE THE GRAPHICAL REPRESENTATION OF VALVE, TEE, HYDRANT, METER, ETC. LOCATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY.

9. CONTRACTOR SHALL OBTAIN THE LOCATION AND ELEVATIONS OF EXISTING WATER AND SEWER PIPES; AND DENOTE IN AS-BUILT AND RECORD DRAWINGS THE EXISTING MATERIAL TYPE AND LINEAR FOOTAGE RERQUIREMENTS AT ALL PROPOSED CROSSINGS BETWEEN THE CITY'S PUBLIC MAINS AND ALL OTHER UTILITIES, STORM SEWER, AND/OR OTHER MAINTENANCE OBSTRUCTIONS AND THE FINAL GRADE ELEVATION AT EACH CROSSING FOR RECORDS.

10. CONTRACTOR SHALL NOTIFY THE DESIGNATED CITY OF CONCORD CONSTRUCTION INSPECTOR AND THE PROFESSIONAL ENGINEER OF ANY UTILITY CONFLICTS WHERE THE CITY OF CONCORD'S MINIMUM GROUND COVER AND UTILITY SEPARATIONS CANNOT BE MET TO OBTAIN RESOLUTION AND/OR A FORMAL FIELD REVISION REVIEWED AND APPROVAL BY THE CITY OF CONCORD.

11. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS, RECORD DRAWINGS AND CERTIFICATION OF THE CONSTRUCTED PUBLIC WATER AND SEWER UTILITY MODIFICATION/EXTENSIONS IN COMPLIANCE WITH THE CITY OF CONCORD CODE OF ORDINANCE CHAPTER 62, ARTICLE 3, SECTION 62-85 THROUGH 62-93.

PROJECT REFERENCE NO.	SHEET NO.
B-5808	UC-3
DESIGNED BY: NKA	
DRAWN BY: NKA	
CHECKED BY: ASV	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



12. RELOCATED AND/OR ADJUSTED WATER SERVICES, SEWER LATERALS, BACKFLOW UNITS AND OTHER APPURTANANCES SHALL COMPLY WITH THE THE CITY'S STANDARDS, NC PLUMBING CODE AND CABARRUS COUNTY BUILDING INSPECTION PERMIT REQUIREMENTS. BACKFLOW UNITS SHALL BE RECERTIFIED BY A LICENSED CERTIFIED BACKFLOW TECHNICIAN AND REPORTS SHALL BE SUBMITTED TO THE CITY THROUGH THE ONLINE REPORTING PORTAL LOCATED ON THE CITYOF CONCORD'S WATER RESOURCES BACKFLOW PREVENTION WEB PAGE.

13. THE CONTRACTOR AFTER RECEIVING AUTHORIZATION FROM THE DESIGNATED CITY OF CONCORD CONSTRUCTION INSPECTOR AND WATER RESOURCES SHALL INCORPORATE INSERTION VALVES AND MUST MAKE EVERY EFFORT TO LIMIT THE DURATION OF ANY WATER SUPPLY DISRUPTION/LOSS TO 6 HOURS OR LESS. ANY PLANNED DISRUPTION OF WATER SERVICE/SERVICE DISRUPTION MUST BE SCHEDULED DURING OFF PEAK DEMAND HOURS BETWEEN MIDNIGHT TO 6:00AM AND IN CLOSE COORDINATION WITH NCDOT AND THE CITY OF CONCORD.

14. THE CONTRACTOR SHALL NOTIFY THE ASSIGNED CITY OF CONCORD CONSTRUCTION INSPECTOR AT LEAST 48 HOURS IN ADVANCE OF ANY SCHEDULED WATER SERVICE LOSS OR DISRUPTION, AND PROVIDE WRITTEN NOTIFICATION ON A CITY APPROVED FORM TO EACH CITY OF CONCORD CUSTOMER THAT SPECIFIES THE DAY AND DURATION OF ANY SCHEDULED WATER SERVICE LOSS OR DISRUPTION.

15. CONTRACTOR SHALL UTILITZE THE FOLLOWING CITY WATER RESOURCES CONTACT INFORMATION FOR NOTIFICATION OF EXTENDED SERVICE DISRUPTIONS AND/OR UNAUTHORIZED WATER DISTRIBUTION BREAKS AND/OR WASTEWATER SSOS:
 FOR WATER SERVICE ISSUES: ANTHONY ALLMAN, WATER RESOURCES OPERATIONS MANAGER, 704-920-5355 (OFFICE) OR 704-202-4966 (CELL)
 FOR WASTEWATER SPILLS (SSO): CHAD GRIMM, WASTE WATER SUPERINTENDENT, 704-920-5355 (OFFICE) OR 704-796-4114 (CELL). FOR AFTER BUSINESS HOURS, PLEASE CALL CUSTOMER SERVICE AT 704-920-5555