

Determination of Minor Construction Activity

North Carolina Division of Water Infrastructure

Project Applicant: Winston-Salem/Forsyth County City/County Utilities
Date: August 19, 2014
Project Number: CS370399-09
Estimated Project Cost: \$14,499,984
Estimated Funding Amount: \$9,399,200

Project Description: The proposed project will repair and rehabilitate portions of the collection system to prevent sanitary sewer overflows (SSOs) and control inflow and infiltration (I&I). Nine separate areas have been identified for repair and replacement. For the first two project areas, a comprehensive sanitary sewer evaluation survey (SSES) has already been completed and deficiencies have been clearly identified and prioritized for rehabilitation and repair. For the remaining seven project areas, the project will include assessment of the areas to evaluate and prioritize needs. For these seven areas, lengths and types of repair/rehabilitation activities have been estimated based on previous experience with the collection system, but quantities, lengths, and methods may change.

The total project will include the following: (1) rehabilitation of approximately 57,890 linear feet (l.f.) of sewer of various diameters by CIPP (see project area descriptions below for specifics); (2) installation of approximately 1,245 l.f. of new sewer line due to rerouting and consolidation; (3) replacement of approximately 3,563 l.f. of existing sewer with new sewer pipe; (4) pipe bursting of approximately 47,875 l.f.; (5) 20 point repairs; (6) replacement of approximately 1,520 service laterals; (7) replacement of approximately 28 existing manholes (one of which will also be relocated); (8) rehabilitation of 673 manholes; and (9) installation of approximately 10 new manholes. Details for each of the nine project areas are described below.

Project Area 1: Work in this area will include (1) rehabilitation of sewer lines via CIPP of approximately 1,088 l.f. of 12-inch sewer, approximately 2,269 l.f. of 30-inch sewer, and approximately 433 l.f. of 36-inch sewer; (2) rehabilitation of approximately 21 manholes; (3) cone replacement of approximately 17 manholes, (4) new installation of approximately 112 l.f. of 8-inch sewer, approximately 130 l.f. of 18-inch sewer, approximately 253 l.f. of 15-inch sewer, approximately 120 l.f. of 30-inch sewer; and (5) installation of approximately 10 new manholes.

Project Area 2: Work in this area will include (1) rehabilitation of sewer lines via CIPP of approximately 6,000 l.f. of 8-inch sewer and approximately 500 l.f. of 12-inch sewer; (2) pipe bursting approximately 30,150 l.f. of 6-inch to 8-inch sewer and approximately 600 l.f. of 8-inch to 8-inch sewer; (3) replacement of approximately 590 l.f. of 6-inch sewer with 8-inch sewer, approximately 135 l.f. of 8-inch sewer with pipe of the same diameter, and approximately 46 l.f. of 12-inch with pipe of the same diameter; (4) rehabilitation of approximately 274 manholes; (5) replacement of approximately 5 manholes; and (6) replacement of approximately 870 service laterals.

Project Area 3: Work in this area will include (1) rehabilitation of sewer lines via CIPP of approximately 3,200 l.f. of 8-inch sewer, approximately 1,500 l.f. of 10-inch sewer, approximately 800 l.f. of 12-inch sewer, and approximately 800 l.f. of 15-inch sewer; (2) pipe bursting approximately 15,000 l.f. of 6-inch to 8-inch sewer, approximately 1,200 l.f. of 8-inch to pipe of the same diameter, approximately 500 l.f. of 10-inch to pipe of the same diameter, approximately 200 l.f. of 12-inch to pipe of the same diameter, and approximately 225 l.f. of 15-inch to pipe of the same diameter; (3) replacement of approximately 487 l.f. of 6-inch sewer with 8-inch sewer, 130 l.f. of 8-inch sewer with pipe of the same diameter, 115 l.f. of 10-inch sewer with pipe of the same diameter, 60 l.f. of 12-inch sewer with pipe of the same diameter, and 100 l.f. of 15-inch sewer with pipe of the same diameter; (4) rehabilitation of 100 manholes; (5) replacement of 5 manholes; and (6) replacement of approximately 620 service laterals.

Project Area 4: Work in this area will include (1) rehabilitation of sewer lines via CIPP of approximately 3,300 l.f. of 8-inch sewer; (2) replacement of approximately 300 l.f. of existing 8-inch sewer with new 8-inch sewer; and (3) rehabilitation of approximately 27 manholes.

Project Area 5: Work in this area will include (1) rehabilitation of sewer lines via CIPP of approximately 12,000 l.f. of 8-inch sewer; (2) replacement of approximately 1,000 l.f. of existing 8-inch sewer with new 8-inch sewer; and (3) rehabilitation of approximately 101 manholes.

Project Area 6: Work in this area will include (1) rehabilitation of sewer lines via CIPP of approximately 6,000 l.f. of 8-inch sewer; (2) replacement of approximately 600 l.f. of existing 8-inch sewer with pipe of the same diameter; and (3) rehabilitation of approximately 58 manholes.

Project Area 7: Work in this area will include (1) replacement of approximately 320 l.f. of 8-inch sewer and approximately 310 l.f. of 12-inch sewer to reroute to a new manhole; and (2) replacement of a 20-ft deep manhole and relocation outside of Monarcas Creek.

Project Area 8: Work in this area will include (1) rehabilitation of sewer lines via CIPP of approximately 8,000 l.f. of 8-inch sewer; (2) completion of approximately 10 point repairs; (3) replacement of approximately 15 laterals; and (4) and rehabilitation of 38 manholes.

Project Area 9: Work in this area will include (1) rehabilitation of sewer lines via CIPP of approximately 12,000 l.f. of 8-inch sewer; (2) completion of approximately 10 point repairs; (3) replacement of approximately 15 laterals; and (4) rehabilitation of approximately 54 manholes.

The above named applicant intends to apply for assistance from the State Revolving Fund program to construct the wastewater facilities described above. The North Carolina Division of Water Infrastructure (DWI) has conducted a review of the project in accordance with the procedures (NCAC 15A Subchapter 1C) for conformance with the North Carolina Environmental Policy Act. The DWI has determined that this project is below the minor construction activities threshold outlined in 15A NCAC 01C .0408; therefore, the project is exempt from inter-agency review, and the preparation of additional environmental documents is not required.

This determination shall become effective upon its distribution by DWI and will be available on the DWI website (<http://portal.ncdenr.org/web/wq/ifs/er/fonsis>). This determination can be revoked at any time adverse information is made available. The documentation to support this decision will be on file with the North Carolina Department of Environment and Natural Resources, Division of Water Infrastructure, Infrastructure Finance Section, and is available for public scrutiny upon request.

Comments concerning this decision may be addressed to Ms. Jennifer Haynie, Environment and Special Projects Unit, Division of Water Infrastructure, 1633 Mail Service Center, Raleigh, North Carolina 27699, or she can be reached by phone at (919) 707-9173.

Sincerely,

A handwritten signature in black ink, appearing to read 'K. Colson', with a long horizontal flourish extending to the right.

Kim H. Colson, P.E., Director
Division of Water Infrastructure