**EXHIBIT A**

**TASK ORDER**

This Task Order pertains to an Agreement by and between **UNION COUNTY** ("OWNER"), and **WK Dickson & Co., LLC. d/b/a Ardurra Group North Carolina** (formerly known as W.K. Dickson & Co., Inc.) ("ENGINEER"), dated **January 1, 2024,** ("the Agreement"). ENGINEER shall perform services on the project described below as provided herein and in the Agreement. This Task Order shall not be binding until it has been properly signed by both parties. Upon execution, this Task Order shall supplement the Agreement as it pertains to the project described below.

TASK ORDER NUMBER: 8678-~~03~~-05 (all references to Task Order 8678-03 herein shall be deemed to refer to Task Order 8678-05)

Int _____

RELATED RFQ NUMBER: 2024-024

PROJECT NAME: Waxhaw South Sanitary Sewer Replacement & Rehabilitation Final Design

PART 1.0 PROJECT DESCRIPTION

The ENGINEER was retained by the OWNER under Task Order 2021-01 to provide preliminary design services for the replacement of the OWNER's small diameter "septic tank effluent gravity" (STEG, or "grey water") sanitary sewer system in Waxhaw, NC. The OWNER has requested this Task Order 8678-03 from the ENGINEER to complete the design for the portion of the sanitary sewer system located South of the CSX railroad in downtown Waxhaw and to provide associated permitting and bidding services for the project. As determined through the deliverables provided under Task Order 2021-01, and previous analysis and planning efforts, the final design will consist of replacing approximately 4,210 linear feet of 4-inch and 3,480 linear feet of 6-inch sewer mains with 8-inch sewer mains. The method of construction for the replacement will be investigated and recommended through preliminary engineering efforts and associated deliverables outlined herein.

The ENGINEER shall provide the scope of services outlined by the following phases for the fees listed herein.

PART 2.0 SCOPE OF SERVICES

The detailed scope of services for Basic Services is as follows:

Closed Circuit Television (CCTV) Inspection

The ENGINEER will provide CCTV inspection of the existing sanitary sewers on an as needed basis. This service will be utilized as a means of investigation of select portions of the existing gravity sewer system in any scenario where pipeline configuration, alignments, and/or conditions need to be clarified to complete the final design of the project. Scenarios requiring CCTV investigations may include, but are not limited to, gravity sewers in alignments that are not determinable via other available information, location of manholes that are paved over, buried, or under structures, service laterals (connecting to manholes) that contain multiple taps or serve multiple properties, or pipelines located in areas with unique surface restoration considerations. It is anticipated that only a small subset of the existing pipelines will warrant further investigation via CCTV.

ENGINEER's CCTV subconsultant will provide a crew equipped to conduct cleaning and CCTV operations at the direction of the ENGINEER on an hourly, not to exceed basis for up to three (3) ten (10) hour days, including mobilization. CCTV inspections will include the following:

2.1 Traffic control related to CCTV collection services only;

2.2 Pipeline cleaning (if needed) and CCTV of existing gravity sewer pipelines;

2.2.1 CCTV of pipelines with diameters of 6-inches or greater will be conducted utilizing crawler type CCTV camera technology and associated methods.

2.2.2 CCTV of pipelines with diameters less than 6-inches will be conducted using push camera technology and associated methods, and;

2.3 NASSCO certified reports (in PDF format) and digital video of CCTV.

Preliminary Engineering

As outlined above, the project will replace the existing "septic tank effluent gravity" (STEG) sewer system, which consists of small diameter (4 and 6-inch) gravity sewer pipelines, with 8-inch diameter pipelines. This means the system will be upgraded to meet the current minimum State mandated allowable pipeline diameter for a public wastewater collection system.

Replacement of an existing gravity sewer system within its existing alignment can be achieved by conventional open-cut construction methods, or by pipe bursting. Pipe bursting is a semi-trenchless pipe replacement technology that allows for the replacement and/or upsizing of existing pipelines with reduced trenching, surface impacts, and associated restoration

compared to open cut methods. ENGINEER will evaluate the implications of both construction methods and provide a comparative cost analysis, along with a recommended construction method.

Preliminary engineering services and deliverables include the following:

2.4 Review and inventory Task Order 2021-01 deliverables, which include the preliminary (30% complete) drawings, quantity takeoff, and associated opinions of probable construction cost (OPCs).

2.5 Updated OPCs for each construction method, yielding an OPC for open-cut construction and pipe bursting methods, reflective of current market conditions.

2.6 Regulatory outreach to gauge the acceptability of open-cut construction methods within the project area.

2.7 Technical memorandum presenting the analysis and results of the preliminary engineering effort, and the recommended construction method.

Field Survey Services and Base Mapping

The project area was surveyed during the preliminary engineering and design efforts provided under Task Order 2021-01. However, given the age of that data, ENGINEER anticipates some changes in field conditions and/or design approach that may require additional survey. Therefore, included herein are limited field survey and mapping services to be provided on an as-needed basis. The survey services proposed herein are budgeted on a time and materials basis with hourly not to exceed billing terms, for an hourly crew rate. Services of this Phase will be billed accordingly on an hourly, not-to-exceed (NTE) basis. The survey crew rate is $280 per hour, and ENGINEER has budgeted for up to forty (40) hours of survey crew time and associated deliverables on the project. Hourly survey services consist of the following:

2.8 Two-person field survey crew, including mobilization,

2.9 CAD support for Processing and CAD production of associated deliverable(s),

2.10 PLS supervision for review, QA/QC, and certification.

If needed, and provided herein, field survey and base mapping activities shall be suitable for design of the proposed gravity sewer replacements. The survey shall include sufficient data to produce a digital topographic corridor base map with contours at a minimum of 1-foot intervals. The base mapping will include the following data and/or parameters:

2.11 Horizontal datum based on NAD 83 and vertical datum will be based on NAVD 29. Utilizing project control, a baseline with inter-visible points will be established within the mapping limits of the project. The baseline points will have northing, easting and elevation data.

2.12 Information critical for design of the project including:

2.12.1 Elevations along roadway centerlines, edge of pavement, and curb lines (left and right) adequate to produce profiles suitable for accurate design.

2.12.2 Locations of storm drain pipes and structures including sizes, wing walls, shapes, material, condition, invert elevations and rim/grate elevations that cross or are parallel (within 20 feet of each side) to the proposed sewer line centerline.

2.12.3 Locations of existing sanitary sewer pipes, structures, including sizes, materials, invert elevations, and rim elevations, horizontal locations and inverts of clean-outs if they are visible.

2.12.4 Horizontal locations of all underground utilities and overhead utilities including poles, lines, boxes, fiber optic lines and existing utility easement boundaries, etc.

2.12.5 Elevations of major underground utilities that may impact or conflict with the design will be obtained on an as-needed basis and as directed by OWNER. These nondestructive excavations will be an additional service.

2.12.6 Horizontal locations of all underground non-gravity utilities within the proposed sewer line corridor (right-of-way). ENGINEER will attempt to obtain copies of as-built surveys for existing utilities prior to beginning surveying. The OWNER will assist in obtaining utility as-built drawings for water and sewer infrastructure.

2.12.7 Location of existing physical features which may be affected by the design including driveways, fences, walls, signs, planters, sheds, brick or stone mailboxes, rock outcroppings, etc.

2.12.8 Locations of flagged or delineated wetlands and jurisdictional streams.

2.12.9 Delineate streams and wetlands within the project boundary.

2.12.10 Locations of all stand-alone trees (i.e., those trees greater than, or equal to, 4-inch diameter) labeled with size and variety, ornamental trees of any size and any landscaped areas within the projected work area. Location of specimen trees and ornamental vegetation confined to surveyed corridor.

2.12.11 Locations of property irons to the extent necessary for purposes of locating the road right-of-ways.

2.12.12 When crossing existing roads or driveways, ENGINEER shall show the road name and number, rights-of-way widths (if known or applicable), located monuments, types of surfaces, and width of surfaces.

2.12.13 For properties subject to easement acquisition, ENGINEER will provide surveys of the easement and a survey of the parcel from which property is to be acquired. Surveys required for easement acquisition will be additional services.

2.13 Necessary office computations and mapping to construct baseline drawings of survey field data suitable for preparation of design plans including existing property lines, rights-of-way, easements, etc.

Design Services

2.14 Project Formulation: ENGINEER will evaluate and coordinate the activities associated with efficient execution of the project including project development and scoping.

2.15 Project Management and Administration:

2.15.1 ENGINEER shall prepare monthly invoices for its services in a format acceptable to OWNER.

2.15.2 ENGINEER shall maintain a project cost accounting system throughout the life of the Project.

2.15.3 ENGINEER shall maintain an up-to-date schedule throughout the life of the Project.

2.16 Kick-Off Meeting: ENGINEER will conduct one (1) Kick-Off Meeting with OWNER (virtually, via Microsoft Teams) to discuss the Project objectives, review the preliminary design, and assess viable Project alternatives. ENGINEER will issue meeting minutes summarizing Kick-off Meeting.

2.17 Review Meetings: ENGINEER will meet with OWNER (virtually, via Microsoft Teams) at the 60% Submittal and the 90% Submittal.

2.18 Design (60% Submittal): Using the Preliminary Design survey and drawings developed under Task Order 2021-01, ENGINEER will develop 60% plans and specifications for the proposed project as follows:

2.18.1 Prepare 60% complete plan and profile sheets for the sewer line (horizontal scale at 1:40 and vertical scale at 1:4).

2.18.2 Prepare 60% complete construction detail sheets and cover sheet.

2.18.3 Prepare 60% front end and technical specifications.

2.18.4 Prepare preliminary quantity and construction cost opinions.

2.18.5 ENGINEER shall make a digital submittal of the 60% plans. It is assumed that the OWNER will need no longer than 14 days to complete review and provide comments. ENGINEER shall meet with the OWNER to discuss 60% Submittal at the time of plan submittal.

2.19 Final Design (90%/100% Submittals): Using the 60% Submittal and comments provided by OWNER, ENGINEER will develop plans and specifications for the proposed project as follows:

2.19.1 Finalize horizontal and vertical geometry.

2.19.2 Prepare final design plan sheets including Cover Sheet, Plan and Profile Sheets of the sewer lines (horizontal scale at 1:40 and vertical scale at 1:4).

2.19.3 Prepare final construction documents showing the proposed collection system including:

a) Location of above ground visible obstructions which are within the street and other public or private rights-of-way.

b) Location of known existing water, sewer and storm drain lines within these rights-of-way which may be determined from existing maps, visible field features, and field survey completed under Task Order 2021-01 or as identified and confirmed otherwise by the OWNER.

c) ENGINEER has endeavored to locate under Task Order 2021-01, and shall show on the design drawings, underground utilities as marked or located by the appropriate utility company.

2.19.4 Prepare final standard sewer line details in accordance with OWNER'S standards, erosion control details, and street restoration details in accordance with prescribed criteria from OWNER, Town of Waxhaw, and NC DEQ standards. Prepare revisions based on markups from OWNER'S comments at 90% Submittal and 100% Submittal.

2.19.5 Prepare erosion and sedimentation control plan.

2.19.6 Development of project sequencing and phasing.

2.19.7 Prepare final quantity take-off, Bid Schedule, and ENGINEER'S Opinion of Probable Construction Cost. ENGINEER'S Opinion of Probable Construction Cost will be submitted with the 90% Submittal and updated prior to the Bid Opening.

2.19.8 Prepare plans, specifications including technical specifications suitable for permitting, and Special Conditions and assist the OWNER with preparation of other related documents for inclusion in the project specifications. The specifications shall adhere to OWNER standard contract documents and technical specifications.

2.19.9 Forward plans and specifications to OWNER for review and meet with OWNER to obtain final comments prior to permitting submittal.

Easement Acquisition (if applicable)

This project includes the replacement of existing gravity sewer pipelines and manholes, primarily, in their current alignment. Therefore, the project will predominantly be constructed within existing easements and rights-of-way. However, new easements will be obtained where needed. To assist with new easements, as necessary, the ENGINEER's professional survey sub-consultant will prepare survey maps of the proposed new easements to be acquired.

To efficiently prepare the maps of the proposed easements, the OWNER and the ENGINEER will work together as the project evolves and develops. The ENGINEER is not responsible for obtaining easements, rather the OWNER, OWNER's representative, or property owner pursuant to the OWNER's procedures, is responsible for obtaining easements.

Upon completion of property deed research, the field surveying of the portions of the properties of the project area and the preliminary engineering of the Project, including the establishment of any underground utility locations, the ENGINEER will identify the potential locations of the easements required for the Project. The OWNER and the ENGINEER will meet to review the preliminary engineering and potential easements. The OWNER and the ENGINEER will determine if any changes will be needed to the project or the proposed easements. Upon the OWNER approving the easement needs and the ENGINEER receiving authorization from the OWNER to prepare the surveys of the potential easements, the ENGINEER's sub-consultant will start the preparation of the surveys for the easements exhibits for the Project. The OWNER will compensate the ENGINEER for preparing the easement maps on the per-easement unit cost basis, as described below and in Part 6.0 and Attachment A, as referenced and incorporated herein, of this task order. If the number of required easements increases to more than the number included in this task order, additional easements will need to be added to the task order by amendment as an additional service.

Utilizing the finalized design plans prepared by the ENGINEER, the ENGINEER's professional survey subconsultant will prepare and submit to the OWNER an easement map for each affected property for the OWNER to use to begin obtaining the required easements for the Project. The ENGINEER's subconsultant will prepare the easement maps in accordance with the OWNER provided standards. The OWNER intends to acquire easements only where gravity sewer pipelines are being relocated and/or extended beyond their existing alignments and associated easements and/or outside the limits of the existing rights-of-way. Based upon review of the preliminary design deliverables and the current conditions of the project area, no new easement needs have been identified for this project. However, there are known scenarios where existing gravity sewer lines and manholes are located within existing building footprints. These scenarios will likely require sewer relocations and/or extensions, the extents of which will be evaluated and determined in the final design process. Based thereon, this task order includes easement exhibits

and associated field property boundary confirmation efforts for up to five (5) parcels. Services under the easement acquisition phase will be used only if necessary and billed on a not-to-exceed (NTE) basis, as outlined in Part 6 and Attachment A, as referenced and incorporated herein, of this task order.

The general requirements for the easement maps shall be as follows:

2.20 Easement maps will comply with the rules set forth by the NC Board of Examiners for Engineers and Surveyors and the NC mapping law;

2.21 Easement maps will be an exhibit to the easement agreements to be prepared by the OWNER and will be prepared on 8.5"x11" sized paper. (8.5"x14" may be utilized if necessary, based on scale/size of the subject parcel);

2.22 All easement maps shall have a general vicinity map, which shall identify the general location of the parcels where the easement(s) shall be proposed;

2.23 All easement maps shall have distinct line types for the easement lines, which will define the easement(s) location(s) on each parcel;

2.24 All easement maps will identify the applicable jurisdictional boundaries;

2.25 Each parcel requiring an easement will be identified with a parcel identification number for reference to the agreement to be prepared by the OWNER's attorney;

2.26 One digital copy in PDF format of the easement maps will be provided to the OWNER for use in obtaining the easements;

2.27 All easement plats shall be sealed by a Professional Surveyor, licensed in the project jurisdiction;

2.28 The OWNER will review the form and format of the proposed easement maps for compliance with recording requirements at the county register of deeds;

2.29 The OWNER shall be responsible for negotiating the easements with property owners; and,

2.30 The OWNER shall record the easement documents and return one (1) electronic (PDF) copy to the ENGINEER for our records

Permitting

Utilizing the 90% design plans, ENGINEER will prepare and submit applications for the permits necessary to allow for construction of the project. The ENGINEER cannot guarantee any regulatory approval or a timeframe in which that approval might be granted. The OWNER should be aware that significant delays can occur during regulatory review, and those delays may impact project schedule and scope of work. No such delays are currently anticipated, but should any materialize, the ENGINEER will present to the OWNER feasible alternatives for addressing

the matter causing the delay.

The ENGINEER shall be available to answer inquiries made by the various regulatory agencies during their reviews of the project. This shall include but not be limited to notification and/or application to:

2.31 Town of Waxhaw Right of Way Encroachment Agreement

2.31.1 ENGINEER shall submit a complete encroachment agreement application to the Town of Waxhaw. All correspondence and work necessary to process the permit shall be the ENGINEER's responsibility. A permit fee is not anticipated. Traffic Control Plans including road detours are not anticipated.

2.32 NCDOT Encroachment

2.32.1 ENGINEER shall submit a complete encroachment agreement application to the North Carolina Department of Transportation (NCDOT). All correspondence and work necessary to process the permit shall be ENGINEER's responsibility. A permit fee is not anticipated. Traffic Control Plans including road detours are not anticipated.

2.33 NC DEQ Fast Track Application

2.33.1 ENGINEER shall complete a permit application for the approval of construction of the proposed sewer lines. All correspondence with the NC DEQ office and other necessary work to process the permit will be the ENGINEER's responsibility. A permit fee of $600 is anticipated.

2.34 NC DEQ Department of Land Quality Land Disturbance/Erosion & Sedimentary Control Permit Application

2.34.1 It is anticipated that an erosion control permit will be required for this Project. The ENGINEER assumes one submittal and one resubmittal. The ENGEINEER will also attend one (1) in-person meeting at NCDEQ's Mooresville Office, if required. The ENGINEER proposes utilizing NCDEQ's Permitting Plan Review process and has budgeted accordingly herein. Permitting fees are anticipated; the fee for Permitting Review is a total of $100.00 per acre of disturbed area, assuming up to four acres pf disturbed area, therefore ENGINEER has budgeted up to $400.00 in permit fees. Wetland impacts are not anticipated.

2.35 Additional Permits: ENGINEER has not budgeted for the following permits given the strong likelihood that such permits will not be required for the scope of work:

2.35.1 FEMA – No-Rise Study/determination

2.35.2 NC DOT Driveway Application

2.35.3 CAMA – minor or major permit

2.35.4 Wetlands or Stream Mitigation

2.35.5 NC DEQ Division of Water Quality (Stormwater)

2.35.6 US Army Corps of Engineers Permit

2.35.7 Any other permitting efforts not specifically defined in this section

2.36 The ENGINEER shall be responsible for all anticipated permit fees as described above, which are included in the attached hourly fee estimate, Attachment A.

Bidding

2.37 Upon receiving the required approvals from the regulatory agencies and the OWNER, the ENGINEER will proceed with the Bidding portion of the project. Bidding will be conducted a single time and will be as one construction project with no prequalification of bidders. Bidding will consist of the following tasks:

2.37.1 Prepare final opinion of probable project construction costs.

2.37.2 Issue a public advertisement for the project to the OWNER (advertising in a newspaper and the cost of advertising in a newspaper is the OWNER's responsibility) and advertise in the ENGINEER's digital plan room.

2.37.3 Coordinate plans and specifications distribution for bidding purposes through the ENGINEER's digital plan room.

2.37.4 Respond to Contractor questions concerning the plans and specifications.

2.37.5 Prepare addenda in response to any Contractor request for clarification of the bid documents.

2.37.6 Assist the OWNER with the bid opening at the OWNER's offices.

2.37.7 Review the bids and make a recommendation of award to the OWNER.

2.37.8 Issue a Notice of Award to the successful Contractor.

## PART 3.0 ADDITIONAL SERVICES

The ENGINEER will perform additional services as requested by OWNER. If the need for such services is identified, ENGINEER will prepare an amendment to this Task Order or prepare a new Task Order for the OWNER's approval. Additional Services will be performed only upon execution of an amendment to this Task Order or new Task Order.

## PART 4.0 OWNER'S RESPONSIBILITIES

The OWNER shall be required to provide the ENGINEER any available utility as-builts in the project area.

## PART 5.0 PERIODS OF SERVICE

The ENGINEER will endeavor to complete within the time specified below:

| | |
|---|---|
| Preliminary Engineering | Month 1 – 2 |
| CCTV Inspection | Month 2 – 3 |
| Survey | Month 2 – 4 |
| Design | Month 2 – 5 |
| Permitting[1] | Month 6 – 8 |
| Bidding[2] | Immediate Upon Completion of Permitting |

Notes:

1. The ENGINEER will submit all project elements for permitting as shown in the above referenced time frame. The ENGINEER does not guarantee that permits and/or encroachments shall be issued within said time frame.
2. Bidding services shall be provided to the OWNER by the ENGINEER in accordance with the schedule as directed by the OWNER.

## PART 6.0 PAYMENTS TO ENGINEER

### 6.1 Payment for Basic Services

6.1.1 Basic Services. The OWNER shall pay the ENGINEER for services set forth in Part 2.0, Scope of Services, on a lump sum (LS) or per diem basis [hourly, not to exceed (HNTE)] basis, a fee not to exceed one hundred ninety-six thousand dollars ($196,000).

| Ph / Task No. | Description | Terms | Fee |
|---|---|---|---|
| 1 | CCTV Inspection | NTE | $18,000 |
| 2 | Preliminary Engineering | LS | $10,000 |
| 3 | Survey ervices (per diem, hourly not to exceed basis) | NTE | $14,000 |
| 4 | Final Design | LS | $101,000 |
| 5 | Easement Acquisition Support (up to 5) | NTE | $19,000 |
| 6 | Permitting | NTE | $20,000 |
| 7 | Bidding | LS | $14,000 |
| TOTAL | | | $196,000 |

6.1.2 For Lump Sum (LS) Fee work, a percentage of the Lump Sum Fee will be billed on the last day of each month. The percentage billed will be the percentage of work estimated to be completed as of the day of billing.

6.1.3 For per diem (hourly not to exceed) work, the ENGINEER will bill the OWNER based on the rates shown in Attachment A – Hourly Fee Estimate, included and referenced herein.

6.1.4 Additional Services. The OWNER shall pay the ENGINEER for additional services, which are not specifically called for in Part 2.0, Scope of Services, in accordance with the ENGINEER's standard rates.*

Int _____

6.1.5 Premium Rate Adjustment. Should OWNER request an accelerated schedule requiring ENGINEER to work overtime hours, then a 1.25 premium rate adjustment shall be applied to current hourly rates or lump sum fees as appropriate. Accelerated schedule and premium rate adjustment shall be approved as part of compensation at time of contract execution or by written amendment.

*Additional Services will only be incurred and paid upon written authorization from OWNER in accordance with Part 3.0 herein.

This Task Order is executed on this day of_____.

| OWNER: | ENGINEER: |
|---|---|
| UNION COUNTY<br>NORTH CAROLINA | W.K. Dickson & Co., LLC. d/b/a Ardurra Group<br>North Carolina |
| By:_____ | By:_____ |
| Name: Brian W. Matthews | Name: Jeremy L. Brashears, PE |
| Title: County Manager | Title: Client Services Director |
| Address: 500 N. Main Street, Ste 600<br>Monroe, NC 28112 | Address: 1213 W. Morehead Street, Ste 300<br>Charlotte, NC 28208 |

Approved as to Legal Form: BTI

This instrument has been preaudited in the manner required by the Local Government Budget and Fiscal Control Act.

_____
Deputy Finance Officer

# Attachment A - Hourly Fee Estimate

**Budget Table**
**Ardurra**
**Waxhaw South Sewer Replacement & Rehabilitation Final Design**

PLANtrax®

| ALL | ALL | Totals → | | | $ 196,000 | $ 152,975 | $ 43,025 | 782 | $ 195.62 | Labor Category | | | | | Other Direct Costs - detail | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase and/or Task Code | Task Description | Task Manager | Start Date | Finish Date | Total Cost | Total Labor Cost | Total ODC | Total Hours | Labor Ave Hourly Rate | Principal $ 290.00 | PM $ 230.00 | PE $ 205.00 | Sr Des $ 165.00 | Admin $ 100.00 | Travel | Permit Fees | Total ODC (excl subs) | TransState |
| | | | 1-Jun-25 | 31-Mar-26 | $ | $ | $ | | $ | Enter hours (not $) below | | | | | $ | $ | $ | $ |
| **01** | **CCTV Inspection ($18,000 NTE)** | | | | | | | | | | | | | | | | | |
| 01 | Subconsultant Coordination | | | | 3,200 | 3,115 | 85 | 16 | 194.69 | | 6 | 7 | | 3 | $ 85 | | $ 85 | |
| 01 | CCTV Crew - Up to 3 days total | | | | | | | | | | | | | | | | | |
| 01 | CCTV Only - $430/hr up to 20 hrs (NTE) | | | | 8,600 | | 8,600 | | | | | | | | | | | $ 8,600 |
| 01 | Clean & CCTV - $620/hr up to 10 hrs (NTE) | | | | 6,200 | | 6,200 | | | | | | | | | | | $ 6,200 |
| **02** | **Preliminary Engineering ($10,000 LS)** | | | | | | | | | | | | | | | | | |
| 02 | Review/inventory of TO 2021-01 Deliverables | | | | 3,515 | 3,515 | | 15 | 234.33 | 4 | 4 | 7 | | | | | | |
| 02 | Updated OPCs per Const Method w/market outreach | | | | 3,430 | 3,430 | | 16 | 214.38 | | 6 | 10 | | | | | | |
| 02 | PER/Tech Memo re. Const Methods and recommendation | | | | 3,055 | 2,970 | 85 | 14 | 212.14 | | 4 | 10 | | | | $ 85 | $ 85 | |
| **03** | **Survey Services ($14,000 NTE)** | | | | | | | | | | | | | | | | | |
| 03 | Sub Coord. QA/QC, Deliverable processing, etc. | | | | 2,800 | 2,760 | 40 | 14 | 197.14 | | 4 | 8 | | 2 | $ 40 | | $ 40 | |
| 03 | Survey Subconsultant, per diem, $280/hour up to 40 hrs | | | | 11,200 | | 11,200 | | | | | | | | | | | |
| **03** | **Engineering Design ($101,000)** | | | | | | | | | | | | | | | | | |
| 03 | Project Development & Preliminary Document Review | | | | 6,070 | 6,070 | | 26 | 233.46 | 4 | 16 | 6 | | | | | | |
| 03 | PM, Invoicing, Budget/Schedule Updates | | | | 9,220 | 9,220 | | 42 | 219.52 | 10 | 24 | | | 8 | | | | |
| 03 | Kickoff Meeting (virtual) | | | | 2,440 | 2,440 | | 11 | 221.82 | 1 | 4 | 6 | | | | | | |
| 03 | Meetings (2) | | | | 3,780 | 3,730 | 50 | 18 | 207.22 | | 8 | 6 | 4 | | $ 50 | | $ 50 | |
| 03 | Field Visit (1) | | | | 3,020 | 2,960 | 60 | 16 | 185.00 | | | 8 | 8 | | $ 60 | | $ 60 | |
| 03 | Review CCTV Deliverables | | | | 2,970 | 2,970 | | 14 | 212.14 | | 4 | 10 | | | | | | |
| 03 | 60% Design | | | | 20,320 | 20,270 | 50 | 114 | 177.81 | | 4 | 30 | 80 | | $ 50 | | $ 50 | |
| 03 | Final Design (90/100%) | | | | 21,480 | 21,480 | | 119 | 180.50 | 1 | 8 | 30 | 80 | | | | | |
| 03 | Front-end Contracting docs | | | | 2,370 | 2,370 | | 12 | 197.50 | | 9 | | | 3 | | | | |
| 03 | Technical Specifications | | | | 10,800 | 10,800 | | 53 | 203.77 | | 10 | 40 | | 3 | | | | |
| 03 | QTO/Bid Form based on Final Design | | | | 3,010 | 3,010 | | 16 | 188.13 | | 2 | 6 | 8 | | | | | |
| 03 | Owner Comments | | | | 5,400 | 5,400 | | 30 | 180.00 | | 2 | 8 | 20 | | | | | |
| 03 | Construction Cost Estimate (OPC) | | | | 1,940 | 1,940 | | 10 | 194.00 | | 2 | 4 | 4 | | | | | |
| 03 | QAQC | | | | 8,180 | 8,180 | | 38 | 215.26 | 10 | 6 | 10 | 10 | 2 | | | | |
| **04** | **Easement Acquisition ($19,000 NTE)** | | | | | | | | | | | | | | | | | |
| 04 | Sub Coord, QA/QC, Deliverable processing, etc. | | | | 3,500 | 3,500 | | 18 | 194.44 | | 5 | 10 | | 3 | | | | |
| 04 | Easement Exhibits - $1,400 ea x 5 parcels | | | | 7,000 | | 7,000 | | | | | | | | | | | |
| 04 | Parcel Iron Location - $1,700 per parcel x 5 parcels | | | | 8,500 | | 8,500 | | | | | | | | | | | |
| **05** | **Permitting ($20,000 NTE)** | | | | | | | | | | | | | | | | | |
| 05 | Waxhaw Encroachment | | | | 4,065 | 4,040 | 25 | 20 | 202.00 | | 6 | 12 | | 2 | | $ 25 | $ 25 | |
| | NCDOT Encroachment | | | | 1,990 | 1,990 | | 11 | 180.91 | | 2 | 6 | | 3 | | | | |
| 05 | DEQ Fast Track Sewer (FTA) | | | | 3,560 | 2,960 | 600 | 16 | 185.00 | | 2 | 8 | 4 | 2 | | $ 600 | $ 600 | |
| | NCDEQ E&SC | | | | 6,010 | 5,520 | 490 | 28 | 197.14 | | 6 | 16 | 4 | 2 | $ 90 | $ 400 | $ 490 | |
| 05 | Permitting Comments | | | | 4,375 | 4,375 | | 23 | 190.22 | | 4 | 8 | 11 | | | | | |
| **06** | **Bidding ($14,000 LS)** | | | | | | | | | | | | | | | | | |
| 06 | Advertisement | | | | 2,560 | 2,560 | | 13 | 196.92 | 1 | 4 | 4 | 2 | 2 | | | | |
| 06 | RFIs/Addenda (1) | | | | 4,290 | 4,290 | | 22 | 195.00 | | 6 | 10 | 4 | 2 | | | | |
| 06 | Bid Opening (1) | | | | 2,390 | 2,350 | 40 | 12 | 195.83 | | 4 | 6 | | 2 | $ 40 | | $ 40 | |
| 06 | Bid Evaluation, Tabulation, & Recommendation of Award | | | | 2,790 | 2,790 | | 14 | 199.29 | 1 | 6 | 4 | | 3 | | | | |
| 06 | Notice of Award | | | | 1,970 | 1,970 | | 11 | 179.09 | 1 | 2 | 4 | | 4 | | | | |
| | **Total** | | | | $ 196,000 | $ 152,975 | $ 43,025 | 782 | 195.62 | 33 | 170 | 294 | 239 | 46 | 415 | 1,110 | 1,525 | 14,800 |