

APPENDIX

Exhibit A

TASK ORDER

This Task Order pertains to an Agreement by and between UNION COUNTY*("OWNER"), and W.K. 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: 8678-07

*, NORTH CAROLINA

Int _____

RELATED RFQ NUMBER: 2024-021

PROJECT NAME: **821 Zone 16-inch Transmission Main on Old Providence Road**

PART 1.0 PROJECT DESCRIPTION:

OWNER has requested ENGINEER to develop design plans and specifications for permitting and bidding of a 16-inch Transmission Main on Old Providence Road. The project consists of approximately 3,900 linear feet of new 16-inch water transmission main in order to improve pressures and fire flow in the 821 Zone. The proposed water mains will be installed primarily via traditional open-cut construction methods, with bore and jack methods as needed. The existing 6-inch water main will be abandoned in place and all water main connections, and service connections, and hydrants will be transferred over to the new 16-inch main. The plans will be created using available GIS information, available as-built information, strip SUE and topographic existing conditions survey. The proposed project limits have been determined by the OWNER and are represented in a GIS based map prepared and provided by the OWNER to the ENGINEER. The proposed water main runs from the intersection of Old Providence Rd. and Hwy 75 to Rogers Pond subdivision near the intersection of Old Providence Rd. and Waxhaw Farms Rd.

PART 2.0 SCOPE OF BASIC SERVICES TO BE PERFORMED BY ENGINEER ON THE PROJECT:

Basic Services will be performed in accordance with Section 2.1 to 2.55 of the Task Order, with such services supplemented as provided herein.

Project Management, Planning– The ENGINEER will perform project management and administration activities throughout the design of the project, including the following:

- 2.1 The ENGINEER will evaluate and coordinate the activities associated with the efficient execution of the project including project development and scoping;
- 2.2 The ENGINEER's Project Manager shall coordinate and oversee all project activity on a regular basis related to all administrative and technical aspects of the project. In particular, the Project Manager will supervise and direct all staff related to the technical components of the project including design, construction document preparation, and specification development. In addition, the Project Manager will provide ongoing QA/QC of each of the tasks associated with the project quality control reviews to assess conformance to project scope, design criteria, as well as the project budget and schedule;
- 2.3 The ENGINEER will conduct a kick-off meeting with the OWNER (in a format to be selected by the OWNER) to discuss the project goals and objectives, assess alternatives, and gather any additional reasonably available relevant data. The ENGINEER will prepare minutes from the kick-off meeting which will outline items discussed, available data/information, and additional items that may need to be obtained for evaluating existing conditions and /or routes, and initial schedule submittal;
- 2.4 The ENGINEER shall provide project schedule and financial tracking as follows:
 - 2.4.1 The ENGINEER shall maintain a project schedule in a format acceptable to the OWNER. An updated schedule submittal will be provided to the OWNER upon request.
 - 2.4.2 The ENGINEER shall maintain a project cost accounting system throughout the life of the Project.
 - 2.4.3 The ENGINEER shall prepare monthly invoices for its services in a format acceptable to the OWNER.
- 2.5 The ENGINEER shall procure sub-consultants as necessary for the various disciplines associated with the project. Subconsultants shall provide technical oversight, review applicable submittals, and conduct inspections of the Work as needed. The following sub-consultants are anticipated to be utilized on this project:
 - 2.5.1 Surveying – To provide field survey and topographic mapping, as necessary for the ENGINEER's design purposes.
 - 2.5.2 Subsurface Utility Engineering (SUE) – Level B SUE will be conducted in a manner consistent with the scope of work and procedure for the identification and mapping of existing underground utilities within the project corridor, in accordance with the current publication of CI/ASCE 38 "Standard Guidelines for Investigating and Documenting Existing Utilities".
 - 2.5.3 Services of Professional Surveyor and Subsurface Utility Engineering sub-consultants, as described above, shall be billed on an "Hourly Not to

B
A,

Exceed" (HNTE), basis, as outlined in PART 6.0, below and Attachment A, as referenced and incorporated herein.

Int _____

- 2.6 If access to private property is required, the ENGINEER will notify the OWNER so that survey notification letters can be prepared and distributed. The OWNER will prepare and distribute survey notification letters.

Preliminary Engineering – The ENGINEER will provide preliminary (predesign) engineering services consisting of final scoping of the proposed project, development of initial opinions of probable construction cost, and discussions including meeting with the OWNER regarding the proposed project scope, extent, and intent. Preliminary Engineering is intended to further define the project requirements, deliverables, and schedule milestones, and shall include the following activities:

- 2.7 The ENGINEER will initiate a Right-of-Way Inquiry with NCDOT and use the resulting verification, together with available property deeds and boundary information, and North Carolina Case Law to evaluate the proposed alignment and anticipated easement needs.
- 2.8 The ENGINEER will send a qualified environmental scientist to visit the project site for a one-day field visit to conduct a preliminary evaluation and provide preliminary wetland and stream classification determination of initial field route of the waterline extension. The ENGINEER will notify the OWNER if wetland or stream impacts are anticipated and additional wetland, stream delineation, and surface survey services are expected, if necessary.
- 2.9 The ENGINEER will visit the project site to further review the proposed project scope and related project requirements. The ENGINEER will perform the initial field routing of the new waterline extension. The ENGINEER will conduct up to one (1) day of field investigation.
- 2.10 The ENGINEER will design a 16-inch transmission main in accordance with OWNER standards. The OWNER will provide the ENGINEER with the most current as-builts, GIS data, and hydrant flow test data, as is reasonably available for reference only. No transmission main sizing analysis or pipe size recommendations will be performed as part of this scope, as the size has been predetermined by the OWNER.

Field Survey and Base Mapping – The ENGINEER will provide a location survey of the proposed waterline extension corridor. The survey extents will be determined by the ENGINEER, depending upon the existing conditions and scope of work areas defined herein. The survey shall include sufficient data to produce a digital corridor base map with the location of all surface features, located underground utilities, existing site conditions and topographic information. SUE and Survey services rendered under this "Field Survey and Base Mapping" phase shall be provided on an HNTE basis, as described below and in Part 6.0 of this Task Order. The ENGINEER has budgeted for survey and SUE services for up to 3,900 linear feet of new water line. For areas not surveyed, base mapping shall be performed by the ENGINEER and shall

consist of available GIS base data from the OWNER to formulate sufficient data to produce a digital base map. The OWNER will provide the ENGINEER with the most current water & wastewater GIS data. The base mapping shall include the following:

- 2.11 Level B SUE – The ENGINEER’s Subconsultant will provide Level B SUE service to be performed in accordance with the standards as set by the American Society of Civil Engineers (ASCE) in publication CI/ASCE 38 (current release) Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data.
- 2.12 The ENGINEER’s sub-consultant will establish vertical and horizontal survey control using RTK GPS methods. Additional surveying control points will be established by conventional surveying methods.
 - 2.12.1 Horizontal datum based on NAD 83 and the vertical datum will be based on NAVD 88. 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.
- 2.13 The ENGINEER’s subconsultant will perform a location survey of the proposed waterline corridor. The survey will include, but not be limited to, the storm drainage, fences, sidewalks, concrete structures, above ground appurtenances, buildings, signs, storm drains, trees over 10-inches in diameter, and spot elevations as needed, etc. within the existing road right-of way and proposed alignment.
- 2.14 The ENGINEER’s subconsultant deliverables will feature contour intervals set at 1-ft.
- 2.15 The ENGINEER’s sub-consultant will perform the following only for areas of the project corridor requiring easement mapping:
 - 2.15.1 Conduct reconnaissance and locate existing property corners and evidence of property corners to perform existing right-of-way resolution using existing maps and deeds with the project area.
 - 2.15.2 Online research for all maps and documentation needed to perpetuate existing property lines and existing rights of way. Additional Register of Deeds’ Office research will be performed and documented as needed to resolve property lines that are not available online.
- 2.16 The ENGINEER’s sub-consultant will provide a plan sheet showing field survey data suitable for the preparation of design plans.

Easement Exhibit – The project will be constructed, operated, and maintained in existing rights-of-way and easements, and where needed, new easements will be obtained. To assist with acquiring the new easements, the ENGINEER’s professional survey subconsultant will prepare survey maps of the proposed new easements to be acquired.

To efficiently prepare the maps of the proposed easements, the OWNER and ENGINEER will work together as the project evolves and develops. The ENGINEER is not responsible for actually obtaining easements; rather, the OWNER 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 ENGINEER will meet to review the preliminary engineering and potential easements. The OWNER and 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 subconsultant will start the preparation of the surveys of the potential easement exhibits for the Project. The OWNER will compensate the ENGINEER for preparing the easement maps on a per-easement, unit cost basis, as described below and in Part 6.0 and Attachment ~~A~~^B 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. Int _____

Utilizing the finalized design plans prepared by the ENGINEER's subconsultant, the ENGINEER will prepare and submit to the OWNER an easement map for each affected property for the 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 for any portion of the water main alignment not in the public right-of-way. Based upon preliminary review of the project area, and NCDOT Rights-of-Way, up to twenty-five (25) easement exhibits are planned and budgeted for herein. The general requirements for the easement maps shall be as follows:

- 2.17 Easement maps will comply with the rules set forth by the NC Board of Examiners for Engineers and Surveyors and the NC mapping law;
- 2.18 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);
- 2.19 All easement maps shall have a general vicinity map, which shall clearly identify the general location of the parcels where the easement(s) shall be obtained;
- 2.20 All easement maps shall have distinct line types for the easement lines, which will define the easement(s) location(s) on each parcel;
- 2.21 The total square footage of each easement shall be indicated on the easement map(s);
- 2.22 All easement maps will identify the applicable jurisdictional boundaries;
- 2.23 Each parcel requiring an easement will be clearly identified with a parcel identification number for reference to the agreement to be prepared by the OWNER's attorney;
- 2.24 One digital copy in PDF format of the easement maps will be provided to the OWNER for use in obtaining the easements;
- 2.25 All easement plats shall be sealed by a Professionally Licensed Surveyor;
- 2.26 The OWNER will review the form and format of the proposed easement maps for compliance with the recording requirements at the county register of deeds;

- 2.27 The OWNER shall be responsible for negotiating the easements with property owners; and,
- 2.28 The OWNER, shall record the easement documents and return one (1) electronic (PDF) copy to the ENGINEER for our records.

Easement Staking: Staking (marking) of easement(s) by placing survey monuments or markers at intervals along easement lines in order to identify and visually represent location of easement lines. Easement staking will be to provide representation of easement lines for marking and/or negotiation purposes. This shall include marking of property corners and boundary lines adjacent and/or relevant to easement acquisition and/or negotiations. The ENGINEER has budgeted for a two-person crew to provide easement staking at an estimated rate of production of 150 linear feet of easement line per hour at a crew rate of \$210 per hour. Based on this crew rate and estimated rate of production, ENGINEER has budgeted for 20 hours of crew time for the surveyor which would allow for the marking/staking of up to approximately 3,000 linear feet of easement line. This crew hourly rate and assumed number of hours establishes an hourly NTE budget of \$4,200 for easement staking.

Engineering Design: Utilizing the field survey and mapping as well as information resulting from the preliminary design phase, the ENGINEER will design and prepare the drawing set(s) for the 16-inch transmission main in accordance with OWNER standards. The design includes abandonment of the existing 6-inch water main, and the transfer of all existing water main connections – including McCain Drive, Ethel Street, Arbor Drive, Essaw Drive, Yamasee Drive and Linda Kay Drive – along with associated service connections and new hydrants to the proposed 16-inch transmission main.

The ENGINEER will design the necessary reconnections, fittings, valves, hydrants, and appurtenances required to maintain system functionality and fire protection. For the connection at Linda Kay Drive, the design will include installation of a 16-inch by 6-inch tapping sleeve and valve on the new 16-inch water main, crossing Old Waxhaw Monroe Road, and transitioning to a 4-inch connection to tie into the existing water main, consistent with OWNER direction and the assumption that a future 6-inch water main will be sufficient to meet fire flow requirements for the neighborhood.

The ENGINEER will also prepare other contract documents necessary for subsequent phases (permitting and bidding, including, front end documents in the form of the OWNER provided EJCDC Sections, technical specifications, drawing set cover, notes, plan and details sheets, etc. Final design work shall include:

- 2.29 Prepare horizontal and vertical geometry;
- 2.30 Prepare plan and profile drawing sheets for proposed waterline extension, connections, and appurtenances. (horizontal scale of 1" = 40' and vertical scale of 1" = 4').
- 2.31 Prepare erosion control detail sheets.

- 2.32 Prepare construction contract documents including the OWNER provided standard front-end documents (EJCDC) as well as all required Federal, State, and the OWNER documents. The ENGINEER will develop any additional contract documents necessary for the project, for review and approval by the OWNER.
- 2.33 Prepare technical specifications suitable for permitting and construction.
- 2.34 Prepare quantities take off and opinion(s) of probable construction cost.
- 2.35 The ENGINEER shall provide the OWNER with monthly project design status memoranda, which will include schedule updates and serve to document the general progress of the final design. Memoranda shall outline any project specific challenges, conflicts, and/or circumstances that are hindering the progress in completing the design phase.
- 2.36 The ENGINEER shall submit 60% Design, and 90% Design progress sets for waterline extension, to the OWNER for review and comment. Electronic copies will be submitted via email. The ENGINEER's project schedule assumes up to 14 days for the OWNER to complete a review of each submittal and provide comments. Should the OWNER need additional time to complete their review beyond the 14 days allocated in the ENGINEER's schedule, the remaining project schedule milestones shall be extended to the equivalent number of days utilized by the OWNER to complete their review beyond the 14 days that are originally allocated.
- 2.37 The ENGINEER shall meet with the OWNER one (1) time for each review to discuss the draft submittal and comments resulting from the OWNER's review.
- 2.38 Upon subsequent submittals, the ENGINEER shall maintain and provide comments and response log to the OWNER.
- 2.39 Throughout the development of the design documents and concurrent with the OWNER review, the ENGINEER shall conduct a thorough internal QA/QC review in accordance with ENGINEER's policies and procedures for the deliverables outlined herein. The ENGINEER's QA/QC review program shall be completed prior to issuing final documents to the OWNER.
- 2.40 Finalize and submit design documents to the OWNER electronically (PDF), via e-mail.
- 2.41 Geotechnical investigation is not included. If horizontal direction drilling (HDD) is determined to be the most appropriate installation method, and a geotechnical investigation is deemed to be necessary, such services can be obtained as additional services.

Permitting: Based upon the OWNER's approval of the 90 percent design progress submittal, the ENGINEER will prepare and submit applications for permits to the applicable agencies necessary to allow for the construction of the project. The ENGINEER has budgeted for up to one (1) permit submittal. The ENGINEER shall be available to answer inquiries made by the various regulatory agencies during the reviews of the Project. Based on the ENGINEER's assessment of the project scope and requirements, the following permits are scoped:

- 2.42 NCDEQ- Public Water Supply Section – A Construction Permit and Approval to Place into Operation will be required. The ENGINEER has budgeted for one (1) permit package submittal. A permit fee is anticipated for submittal. The ENGINEER has budgeted up to \$317.00 per permit submittal.
- 2.43 NCDEQ – Division of Energy, Mineral, and Land Resources, Erosion and Sediment Control – It is anticipated that an erosion control permit will be required for this Project. The ENGINEER assumes one submittal and one resubmittal. The ENGINEER will also attend one (1) in-person meeting at NCDEQ's Mooresville Office. The ENGINEER proposes utilizing NCDEQ's Permitting Plan Review process and has budgeted accordingly herein. Permitting fees are anticipated; the fee for Standard Permitting Review is a total of \$119.00 per acre, assuming up to three acres of disturbed area, the ENGINEER has budgeted up to \$357 in permit fees. The ENGINEER assumes no wetland impacts. If wetland impacts are determined to be necessary, the ENGINEER can provide additional permitting services as an additional service.
 - 2.43.1 The ENGINEER will provide stream classification as necessary in support of NCDEQ Erosion and Sediment Control permitting process. The ENGINEER will fill out Notice of Intent for execution by OWNER. OWNER to pay Notice of Intent fee.
- 2.44 NCDOT Encroachment – The ENGINEER will prepare and submit an Encroachment Agreement Package (NCDOT Form 16.1) and supporting documentation for the new water main extension permit/bid packages. No permit fee is anticipated.
- 2.45 Town of Waxhaw Encroachment – A Town of Waxhaw encroachment permit may be required for this project. The ENGINEER will prepare and submit an encroachment permit application, if required. The need for such a permit will be confirmed following completion of the preliminary design phase. Any applicable permit or agency fees and costs shall be reimbursable.
- 2.46 Duke Energy Encroachment – A notification and written approval for encroaching across power transmission mains from Duke Energy is anticipated. No permit fee is anticipated.

Permitting fees and costs as reimbursable expenses shall be limited to the actual expenditures made by the ENGINEER during the performance of the work. Permit costs and fees paid for securing approvals of authorities having jurisdiction over the Project are considered reimbursable expenses and will be compensated at cost by the OWNER, subject to the not-to-exceed amount for Permitting set forth in Section 6.1.1.

Bidding – Upon receiving the required approvals from the regulatory agencies and the OWNER, the ENGINEER shall proceed with the Bidding portion of the project. Bidding will have no prequalification of bidders. The ENGINEER has budgeted for up to one (1) bid package/effort, being advertised and bid no more than one (1) time. Bidding will consist of the following tasks:

- 2.47 The ENGINEER shall provide to the OWNER one hard copy and one PDF (via e-mail) of final bidding documents, including drawing set and project manual, prior to issuance of public advertisement;
- 2.47 Issue a public advertisement for the project to the OWNER (advertising/listing in a newspaper and cost of advertising in a newspaper is the OWNER's responsibility) and advertise in the ENGINEER's digital plan room;
- 2.48 Coordinate plans and specifications distribution for bidding purposes through the ENGINEER's digital plan room;
- 2.49 Respond to Contractor questions concerning the plans and specifications;
- 2.50 Prepare up to two (2) addenda in response to any Contractor requests for clarification of the bid documents and coordinate with the OWNER in review, approval, and distribution of said addenda;
- 2.51 Conduct/assist the OWNER with the Bid Opening at the OWNER's offices;
- 2.52 Analyze the Bids and issue a recommendation of award to the OWNER;
- 2.53 Issue Notice of Award to successful Contractor;
- 2.54 Prepare contract documents for execution by the Contractor and the OWNER and distribute conforming copies of the construction contract documents to the OWNER and Contractor. These services will include furnishing the Contractor with unsigned construction contract documents, review of Contractor bonds and insurance certificates, and transmitting the construction contract documents to the OWNER for review and acceptance by the OWNER, signature and final distribution to the Contractor. The ENGINEER shall distribute conformed contract documents as follows:
 - 2.54.1 The OWNER shall be provided with one complete half scale hard copy and one PDF (via e-mail) of the drawings, one PDF (via e-mail) of the project manual and five (5) hard copies of the project manual.
 - 2.54.2 Contractor shall be provided with three hard copies and one PDF (via email) of conformed contract documents (drawings and project manual).
- 2.55 The ENGINEER's review of insurance certificates is only for the purpose of determining if the Contractor maintains the general types and amounts of insurance required by the contract documents and is not a legal review to determine if the Contractor's insurance complies with applicable requirements.

PART 3.0 ADDITIONAL SERVICES, NOT PART OF BASIC SERVICES:

The ENGINEER will perform additional services as requested by the OWNER. If the need for such services is identified, the 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 a new Task Order.

PART 4.0 OWNER'S RESPONSIBILITIES:

The OWNER shall be required to provide the ENGINEER, or has already provided to the ENGINEER the following:

- 4.1 Access to the project site(s);
- 4.2 Available utility as-built, GIS, water model and CAD data for mapping purposes;
- 4.3 Assistance, as needed, with providing and/or confirming property records, and;
- 4.4 List of applicants and water utility customers based upon the OWNER's billing data.

PART 5.0 PERIODS OF SERVICE:

ENGINEER will endeavor to complete each phase of the Task Order, as specified below, within the time specified below upon written notification from by the OWNER:

5.1	Survey	Month 1 – 3
5.2	Preliminary Engineering	Month 1 – 3
5.3	Design	Month 3 – 7
5.4	Easement Mapping & Acquisition	Immediately upon completion of 90% documents, or sooner, as approved by OWNER.
5.5	Permitting ¹	Immediately upon Completion of 90% documents, as approved by OWNER.
5.6	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 dictated 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 an ^{*}hourly, not to exceed (NTE) basis, as set forth in Section 6.1 of the Agreement, not to exceed \$304,300.00 as outlined below:

	*Per Diem,	Int _____
Project Management & Planning (HNTE)	\$ 22,400.00	
Preliminary Engineering (HNTE)	\$ 11,400.00	
Field Survey & Mapping (HNTE)	\$ 81,000.00	
Easement Exhibits, up to 25 (HNTE)	\$ 33,400.00	
Easement Staking, up to 3,000 LF (20 hours) (HNTE)	\$ 4,200.00	
Engineering Design (HNTE)	\$ 100,000.00	
Permitting (Reimbursable expenses and hourly fee with a total NTE)	\$ 37,400.00	
<u>Bidding (HNTE)</u>	<u>\$ 14,500.00</u>	
TOTAL	\$ 304,300.00	

- 6.1.2 For Hourly, Not to Exceed (HNTE) Fee work, the ENGINEER will bill the OWNER on the last day of each month for the labor and expenses incurred during that month. All hourly fee work will be charged based upon the labor category performing the work and corresponding hourly rate set forth in "Attachment A," which is incorporated herein by reference.
- 6.1.3 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. Additional Services will be paid only upon execution of an amendment to this Task Order or a new Task Order.

6.2 Payment for Additional Services:

Payment for Additional Services outside of the Basic Services Scope of Work as defined in Part 2 above, shall be based upon a mutually agreed upon fee using a firmly defined scope of services. No work outside of the Basic Services will be performed without a fully executed amendment to this Task Order.

This Task Order is executed this_____.

OWNER

UNION COUNTY,

NORTH CAROLINA

ENGINEER

W.K. DICKSON & CO., LLC. d/b/a Ardurra Group
North Carolina

By:_____

Name: Brian W. Matthews

Title: County Manager

Address: 500 N. Main St.
Monroe, NC 28112

Approved as to Legal Form: BTI

By:_____

Name: Jeremy L. Brashears, PE

Title: Group Leader

Address: 1213 W. Morehead St., Ste. 300
Charlotte, NC 28208

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

Deputy Finance Officer

ATTACHMENT A 2026 RATE SCHEDULE

LABOR

2026

Principal	\$304.00 /hr.
Practice Director	\$304.00 /hr.
Senior Consultant	\$273.00 /hr.
Group Leader	\$278.00 /hr.
Senior Project Manager	\$268.00 /hr.
Senior Electrical Engineer	\$273.00 /hr.
Project Manager	\$241.00 /hr.
Engineering Manager	\$241.00 /hr.
Associate Project Manager	\$226.00 /hr.
Senior Project Engineer	\$241.00 /hr.
Project Engineer	\$194.00 /hr.
Electrical Engineer	\$210.00 /hr.
Engineering Associate II	\$152.00 /hr.
Engineering Associate I	\$136.00 /hr.
Senior Project Controller	\$173.00 /hr.
Project Controller	\$157.00 /hr.
Senior Scientist	\$178.00 /hr.
Scientist	\$157.00 /hr.
Senior Planner	\$220.00 /hr.
Planner	\$163.00 /hr.
Senior Engineering Designer	\$173.00 /hr.
Engineering Designer 2	\$157.00 /hr.
Engineering Designer 1	\$126.00 /hr.
Senior GIS Analyst	\$184.00 /hr.
GIS Analyst	\$157.00 /hr.
GIS Technician	\$136.00 /hr.
Senior Construction Observer	\$163.00 /hr.
Construction Observer	\$136.00 /hr.
Senior Funding Support Specialist	\$152.00 /hr.
Funding Support Specialist	\$142.00 /hr.
Senior Project Administrator	\$136.00 /hr.
Project Administrator	\$105.00 /hr.

EXPENSES

Reproductions	Cost
Mileage	IRS Rate
Telephone, Postage	Cost
Travel (Meals/Lodging)	Cost
Subconsultants	Cost + 10%
Special Owner Requested Computer Software (1)	Cost + 10%

Note: The above rates are effective January 1, 2026. We ~~reserve the right to revise to reflect inflationary increases.~~

Int _____

Attachment ~~A~~ ^B Fee Estimate Int _____

Budget Table
Ardurra
16-in WM -Old Providence Rd



ALL	ALL						Labor Category									
		\$	\$	\$	944	\$ 203.78	13	117	248	47	394	31	-	44	38	12
Phase and/or		Total	Total	Total	Total	Labor Ave	Principal	Sr.PM - JRB	SPE	PE	ED-2	Admin.	P.Cntrler	EM-1	SC - Varj.	Env. Sc
Task Code	Task Description	Cost	Labor Cost	ODC	Hours	Hourly Rate	\$ 304.00	\$ 268.00	\$ 241.00	\$ 194.00	\$ 157.00	\$ 105.00	\$ 157.00	\$ 241.00	\$ 273.00	\$ 178.00
		\$	\$	\$		\$	Enter hours (not \$) below									
	_Mgmt. & Planning (\$22,400)															
	Project Development, Mgmt., research, etc.	6,832	6,802	30	28	242.93	2	16	4		6					
	Review of existing cond & project data provided by Owner	4,202	4,202		20	210.10		2	10		8					
	Kick-off meeting w/OWNER (In person at Owner's office)	3,352	3,292	60	16	205.75		4	4		8					
	Meeting Minutes and Initial Schedule Deliverable	1,933	1,933		10	193.30		1	3		6					
	Invoicing & Project Accounting & Schedule Updates (~9 mo	6,082	6,082		24	258.81	5	5	14							
	_Preliminary Engineering (\$11,400)															
	Review NCDOT ROW Inquiry w/ Alignments	1,383	1,378	5	7	196.86		1	2		4					
	Review Hydrant FF data	2,637	2,637		12	219.75		1	5	6						
	Preliminary Wetland Determination	2,909	2,859	50	15	190.60			3							12
	Site Visits & Field Routing, Constructability Review	4,478	4,202	276	20	210.10		2	2		8			8		
	_Field Survey & Mapping (\$120,800)															
	Survey subconsultant Coord. & Management	5,565	5,495	70	31	177.26		8			18	5				
	Level B SUE	20,444		20,444												
	Survey Route Confirmation (Post SUE B)	3,360	3,360		15	224.00		1	2	6				6		
	Survey	51,557		51,557												
	Easement Plats	33,413		33,413												
	Easement Staking (up to 20 hours @ \$210 per hour)	4,200		4,200												
	_Design Services (\$100,000)															
	General Drawing setup - Cover sheets, vics, etc.	10,870	10,870		56	194.11		4	4	10	30				8	
	Plan Sheets	27,633	27,588	45	146	188.96		6	20		100				20	
	Detail Sheets	7,134	7,134		40	178.35		2	2		32				4	
	Stakeholder Coord. (Duke, DOT, etc.)	6,332	6,332		28	226.14		2	12	10				4		
	Erosion Control Design and Details	10,564	10,564		59	179.05			6	9	40				4	
	Front End Contract Documents	4,112	4,112		20	205.60		4	10			6				
	Technical Specifications	5,848	5,848		28	208.86		4	12		12					
	Quantities/OPC	5,376	5,376		26	206.77		2	4		12			6	2	
	Owner submittal & Comments Review/implimentation	4,798	4,678	120	22	212.64		8	4		10					
	Ardurra QA/QC Review of each package	7,815	7,770	45	30	259.00	6	6	9					9		
	Implement Comments & Finalize Submittal	9,525	9,525		51	186.76		6	12		30	3				
	_Permitting (\$37,400)															
	NCDEQ Public Water Supply - ATC	2,883	2,433	450	11	221.18		2	6			2		1		
	NCDEQ Erosion Control - Express Review (up to 3 ac.)	8,641	8,341	300	39	213.87		2	24		10	2		1		
	Meetings at Mooresville DEQ Office, up to 1	2,805	2,705	100	11	245.91		2	8					1		
	NCDOT Encroachment (Estimate 1 package)	3,817	3,817		22	173.50		1	2		18			1		
	Town of Waxhaw Encroachment	3,039	3,039		17	178.76		2	2		10	2		1		
	Duke Energy Trans Encroachment	4,256	4,256		20	212.80		4	8		8					
	Address Permitting Comments and update CDs	11,926	11,896	30	58	205.10		8	20	6	24					
	_Bidding (\$14,500)															
	Draft Advertisement & List Plans	842	746	96	4	186.50		2				2				
	Contractor Inquiries	3,186	3,156	30	14	225.43		2	8			2		2		
	Prep & Issue Addenda (up to 2)	3,156	3,156		14	225.43		2	8			2		2		
	Bid Opening, Tabulation, & Letter of Rec. (2)	2,131	1,951	180	9	216.78		2	4			2		1		
	Review bid, quals, references, etc.	1,473	1,473		6	245.50		1	4					1		
	Coord. Contract Execution & Award	1,174	1,174		6	195.67			4			2				
	Prep & Provide RFC CDs	2,561	2,087	474	9	231.89		2	6			1				
	Total	\$ 304,243	\$ 192,269	\$ 111,974	944	203.78	13	117	248	47	394	31	-	44	38	12