

**MID-CAROLINA REGIONAL AIRPORT  
SALISBURY, NORTH CAROLINA  
WORK AUTHORIZATION 23-01  
DATED: December 19, 2022  
PROJECT NO.: TBE NO. 3708-2301**

It is agreed to undertake the following work in accordance with the provisions of our Contract for Professional Services.

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**DESCRIPTION OF WORK:** This project will include the extension of water and sanitary sewer lines along both Airport Loop Road and Red Acres Road to serve the future public safety hangar and other future development in the area. The existing water and sewer lines terminate slightly north of the angled T-hangar buildings. These lines (or the existing lines on Red Acres Road) will be extended along the road right-of-way north on Airport Loop Road and west on Red Acres Road. The estimated length of the proposed water and sewer lines is roughly 1,900 linear feet for both the water and the sewer line extensions. The attached exhibit shows the approximate locations of the two proposed utilities. The project scope also includes the design and permitting for the utility extensions.

The services included for this project will be design, bidding, and construction administration, in a lump sum format.

The design, bidding, and construction administration services for this project will be funded using County funding.

**Estimated Time Schedule:** Work shall be completed in accordance with the schedule established and agreed upon by the Owner and Engineer.

**Cost of Services:** The method of payment shall be on a lump sum basis in accordance with Section V, Paragraph A1 and B will apply; specifically, basic services of the Work Authorization will be a lump sum of **\$212904.60** (including reimbursable expenses and special services).

Agreed as to Scope of Services, Time Schedule, and Budget:

**OWNER:  
ROWAN COUNTY**

**ENGINEER:  
TALBERT, BRIGHT &  
ELLINGTON, INC.**

\_\_\_\_\_  
BY:

\_\_\_\_\_  
BY:

\_\_\_\_\_  
TITLE:

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TITLE:

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DATE:

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WITNESS:

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WITNESS:

**SUMMARY OF FEES**

**WATER AND SEWER EXTENSIONS ON AIRPORT LOOP ROAD AND RED ACRES ROAD**  
MID-CAROLINA REGIONAL AIRPORT  
SALISBURY, NORTH CAROLINA

0

TBE PROJECT NO: 3708-2103

December 19, 2022

DESCRIPTION	ESTIMATED COST
<b>BASIC SERVICES</b>	
PROJECT FORMULATION/DEVELOPMENT PHASE (01)	\$ -
DESIGN PHASE (04)	\$ 5,400.00
BIDDING PHASE (05)	\$ 11,560.00
CONSTRUCTION ADMINISTRATION PHASE (06)	\$ 35,200.00
SUBTOTAL	\$ 52,160.00
EXPENSES	\$ 2,615.00
SUBTOTAL	\$ 2,615.00
SUBCONSULTANTS	\$ 158,129.60
INSPECTION - RESIDENT PROJECT REPRESENTATIVE	\$ -
SUBTOTAL	\$ 158,129.60
TOTAL	\$ 212,904.60

MANHOUR ESTIMATE

WATER AND SEWER EXTENSIONS ON AIRPORT LOOP ROAD AND RED ACRES ROAD  
MID-CAROLINA REGIONAL AIRPORT  
SALISBURY, NORTH CAROLINA

TBE PROJECT NO: 3708-2103

December 19, 2022

PROJECT FORMULATION/DEVELOPMENT PHASE (01)

DESCRIPTION	PRIN \$ 290	SPM \$ 250	PM \$ 220	SP \$ 175	E4 \$ 150	E2 \$ 110	E1 \$ 90	T5 \$ 150	T3 \$ 90	AD5 \$ 140	AD3 \$ 66
Preliminary project review w/Owner & FAA	0	0	0	0	0	0	0	0	0	0	0
Prepare FAA preapplication	0	0	0	0	0	0	0	0	0	0	0
Coordinate with FAA	0	0	0	0	0	0	0	0	0	0	0
Develop project scope/contract/revisions	0	0	0	0	0	0	0	0	0	0	0
Coordinate with subconsultants	0	0	0	0	0	0	0	0	0	0	0
ALP pen and ink change	0	0	0	0	0	0	0	0	0	0	0
Develop preliminary estimate	0	0	0	0	0	0	0	0	0	0	0
MANHOUR TOTAL	0	0	0	0	0	0	0	0	0	0	0

DIRECT LABOR EXPENSES:

CLASSIFICATION		BILL RATE	EST. MHRs	EST. COST
Principal	PRIN	\$ 290	-	\$ -
Project Manager	SPM	\$ 250	-	\$ -
Senior Planner	PM	\$ 220	-	\$ -
Engineer V	SP	\$ 175	-	\$ -
Engineer IV	E4	\$ 150	-	\$ -
Engineer II	E2	\$ 110	-	\$ -
Engineer I	E1	\$ 90	-	\$ -
Technician V	T5	\$ 150	-	\$ -
Technician II	T3	\$ 90	-	\$ -
Admin. Assistant IV	AD5	\$ 140	-	\$ -
Admin. Assistant III	AD3	\$ 66	-	\$ -
	Total		-	\$ -
<i>SUBTOTAL</i>				\$ -

DIRECT EXPENSES:

EXPENSE DESCRIPTION	UNIT	UNIT RATE	EST. UNITS	EST. COST
Telephone	LS	\$ -	1	\$ -
Postage	LS	\$ -	1	\$ -
Miscellaneous expenses (prints, faxes, copies)	LS	\$ -	1	\$ -
Travel	LS	\$ -	1	\$ -
<i>SUBTOTAL</i>				\$ -

SCOPE OF SUCONTRACTED SERVICES:

EXPENSE DESCRIPTION	UNIT	UNIT RATE	EST. UNITS	EST. COST
Ground Surveying	LS	\$ -	1	\$ -
Geotechnical Investigation	LS	\$ -	1	\$ -
<i>SUBTOTAL</i>				\$ -

TOTAL PRELIMINARY AIP ELIGIBLE COST: \$ -

**MANHOUR ESTIMATE**

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December 19, 2022

DESIGN PHASE (04)

DESCRIPTION	PRIN \$ 290	SPM \$ 250	PM \$ 220	SP \$ 175	E4 \$ 150	E2 \$ 110	E1 \$ 90	T5 \$ 150	T3 \$ 90	AD5 \$ 140	AD3 \$ 66
<b>PLANS</b>											
Cover Sheet	0	0	0	0	0	0	0	0	0	0	0
Construction Sequencing and Phasing Plan (1)	0	0	0	0	0	0	0	0	0	0	0
Grading, Drainage and Utility Plan (1)	0	0	0	0	0	0	0	0	0	0	0
Erosion Control Plan (2)	0	0	0	0	0	0	0	0	0	0	0
Erosion Control Details (2)	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous Details (2)	0	0	0	0	0	0	0	0	0	0	0
<b>DESIGN</b>											
Coordination/Meetings with Client, and FAA	0	4	0	0	0	0	0	0	0	0	0
Sequence of construction	0	0	0	0	0	0	0	0	0	0	0
Project administration (scope of work, contract)	0	8	0	8	0	0	0	0	0	0	0
Grading design and coord. review with FAA	0	0	0	0	0	0	0	0	0	0	0
Erosion control design	0	0	0	0	0	0	0	0	0	0	0
City submittals	0	0	0	0	0	0	0	0	0	0	0
SCDHEC submittals	0	0	0	0	0	0	0	0	0	0	0
Specifications	0	0	0	0	0	0	0	0	0	0	0
Quantities	0	0	0	0	0	0	0	0	0	0	0
Quality assurance	0	4	0	0	0	0	0	0	0	0	0
Revisions	0	0	0	0	0	0	0	0	0	0	0
<b>MANHOUR TOTAL</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**MANHOUR ESTIMATE**

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December 19, 2022

DESIGN PHASE (04)

DIRECT LABOR EXPENSES:

CLASSIFICATION		BILL RATE	EST. MHR	EST. COST
Principal	PRIN	\$ 290	-	\$ -
Project Manager	SPM	\$ 250	16	\$ 4,000
Senior Planner	PM	\$ 220	-	\$ -
Engineer V	SP	\$ 175	8	\$ 1,400
Engineer IV	E4	\$ 150	-	\$ -
Engineer II	E2	\$ 110	-	\$ -
Engineer I	E1	\$ 90	-	\$ -
Technician V	T5	\$ 150	-	\$ -
Technician II	T3	\$ 90	-	\$ -
Admin. Assistant IV	AD5	\$ 140	-	\$ -
Admin. Assistant III	AD3	\$ 66	-	\$ -
	Total		24	
<i>SUBTOTAL</i>				\$ 5,400.00

DIRECT EXPENSES:

EXPENSE DESCRIPTION	UNIT	UNIT RATE	EST. UNITS	EST. COST
Telephone	LS	\$ -	1	\$ -
Postage	LS	\$ -	1	\$ -
Miscellaneous expenses (review fees, prints, faxes, copies)	LS	\$ 250	1	\$ 250.00
Travel	LS	\$ 120	1	\$ 120.00
<i>SUBTOTAL</i>				\$ 370.00

SCOPE OF SUCONTRACTED SERVICES:

EXPENSE DESCRIPTION	UNIT	UNIT RATE	EST. UNITS	EST. COST
Water design - Chambers Engineering	LS	\$41,607	1	\$ 41,607.00
Sewer design - Chambers Engineering	LS	\$56,866	1	\$ 56,866.35
Survey	LS	\$13,656	1	\$ 13,656.25
<i>SUBTOTAL</i>				\$ 112,129.60

**TOTAL DESIGN AIP ELIGIBLE COST: \$ 117,899.60**

MANHOUR ESTIMATE

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December 19, 2022

BIDDING PHASE (05)

DESCRIPTION	PRIN \$ 290	SPM \$ 250	PM \$ 220	SP \$ 175	E4 \$ 150	E2 \$ 110	E1 \$ 90	T5 \$ 150	T3 \$ 90	AD5 \$ 140	AD3 \$ 66
Coordinate advertisement	0	2	0	0	0	0	0	0	0	4	0
Distribute bid documents	0	0	0	0	0	0	0	0	0	0	0
Prebid meeting	0	6	0	0	0	0	0	0	0	0	0
Bidder question & answers	0	8	0	0	0	0	0	0	0	0	0
Prepare addenda	0	16	0	0	0	0	0	0	0	0	0
Bid opening, tabulation	0	8	0	0	0	0	0	0	0	0	0
Recommendation of Award	0	4	0	0	0	0	0	0	0	0	0
MANHOUR TOTAL	0	44	0	0	0	0	0	0	0	4	0

DIRECT LABOR EXPENSES:

CLASSIFICATION	BILL RATE	EST. MHRS	EST. COST
Principal	PRIN \$ 290	0	\$ -
Project Manager	SPM \$ 250	44	\$ 11,000
Senior Planner	PM \$ 220	0	\$ -
Engineer V	SP \$ 175	0	\$ -
Engineer IV	E4 \$ 150	0	\$ -
Engineer II	E2 \$ 110	0	\$ -
Engineer I	E1 \$ 90	0	\$ -
Technician V	T5 \$ 150	0	\$ -
Technician II	T3 \$ 90	0	\$ -
Admin. Assistant IV	AD5 \$ 140	4	\$ 560
Admin. Assistant III	AD3 \$ 66	0	\$ -
	Total	48	
<b><i>SUBTOTAL</i></b>			<b>\$ 11,560.00</b>

DIRECT EXPENSES:

EXPENSE DESCRIPTION	UNIT	UNIT RATE	EST. UNITS	EST. COST
Telephone	LS	\$ -	1	\$ -
Postage	LS	\$ -	1	\$ -
Copying	LS	\$ -	1	\$ -
Reproduction	LS	\$ -	1	\$ -
Advertisement	LS	\$ 1,200	1	\$ 1,200.00
Miscellaneous expenses (prints, faxes, copies)	LS	\$ 200	1	\$ 200.00
Travel	LS	\$ 120	1	\$ 120.00
<b><i>EXPENSE DESCRIPTION</i></b>				<b>\$ 1,520.00</b>

SCOPE OF SUCONTRACTED SERVICES:

EXPENSE DESCRIPTION	UNIT	UNIT RATE	EST. UNITS	EST. COST
-	-	-	-	-
<b><i>SUBTOTAL</i></b>				<b>\$ -</b>

TOTAL BIDDING AIP ELIGIBLE COST: \$ 13,080.00

MANHOUR ESTIMATE

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CONSTRUCTION ADMINISTRATION PHASE (06)

DESCRIPTION	PRIN	SPM	PM	SP	E4	E2	E1	T5	T3	AD5	AD3
	\$ 290	\$ 250	\$ 220	\$ 175	\$ 150	\$ 110	\$ 90	\$ 150	\$ 90	\$ 140	\$ 66
Grant administrative services	0	0	0	0	0	0	0	0	0	0	0
Coordinate award of contract	0	4	0	0	0	0	0	0	0	0	0
Coordinate/conduct preconstruction	0	8	0	0	0	0	0	0	0	0	0
Preconstruction minutes	0	2	0	0	0	0	0	0	0	0	0
Coordinate/review project schedule	0	12	0	0	0	0	0	0	0	0	0
Coordinate submittals	0	16	0	0	6	0	0	0	0	0	0
Construction visits	0	24	0	0	0	0	0	0	0	0	0
Construction observation reports	0	6	0	0	0	0	0	0	0	0	0
Calls/Coordination with RPR and Contractor	0	16	0	0	0	0	0	0	0	0	0
Review/coordinate field changes	0	8	0	0	4	0	0	0	0	0	0
Construction correspondence	0	6	0	0	0	0	0	0	0	0	0
Review test results	0	4	0	0	8	0	0	0	0	0	0
Process requests for partial payment	0	16	0	0	0	0	0	0	0	0	0
Final inspection and punch list	0	8	0	0	0	0	0	0	0	0	0
Develop record drawings	0	0	0	0	0	0	0	0	0	0	0
Final report	0	0	0	0	0	0	0	0	0	0	0
MANHOUR TOTAL	0	130	0	0	18	0	0	0	0	0	0

DIRECT LABOR EXPENSES:

CLASSIFICATION	BILL RATE	EST. MHRS	EST. COST
Principal	PRIN \$ 290	0	\$ -
Project Manager	SPM \$ 250	130	\$ 32,500
Senior Planner	PM \$ 220	0	\$ -
Engineer V	SP \$ 175	0	\$ -
Engineer IV	E4 \$ 150	18	\$ 2,700
Engineer II	E2 \$ 110	0	\$ -
Engineer I	E1 \$ 90	0	\$ -
Technician V	T5 \$ 150	0	\$ -
Technician II	T3 \$ 90	0	\$ -
Admin. Assistant IV	AD5 \$ 140	0	\$ -
Admin. Assistant III	AD3 \$ 66	0	\$ -
	Total	148	
<b>SUBTOTAL</b>			<b>\$ 35,200.00</b>

DIRECT EXPENSES:

EXPENSE DESCRIPTION	UNIT	UNIT RATE	EST. UNITS	EST. COST
Telephone	LS	\$ -	1	\$ -
Postage	LS	\$ -	1	\$ -
Copying	LS	\$ -	1	\$ -
Reproduction-Rel. for Const.	LS	\$ -	1	\$ -
Miscellaneous expenses (prints, faxes, copies)	LS	\$ 250	1	\$ 250.00
Travel	LS	\$ 475	1	\$ 475.00
<b>SUBTOTAL</b>				<b>\$ 725.00</b>

MANHOUR ESTIMATE

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MID-CAROLINA REGIONAL AIRPORT  
SALISBURY, NORTH CAROLINA

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SCOPE OF SUCONTRACTED SERVICES:

EXPENSE DESCRIPTION	UNIT	UNIT RATE	EST. UNITS	EST. COST
Additional Quality Acceptance Testing	LS	\$36,800	1	\$ 36,800.00
Additional As-Built Survey	LS	\$9,200	1	\$ 9,200.00
<i>SUBTOTAL</i>				\$ 46,000.00
<b>TOTAL CONSTRUCTION ADMIN. COST:</b>				<b>\$ 81,925.00</b>