

# Randolph County Purchasing Office

725 McDowell Road, Asheboro, NC 27205

P: 336.318.6304 F: 336.636.7568 Email: lisa.garner@randolphcountync.gov

## **Request for Qualifications**

### **For**

## **On-Call Professional Engineering and Architectural Services for Water and Wastewater Projects**

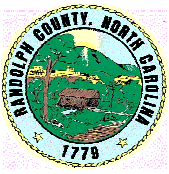
The award of a contract under this solicitation may be paid with federal funding. Funding is contingent upon compliance with all terms and conditions of funding award. All prospective contractors and sub-contractors shall comply with all applicable federal laws, regulations, executive orders, FEMA requirements and the terms and conditions of the funding award. In addition, vendor submitting qualifications shall be responsible for complying with state law and local ordinances.

The County encourages participation by small, minority, disabled, and woman-owned businesses. Randolph County reserves the right to award and/or reject any and/or all submissions and waive any technicalities or irregularities.

### **Definitions**

As used in this RFQ, the following terms shall have the meanings set forth below:

<i>County:</i>	Randolph County Government
<i>Contract or Agreement:</i>	The contract(s) executed by the County and the Service Provider for the services covered by this RFQ
<i>RFQ:</i>	Request for Qualifications to provide the services request herein
<i>Services:</i>	The services described in this RFQ
<i>Service Provider:</i>	Each firm that submits a Qualifications Package for consideration by Randolph County in compliance with the requirements stated in this RFQ
<i>SOQ:</i>	Statement of Qualifications - The Service Provider's official response to this RFQ



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It is the intent of Randolph County to select an on-call list (as referred herein as “the list”) of qualified firms using the Qualifications Based Selection Process to provide planning and design, evaluation of additional funding sources other than American Rescue Plan funds, applying for grants, bidding-phase services, and construction administration services for water and wastewater projects.

A non-exclusive list of possible projects is listed on the Randolph County Water & Wastewater Master Plan (Attachment A). Projects will be selected by the Randolph County Board of Commissioners.

The list shall be effective for a period of five (5) years. Selection by the County for the on-call list is not a guarantee that any firm will receive a project. As projects arise, the County shall review the firms included on the list and make a determination as to the most qualified firm to perform work on a specific project. The County makes no guarantee of a specific volume of work or a total contracted amount arising from this solicitation. Additionally, the County makes no guarantee that the quantity of work (whether measured in monetary terms or otherwise) will be spread equally or according to any other specific criteria, among the firms on the list.

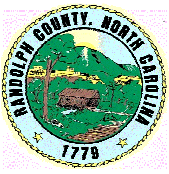
Selected firms that do not meet the County’s performance expectations, routinely decline opportunities to participate in projects offered, or lose significant internal expertise submitted with the original RFQ response may be removed from the list.

While it is the County’s intent to utilize the list for the majority of projects over the five (5) year period, the County reserves the right to issue separate solicitations for a specific project or projects when it is determined to be in the best interest of the County to do so.

The County reserves the right to accept qualification based submittals from new firms at its discretion and, upon evaluation, add new firms to the list if it is determined to be in the best interest of the County. New firms shall be defined as those firms who express an interest in working with the County and did not receive or decline an invitation to submit a qualifications package in response to the County’s original request.

Firms selected must be willing to work with other firms on the list, if required by the County, for the successful completion of a project.

Upon selection of a firm for a particular project, the firm and the County shall negotiate and agree to the scope of work, responsibilities, and compensation for the project, after which a contract for the project will be executed by the firm and the County.



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## **Required Qualifications**

In order to be considered for this project, a Service Provider must demonstrate that their team has the licensure, experience and expertise in the water and wastewater fields. The approximate beginning date for services is July 2023.

## **Evaluation**

The Review Committee will review and evaluate the qualifications based on the below evaluation criteria. A weighted point formula system will be used to evaluate qualifications.

## **Evaluation Criteria**

The following represents the evaluation criteria and relative importance of each criteria (criteria weight):

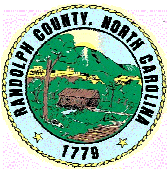
<b>Evaluation Criteria</b>	<b>Weight</b>
1. Adherence to RFQ Instructions	.10
2. Company Information	.15
3. Professional Competency	.20
4. Experience	.30
5. Interview (if conducted)	.25
Total	1.00

The SOQ's will be evaluated by a committee consisting of at least three members. Each committee member shall evaluate each SOQ according to criteria items 1-4 and assigning a point value to each. For each firm, the scores from each committee member shall be tabulated to achieve an average score for each criterion. The criteria averages are then weighted as stated above to determine a score for each SOQ. Once this has been accomplished, the committee may decide to recommend the highest scoring SOQ or may decide to conduct interviews to decide between the highest-scoring SOQ's. If interviews are conducted, each committee member shall assign a point value to each SOQ interview and will factor this criterion into the others as weighted above to determine the most desirable.

## **Statement of Qualifications Preparations**

If you would like to be considered for providing the required Services to Randolph County, please mail or hand deliver three copies and one digital copy of your qualifications to:

Lisa Garner  
Randolph County  
Purchasing Officer  
725 McDowell Road  
Asheboro, NC 27205  
[lisa.garner@randolphcountync.gov](mailto:lisa.garner@randolphcountync.gov)



## Randolph County Purchasing Office

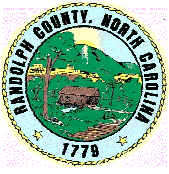
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The Statement of Qualifications are due by 10:00 AM EST, Thursday, June 1, 2023.

### **Your SOQ should consist of the following information:**

- a. Signed and notarized Federal Addendum (Attachment B)
- b. Signed and notarized E-Verify Affidavit (Attachment C)
- c. A cover letter (no more than 1 page) signed by a person empowered to commit the firm to a contractual arrangement with Randolph County. The cover letter should also include all contact information (phone number, email address, and mailing address). The letter should identify the persons who will be responsible for regular communications with Randolph County.
- d. A brief history of the firm and key subs, including the following:
  - Size of the firm and office locations
  - Locations of the office(s) where the work associated with each element of the project will be performed
- e. List current and past experience with utility systems in Randolph County
- f. A range of services provided, relevant work experience, ability to evaluate additional funding sources and apply for grants, capabilities and expertise that qualify the firm to undertake this project. Relevant work experience should include projects of similar size undertaken within the last five (5) years, involving the field personnel who will be assigned to this project.
- g. A list of the individuals who will be providing services to the County, including their individual work experience and certifications
- h. A description of the firm's approach and methodology to execute the services required for this project
- i. A current certificate of insurance
- j. Unique Entity Identifier (UEI) Number with the System for Award Management ("SAM") available at <https://sam.gov/content/home> will be required before signing of a contract



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### **Contact with County Staff**

Maintaining the integrity of this RFQ is of paramount importance for the County. To this end, unless you have questions regarding the RFQ process itself, do not contact any members of the Randolph County staff until the contract is awarded. Questions regarding the process may be directed to Lisa Garner at [lisa.garner@randolphcountync.gov](mailto:lisa.garner@randolphcountync.gov). Failure to adhere to these restrictions may significantly reduce your prospects for selection.

### **Due Date**

10:00 AM EST on Thursday, June 1, 2023.

We look forward to receiving your qualifications package.

Lisa T. Garner  
Purchasing Officer  
Randolph County

## Technical Memorandum

**TO:** Paxton Arthurs, County Engineer  
 Randolph County, NC

**FROM:** John Grey, P.E.  
 The Wooten Company

**DATE:** April 4, 2022

**RE:** Water and Sewer Master Plan, Phase 1 - Report  
 TWC No. 3190-J



Randolph County was fortunate in 2021 to be selected by Toyota for the construction of a battery facility at the Greensboro/Randolph Mega Site. The County was also fortunate to receive over \$26 million in direct appropriations from the Federal Government through the American Rescue Plan Act (ARPA). The combination of these two events has caused the County to take a renewed look at the expansion of water and sewer in the County. The County does not want to own, operate, or maintain water or sewer infrastructure; however, the County wants to encourage development along major corridors. There is particular interest in supporting anticipated industry and commercial growth, as well as growth associated with the development of the Toyota Battery facility. The County would like to utilize the ARPA money leveraged with other funding to help existing water and sewer systems be extended to serve these major corridors.

The County hired The Wooten Company to assist in reviewing requests from Local Governments (LGs) and the Randolph County Economic Development Corporation (RCEDC) for water and sewer projects and to complete a water and sewer master plan. The Master Plan will be used as justification to support or deny a request for ARPA money.

The first phase of the Engineering Agreement was to review capacities of existing local water and sewer systems and the project submissions deemed Economic Development projects. The following is a summary of all requests received by the County:

<u>Request from</u>	<u>Amount of Request</u>	<u>Short Description</u>
Seagrove/Ulah	\$2,490,500	WWTP Exp
Seagrove/Ulah	\$1,984,000	Little River Rd Sewer imp
Franklinville	\$4,638,000	12" WL Loop with Asheboro
Franklinville	\$4,425,000	12" WL Cedar Falls Rd
Franklinville	\$261,000	Meter Vault on Hwy 64
Franklinville	\$1,292,500	Ogle's Creek PS & FM Imp
Ramseur	\$524,940	Main PS FM Replacement

Ramseur	\$520,260	Gravity Sewer Line Replacement
Ramseur	\$130,520	Reedy Creek PS Storage Increase
Ramseur	\$525,590	Replace Tube PS on West side of River
Ramseur	\$288,210	WTP Filter Replacement and Piping Improvements
Ramseur	\$236,204	Chlorine Booster for Coleridge School WL
Randolph EDC	\$4,210,000	I-74 Industrial Center W&S
<b>TOTAL</b>	<b>\$21,526,724</b>	

Each request was evaluated to determine which ones would be considered to be an economic development benefit for the County. The initial review presented two requests that would have a major impact on economic development for the County. They were the request to expand the Seagrove/Ulah WWTP capacity and the extension of water and sewer to the I-74 Industrial Center.

The Seagrove/Ulah project expanding the WWTP capacity is beneficial in that it receives all sewer flow for the southern part of the County, including the Industrial Site on New Hope Church Rd. This WWTP also supports commercial development in Seagrove and along Highway 220 business south of Asheboro, including the Pinewood Country Club area where development is anticipated.

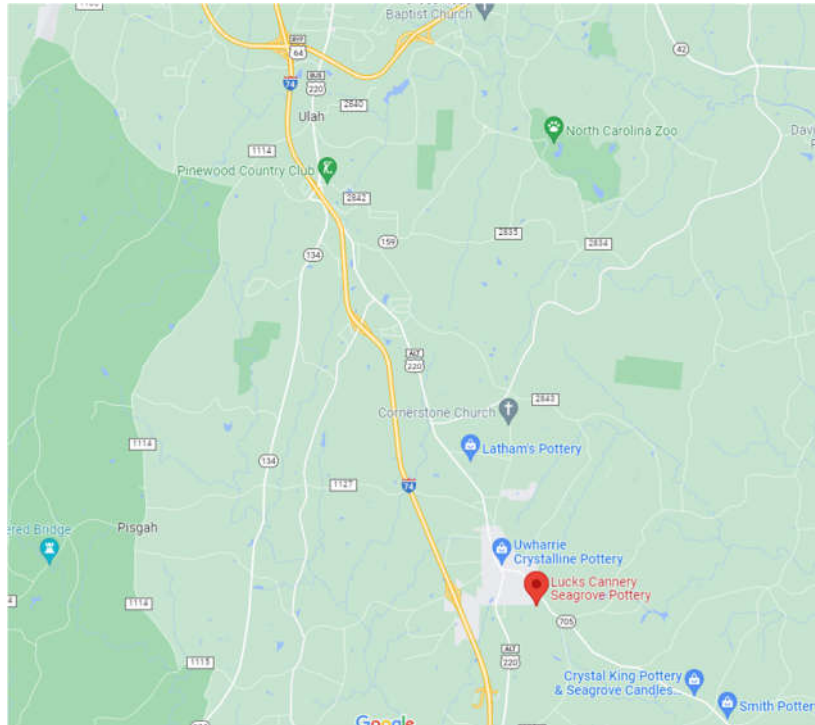
The I-74 Industrial Center (formerly Wall Brothers Site) is a top industrial park being developed by the County Economic Development Corporation. This park can support multiple industrial facilities with excellent access to I-74 and Highway 311. The sewer pump station for this facility will also support development of the Highway 311 Business corridor between Randleman and Archdale, which can also serve existing or additional industrial development in this corridor.

The other projects that were submitted will also support development, but on initial review, more commercial and residential development than industrial. This does not mean these projects are not as important, but based on the criteria given, they are projects to be further reviewed in Phase 2 when a more in-depth review of the projects and a scoring matrix will be developed.

We also wanted to consider the broader picture of population growth and where that is anticipated, along with any special plans the LGs might have for development. As part of this process, we held meetings with several of the LGs. Thus far we have met with Seagrove/Ulah, Asheboro, Liberty, and Franklinville. In preparation of these meetings, we developed a data summary of each of the systems based upon the Local Water Supply Plans (LWSP) that each system is required to submit each year. Appendix 1 shows a summary of this data.

Based on this data, it is apparent that the Seagrove/Ulah WWTP is key to providing service to the Town of Seagrove and southern part of Randolph County. The following snip from Google maps shows the location of the Old Lucks Cannery, which is the location of the Seagrove/Ulah WWTP.





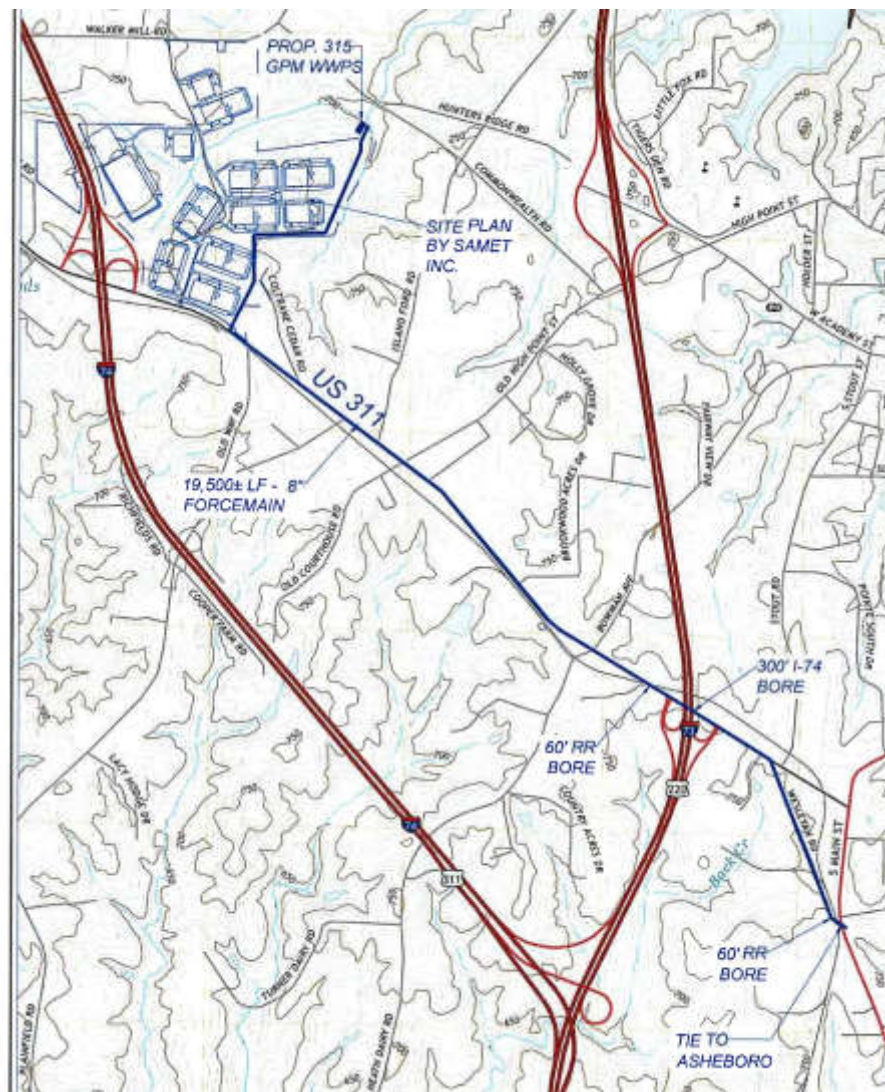
The following is a list of anticipated flows in gallons per day (GPD) based on NCDEQ Standards for wastewater flow in the Seagrove/Ulah service area.

Current Avg Flow	15,500
Proposed flows	<u>Total</u>
Charter Academy	7,500
New Hope Church Ind Site	30,800
New Hope Church Rd Truck Stop	9,000
Pinewood CC	22,000
Pinewood Townhomes	16,560
Pinewood Hotel	4,800
Pinewood area development	24,000
Hardees and Truck stop on Little River Rd	13,000
Development along Hwy 705 (Little River Rd)	18,000
Manufacturer at Bennet Farm Rd	1,250
Vet Clinic north of Seagrove	1,000
Lail Property on Bus 220 north of Sapona Plastic	1,500
Additional Development	10,000
<b>TOTAL</b>	<b>174,910</b>



Seagrove/Ulah requested support for an expansion to 120,000 GPD (0.12 million gallons per day (MGD)). However, based on this review, we recommend the WWTP be expanded to 175,000 GPD. We recommend moving forward with this project.

The other economic development project that was being considered is the I-74 Industrial Center. This site is being recommended by the Randolph County Economic Development Corporation, and they have commented that they are getting many requests for sites. Based on this information, the County has already committed to this project. From review of the project as presented, the sewer from the site will be sent to Asheboro by a sewer pump station. This is based on Randleman's desire to not overcommit the capacity of the WWTP (see figure provided in Preliminary Engineering Report by Hiram Marziano).



This pump station could potentially become a regional sewer station that will serve the Highway 311 corridor in the Randleman service area. Initial sizing of the sewer lift station is 150,000 GPD average day flow. This size is based on limitations in the Asheboro collection system and the types of industries that have been expressing interest in the Industrial Site.

The I-74 and Seagrove/Ulah WWTP projects would not score well for funding from NCDEQ Division of Water Infrastructure. Furthermore, these projects support economic development, and would not be considered for USDA Rural Development funding. One possible option would be Golden Leaf funding for the I-74 project and possibly for the Seagrove/Ulah project. RCEDC has submitted the I-74 project for this funding and is awaiting the decision of the Golden Leaf Board.

Randolph County has received over \$26 million in funding, and considering the requests received by the County total less than \$26 million, they technically could fund all requests. However, the County wants, through this Water and Sewer Master Plan process, to assure maximum use of the money and get maximum benefit. Phase 2 of this Master Plan will evaluate the other requests along with other projects that are deemed appropriate to best serve the citizens of Randolph County and will provide additional considerations for each of the projects. A separate report will be provided as a summary of the Phase 2 portion of the Water and Sewer Master Plan.

**WATER/SEWER PROVIDERS SERVING AREAS WITHIN RANDOLPH COUNTY**

Municipality	LWSP Approval Year	Projected Population		Permitted WTP Capacity (MGD)	Avg Metered Water Use (MGD)	Finished Water Storage Capacity (MG)	Permitted Wastewater Capacity (MGD)	Wastewater Avg Annual Daily Discharge (MGD)	Water Supply Source
		2020	2040						
Seagrove-Ulah	2019	2,350	2,450	None	0.143	0.5	0.08	0.00978	Purchased from Asheboro
Randleman	2020	4,175	4,301	None	0.701	0.85	1.745	0.7183	Purchased from Asheboro/PTRWA
Ramseur	2020	2,893	2,893	1.5	0.3058	1	0.48	0.209	Ramseur WTP
PTR Water Authority*	2020	0	0	14.7	11.204	8.3	No Limit	1.06	John F. Kima WTP
Liberty**	2020	2,655	2,992	0.559	0.2258	0.95	0.55	0.4033	9 Groundwater Wells
High Point	2020	115,526	124,189	24	13.924	19	36	19.24	Frank L Ward WTP
Handy Sanitary District***	2020	3,157	3,472	None	0.3	1.6	0	0.117	Purchased from Davidson Water and Town of Denton
Franklinville	2020	1,196	1,300	None	0.127	0.5	0.1	0.043	Purchased from Ramseur
Davidson Water	2020	159,611	198,205	27	8.0685	19.125	0.88	0	C.O. Pickle and Gregg W Stabler WTP
Asheboro	2020	26,073	27,000	12	3.545	6.36	9	4.22	W.L. Brown Jr WTP
Archdale****	2020	12,000	15,000	None	0.7269	0.75	0	1.142	Purchased from Davidson Water, High Point, PTRWA
*Wastewater Permit for Plant Discharge Only									
**12-Hour Water Supply Due to Well Production									
***Waste Water Accepted by Town of Troy									
****Wastewater Accepted by City of High Point									

# Appendix 1

# Water and Sewer Master Plan

## Phase 2 - Report

Randolph County  
North Carolina

Prepared for



**RANDOLPH**  
COUNTY

December 14, 2022



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John C. Grey, P.E.  
TWC Project No. 3190-J

# Wooten

300 S. Main Street, Lower Level  
Winston-Salem, NC 27101  
(336) 722-5326

License F-0115

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# INTRODUCTION

The following is the Phase 2 Report and assumes the information from the Phase 1 report has been read. With the requests received by the various communities presented in Phase 1, we along with the County met with the various Towns/Cities that have water and sewer systems in Randolph County to discuss what their existing situation was and how the County could support the guiding principal that the County does not want to own, operate, or maintain water or sewer infrastructure; however, the County wants to encourage development along major corridors. There is particular interest in supporting anticipated industry and commercial growth, as well as growth associated with the development of the Toyota Battery facility and other industrial developments.

## REQUESTED PROJECTS

The first phase of the Engineering Agreement was to review capacities of existing local water and sewer systems and the project submissions deemed Economic Development projects, which expansion of the Seagrove WWTP and supporting development of the I-74 Industrial Center were deemed to meet that requirement. The following is a summary of all other requests received by the County:

**Table 1 – List of Initial Project Requests**

<u>Request from</u>	<u>Amount of Request</u>	<u>Short Description</u>
Seagrove/Ulah	\$1,984,000	Little River Rd Sewer imp
Franklinville	\$4,899,000	12" WL Loop with Asheboro & Meter Vault
Franklinville	\$1,292,500	Ogle's Creek PS & FM Imp
Franklinville	\$4,425,000	Cedar Falls WL
Ramseur	\$524,940	Main PS FM Replacement
Ramseur	\$525,590	Replace Tube PS on West side of River
Ramseur	\$520,260	Gravity Sewer Line Replacement (no map)
Ramseur	\$130,520	Reedy Creek PS Storage Increase
Ramseur	\$288,210	WTP Filter Replacement and Piping Improvements
Ramseur	\$236,204	Chlorine Booster for Coleridge School WL

Based on the conversations with the different communities we developed a list of projects that would benefit those communities as well as help the County meet the goal of supporting development along the major corridors throughout the county. The following is a summary of the other project requests that were developed from the meetings with Towns and Cities in the County.

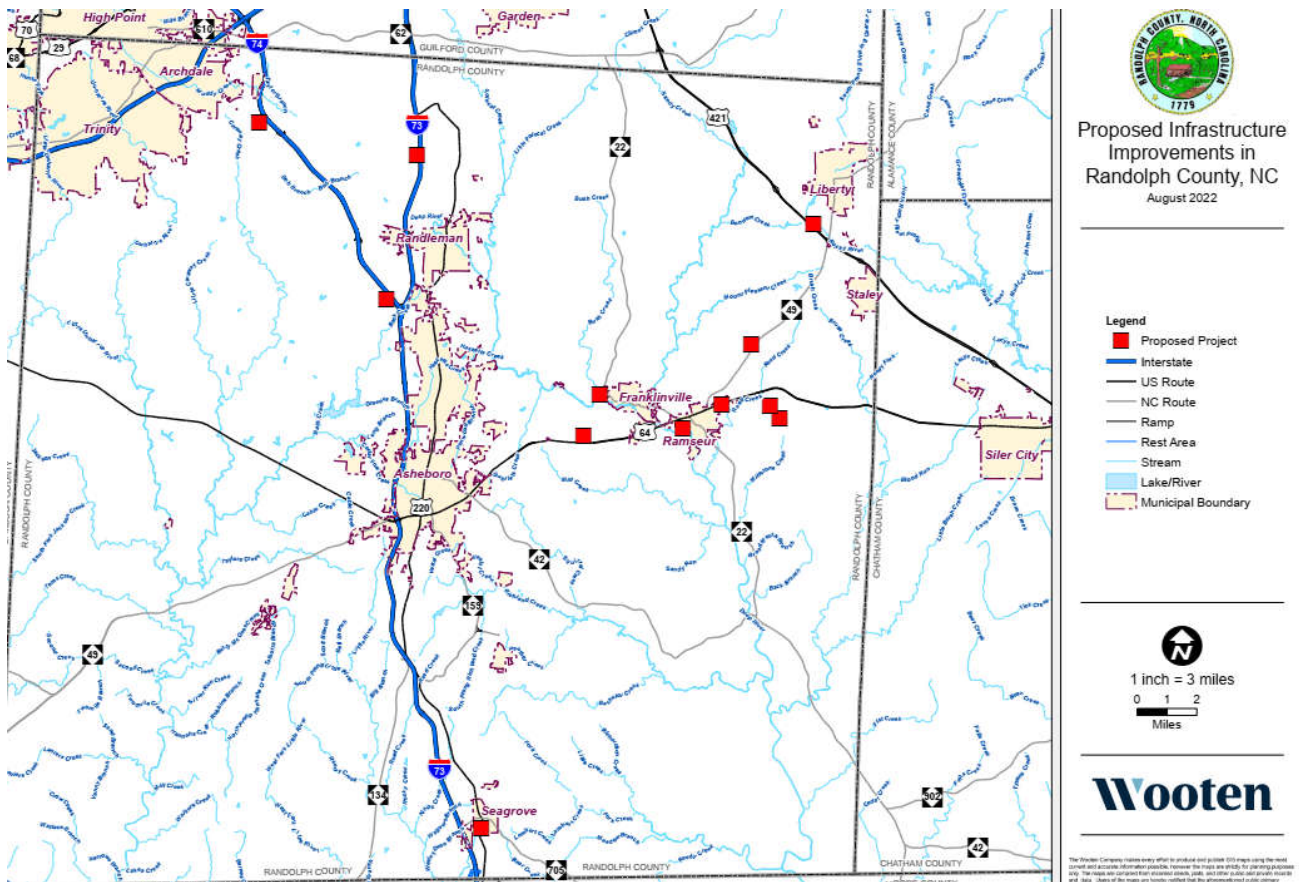


**Table 2 – List of Project Requests Developed from Community Meetings**

<b>Request from</b>	<b>Amount of Request</b>	<b>Short Description</b>
Liberty	\$736,400	Water to Hwy 421 - Old Liberty Rd
Liberty	\$4,298,600	Sewer to Hwy 421 - Old Liberty Rd
Liberty	\$1,351,400	Water to Hwy 421 - NC Hwy 49
Liberty	\$4,257,900	Sewer to Hwy 421 - NC Hwy 49
Liberty	\$894,100	Water to Hwy 421 - Old 421
Liberty	\$2,964,300	Sewer to Hwy 421 - Old 422
Hwy 49 Sewer	\$2,407,900	PS and FM along 49 - PS#1 to PS#2
Hwy 49 Sewer	\$2,981,900	PS and FM along 49 - PS#2 to PS#3
Hwy 49 Sewer	\$5,596,600	PS and FM along 49 - PS#3 to Ramseur WWTP
Hwy 49 WL	\$8,985,800	WL from Ramseur to Liberty
Asheboro	\$7,583,100	18" Water Connection with PTRWA
Archdale	\$2,872,800	Parallel Distribution line to PTRWA Line along Hwy 311 from Cedar Square Rd back to City Limit
Archdale	\$4,383,100	Sewer Extension from Suits Rd to Cedar Square Rd
PTRWA	\$9,600,000	Improvements to process to address contaminants (19%)
PTRWA	*	Expansion for increase in flow allocation
Ramseur	**	WWTP Expansion
Ramseur	\$34,706,300	Hwy 64 East Sewer
Ramseur	\$27,218,700	Hwy 64 Water Line to Chatham County
*(dependent on how much flow is being requested, about \$5/gal)		
**Depending on Flow needed for CAM site, plus providing service for next 20 years in Eastern Randolph County, this cost could be in the range of \$180 mil		

All the projects that were considered are shown here and in Appendix 3.





The maps for each project and the cost opinions are also provided in Appendix 3.

In the meeting with Asheboro on February 23, 2022, it became apparent that there was not a lot of interest from the City to extend water and sewer service to the south and west, so the majority of the projects are north and east of Asheboro with services being extended for the existing water and sewer systems.

As part of this Water and Sewer Master Plan, we were contacted by persons associated with the Chatham Advanced Manufacturing (CAM) mega industrial site. They were asking about the potential for water and sewer service to the site from the west. We provided some general capacity information we had gathered as part of this study and provided alternatives for water and sewer service to the site. They were interested in getting 3 to 6 mgd of water to the site and possibly treatment of 1 to 3 mgd of sewer.

To provide the water we recommended a water line be extended from the City of Asheboro along Highway 64 and connect to the east end of the existing water line at Franklinville and then extend to Ramseur. The water line would then pass-through Ramseur and connect to the east end of the Ramseur water line and extend to the Chatham County line where the CAM site is located (see map in Appendix 3). This matches a few of the projects that were requested by the communities.





For sewer service, we envisioned a pump station located on Highway 64 at the CAM site and a large force main extending west either to another pump station just east of Ramseur or pumping all the way to the Ramseur WWTP (see map in Appendix 3).

The Ramseur WWTP would have to be expanded to treat this much flow. As part of investigating this, we contacted the State and requested speculative limits for the Town to expand from its current .48 mgd to 3.7 mgd or 6 mgd. The State quickly provided a response with favorable support for this type of expansion, but soon after, contacted us back and noted that there is a restriction on the total amount of Nitrogen and Phosphorus that can be discharged in the Middle Cape Fear basin. This limitation will make expansion likely have to have nutrient removal systems as part of the expansion, which will greatly increase the cost of the expansion. These projects are included in the above project listing.

During the preparation of this report some of the above projects received funding by the State. These projects are:

Ramseur	\$288,210	WTP Filter Replacement and Piping Improvements
Ramseur	\$236,204	Chlorine Booster for Coleridge School WL

The City of Asheboro also received money from the State in the budget to support providing water to the CAM site. This money would cover these projects:

Franklinville	\$4,899,000	12" WL Loop with Asheboro & Meter Vault
Asheboro	\$7,583,100	18" Water Connection with PTRWA
Ramseur	\$27,218,700	Hwy 64 Water Line to Chatham County

The costs associated with the Franklinville project are not what would be needed to support the CAM site but is what was initially requested by the Town. All of these projects though could be covered by the funding provided to the City of Asheboro if the announcement of the intended industry coming to the CAM site is made. This is also dependent on if private services would be allowed to be connected to this main transmission water line. If not, then additional lines will need to be installed parallel to the transmission mains to provide service to customers along Highway 64.

## WATER AND SEWER DEMANDS

These projects will create additional water and sewer customers which will require use of available capacity, or possibly expansion of existing treatment facilities. The increase in demand of treatment facilities is also anticipated to increase due to population growth. Table 3 below shows the 2020 Census Data populations and possible increase in demand based on anticipated population growth.

The growth is based on historic growth but also growth from jobs created by the Toyota Battery Facility. In discussions with EDC there appear to be several other industries that are now interested in Randolph County for site selection which will increase the population further. We have reviewed historical data throughout the State that indicates how much growth can be anticipated associated with each new job created. For Randolph County we anticipate a 2.5 person increase in population due to each manufacturing job created. The Toyota facility initially anticipated 1,750 new jobs but has recently increased that number to 2,100. The associated increase in population in Randolph County is 5,250. The challenge is predicting where in the County this growth will occur. We



anticipated that the higher percentage of growth would be closer to the industrial site in Liberty, Franklinville, and Ramseur. We also anticipated a high percent of the growth would occur in and around Asheboro due to it being a larger municipality and being more urban in nature.

Table 3 projects some of this growth, but much of the other possible industrial growth is still very much unknown, so cannot be predicted. We used a combination of historical growth and accelerated growth due to industrial growth. We recognize that this growth can appear to be excessive, but we think these numbers are conservative for assuring proper planning is provided for water and sewer needs. This growth represents growth within and immediately adjacent to existing cities/towns.

In projecting the flow increase associated with the population growth we used the current average flow/person for each municipality and applied to the increased population, as shown in Table 3. A spreadsheet showing the various calculations that went into this projected 2040 population can be found in Appendix 2.

**Table 3 – Population and Associated Flow Projections**

Area Name	July 1, 2020 Certified Population Estimate	Projected 2040 Population	Projected Flow based on avg consumption (gpd)	
			Water Increase (gpd)	Sewer Increase (gpd)
Liberty	2,658	4,809	182,737	326,386
Staley	398	545	0	0
Franklinville	1,199	2,889	159,316	60,625
Ramseur	1,776	3,451	181,841	197,120
Randleman	4,608	6,815	335,814	344,102
Asheboro	27,191	33,764	856,968	1,020,142
Trinity (Davidson Water)	7,015	7,918	0	0
Archdale	11,907	13,238	81,256	127,657
Seagrove (Seagrove/Ulah)	235	311	46,233	3,162
			<b>1,844,166</b>	<b>2,079,194</b>

Each of the municipalities will need to consider the source of this additional flow. With the water and sewer facilities constructed along Highway 49, Liberty could purchase additional water from Ramseur and send the sewer flows to Ramseur.

Along with the increase in population, the completion of the requested projects will increase water and sewer demand. Wastewater flow generated from a project is equal to existing residential dwellings x 360 gpd plus existing Commercial/Industrial buildings x 1,000 gpd plus Acreage Affected x 20% x 880 gpd. Water demand flow is generated as the existing residential dwellings x 400 gpd plus existing Commercial/Industrial buildings x 1,200 gpd plus Acreage Affected x 10% x 1,000 gpd. This gives the following results:



**Table 4 – Flow Projections for Requested Projects**

<u>Request from</u>	<u>Short Description</u>	<u>Water Flow Demand (gpd)</u>	<u>WW Flow Generated (gpd)</u>
Ramseur	Hwy 64 Water Line to Chatham County	6,355,113	
Franklinville	12" WL Loop with Asheboro & Meter vault	136,890	
Hwy 49 WL	WL from Ramseur to Hwy 421	324,605	
Franklinville	Water along Cedar Falls Rd from Asheboro to Franklinville	160,692	
Liberty	Sewer to Hwy 421 - NC Hwy 49		88,857
Liberty	Water to Hwy 421 - NC Hwy 49	56,551	
Asheboro	18" Water Connection with PTRWA	122,841	
Ramseur	Hwy 64 East Sewer - including CAM		4,000,000
Archdale	Parallel Distribution line to PTRWA Line along Hwy 311 from Cedar Square Rd back to City Limit	124,417	
Liberty	Sewer to Hwy 421 - Old Liberty Rd		71,061
Liberty	Water to Hwy 421 - Old 421	32,573	
Liberty	Sewer to Hwy 421 - Old 422		54,132
Hwy 49 Sewer	PS and FM along 49 - PS#3 to Ramseur WWTP		74,036
Liberty	Water to Hwy 421 - Old Liberty Rd	28,724	
Archdale	Sewer Extension from Suits Rd to Cedar Square Rd		67,743
Seagrove/Ulah	Little River Rd Sewer imp		45,391
Hwy 49 Sewer	PS and FM along 49 - PS#2 to PS#3		42,429
Hwy 49 Sewer	PS and FM along 49 - PS#1 to PS#2		29,616
	<b>TOTAL FLOWS</b>	<b>7,342,406</b>	<b>4,473,264</b>

This will require an increase in the total water demand for new customers and for population increase in the County by approximately 9.2 mgd, and an increase in the wastewater treatment capacity of approximately 6.6 mgd. We recognize that some of this increase may be duplicated in the population increase and the new customers, as some of the new customers will be part of the future population, so these numbers should be conservative.

When trying to determine where this additional water will be produced and where the sewer will be treated, we assigned the flows to specific areas and compared them to available capacity in those areas. Appendix 1 table shows existing flows and capacities for the systems in the County. A



summary of anticipated increased flows and available capacity for each area affected by the proposed projects follows:

- Seagrove/Ulah will need 0.045 mgd of sewer capacity based on the extension of service and another 0.003 mgd from population increase for a total increase in sewer need of 0.048 mgd. With the recommended expansion of the WWTP to 0.175 mgd (from the phase 1 report) they will be able to handle the projected flows. Recently Seagrove has decided to purchase sewer capacity from the City of Asheboro for the Uwharrie Charter Academy and Pinewood Country Club Development projects. They are also reviewing the possibility of installing a pump station and pump all sewer to the City of Asheboro. The increase in water demand from population increase is approximately 0.046 mgd which is within their available capacity from the City of Asheboro and will leave them with approximately 0.311 mgd.
- Archdale will need 0.124 mgd in water and 0.068 mgd in sewer for the new service extensions, and 0.081 mgd in water and .128 mgd in sewer due to population increases, for a total of 0.25 mgd for water and 0.190 for sewer. They currently have 0.83 mgd in water capacity and 1.36 mgd in sewer capacity, so they should be able to meet their future needs.
- Liberty is the closest municipality to the new Toyota Battery Facility, so we anticipate they will see a large population growth from the job creation. The estimated water demand based on increase in population is 0.18 mgd and 0.33 in sewer. It appears that the Town of Liberty has a problem with Inflow and Infiltration based on the flow data provided, causing the average sewer demand to be higher than typically seen. We think a more reasonable planned sewer flow for population increase would be similar to the water demand, 0.18 mgd. The increase in water and sewer demand from the extension of services to the three interchanges at Highway 421 will require an increase of water demand of 0.12 mgd and 0.19 mgd in sewer. As part of this Master Plan, we included a water line from Ramseur up Highway 49 towards Liberty that could provide the needed increase in water flow. We also showed the developments along the three interchanges of Highway 421 sewer to be routed down Highway 49 to Ramseur WWTP. These flow numbers are therefore included in the projections for the Town of Ramseur noted below. If the water does not come from Ramseur, then the Town will need to make plans for a total increase in water demand of 0.3 mgd and a sewer capacity of .37 mgd. The water system has a current capacity of 0.33 mgd, so technically it could meet this demand, but would need to be making plans for expansion of the water system. The WWTP has an available capacity of 0.15 mgd which is not enough to handle the anticipated flows, so the Town does need to consider options for sewer disposal.
- Randleman, we are projecting an increase in flow of 0.336 mgd for water and 0.344 mgd for sewer due to population increase. There were no project requests for extension of services, so that is the total anticipated increase. The flow rate per person that was used to develop these numbers includes existing industrial flow which is a lot of the use in Randleman. Using this rate per person provides for additional industrial growth; however, the I-74 Industrial Center currently is projecting over 0.350 mgd of flow in sewer and 0.5 mgd in water. The water will be provided by the City of Randleman and the sewer will be pumped to the City of Asheboro. Therefore, we would increase the water demand to 0.6 mgd for the City of Randleman. The available capacity for Randleman is 0.499 water and 1.03 in sewer based on the local water supply plan; however, the City is concerned about the capacity of the WWTP and would rather not use much more capacity than is committed at this time. That is why the sewer from the I-74 Industrial Center is being sent to Asheboro. Based on this information, the City of Randleman has adequate sewer capacity but will need to increase water capacity. One option for this increase in water supply would be for the City to purchase some of the County's finished water from PTRWA. Currently the City has initiated some of



these discussions. Another possibility for additional water would be to increase the purchase of water from the City of Asheboro.

- Franklinville should see population growth from the Toyota Facility at a rate that is higher than their historical growth. Based on this, we anticipate an increase in need for water by 0.159 mgd and sewer by 0.061 mgd. The lower anticipated sewer need is based on the Town currently not having sewer service throughout the Town limits. If the Town makes an effort to extend sewer to more of the Town, then their sewer flow will increase proportionately. The proposed project extensions for water would increase the Town's need for water by 0.298 mgd. The sewer project will not directly increase sewer demand but would support extension of the Town's sewer system along Highway 64 which would increase the sewer demand. Franklinville currently purchases water from the Town of Ramseur but is currently working to purchase water from the City of Asheboro. The anticipated growth does not appear to exceed the amount of water available to the Town from either Ramseur or Asheboro. The Franklinville WWTP is currently rated at 0.10 mgd with a possible expansion of capacity to 0.20 mgd. The current available capacity in the Franklinville WWTP is 0.057 mgd, so the anticipated increase due to population growth would require an expansion of the WWTP. This is something that the Town should keep in mind as they will not be able to accept much sewer flow from growth along Highway 64 and they may want to coordinate in purchasing capacity in a more regional system such as has been described above in Ramseur.
- Ramseur is an area that has many unknowns and therefore is hard to project their water and sewer needs. With the potential CAM site development comes a desire for an additional 1 mgd of water from Ramseur and the possible need for at least 4 mgd of sewer treatment. It is likely that Ramseur will need a major expansion of the WWTP and improvements to the WTP. In addition to these demands the Town can expect higher than historic growth associated with the Toyota Facility as well as other potential industries. Historic growth using a slightly increased rate due to the industrial growth requires a flow of 0.18 mgd in water and 0.20 mgd in sewer. The increase in flows associated with the expansion projects is potentially 0.44 mgd water and 0.29 mgd sewer. This is in addition to the flows requested for the CAM site and Siler City/Chatham County. Ramseur can meet water flows up to approximately 1 mgd but will need to complete a major WWTP expansion/replacement to provide a capacity to handle the 4 mgd (Chatham County), plus 0.36 mgd expansion projects plus 0.20 mgd for Ramseur population growth plus 0.27 mgd for Liberty population growth for a total needed capacity of 4.83 mgd. There has been discussion about including another 1 mgd for future industrial growth to bring the total to 5.83 mgd for the needed capacity of the Ramseur WWTP. If the extension of sewer along Highway 64 in Franklinville exceeds their WWTP capacity, they will need some capacity in the Ramseur WWTP, so this could either be included as part of the 5.8 mgd or the WWTP capacity could be expanded to 6 mgd.
- The City of Asheboro should see significant growth in the next 20 years due to the anticipated industrial growth in Randolph County. As a result of this growth, we project an increase in water demand of 0.857 mgd and an increase in sewer flow of 1.020 mgd. The higher sewer flows are due to the influence of industrial flows and likely some inflow and infiltration. The increase in water and sewer flows due to the projected projects is 4 mgd for water and 0.35 mgd in sewer (from the I-74 Industrial Center). This creates a total need for 4.86 mgd of water and 1.37 mgd sewer. Asheboro currently has 8.5 mgd available capacity in the WTP and 4.78 mgd capacity at the WWTP so there is plenty of capacity for Asheboro to handle the anticipated growth through 2040.
- Randolph County is a member of the PTRWA and currently has a total capacity of 8.75 mgd in the reservoir. Of this 8.75, the County has purchased 1.25 mgd of finished water and pays



\$3,738 each month for this amount of water. The County previously sold 0.25 mgd of water to the City of Archdale, but that agreement was not renewed by the City of Archdale. This leaves 1.25 mgd for the County to sell to others to help meet the water needs in the county. Based on the anticipated flow needs from the various projects, we see a need for 2.22 mgd of water from the County/PTRWA. This is based on the total water needed by Asheboro, Ramseur, and the CAM site (7.22 mgd) with 4 mgd of this coming from Asheboro and 1 mgd from Ramseur. Based on the predicted population increases and associated water demand for Asheboro, Seagrove, Ramseur, and Franklinville, we see the need for an additional 1.24 mgd of water. This can be met by a combination of increased flow from Asheboro or additional purchase from PTRWA. PTRWA is planning an expansion of the WTP and needs to know how much capacity the County would like out of this expansion. We recommend further discussions with the City of Asheboro and the County to verify how much capacity Asheboro can meet and then the County will make up the balance through purchase of expansion of the PTRWA WTP. Potentially the County will need to increase capacity from PTRWA by 2.21 mgd (for a total of 3.46 mgd of finished water) to sell to Asheboro who will then sell to meet the increases of the adjacent systems.

## PROJECT PRIORITIZATION

Once the final list of projects was determined, we collected data for each project to help compare the benefits to the County and developed a matrix to help the County evaluate the projects and prioritize which ones should be funded. We included the requests that were initially submitted to the County along with the projects that were developed as a result of the community meetings. We removed the projects that have received funding from other sources. This matrix considered:

- Number of parcels affected by the project
- Number of acres affected by the project
- Number of existing residential dwellings
- Number of existing commercial or industrial buildings
- Does the project primarily help residential, commercial, or industrial properties
- Is the project within an economically distressed area as shown on the NCDEQ Communities Mapping system
- Number of municipalities benefiting (adding customers) from project
- Would the project qualify for other funding
- Will the project help alleviate problem septic systems or wells

Based on this information, we evaluated the data and developed a score for each of these categories. We soon recognized that many of the project requests were more of a maintenance project than an extension of services. This made them hard to compare against service extension projects, therefore we made a prioritized list of projects that are considered maintenance and a separate list of projects that are for extension of services.

The maintenance projects ranking, and matrix is shown in Appendix 4, but a summary of the list is as follows:



**Table 5 – Ranking of Maintenance Projects**

<u>Request from</u>	<u>Amount of Request</u>	<u>Short Description</u>	<u>Total Score</u>
Ramseur	\$524,940	Main PS FM Replacement	<b>28</b>
Franklinville	\$1,292,500	Ogle's Creek PS & FM Imp	<b>16</b>
Ramseur	\$130,520	Reedy Creek PS Storage increase	<b>16</b>
Ramseur	\$520,260	Gravity Sewer Line Replacement	<b>13</b>
Ramseur	\$525,591	Replace Tube PS on West Side of River	<b>9</b>

Another “maintenance” project that the County should consider is the needed contaminant removal improvements that are to be made at the PTRWA WTP. This project will cost approximately \$50 million, so Randolph County’s portion of this cost will be approximately \$9.6 million. This is a cost that is somewhat outside of the County’s control due to being a part of the PTRWA and this project is being required by tightening contaminant limits.

The ranking of the other projects that are considered extensions of service was completed two different ways. The first way was just to score the project using the matrix without considering the different sizes of the projects (see Appendix 5). This provided a scoring as follows:

**Table 6 – Ranking of Projects Based on Initial Score**

<u>Request from</u>	<u>Amount of Request</u>	<u>Short Description</u>	<u>Total Score</u>
Ramseur	\$27,218,700	Hwy 64 Water Line to Chatham County	<b>39</b>
Franklinville	\$4,899,000	12" WL Loop with Asheboro & Meter vault	<b>34</b>
Hwy 49 WL	\$8,985,800	WL from Ramseur to Liberty	<b>34</b>
Franklinville	\$4,425,000	Cedar Falls WL	<b>31</b>
Liberty	\$4,257,900	Sewer to Hwy 421 - NC Hwy 49	<b>26</b>
Liberty	\$1,351,400	Water to Hwy 421 - NC Hwy 49	<b>25</b>
Asheboro	\$7,583,100	18" Water Connection with PTRWA	<b>22</b>
Ramseur	\$34,706,300	Hwy 64 East Sewer	<b>22</b>
Archdale	\$2,872,800	Parallel Distribution line to PTRWA Line along Hwy 311 especially from Cedar Square Rd back to City Limit	<b>21</b>
Liberty	\$4,298,600	Sewer to Hwy 421 - Old Liberty Rd	<b>20</b>
Liberty	\$894,100	Water to Hwy 421 - Old 421	<b>18</b>
Liberty	\$2,964,300	Sewer to Hwy 421 - Old 421	<b>18</b>
Hwy 49 Sewer	\$5,596,600	PS and FM along 49 – PS #3 to Ramseur WWTP	<b>18</b>
Liberty	\$736,400	Water to Hwy 421 - Old Liberty Rd	<b>17</b>
Archdale	\$4,383,100	Sewer Extension from Suits Rd to Cedar Square Rd	<b>17</b>
Seagrove/Ulah	\$1,984,000	Little River Rd Sewer imp	<b>14</b>



Hwy 49 Sewer	\$2,981,900	PS and FM along 49 – PS #2 to PS #3	<b>11</b>
Hwy 49 Sewer	\$2,407,900	PS and FM along 49 – PS #1 to PS #2	<b>9</b>

In reviewing, it became apparent that the score for a project was somewhat affected by the size of the project. We then established a way to weigh the score based on the length of the associated line by taking the data provided and dividing it by the length of the project in thousands of feet. This helped equalize the projects to be more comparable based on the benefits of the project. Using this process, we came up with the following prioritized list based on the total modified score (see Appendix 7). The previous total score is shown for comparison purposes.

**Table 7 – Ranking of Projects Based on Modified Score**

<u>Request from</u>	<u>Amount of Request</u>	<u>Short Description</u>	<u>Total Score</u>	<u>Modified Total Score</u>
Ramseur	\$27,218,700	Hwy 64 Water Line to Chatham County	<b>39</b>	<b>27</b>
Franklinville	\$4,899,000	12" WL Loop with Asheboro & Meter vault	<b>34</b>	<b>27</b>
Ramseur	\$34,706,300	Hwy 64 East Sewer	<b>22</b>	<b>27</b>
Hwy 49 Sewer	\$5,596,600	PS and FM along 49 – PS #3 to Ramseur WWTP	<b>18</b>	<b>24</b>
Hwy 49 WL	\$8,985,800	WL from Ramseur to Liberty	<b>34</b>	<b>23</b>
Liberty	\$4,257,900	Sewer to Hwy 421 - NC Hwy 49	<b>26</b>	<b>23</b>
Liberty	\$1,351,400	Water to Hwy 421 - NC Hwy 49	<b>25</b>	<b>22</b>
Franklinville	\$4,425,000	Cedar Falls WL	<b>31</b>	<b>20</b>
Hwy 49 Sewer	\$2,981,900	PS and FM along 49 – PS #2 to PS #3	<b>11</b>	<b>20</b>
Liberty	\$894,100	Water to Hwy 421 - Old 421	<b>18</b>	<b>19</b>
Liberty	\$2,964,300	Sewer to Hwy 421 - Old 422	<b>18</b>	<b>18</b>
Liberty	\$736,400	Water to Hwy 421 - Old Liberty Rd	<b>17</b>	<b>17</b>
Archdale	\$2,872,800	Parallel Distribution line to PTRWA Line along Hwy 311 especially from Cedar Square Rd back to City Limit	<b>21</b>	<b>16</b>
Liberty	\$4,298,600	Sewer to Hwy 421 - Old Liberty Rd	<b>20</b>	<b>16</b>
Seagrove/Ulah	\$1,984,000	Little River Rd Sewer imp	<b>14</b>	<b>15</b>
Archdale	\$4,383,100	Sewer Extension from Suits Rd to Cedar Square Rd	<b>17</b>	<b>13</b>
Asheboro	\$7,583,100	18" Water Connection with PTRWA	<b>22</b>	<b>13</b>
Hwy 49 Sewer	\$1,523,900	PS and FM along 49 – PS #1 to PS #2	<b>9</b>	<b>12</b>

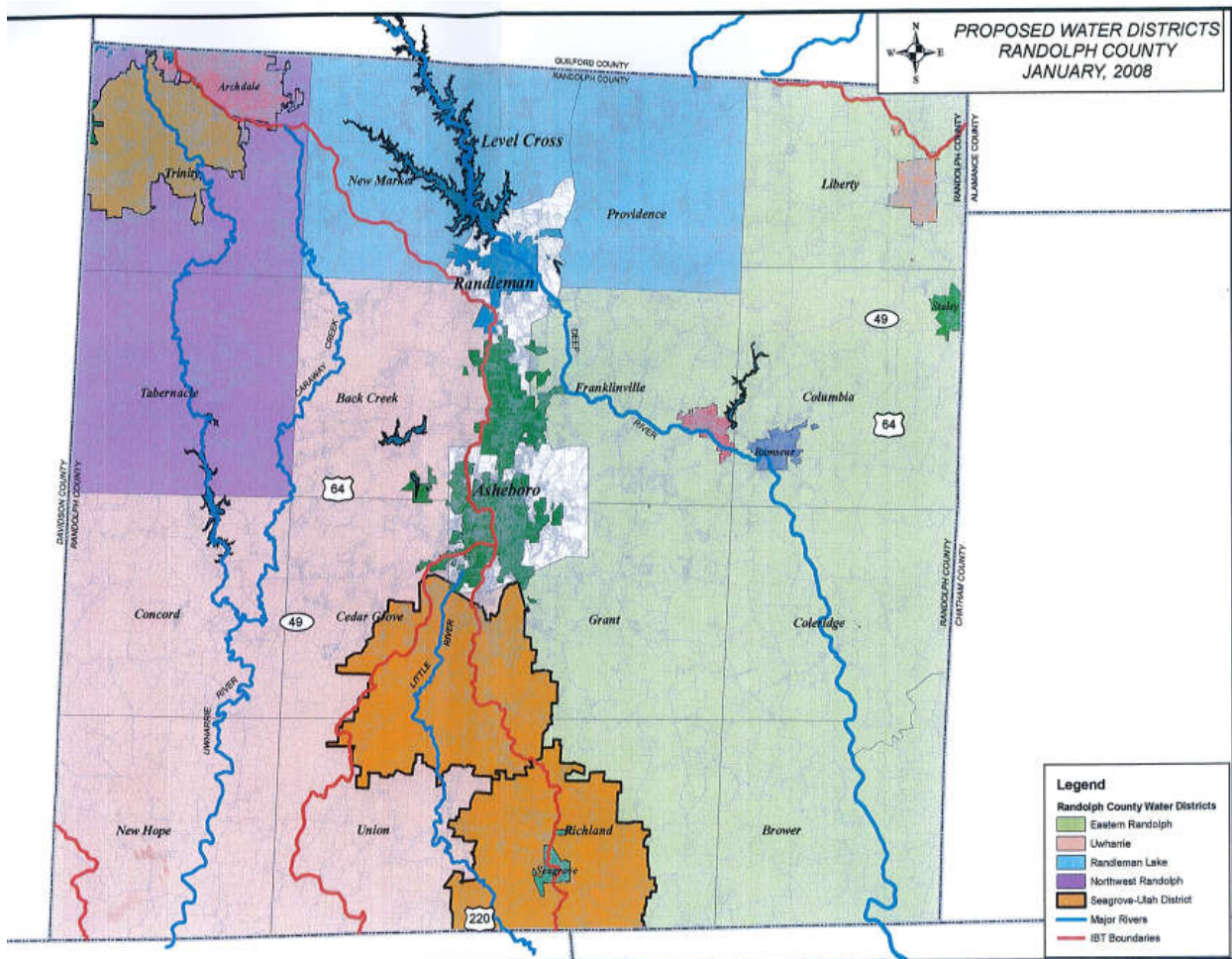




The first two projects are the same on both lists, but it is possible that both of these projects will be funded by the City of Asheboro as part of the water improvements to serve the CAM site. That funding would also complete the Asheboro 18" Water Connection with PTRWA which scored high on the Total Score list but not the Total Modified Score list.

## EASTERN RANDOLPH COUNTY WATER AND SEWER DISTRICT

There is an existing Eastern Randolph Water and Sewer District. The County may want to work to move forward within this organization to handle the multiple entities and interests and getting water through the Highway 64 corridor. Below is a copy of the map developed in the 2008 Hazen and Sawyer Water and Sewer Master Plan:



You can see that the Eastern Randolph District covers Franklinville, Ramseur, and Liberty. The following is a copy of the unsigned Resolution forming the Eastern Randolph Water and Sewer District





## RANDOLPH COUNTY BOARD OF COMMISSIONERS

Randolph County Office Building ■ 725 McDowell Road ■ P. O. Box 472B  
Asheboro, North Carolina 27204-4728 ■ Telephone: (336) 318-6300

### RESOLUTION TO CREATE THE EASTERN RANDOLPH WATER AND SEWER DISTRICT

**WHEREAS**, Article 6 of Chapter 162A of the General Statutes of North Carolina authorizes and empowers the Board of Commissioners of any county to create a county water and sewer district; and

**WHEREAS**, the Board of Commissioners of Randolph County has employed Hobbs Upchurch & Associates to develop a county-wide water plan, including recommendations for the establishment of county water and sewer districts; and

**WHEREAS**, the county-wide water plan recommends the establishment of a county water and sewer district to consist of the territories located within the Townships of Liberty, Columbia, Coleridge, Brower, Richland, Grant, Franklinville, and Pleasant Grove, but excluding all territories lying within the corporate limits of a city or town and excluding any territories already located in an existing water and sewer district; and

**WHEREAS**, the Board of Commissioners of Randolph County has held a public hearing to consider the creation of said district after giving notice of said public hearing as required by law.

**NOW, THEREFORE, BE IT RESOLVED** by the Randolph County Board of Commissioners that:

1. There is a demonstrable need for providing water and sewer services in the proposed district; and
2. The residents of all the territory proposed to be included in the district will benefit from the district's creation; and
3. It is economically feasible to provide the proposed services in the district without unreasonable or burdensome annual tax levies; and
4. A county water and sewer district is therefore hereby created consisting of the territories located within the Townships of Liberty, Columbia, Coleridge, Brower, Richland, Grant, Franklinville, and Pleasant Grove, but excluding all territories lying within the corporate limits of a city or town and excluding any territories already located in an existing water and sewer district; and
5. The name of the district shall be the Eastern Randolph Water and Sewer District.

This the 4<sup>th</sup> day of February, 2008.

\_\_\_\_\_  
J. Harold Holmes, Chairman  
Randolph County Board of Commissioners

ATTEST:

\_\_\_\_\_  
Cheryl A. Ivey, Clerk  
Randolph County Board of Commissioners

— TOLL FREE NUMBERS —  
Greensboro Area: 218-4300 ■ Archdale-Trinity Area: 819-3300 ■ Liberty Area: 218-4300

This entity will allow for representatives of each community to control the operation of the water and sewer systems in this area to make sure the system benefits all of the participants and the Eastern Randolph County area. This entity could also extend water and sewer service throughout the eastern part of the County to support citizens that are having problems with wells and septic tanks.

It should also be noted that the City of Greensboro has recently begun working on a Master Plan to evaluate water and sewer to the lower part of Guilford County as well as the northern part of Randolph County. This master plan could affect how water and sewer service is provided to Randleman and Liberty. We hope the information provided in this Randolph County Water and Sewer Master Plan will aid in the City of Greensboro analysis.



## CONCLUSION

Randolph County has received over \$26 million in funding and would like to invest in projects in the County that will have the most impact for the County. The County received requests from communities and developed a list of additional projects based on meetings with all of the communities in the County. From these lists and population growth projections, an estimate of demands in the County is for an increase in water needs at 9.2 mgd and sewer needs at 6.6 mgd. The projects were ranked based on a matrix which included things that would most help the residents of Randolph County and support the development of water and sewer along major corridors in the County without the County having to get into the water and sewer business. The County should be able to review the provided data and come up with reasonable decisions on which projects to fund out of the funds they have been provided.

The Wooten Company appreciates this opportunity to be of service to Randolph County and we are happy to assist the County in further developing any of the projects discussed in this report or provide further evaluation if so desired.



APPENDIX 1 TABLE SHOWS EXISTING FLOWS AND CAPACITIES FOR THE SYSTEMS IN THE COUNTY

<b>WATER/SEWER PROVIDERS SERVING AREAS WITHIN RANDOLPH COUNTY</b>									
<b>Municipality</b>	<b>LWSP Approval Year</b>	<b>Projected Population</b>		<b>Permitted WTP Capacity (MGD)</b>	<b>Avg Metered Water Use (MGD)</b>	<b>Finished Water Storage Capacity (MG)</b>	<b>Permitted Wastewater Capacity (MGD)</b>	<b>Wastewater Avg Annual Daily Discharge (MGD)</b>	<b>Water Supply Source</b>
		<b>2020</b>	<b>2040</b>						
Seagrove-Ulah	2019	2,350	2,450	None	0.143	0.5	0.08	0.00978	Purchased from Asheboro, 0.5 mgd cap
Randleman	2020	4,175	4,301	None	0.701	0.85	1.745	0.7183	Purchased from Asheboro 0.2mgd/PTRWA 1 mgd
Ramseur	2020	2,893	2,893	1.5	0.3058	1	0.48	0.209	Ramseur WTP
PTR Water Authority*	2020	0	0	14.7	11.204	8.3	No Limit	1.06	John F. Kime WTP
Liberty**	2020	2,655	2,992	0.559	0.2258	0.95	0.55	0.4033	9 Groundwater Wells
High Point	2020	115,526	124,189	24	13.924	19	36	19.24	Frank L Ward WTP
Handy Sanitary District***	2020	3,157	3,472	None	0.3	1.6	0	0.117	Purchased from Davidson Water and Town of Denton
Franklinville	2020	1,196	1,300	None	0.127	0.5	0.1	0.043	Purchased from Ramseur 0.5 mgd cap?
Davidson Water	2020	159,611	198,205	27	8.0685	19.125	0.88	0	C.O. Pickle and Gregg W Stabler WTP
Asheboro	2020	26,073	27,000	12	3.545	6.36	9	4.22	W.L. Brown Jr WTP
Archdale****	2020	12,000	15,000	None	0.7269	0.75	0	1.142	Purchased from Davidson Water, High Point 2.5 mgd sewer cap, PTRWA 1.557 mgd cap
	*Wastewater Permit for Plant Discharge Only								
	**12-Hour Water Supply Due to Well Production								
	***Waste Water Accepted by Town of Troy								
	****Wastewater Accepted by City of High Point								

APPENDIX 2 -PROJECTED 2040 POPULATION

Area Name	April 2010 Population	July 1, 2020 Certified Population Estimate	Current flows (mgd)				Population Change	% change over 10 yrs	Toyota Growth Distribution	
			Water (mgd)	Sewer (mgd)	Water (gpd/person)	Sewer (gpd/person)			% Distribution	# People
Liberty	2656	2,658	0.2258	0.4033	85.0	151.7	2	0.08%	20.0%	1050
Staley	393	398	0	0	0.0	0.0	5	1.27%	1.0%	53
Franklinville	1164	1,199	0.113	0.043	94.2	35.9	35	3.01%	10.0%	525
Ramseur	1692	1,776	0.1928	0.209	108.6	117.7	84	4.96%	10.0%	525
Randleman	4113	4,608	0.701	0.7183	152.1	155.9	495	12.04%	10.0%	525
Asheboro	25012	27,191	3.545	4.22	130.4	155.2	2179	8.71%	25.0%	1313
Trinity (Davidson Water)	6614	7,015				0.0	401	6.06%	1.0%	53
Archdale	11415	11,907	0.7269	1.142	61.0	95.9	492	4.31%	5.0%	263
Seagrove (Seagrove/Ulah)	228	235	0.143	0.00978	608.5	41.6	7	3.07%	0.5%	26.25
									82.0%	% of the po
Randolph County		144,359						4.50%	1	5,250

APPENDIX 2 - CONTINUED FROM ABOVE

Area Name	Projected 2025 Population	% change over 5 yrs	Avg % growth/yr btwn Ind growth and Hist Growth	2040 Population based on 2025 + Avg btn Ind & Hist	Projected 2040 Population based on 2025 + Hist growth	Projected 2040 Population	Projected Flow based on avg consumption (gpd)			
							Water (mgd)	Sewer (mgd)	Water Increase (gpd)	Sewer Increase (gpd)
Liberty	3,706	39.50%	1.98%	4,809	3,712	4,809	0.41	0.73	182,737	326,386
Staley	446	13.19%	1.38%	545	461	545	0.00	0.00	0	0
Franklinville	1,689	43.79%	4.53%	2,889	1,796	2,889	0.27	0.10	159,316	60,625
Ramseur	2,301	29.56%	3.20%	3,451	2,477	3,451	0.37	0.41	181,841	197,120
Randleman	5,381	11.39%	1.74%	6,815	6,242	6,815	1.04	1.06	335,814	344,102
Asheboro	29,593	4.83%	0.92%	33,764	33,241	33,764	4.40	5.24	856,968	1,020,142
Trinity	7,268	0.75%	0.38%	7,692	7,918	7,918	0.00	0.00	0	0
Archdale	12,416	2.20%	0.44%	13,238	13,196	13,238	0.81	1.27	81,256	127,657
Seagrove	242	11.17%	1.27%	311	276	311	0.19	0.01	46,233	3,162
pulation growth for Toyota plant to be in towns									<b>1,844,166</b>	<b>2,079,194</b>
	152,857	3.64%	0.41%	162,185	162,601	162,601				

### APPENDIX 3 – MAPS OF COUNTY AND PROPOSED PROJECTS WITH ASSOCIATED COST OPINIONS

Map - Proposed infrastructure Improvements in Randolph County, NC

Cost Opinion - City of Archdale Water & Sewer at Cedar Square Interchange

Map – Proposed Infrastructure Improvements Along US Highway 311 Randolph Co., NC

Cost Opinion – Asheboro to PTRWA Water Line

Map – Proposed Infrastructure Improvements from Asheboro to PTRWA Alternative 1

Cost Opinion – Town of Liberty – Water and Sewer to 421 at Old Liberty Rd. Interchange

Map – Proposed Infrastructure Improvements US421 and Old Liberty Road

Cost Opinion – Town of Liberty – Water and Sewer to 421 at Old421 Interchange

Map – Proposed Infrastructure Improvements US421 and Old US421

Cost Opinion – Town of Liberty – Water and Sewer to 421 at Highway 49 Interchange

Map – Proposed Infrastructure Improvements US 421 and NC49

Cost Opinion – Highway 49 Water Line

Map – Proposed Infrastructure Improvements US 421 and NC 49 PS to PS 1 NC Highway 49

Cost Opinion – Highway 49 Sewer – PS 1 to PS 2

Map – Proposed Infrastructure Improvements PS 1 to PS 2 NC Highway 49

Cost Opinion – Highway 49 Sewer – PS 2 to PS 3

Map – Proposed Infrastructure Improvements PS 2 to PS 3 NC Highway 49

Cost Opinion – Highway 49 Sewer – PS 3 to Ramseur WWTP

Map – Proposed Infrastructure Improvements – PS 3 to WWTP NC Highway 49

Cost Opinion – Ramseur Highway 64 East Sewer

Map – Proposed Infrastructure Improvements in Eastern Ramseur

Cost Opinion – Ramseur Highway 64 East Water Line

Map – Proposed Infrastructure Improvements in Ramseur



# Proposed Infrastructure Improvements in Randolph County, NC

August 2022

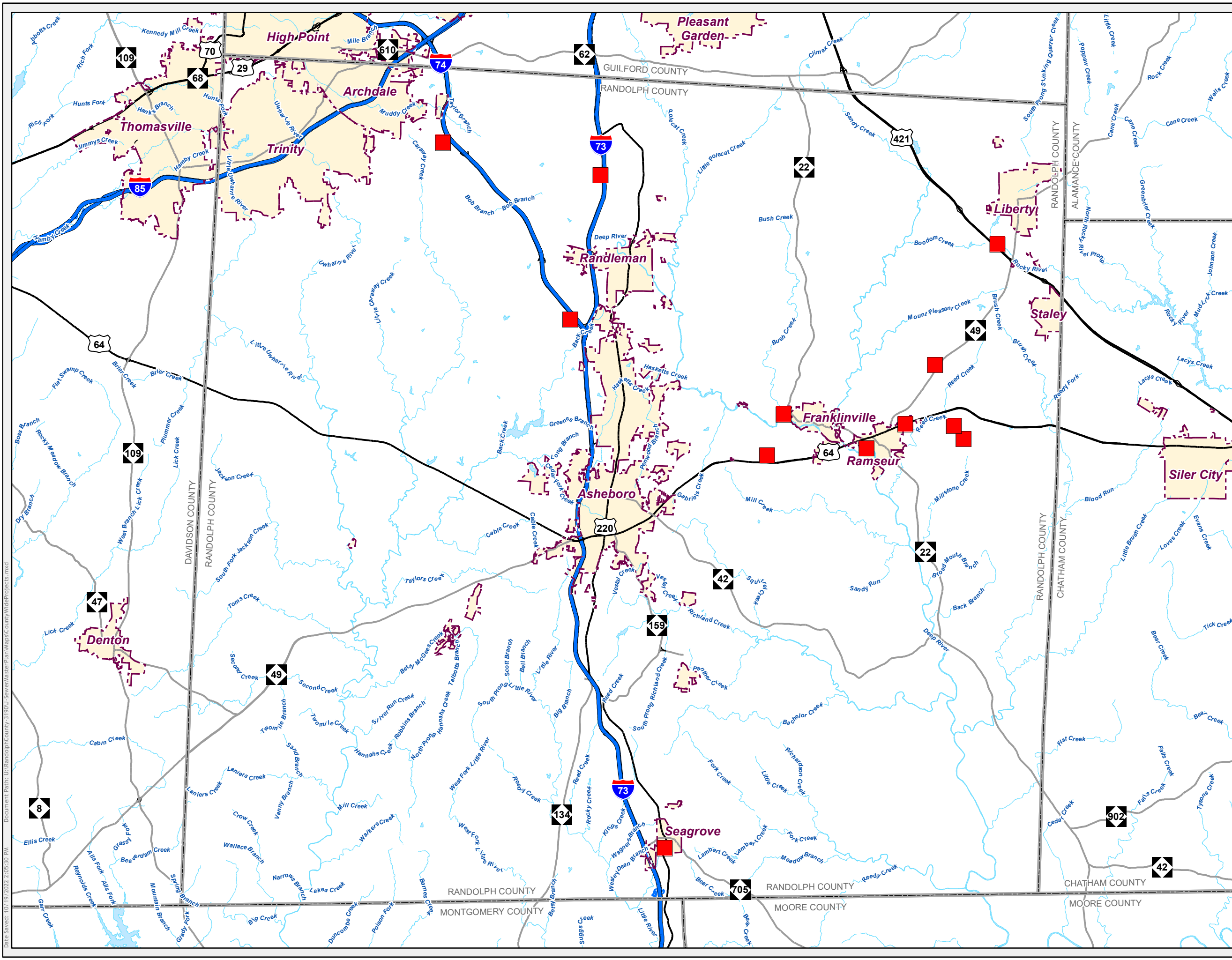
- Legend**
- Proposed Project
  - Interstate
  - US Route
  - NC Route
  - Ramp
  - Rest Area
  - Stream
  - Lake/River
  - Municipal Boundary



1 inch = 3 miles  
0 1 2  
Miles

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Document Path: U:\RandolphCounty\1900\_SewerMasterPlan\Map\ RandolphCountyWideProjects.mxd  
Date Saved: 10/19/2022 2:05:30 PM

**OPINION OF POSSIBLE PROJECT COST<sup>1</sup>**  
**City of Archdale Water & Sewer at Cedar Square interchange**

**THE WOOTEN COMPANY**  
**Sewer**

**10/20/2022**

DESCRIPTION	UNITS	TOTAL QUANTITY	UNIT COST	EXTENDED COST
<b>Water</b>				
1 Mobilization	LS	1	\$58,300.00	\$58,300.00
2 8" Water Line	LF	13,400	\$120.00	\$1,608,000.00
3 8" Water Valve	EA	8	\$3,500.00	\$28,000.00
4 16" B&J Rd Crossing	LF	400	\$500.00	\$200,000.00
5 Fire Hydrant Assembly	EA	14	\$7,500.00	\$105,000.00
6 Meter Vault	EA	1	\$200,000.00	\$200,000.00
Subtotal				\$2,199,300.00
<b>Sewer</b>				
7 Mobilization	LS	1	\$100,700.00	\$100,700.00
8 8" Gravity Sewer	LF	6,730	\$220.00	\$1,480,600.00
9 4" Sewer Force Main	LF	13,750	\$80.00	\$1,100,000.00
10 4" Sewer Force Main by Direct Bore	LF	200	\$150.00	\$30,000.00
11 4" Sewer Force Main by HDD	LF	400	\$300.00	\$120,000.00
12 16" B&J Rd Crossing	LF	450	\$500.00	\$225,000.00
13 150 gpm Sewer Pump Station	LS	1	\$400,000.00	\$400,000.00
Subtotal				\$3,355,600.00
Construction Cost Subtotal				\$5,554,900.00
Easements and Property (5 easements and PS Lot)				\$35,000.00
Engineering (Design, CA, CO)(20%)				\$1,111,000.00

**ESTIMATED TOTAL PROJECT COST** **\$7,255,900.00**  
 Water \$2,872,800.00  
 Sewer \$4,383,100.00

**PRELIMINARY**





**OPINION OF POSSIBLE PROJECT COST<sup>1</sup>**  
**Asheboro to PTRWA Water Line**

**THE WOOTEN COMPANY**

**10/20/2022**

DESCRIPTION	UNITS	TOTAL QUANTITY	UNIT COST	EXTENDED COST
<b>Water</b>				
1 Mobilization	LS	1	\$159,600.00	\$159,600.00
2 18" Water Line	LF	18,200	\$260.00	\$4,732,000.00
3 18" Water Valve	EA	6	\$15,000.00	\$90,000.00
4 30" B&J Rd Crossing	LF	400	\$800.00	\$320,000.00
5 Fire Hydrant Assembly	EA	5	\$7,500.00	\$37,500.00
6 Connect to Existing Water Line	EA	1	\$15,000.00	\$15,000.00
7 Air Release Valves	EA	5	\$25,000.00	\$125,000.00
8 Meter Vault	EA	1	\$200,000.00	\$200,000.00
Subtotal				\$5,679,100.00

Construction Cost Subtotal	\$5,679,100.00
Contingency (10%)	\$568,000.00
Easements and Property (20 parcels)	\$200,000.00
Engineering (Design, CA, CO)(20%)	\$1,136,000.00
<b>ESTIMATED TOTAL PROJECT COST</b>	<b>\$7,583,100.00</b>

**PRELIMINARY**



# Proposed Infrastructure Improvements from Asheboro to PTRWA Alternative 1 Randolph County, NC

August 2022

### Legend

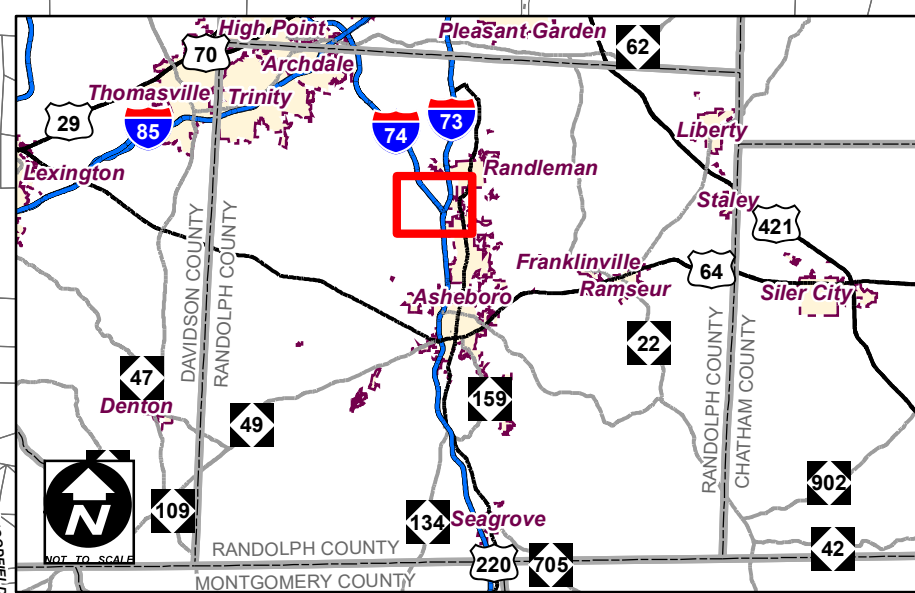
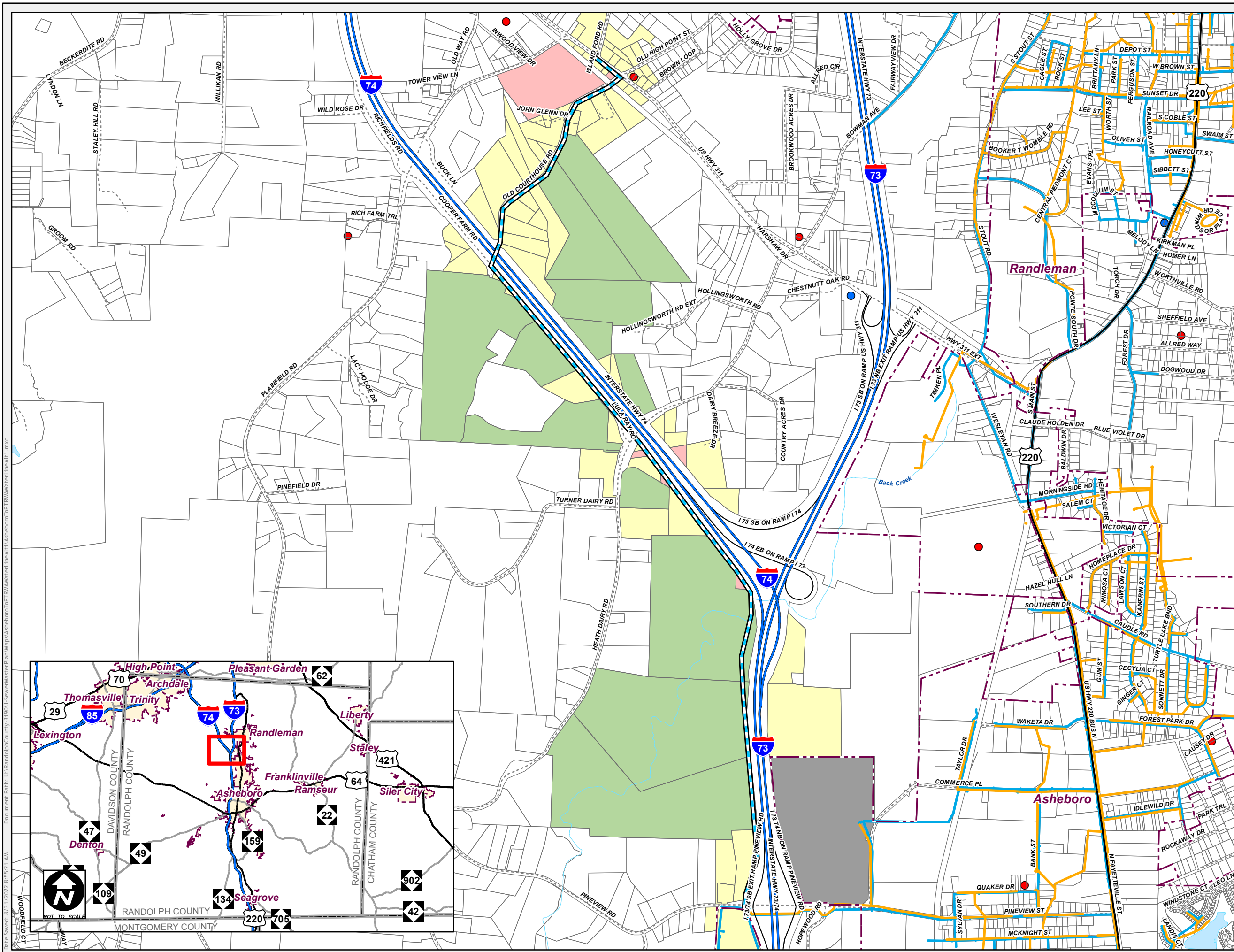
- Contaminated Well
- Septic Complaint
- Proposed Water Main
- Existing Wastewater
- Existing Water Main
- Interstate
- US Route
- Ramp
- Street
- Stream
- Lake
- Parcel
- Municipal Boundary
- Land Use
  - Residential
  - Commercial
  - Industrial
  - Agricultural



1 inch = 1,600 feet  
0 800 1,600  
Feet

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WOODFIELD CT

**OPINION OF POSSIBLE PROJECT COST<sup>1</sup>**

**Town of Liberty - Water & Sewer to 421  
At Old Liberty Rd Interchange**

**THE WOOTEN COMPANY**

**10/20/2022**

**Sewer**

DESCRIPTION	UNITS	TOTAL QUANTITY	UNIT COST	EXTENDED COST
<b>Water</b>				
1 Mobilization	LS	1	\$16,400.00	\$16,400.00
2 8" Water Line	LF	2,800	\$120.00	\$336,000.00
3 16" B&J Rd Crossing	LF	400	\$500.00	\$200,000.00
4 Connect to Existing Water Line	EA	1	\$10,000.00	\$10,000.00
Subtotal				\$562,400.00
<b>Sewer</b>				
5 Mobilization	LS	1	\$95,700.00	\$95,700.00
6 8" Gravity Sewer	LF	6,150	\$220.00	\$1,353,000.00
7 4" Sewer Force Main	LF	15,110	\$80.00	\$1,208,800.00
8 4" Sewer Force Main by Direct Bore	LF	40	\$150.00	\$6,000.00
9 16" B&J Rd Crossing	LF	400	\$500.00	\$200,000.00
10 Stream Crossing	EA	1	\$20,000.00	\$20,000.00
11 150 gpm Sewer Pump Station	LS	1	\$400,000.00	\$400,000.00
Subtotal				\$3,283,500.00

Construction Cost Subtotal	\$3,845,900.00
Contingency (10%)	\$385,000.00
Easements and Property (5 easements and PS Lot)	\$35,000.00
Engineering (Design, CA, CO)(20%)	\$769,000.00

**ESTIMATED TOTAL PROJECT COST                   \$5,034,900.00**

Water	\$736,300.00
Sewer	\$4,298,600.00

**PRELIMINARY**



# Proposed Infrastructure Improvements US421 and Old Liberty Road Randolph County, NC

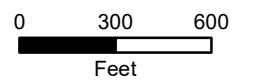
August 2022

### Legend

- Septic Complaint
- PS Proposed Pump Station
- Proposed Manhole
- Proposed Force Main
- Proposed Sewer
- Proposed Water Line
- Existing Wastewater
- Existing Water Main
- US Route
- Ramp
- Street
- Stream
- ▭ Municipal Boundary
- Land Use
  - Residential
  - Commercial
  - Industrial
  - Agricultural



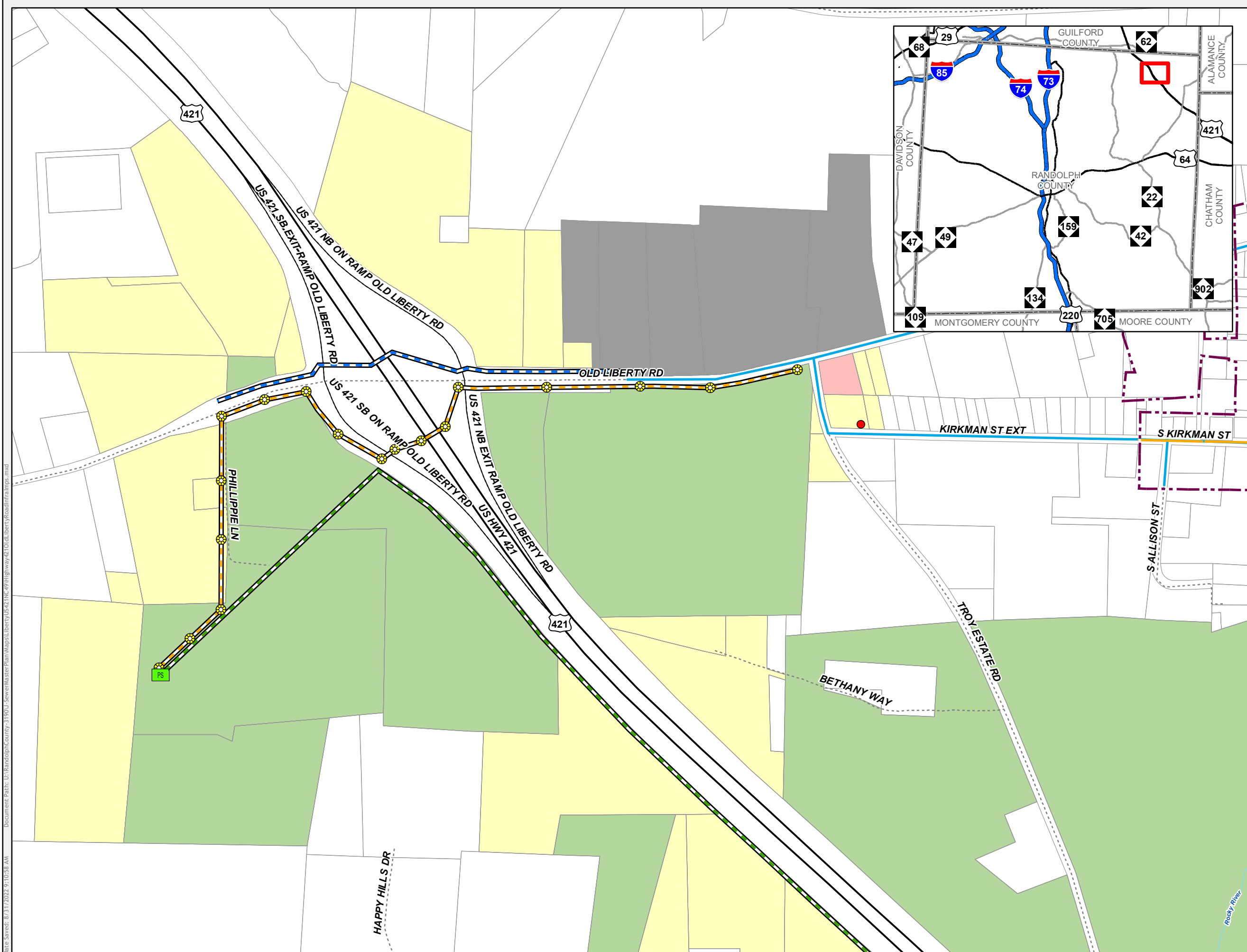
1 inch = 600 feet



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**OPINION OF POSSIBLE PROJECT COST<sup>1</sup>**  
**Town of Liberty - Water & Sewer to 421**  
**At Old 421 Interchange**

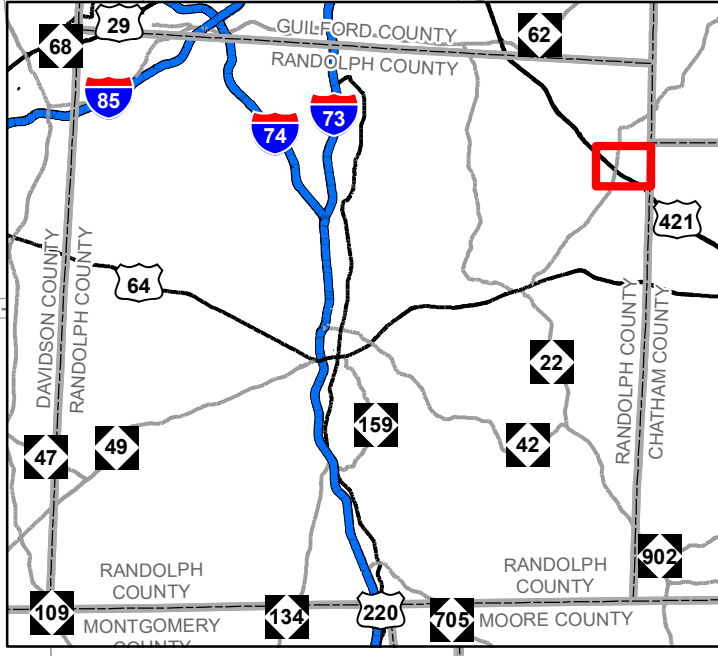
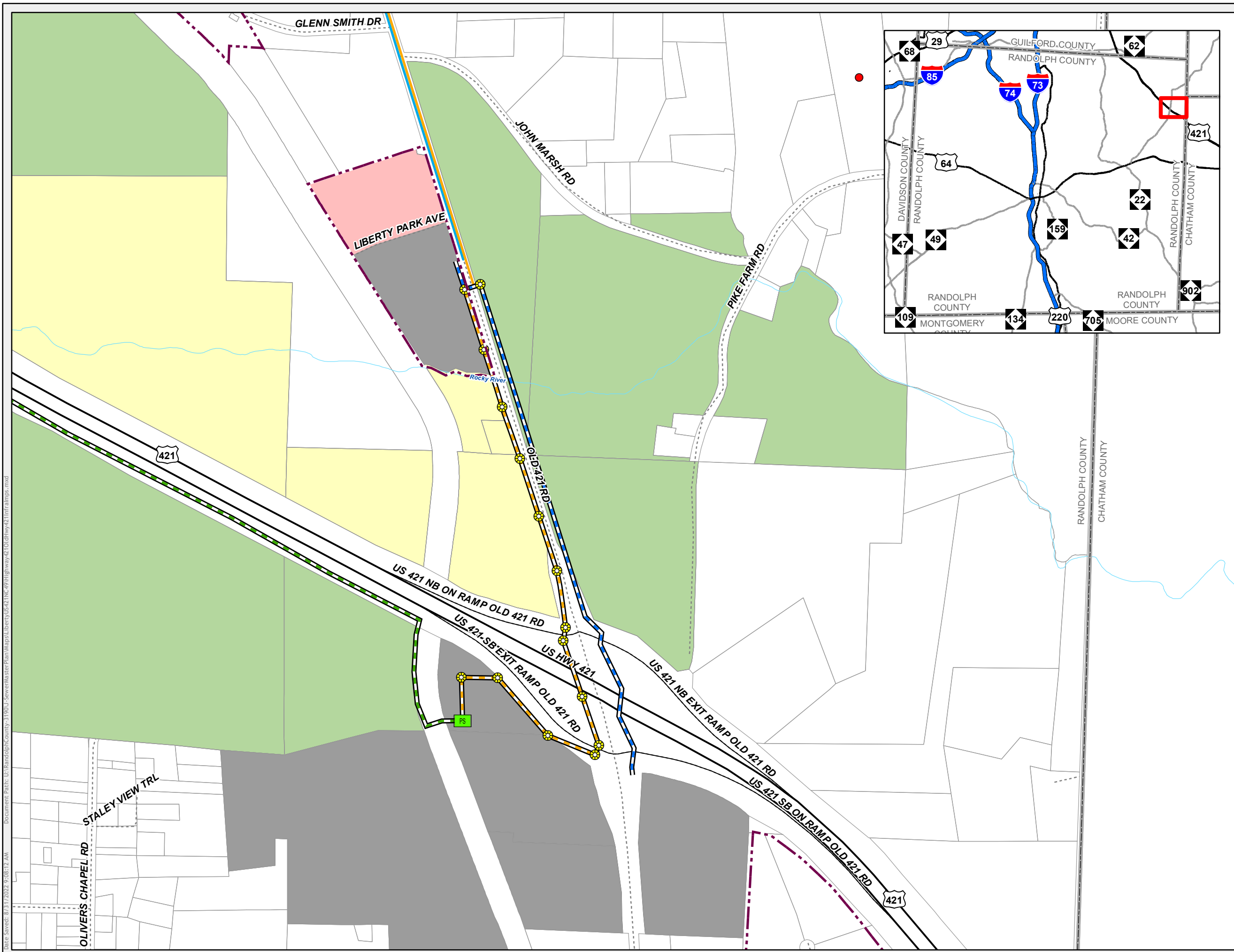
**THE WOOTEN COMPANY**  
**Sewer**

**10/20/2022**

DESCRIPTION	UNITS	TOTAL QUANTITY	UNIT COST	EXTENDED COST
<b>Water</b>				
1 Mobilization	LS	1	\$20,000.00	\$20,000.00
2 8" Water Line	LF	3,800	\$120.00	\$456,000.00
3 16" B&J Rd Crossing	LF	400	\$500.00	\$200,000.00
4 Connect to Existing Water Line	EA	1	\$10,000.00	\$10,000.00
Subtotal				\$686,000.00
<b>Sewer</b>				
5 Mobilization	LS	1	\$66,300.00	\$66,300.00
6 8" Gravity Sewer	LF	4,740	\$220.00	\$1,042,800.00
7 4" Sewer Force Main	LF	6,035	\$80.00	\$482,800.00
8 16" B&J Rd Crossing	LF	400	\$500.00	\$200,000.00
9 16" B&J RR Crossing	LF	150	\$550.00	\$82,500.00
10 150 gpm Sewer Pump Station	LS	1	\$400,000.00	\$400,000.00
Subtotal				\$2,274,400.00

Construction Cost Subtotal	\$2,960,400.00
Contingency (10%)	\$296,000.00
Easements and Property (PS Lot)	\$10,000.00
Engineering (Design, CA, CO)(20%)	\$592,000.00
<b>ESTIMATED TOTAL PROJECT COST</b>	<b>\$3,858,400.00</b>
Water	\$894,100.00
Sewer	\$2,964,300.00

**PRELIMINARY**



Proposed Infrastructure Improvements  
 US421 and Old US421  
 Randolph County, NC  
 August 2022

Legend

- Septic Complaint
  - PS Proposed Pump Station
  - Proposed Manhole
  - Proposed Force Main
  - Proposed Sewer
  - Proposed Water Line
  - US Route
  - Ramp
  - Street
  - Stream
  - Municipal Boundary
- Land Use
- Residential
  - Commercial
  - Industrial
  - Agricultural



1 inch = 600 feet  
 0 300 600  
 Feet



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**OPINION OF POSSIBLE PROJECT COST<sup>1</sup>**

Town of Liberty - Water & Sewer to 421  
At Highway 49 Interchange

**THE WOOTEN COMPANY**

**10/20/2022**

**Sewer**

DESCRIPTION	UNITS	TOTAL QUANTITY	UNIT COST	EXTENDED COST
<b>Water</b>				
1 Mobilization	LS	1	\$30,200.00	\$30,200.00
2 8" Water Line	LF	6,180	\$120.00	\$741,600.00
3 16" B&J Rd Crossing	LF	460	\$500.00	\$230,000.00
4 Connect to Existing Water Line	EA	1	\$10,000.00	\$10,000.00
5 Stream Crossing	EA	1	\$20,000.00	\$20,000.00
6 Pavement Patching	SY	40	\$100.00	\$4,000.00
Subtotal				\$1,035,800.00
<b>Sewer</b>				
7 Mobilization	LS	1	\$47,900.00	\$47,900.00
8 8" Gravity Sewer	LF	6,030	\$220.00	\$1,326,600.00
9 16" B&J Rd Crossing	LF	490	\$500.00	\$245,000.00
10 Stream Crossing	EA	1	\$20,000.00	\$20,000.00
11 Pavement Patching	SY	40	\$100.00	\$4,000.00
12 Pump Station	LS	1	\$600,000.00	\$600,000.00
13 6" Force Main to Hwy 49 PS 1	LF	10,200	\$100.00	\$1,020,000.00
Subtotal				\$3,263,500.00
Construction Cost Subtotal				\$4,299,300.00
Contingency (10%)				\$430,000.00
Easements and Property (2 easements and PS Lot)				\$20,000.00
Engineering (Design, CA, CO)(20%)				\$860,000.00
<b>ESTIMATED TOTAL PROJECT COST</b>				<b>\$5,609,300.00</b>
Water				\$1,351,400.00
Sewer				\$4,257,900.00

PRELIMINARY





**OPINION OF POSSIBLE PROJECT COST<sup>1</sup>**  
**Highway 49 Water line**

**THE WOOTEN COMPANY**  
**Water**

**10/20/2022**

DESCRIPTION	UNITS	TOTAL QUANTITY	UNIT COST	EXTENDED COST
<b>Water</b>				
1 Mobilization	LS	1	\$200,800.00	\$200,800.00
2 12" Water Line	LF	37,100	\$150.00	\$5,565,000.00
3 24" B&J Rd Crossing	LF	320	\$600.00	\$192,000.00
4 Fire Hydrant Assembly	EA	22	\$7,500.00	\$165,000.00
5 Connect to Existing Water Line	EA	2	\$10,000.00	\$20,000.00
6 Water Booster Pump Station	EA	1	\$750,000.00	\$750,000.00
<b>Subtotal</b>				<b>\$6,892,800.00</b>

Construction Cost Subtotal	\$6,892,800.00
Contingency (10%)	\$689,000.00
Easements and Property (PS Lot)	\$25,000.00
Engineering (Design, CA, CO)(20%)	\$1,379,000.00
<b>ESTIMATED TOTAL PROJECT COST</b>	<b>\$8,985,800.00</b>

**PRELIMINARY**



**OPINION OF POSSIBLE PROJECT COST<sup>1</sup>**  
**Highway 49 Sewer - PS 1 to PS 2**

**THE WOOTEN COMPANY**  
**Sewer**

**10/20/2022**

DESCRIPTION	UNITS	TOTAL QUANTITY	UNIT COST	EXTENDED COST
<b>Sewer</b>				
1 Mobilization	LS	1	\$56,100.00	\$56,100.00
2 8" Sewer Force Main	LF	9,515	\$120.00	\$1,141,800.00
3 8" Sewer Force Main by Bore and Jack in Casing	LF	200	\$500.00	\$100,000.00
4 Stream Crossing	EA	1	\$20,000.00	\$20,000.00
5 450 gpm Sewer Pump Station	LS	1	\$600,000.00	\$600,000.00
6 Pavement Patching	SY	54	\$100.00	\$5,400.00
			Subtotal	\$1,917,900.00
			Construction Cost Subtotal	\$1,917,900.00
			Contingency (10%)	\$192,000.00
			Easements and Property (7 easements and PS Lot)	\$10,000.00
			Engineering (Design, CA, CO)(15%)	\$288,000.00
			<b>ESTIMATED TOTAL PROJECT COST</b>	<b>\$2,407,900.00</b>

**PRELIMINARY**



# Proposed Infrastructure Improvements PS 1 to PS 2 NC Highway 49 Randolph County, NC

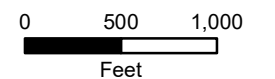
August 2022

### Legend

- Septic Complaint
- PS Proposed Pump Station
- ▬ Proposed Force Main
- ▬ Proposed Water Line
- NC Route
- - - Street
- Stream
- Lake
- Land Use**
- Residential
- Agricultural

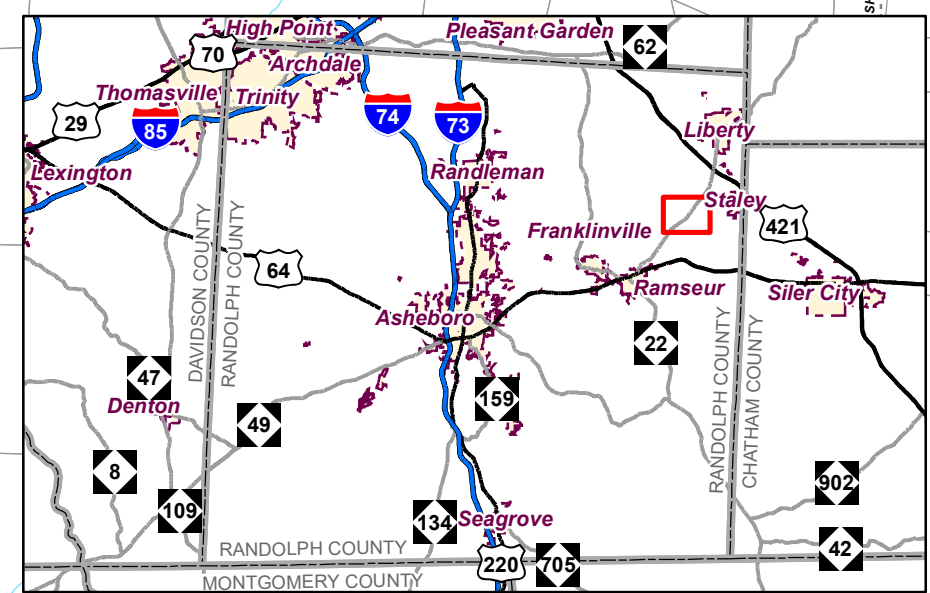
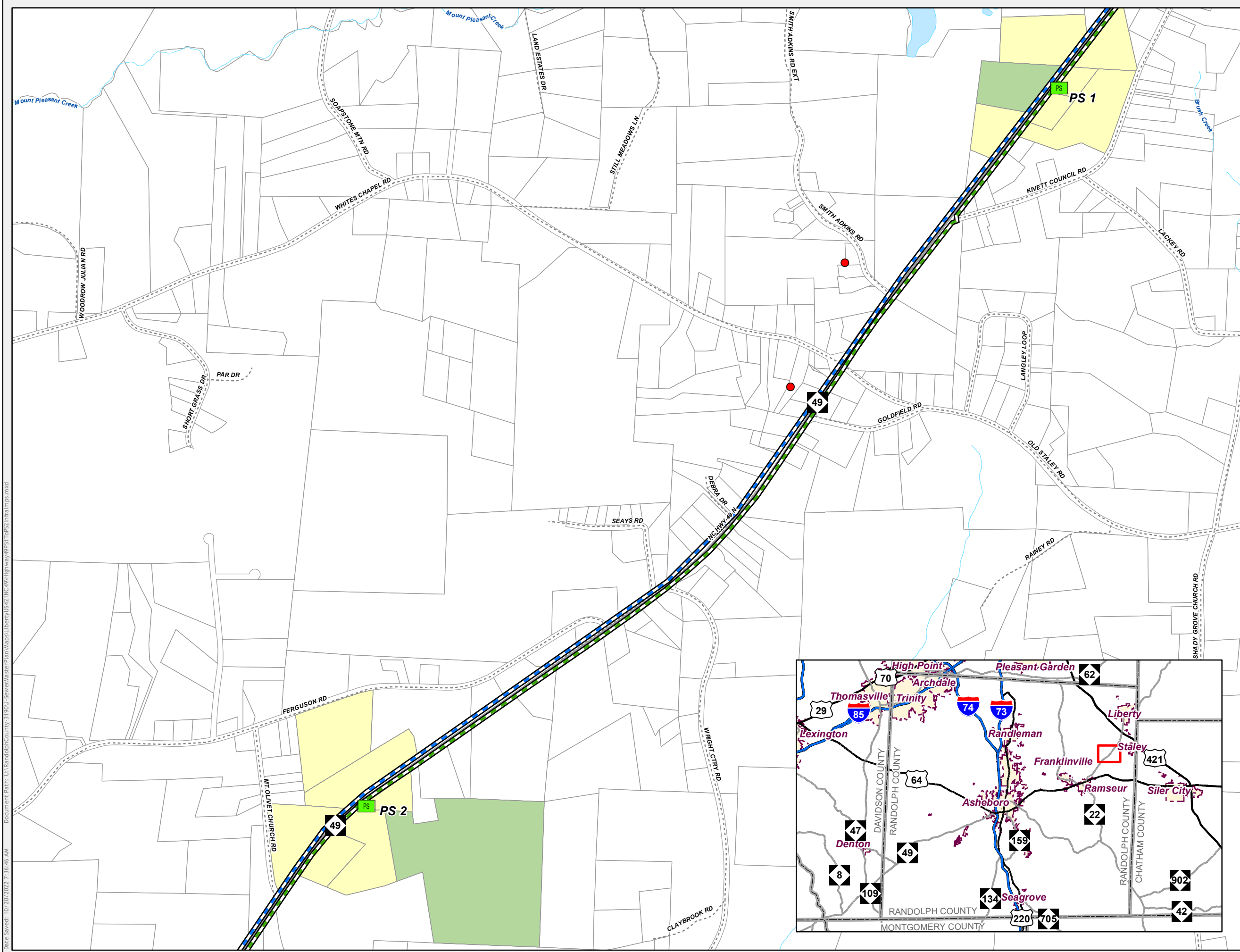


1 inch = 1,000 feet



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**OPINION OF POSSIBLE PROJECT COST<sup>1</sup>**  
**Highway 49 Sewer - PS 2 to PS 3**

**THE WOOTEN COMPANY**  
**Sewer**

**10/20/2022**

DESCRIPTION	UNITS	TOTAL QUANTITY	UNIT COST	EXTENDED COST
<b>Sewer</b>				
1 Mobilization	LS	1	\$69,300.00	\$69,300.00
2 10" Sewer Force Main	LF	10,960	\$140.00	\$1,534,400.00
3 10" Sewer Force Main by Directional Bore	LF	190	\$350.00	\$66,500.00
4 Stream Crossing	EA	0	\$20,000.00	\$0.00
5 600 gpm Sewer Pump Station	LS	1	\$700,000.00	\$700,000.00
6 Pavement Patching	SY	67	\$100.00	\$6,700.00
Subtotal				\$2,376,900.00

Construction Cost Subtotal		\$2,376,900.00
Contingency (10%)		\$238,000.00
Easements and Property (7 easements and PS Lot)		\$10,000.00
Engineering (Design, CA, CO)(15%)		\$357,000.00
<b>ESTIMATED TOTAL PROJECT COST</b>		<b>\$2,981,900.00</b>

**PRELIMINARY**



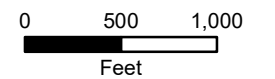
# Proposed Infrastructure Improvements PS 2 to PS 3 NC Highway 49 Randolph County, NC August 2022

### Legend

- Septic Complaint
- PS
- Proposed Force Main
- Proposed Water Line
- Existing Wastewater
- US Route
- NC Route
- - - Street
- Stream
- Land Use**
- Residential
- Agricultural

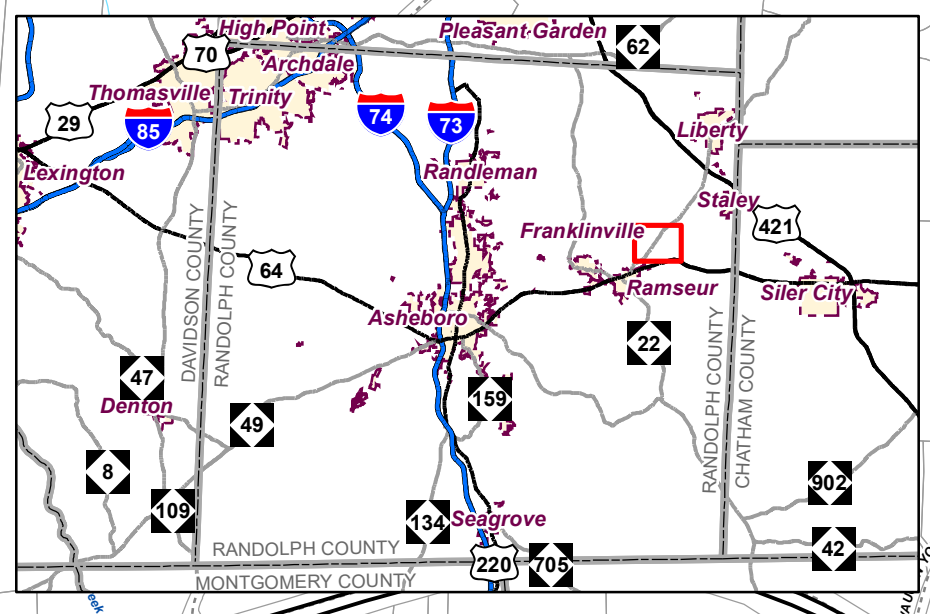
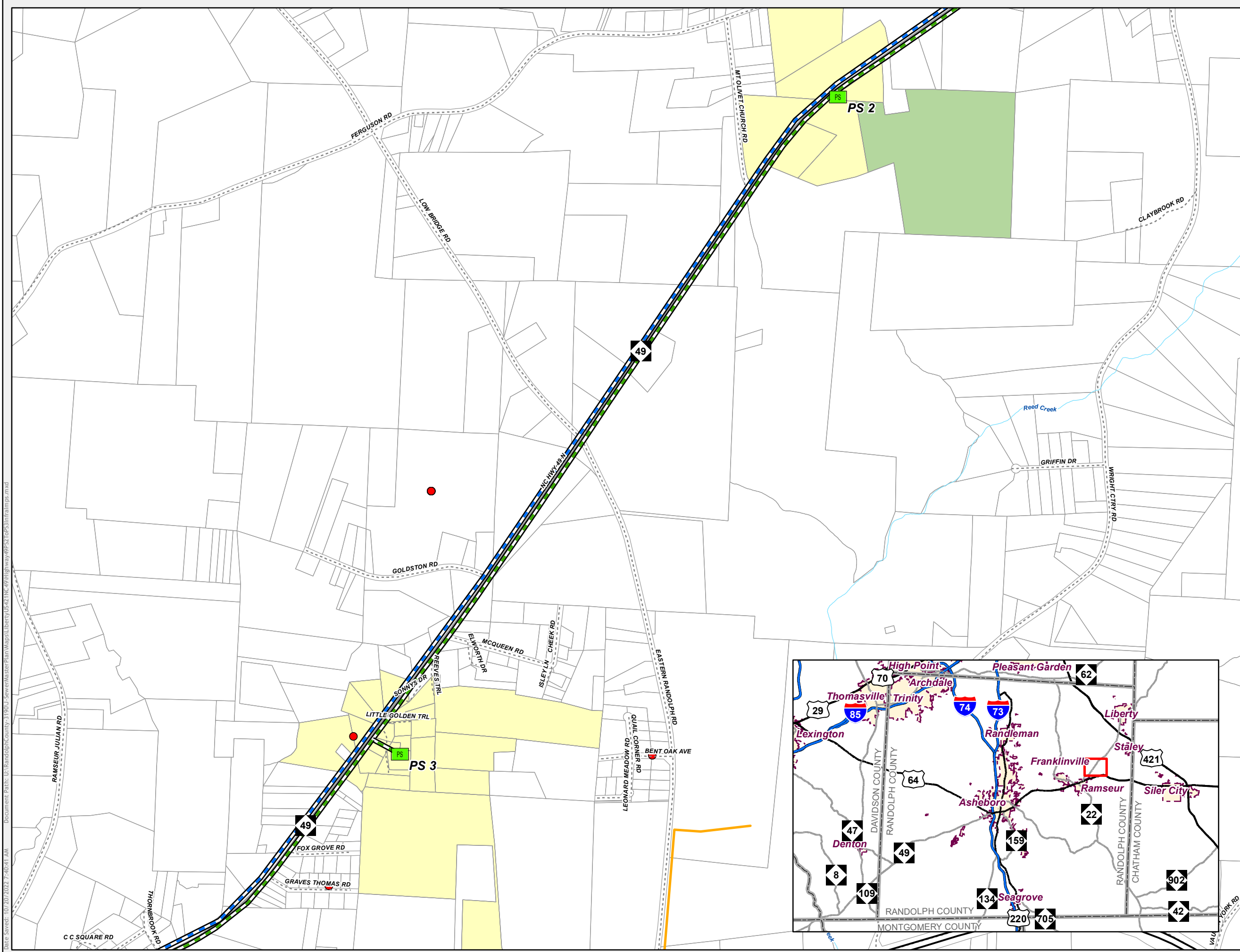


1 inch = 1,000 feet



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**OPINION OF POSSIBLE PROJECT COST<sup>1</sup>**  
**Highway 49 Sewer - PS 3 to Ramseur WWTP**

**THE WOOTEN COMPANY**  
**Sewer**

**10/20/2022**

DESCRIPTION	UNITS	TOTAL QUANTITY	UNIT COST	EXTENDED COST
<b>Sewer</b>				
1 Mobilization	LS	1	\$135,300.00	\$135,300.00
2 12" Sewer Force Main	LF	16,760	\$160.00	\$2,681,600.00
3 16" Sewer Force Main by Horizontal Directional Drill	LF	800	\$1,200.00	\$960,000.00
4 Stream Crossing	EA	1	\$20,000.00	\$20,000.00
4 750 gpm Sewer Pump Station	LS	1	\$800,000.00	\$800,000.00
5 Pavement Patching	SY	454	\$100.00	\$45,400.00
			Subtotal	\$4,461,600.00
			Construction Cost Subtotal	\$4,461,600.00
			Contingency (10%)	\$446,000.00
			Easements and Property (7 easements and PS Lot)	\$20,000.00
			Engineering (Design, CA, CO)(15%)	\$669,000.00
			<b>ESTIMATED TOTAL PROJECT COST</b>	<b>\$5,596,600.00</b>

**PRELIMINARY**





# Proposed Infrastructure Improvements PS 3 to WWTP NC Highway 49 Randolph County, NC

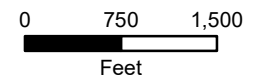
August 2022

### Legend

- Septic Complaint
- PS Proposed Pump Station
- Proposed Force Main
- Proposed Water Line
- Existing Wastewater
- Existing Water Main
- US Route
- NC Route
- Ramp
- - - Street
- Stream
- - - Municipal Boundary
- Land Use
- Residential

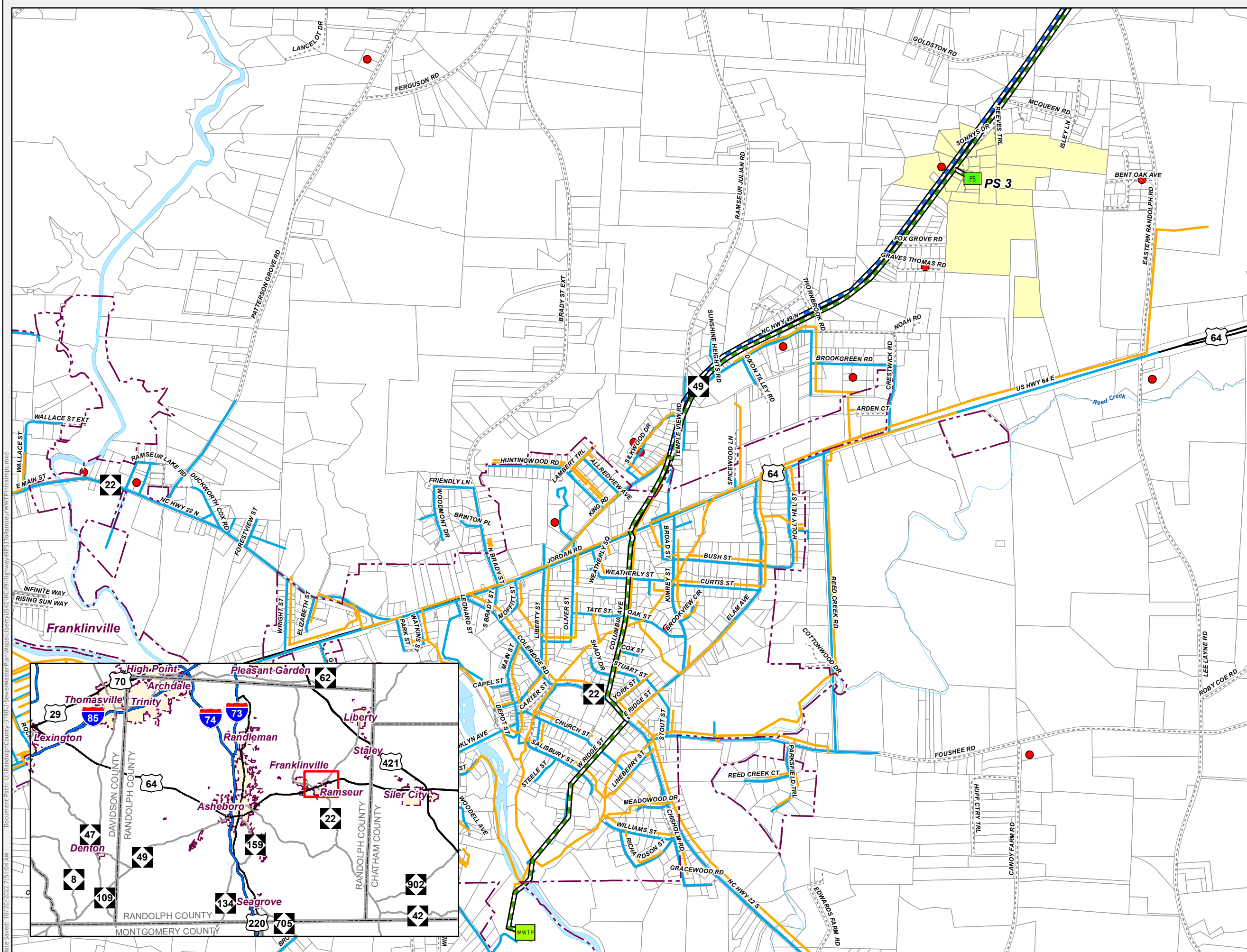


1 inch = 1,500 feet



# Wooten

The Wooten Company makes every effort to produce and publish GIS maps using the most current and accurate information possible, however the maps are strictly for planning purposes only. The maps are compiled from recorded deeds, plats, and other public and private records and data. Users of the maps are hereby notified that the aforementioned public primary information sources should be consulted for verification of the information on this map. The Wooten Company assumes NO responsibility for the information contained on the maps unless the map is signed and sealed by a licensed Professional Land Surveyor. Please contact the GIS Group at (919) 828-0531 or toohan@thewootencompany.com for data source information.



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Date Saved: 10/20/2022 7:51:04 AM

**OPINION OF POSSIBLE PROJECT COST  
Ramseur Highway 64 East Sewer**

**THE WOOTEN COMPANY  
With CAM Development**

**10/20/2022**

DESCRIPTION	UNITS	TOTAL QUANTITY	UNIT COST	EXTENDED COST
1 30" Sewer Force Main	LF	19,800	\$475.00	\$9,405,000.00
2 36" Sewer Force Main	LF	17,200	\$550.00	\$9,460,000.00
3 36" River Crossing	EA	1	\$3,000,000.00	\$3,000,000.00
4 30" Creek Crossing	EA	4	\$500,000.00	\$2,000,000.00
5 10 mgd Sewer PS (4 mgd avg)	EA	1	\$1,800,000.00	\$1,800,000.00
6 12.5 mgd Sewer PS (5 mgd avg)	EA	1	\$2,100,000.00	\$2,100,000.00
Construction Cost Subtotal				\$27,765,000.00
Contingency (10%)				\$2,776,500.00
Engineering (Design, CA, CO)				\$4,164,800.00
<b>ESTIMATED TOTAL PROJECT COST</b>				<b>\$34,706,300.00</b>

**Without CAM Development**

DESCRIPTION	UNITS	TOTAL QUANTITY	UNIT COST	EXTENDED COST
1 16" Sewer Force Main	LF	19,800	\$200.00	\$3,960,000.00
2 12" Sewer Force Main	LF	17,200	\$180.00	\$3,096,000.00
3 16" River Crossing	EA	1	\$1,200,000.00	\$1,200,000.00
4 12" Creek Crossing	EA	4	\$600,000.00	\$2,400,000.00
5 1.5 mgd Sewer Pump Station	EA	2	\$750,000.00	\$1,500,000.00
Construction Cost Subtotal				\$12,156,000.00
Contingency (10%)				\$1,215,600.00
Engineering (Design, CA, CO)				\$1,823,400.00
<b>ESTIMATED TOTAL PROJECT COST</b>				<b>\$15,195,000.00</b>

**PRELIMINARY**



**OPINION OF POSSIBLE PROJECT COST  
Ramseur Highway 64 East Water Line**

**THE WOOTEN COMPANY**

**10/20/2022**

**For CAM Site includes line through Town**

DESCRIPTION	UNITS	TOTAL QUANTITY	UNIT COST	EXTENDED COST
1 24" Water Line	LF	17,000	\$375.00	\$6,375,000.00
2 30" Water Line	LF	24,000	\$475.00	\$11,400,000.00
3 24" Creek Crossing	EA	2	\$500,000.00	\$1,000,000.00
4 30" Creek Crossing	EA	4	\$750,000.00	\$3,000,000.00
Construction Cost Subtotal				\$21,775,000.00
Contingency (10%)				\$2,177,500.00
Engineering (Design, CA, CO)				\$3,266,300.00
<b>ESTIMATED TOTAL PROJECT COST</b>				<b>\$27,218,800.00</b>

**Without CAM Site**

DESCRIPTION	UNITS	TOTAL QUANTITY	UNIT COST	EXTENDED COST
1 8" Water Line	LF	4,200	\$140.00	\$588,000.00
2 12" Water Line	LF	18,000	\$180.00	\$3,240,000.00
3 8" Creek Crossing	EA	2	\$200,000.00	\$400,000.00
4 12" Creek Crossing	EA	4	\$300,000.00	\$1,200,000.00
Construction Cost Subtotal				\$5,428,000.00
Contingency (10%)				\$542,800.00
Engineering (Design, CA, CO)				\$814,200.00
<b>ESTIMATED TOTAL PROJECT COST</b>				<b>\$6,785,000.00</b>

**PRELIMINARY**



# Proposed Infrastructure Improvements in Ramseur Randolph County, NC

August 2022

### Legend

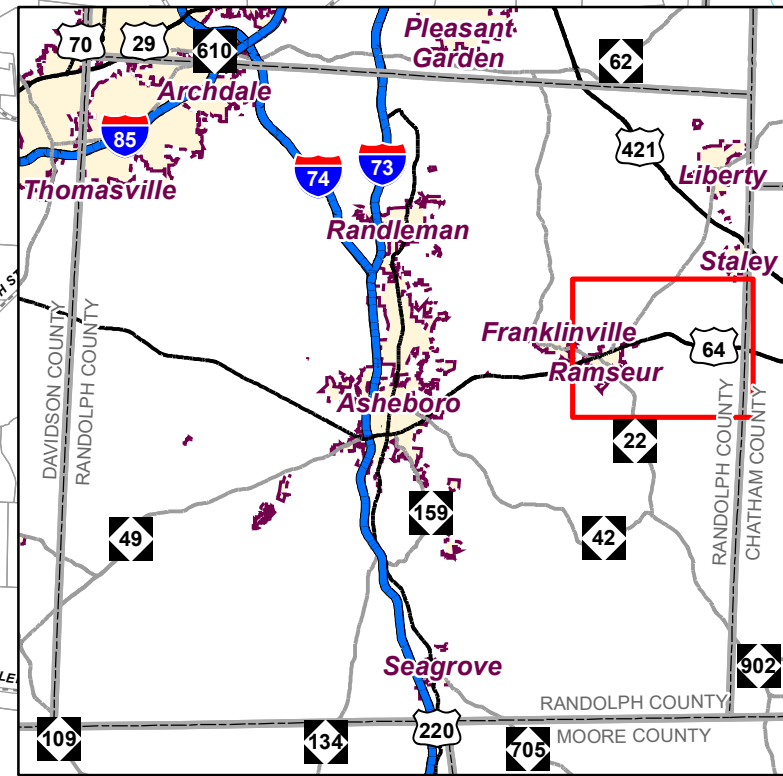
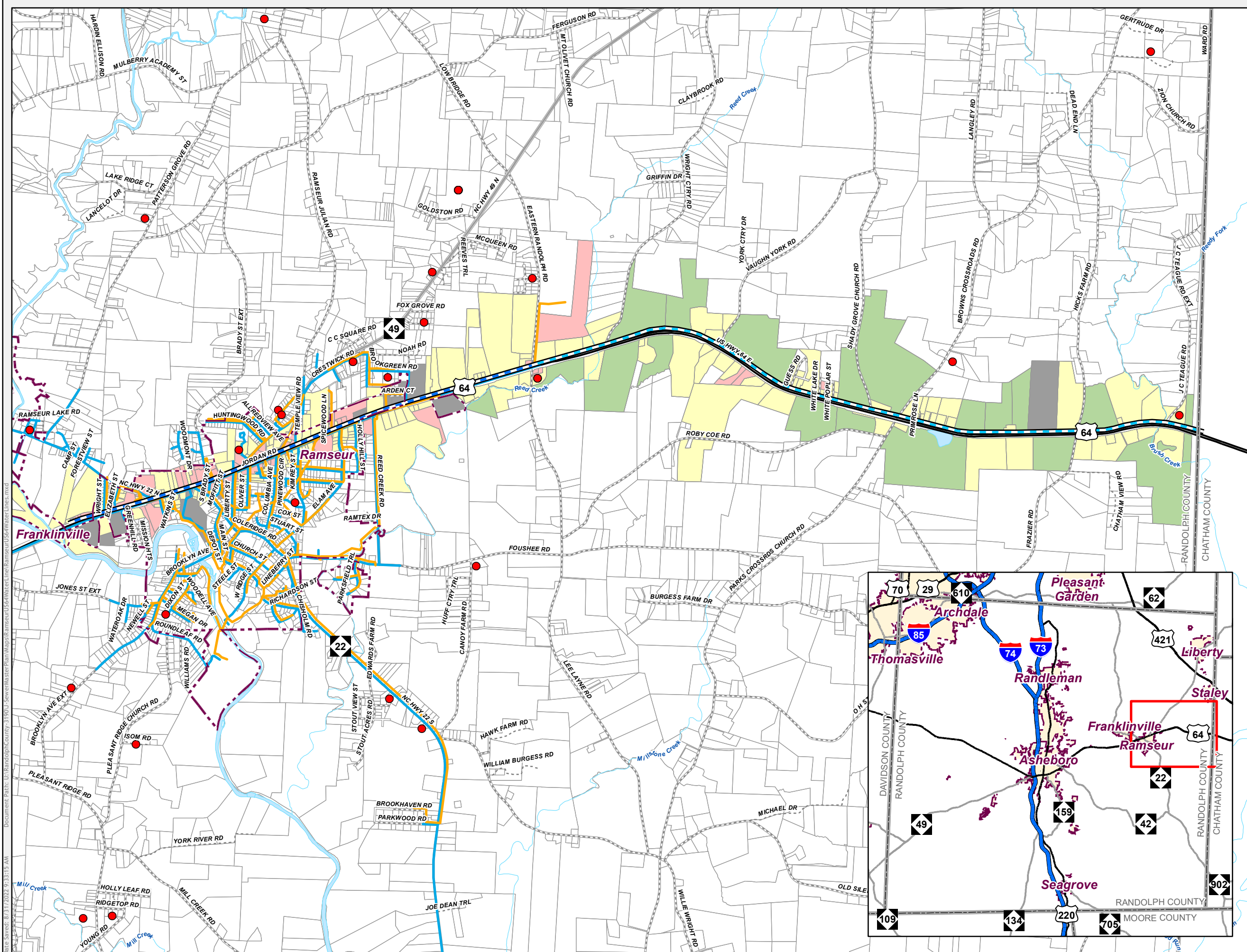
- Septic Complaint
- Proposed 24 inch Water Line
- Proposed 30 inch Water Line
- Existing Wastewater
- Existing Water Main
- US Route
- NC Route
- Ramp
- - - Street
- Stream
- Lake/River
- Municipal Boundary
- Land Use
  - Residential
  - Commercial
  - Industrial
  - Agricultural



1 inch = 3,000 feet  
0 1,500 3,000  
Feet

# Wooten

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**APPENDIX 4 – SCORING MATRIX OF MAINTENANCE PROJECTS**

Request from	Short Description	Parcels affected		Acres Affected		Residential Dwellings Benefitting		Commercial/Ind Structures Benefitting		Economic Development Benefit		Economically Distressed Area Benefit		Number of Towns/Townships Benefitting	Other Potential Funding Sources		Total Score
		DATA	SCORE	DATA	SCORE	DATA	SCORE	DATA	SCORE	DATA	SCORE	DATA	SCORE	Data and Score	DATA	SCORE	
<b>Maintenance Projects</b>																	
Ramseur	Main PS FM Replacement	1100	5	1147	5	926	5	121	5	com and some ind	3	Yes	3	1	possibly	1	<b>28</b>
Franklinville	Ogle's Creek PS & FM Imp	11	1	57.12	1	200	5	5	1	com and some ind	3	Yes	3	1	possibly	1	<b>16</b>
Ramseur	Reedy Creek PS Storage increase	30	2	111.44	2	8	2	10	2	com and some ind	3	Yes	3	1	possibly	1	<b>16</b>
Ramseur	Gravity Sewer Line Replacement	80	3	10	0	40	3	5	1	some com and res	1	yes	3	1	possibly	1	<b>13</b>
Ramseur	Replace Tube PS on West side of River	4	0	124.45	2	2	1	0	0	some com and res	1	Yes	3	1	possibly	1	<b>9</b>

**APPENDIX 5 – INITIAL SCORING MATRIX**

		Parcels affected		Acres Affected		Residential Dwellings Benefitting		Commercial/Ind Strucutres Benefitting		Economic Development Benefit		Economically Distressed Area Benefit		Number of Towns/Townships Benefitting	Acres Com or Ind Zoned		Other Potential Funding Sources		Poor wells/sepic tanks	Total Score
		DATA	SCORE	DATA	SCORE	DATA	SCORE	DATA	SCORE	DATA	SCORE	DATA	SCORE	Data and Score	DATA	SCORE	DATA	SCORE	Data and Score	
<b>Request from</b>	<b>Short Description</b>																			
Ramseur	Hwy 64 Water Line to Chatham County	343	5	2307.13	5	155	5	52	5	com and some ind	3	yes	3	4	230.56	4	yes	2	3	<b>39</b>
Franklinville	12" WL Loop with Asheboro & Meter vault	157	4	776.9	4	100	5	16	3	com and some ind	3	Yes	3	2	289.5	5	yes	2	3	<b>34</b>
Hwy 49 WL	WL from Ramseur to Hwy 421	448	5	2038.05	5	224	5	26	4	mostly com	2	Yes	3	2	231.95	4	possibly	1	3	<b>34</b>
Franklinville	Water along Cedar Falls Rd from Asheboro to Franklinvill	181	4	922.92	4	117	5	18	3	com and some ind	3	Yes	3	1	15.53	0	yes	2	6	<b>31</b>
Liberty	Sewer to Hwy 421 - NC Hwy 49	63	3	414.64	3	33	3	4	1	com and some ind	3	Yes	3	1	212	4	yes	2	3	<b>26</b>
Liberty	Water to Hwy 421 - NC Hwy 49	48	2	405.51	3	28	3	4	1	com and some ind	3	Yes	3	1	212	4	yes	2	3	<b>25</b>
Asheboro	18" Water Connection with PTRWA	93	3	1004.41	5	44	3	4	1		0	No	0	2	622.25	5	yes	2	1	<b>22</b>
Ramseur	Hwy 64 East Sewer - including CAM	9	0	2017.75	5	4	1	2	1	com and some ind	3	Yes	3	2	1800	5	possibly	1	1	<b>22</b>
Archdale	Parallel Distribution line to PTRWA Line along Hwy 311 from Cedar Square Rd back to City Limit	171	4	492.17	3	95	4	31	4	com and some ind	3	No	0	1	59.73	2	no	0	0	<b>21</b>
Liberty	Sewer to Hwy 421 - Old Liberty Rd	26	2	354.89	3	10	2	5	1	com and some ind	3	Yes	3	1	122.83	3	yes	2	0	<b>20</b>
Liberty	Water to Hwy 421 - Old 421	12	1	253.73	3	0	0	6	2	com and some ind	3	Yes	3	1	161.25	3	yes	2	0	<b>18</b>
Liberty	Sewer to Hwy 421 - Old 422	13	1	273.48	3	0	0	6	2	com and some ind	3	Yes	3	1	161.25	3	yes	2	0	<b>18</b>
Hwy 49 Sewer	PS and FM along 49 - PS#3 to Ramseur WWTP	28	2	102.25	2	14	2	51	5	mostly com	2	Yes	3	1	1.34	0	no	0	1	<b>18</b>
Liberty	Water to Hwy 421 - Old Liberty Rd	12	1	231.24	2	5	1	3	1	com and some ind	3	Yes	3	1	122.83	3	yes	2	0	<b>17</b>
Archdale	Sewer Extension from Suits Rd to Cedar Square Rd	63	3	266.72	3	30	3	10	2	com and some ind	3	No	0	1	0	0	no	0	2	<b>17</b>
Seagrove/Ulah	Little River Rd Sewer imp	45	2	201.54	2	22	3	2	1	mostly com	2	No	0	1	70.57	2	possibly	1	0	<b>14</b>
Hwy 49 Sewer	PS and FM along 49 - PS#2 to PS#3	28	2	206.3	2	17	2	0	0	mostly com	2	No	0	2	1.34	0	no	0	1	<b>11</b>
Hwy 49 Sewer	PS and FM along 49 - PS#1 to PS#2	13	1	151.91	2	8	2	0	0	mostly com	2	No	0	2	0	0	no	0	0	<b>9</b>

**APPENDIX 6 – MODIFIED SCORING MATRIX**

Request from	Short Description	Parcels affected				Acres Affected				# of Existing Residential Dwellings Benefitting				# of Existing Commercial/Ind Structures Benefitting				Economic Development Benefit	
		DATA	SCORE	DATA/1,000 ft	Modified Score	DATA	SCORE	DATA/1,000 ft	Modified Score	DATA	SCORE	DATA/1,000 ft	Modified Score	DATA	SCORE	DATA/1,000 ft	Modified Score	DATA	SCORE
Ramseur	Hwy 64 Water Line to Chatham County	343	5	8.4	1	2307.13	5	56.3	2	155	5	3.8	1	52	5	1.3	4	com and some ind	3
Franklinville	12" WL Loop with Asheboro & Meter vault	157	4	11.2	2	776.9	4	55.5	2	100	5	7.1	2	16	3	1.1	3	com and some ind	3
Ramseur	Hwy 64 East Sewer	9	0	9.0	1	2017.75	5	2017.8	5	4	1	4.0	1	2	1	2.0	5	com and some ind	3
Hwy 49 Sewer	PS and FM along 49 - PS#3 to Ramseur WWTP	28	2	28.0	5	102.25	2	102.3	3	14	2	14.0	4	51	5	51.0	5	mostly com	2
Hwy 49 WL	WL from Ramseur to Hwy 421	448	5	12.1	2	2038.05	5	54.9	2	224	5	6.0	2	26	4	0.7	2	mostly com	2
Liberty	Sewer to Hwy 421 - NC Hwy 49	63	3	10.4	2	414.64	3	68.8	2	33	3	5.5	1	4	1	0.7	2	com and some ind	3
Liberty	Water to Hwy 421 - NC Hwy 49	48	2	7.8	1	405.51	3	65.6	2	28	3	4.5	1	4	1	0.6	2	com and some ind	3
Franklinville	Water along Cedar Falls Rd from Asheboro to Franklinville	181	4	9.0	1	922.92	4	45.8	1	117	5	5.8	1	18	3	0.9	2	com and some ind	3
Hwy 49 Sewer	PS and FM along 49 - PS#2 to PS#3	28	2	28.0	5	206.3	2	206.3	5	17	2	17.0	5	0	0	0.0	0	mostly com	2
Liberty	Water to Hwy 421 - Old 421	12	1	3.2	0	253.73	3	66.8	2	0	0	0.0	0	6	2	1.6	5	com and some ind	3
Liberty	Sewer to Hwy 421 - Old 422	13	1	2.7	0	273.48	3	57.7	2	0	0	0.0	0	6	2	1.3	4	com and some ind	3
Liberty	Water to Hwy 421 - Old Liberty Rd	12	1	4.3	0	231.24	2	82.6	2	5	1	1.8	0	3	1	1.1	3	com and some ind	3
Archdale	Parallel Distribution line to PTRWA Line along Hwy 311 especially from Cedar Square Rd back to City Limit	171	4	12.8	2	492.17	3	36.7	1	95	4	7.1	2	31	4	2.3	5	com and some ind	3
Liberty	Sewer to Hwy 421 - Old Liberty Rd	26	2	4.2	0	354.89	3	57.7	2	10	2	1.6	0	5	1	0.8	2	com and some ind	3
Seagrove/Ulah	Little River Rd Sewer imp	45	2	15.0	3	201.54	2	67.2	2	22	3	7.3	2	2	1	0.7	2	mostly com	2
Archdale	Sewer Extension from Suits Rd to Cedar Square Rd	63	3	9.4	1	266.72	3	39.6	1	30	3	4.5	1	10	2	1.5	4	com and some ind	3
Asheboro	18" Water Connection with PTRWA	93	3	5.1	1	1004.41	5	55.2	2	44	3	2.4	0	4	1	0.2	0		0
Hwy 49 Sewer	PS and FM along 49 - PS#1 to PS#2	13	1	13.0	2	151.91	2	151.9	4	8	2	8.0	2	0	0	0.0	0	mostly com	2



APPENDIX 6 - CONTINUED FROM PREVIOUS PAGE

		Economically Distressed Area Benefit		Number of Towns/Townships Benefitting	Acres Com or Ind Zoned		Other Potential Funding Sources		Poor wells/sepic tanks	Total Score	Modified Total Score
		DATA	SCORE	Data and Score	DATA	SCORE	DATA	SCORE	Data and Score		
Ramseur	Hwy 64 Water Line to Chatham County	yes	3	4	230.56	4	yes	2	3	<b>39</b>	<b>27</b>
Franklinville	12" WL Loop with Asheboro & Meter vault	Yes	3	2	289.5	5	yes	2	3	<b>34</b>	<b>27</b>
Ramseur	Hwy 64 East Sewer	Yes	3	2	1800	5	possibly	1	1	<b>22</b>	<b>27</b>
Hwy 49 Sewer	PS and FM along 49 - PS#3 to Ramseur WWTP	Yes	3	1	1.34	0	no	0	1	<b>18</b>	<b>24</b>
Hwy 49 WL	WL from Ramseur to Hwy 421	Yes	3	2	231.95	4	possibly	1	3	<b>34</b>	<b>23</b>
Liberty	Sewer to Hwy 421 - NC Hwy 49	Yes	3	1	212	4	yes	2	3	<b>26</b>	<b>23</b>
Liberty	Water to Hwy 421 - NC Hwy 49	Yes	3	1	212	4	yes	2	3	<b>25</b>	<b>22</b>
Franklinville	Water along Cedar Falls Rd from Asheboro to Franklinville	Yes	3	1	15.53	0	yes	2	6	<b>31</b>	<b>20</b>
Hwy 49 Sewer	PS and FM along 49 - PS#2 to PS#3	No	0	2	1.34	0	no	0	1	<b>11</b>	<b>20</b>
Liberty	Water to Hwy 421 - Old 421	Yes	3	1	161.25	3	yes	2	0	<b>18</b>	<b>19</b>
Liberty	Sewer to Hwy 421 - Old 422	Yes	3	1	161.25	3	yes	2	0	<b>18</b>	<b>18</b>
Liberty	Water to Hwy 421 - Old Liberty Rd	Yes	3	1	122.83	3	yes	2	0	<b>17</b>	<b>17</b>
Archdale	Parallel Distribution line to PTRWA Line along Hwy 311 especially from Cedar Square Rd back to City Limit	No	0	1	59.73	2	no	0	0	<b>21</b>	<b>16</b>
Liberty	Sewer to Hwy 421 - Old Liberty Rd	Yes	3	1	122.83	3	yes	2	0	<b>20</b>	<b>16</b>
Seagrove/Ulah	Little River Rd Sewer imp	No	0	1	70.57	2	possibly	1	0	<b>14</b>	<b>15</b>
Archdale	Sewer Extension from Suits Rd to Cedar Square Rd	No	0	1	0	0	no	0	2	<b>17</b>	<b>13</b>
Asheboro	18" Water Connection with PTRWA	No	0	2	622.25	5	yes	2	1	<b>22</b>	<b>13</b>
Hwy 49 Sewer	PS and FM along 49 - PS#1 to PS#2	No	0	2	0	0	no	0	0	<b>9</b>	<b>12</b>

**AMENDMENT  
TO THE  
RANDOLPH COUNTY  
WATER AND SEWER MASTER PLAN**

**TWC PROJECT #3190-J**

---

At the presentation to the Randolph County Commissioners on February 23, 2023, The Wooten Company was asked to add to the Master Plan the information on the Highway 22 water line from the Northeast Randolph County Study that was completed in 2015. This water line extends from the north end of the Town of Franklinville water system on Highway 22 near Providence Grove High School. The line would extend north along Highway 22 to the Red Cross Community and then follow Old Red Cross Rd east to Highway 421 near the Toyota Battery Facility (see attached map). The Toyota Battery Facility is being served by the City of Greensboro, so the purpose of this line would be to support development growth west of the Toyota site.

Sewer for this area had not been investigated in the original study and Wooten was not asked to look at that for this amendment either. However, in considering possible sewer in the area, the closest facility would be the sewer system being built to serve the Toyota facility, but it has been the stance of Greensboro that they were not interested in serving additional areas in Randolph County with sewer. As an alternative a sewer lift station could be built at the interchange with Highway 421 and a force main extend southeast to the other sewer pump stations that have been proposed by this Master Plan at the interchanges with Highway 421 near Liberty. This flow is being planned to be delivered south to Ramseur through a network of sewer pump stations.

Estimated Maximum fee for this water line is \$5,866,500 (see Opinion of Probable Project Cost below).

This project score using the matrix that was developed has a score of 9 and ties as the lowest scoring project. When applying the modified process considering project length the project score increases to 12 which is second from the lowest scoring project.

Although development in that area near the Toyota Facility makes some sense, the area has traditionally been rural residential and is not considered a major commercial corridor. This is one reason the project does not score high in the matrix. The County could redefine some of the property in the area for commercial and industrial growth which would increase the project score. If the water line was installed it is likely development would occur, which would increase the need for developing sewer in this area. Certainly, if the County wants to have development in this area, this type of infrastructure investment would encourage that development.

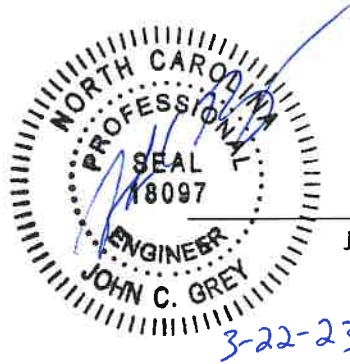
If this project was installed it would increase the water demand from the Town of Franklinville by approximately 173,192 gpd. This would increase the demand from either City of Asheboro, Town of Ramseur, or additional flow provided by Randolph County from PTRWA depending on what other lines are constructed and the possible formation of the Eastern Randolph Water and Sewer District.

We hope this amendment provides the additional information that was desired. Please let us know



if you have additional questions on the Water and Sewer Master Plan.

This Amendment is submitted March 22, 2023, as an extension of information provided in the Water and Sewer Master Plan Report sealed on December 14, 2022.



John C. Grey, PE



**OPINION OF POSSIBLE PROJECT COST**  
**Hwy 22 Water Line to Old Red cross Rd to Hwy 421**

**THE WOOTEN COMPANY**

**3/18/2023**

DESCRIPTION	UNITS	TOTAL QUANTITY	UNIT COST	EXTENDED COST
<b>Water</b>				
1 Mobilization	LS	1	\$131,500.00	\$131,500.00
2 8" Water Line	LF	10,700	\$140.00	\$1,498,000.00
3 12" Water Line	LF	13,350	\$180.00	\$2,403,000.00
4 8" Water Valve	EA	5	\$15,000.00	\$75,000.00
5 12" Water Valve	EA	3	\$15,000.00	\$45,000.00
6 B&J Rd Crossing	LF	425	\$600.00	\$255,000.00
7 Fire Hydrant Assembly	EA	12	\$7,500.00	\$90,000.00
8 Connect to Existing Water Line	EA	1	\$15,000.00	\$15,000.00
			Subtotal	\$4,512,500.00

Construction Cost Subtotal	\$4,512,500.00
Contingency (10%)	\$451,000.00
Engineering (Design, CA, CO)(20%)	\$903,000.00
<b>ESTIMATED TOTAL PROJECT COST</b>	<b>\$5,866,500.00</b>

**PRELIMINARY**



## **Attachment B**

### **Federal Contract Provisions**

This **ADDENDUM** (this “Addendum”) is entered into by and between \_\_\_\_\_ (“Contractor”), and Randolph County, a political subdivision of the State of North Carolina (“County”), and forms an integral part of the Contract (as defined in Section I hereof).

**NOW THEREFORE**, Contractor and County do mutually agree as follows:

### **AGREEMENTS**

#### **I. Definitions**

- A. Unless otherwise defined in this Addendum, capitalized terms used in this Addendum shall have the meanings ascribed thereto in this Section I.
1. “Administering Agency” shall have the meaning specified in 41 C.F.R. § 60-1.3.
  2. “Applicant” shall have the meaning specified in 41 C.F.R. § 60-1.3, which is provided here for ease of reference: (“An applicant for Federal assistance involving a construction contract, or other participant in a program involving a construction contract as determined by regulation of an administering agency. The term also includes such persons after they become recipients of such Federal assistance.”).
  3. “Construction Work” shall have the meaning specified in 41 C.F.R. § 60-1.3, which is provided here for ease of reference: (“[T]he construction, rehabilitation, alteration, conversion, extension, demolition or repair of buildings, highways, or other changes or improvements to real property, including facilities providing utility services. The term also includes the supervision, inspection, and other onsite functions incidental to the actual construction.”).
  4. “Contract” shall mean the legal instrument by which the County, as a Recipient or Subrecipient, shall purchase from Contractor property or services needed to carry out a project or program under a federal award, and of which this Addendum shall constitute an integral part.
  5. “Contractor” shall mean the entity named as “Contractor” in this Addendum that has received a Contract from the County.
  6. “Federally Assisted Construction Contract” shall have the meaning specified in 41 C.F.R. § 60-1.3, which is provided here for ease of reference: (“[A]ny agreement or modification thereof between any applicant and a person for construction work which is paid for in whole or in part with funds obtained from the Government or borrowed on the credit of the Government pursuant to any federal program involving a grant, contract, loan, insurance, or guarantee, or undertaken pursuant to any federal program involving such grant, contract, loan, insurance, or guarantee, or any application or modification thereof approved by the government of the United States of America for a grant, contract, loan, insurance, or guarantee under which the applicant itself participates in the construction work.”).
  7. “Government” shall have the meaning specified in 41 C.F.R. § 60-1.3, which is provided here for ease of reference: (“[T]he government of the United States of America.”).

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8. "Laborer" or "Mechanic" shall have the meaning specified in 29 C.F.R. § 5.2(m), which is provided here for ease of reference: ("The term *laborer* or *mechanic* includes at least those workers whose duties are manual or physical in nature (including those workers who use tools or who are performing the work of a trade), as distinguished from mental or managerial. The term *laborer* or *mechanic* includes apprentices, trainees, helpers, and, in the case of contracts subject to the Contract Work Hours and Safety Standards Act, watchmen or guards. The term does not apply to workers whose duties are primarily administrative, executive, or clerical, rather than manual. Persons employed in a bona fide executive, administrative, or professional capacity as defined in part 541 of [Title 40 of the United States Code] are not deemed to be laborers or mechanics. Working foremen who devote more than 20 percent of their time during a workweek to mechanic or laborer duties, and who do not meet the criteria of [Title 40 of the United States Code], are laborers and mechanics for the time so spent.").
9. "Recipient" shall mean an entity that receives a federal award directly from a federal awarding agency. The term does not include subrecipients or individuals that are beneficiaries of an award.
10. "Subcontract" shall mean any agreement entered into by a Subcontractor to furnish supplies or services for the performance of this Contract or a Subcontract. It includes, but is not limited to, purchase orders and changes and modifications to purchase orders.
11. "Subcontractor" shall mean an entity that receives a Subcontract.
12. "Subrecipient" shall mean an entity that receives a subaward from a pass-through entity to carry out part of a federal award; but it does not include an individual that is a beneficiary of such award. A subrecipient may also be a recipient of other federal awards directly from a federal awarding agency.
13. "Tier" shall have the meaning indicated in 2 C.F.R. Part 180 and illustrated in 2 C.F.R. Part 180, Appendix II.
14. "County" shall have the meaning indicated in the preamble to this Addendum.

## II. Equal Employment Opportunity

- A. If this contract is a Federally Assisted Construction Contract exceeding \$10,000, during the performance of this Contract, Contractor agrees as follows:
  1. Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. Contractor will take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Contractor agrees to post in conspicuous places, available to

## Attachment B

- employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
2. Contractor will, in all solicitations or advertisements for employees placed by or on behalf of Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
  3. Contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with Contractor's legal duty to furnish information.
  4. Contractor will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
  5. Contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
  6. Contractor will furnish to the Administering Agency and the Secretary of Labor all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to its books, records, and accounts by the Administering Agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
  7. In the event of Contractor's noncompliance with the nondiscrimination clauses of this Contract or with any of the said rules, regulations, or orders, this Contract may be canceled, terminated, or suspended, in whole or in part, and Contractor may be declared ineligible for further Government contracts or Federally Assisted Construction Contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965. Such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
  8. Contractor will include the portion of the sentence immediately preceding paragraph A.1. of this Section II and the provisions of paragraphs A.1. through A.7. in every Subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each Subcontractor or vendor. Contractor will take such action



## **Attachment B**

with respect to any Subcontract or purchase order as the Administering Agency may direct as a means of enforcing such provisions, including sanctions for noncompliance.

Provided, however, that in the event Contractor becomes involved in, or is threatened with, litigation with a Subcontractor or vendor as a result of such direction by the Administering Agency, Contractor may request the United States to enter into such litigation to protect the interests of the United States.

County further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work. Provided, that if County so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality, or subdivision of such government which does not participate in work on or under the Contract.

9. County agrees that it will assist and cooperate actively with the Administering Agency and the Secretary of Labor in obtaining the compliance of Contractor and any Subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor; that it will furnish the Administering Agency and the Secretary of Labor such information as they may require for the supervision of such compliance; and that it will otherwise assist the Administering Agency in the discharge of the agency's primary responsibility for securing compliance.
  
10. County further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and Federally Assisted Construction Contracts pursuant to the Executive Order and that it will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon Contractor and any Subcontractors by the Administering Agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, County agrees that if it fails or refuses to comply with these undertakings, the Administering Agency may take any or all of the following actions: Cancel, terminate, or suspend, in whole or in part, this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

- B. If this Contract is not a Federally Assisted Construction Contract exceeding \$10,000, the provisions of Section I.A. of this Addendum shall not apply.

### **III. Copeland "Anti-Kickback" Act**

- A. Contractor and any Subcontractors performing work under the Contract shall comply with 18 U.S.C. § 874. County shall report all suspected or reported violations to Treasury.

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### IV. Contract Work Hours and Safety Standards Act

- A. *Overtime Requirements.* No Contractor or Subcontractor contracting for any part of the Contract work which may require or involve the employment of Laborers or Mechanics shall require or permit any such Laborer or Mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such Laborer or Mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
- B. *Violation; Liability for Unpaid Wages; Liquidated Damages.* In the event of any violation of the clause set forth in Section IV.A. (Overtime Requirements), above, Contractor and any Subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such Contractor and Subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory) for liquidated damages. Such liquidated damages shall be computed with respect to each individual Laborer or Mechanic, including watchmen and guards, employed in violation of the clause set forth in Section IV.A. (Overtime Requirements), above, in the sum of \$27 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in Section IV.A. (Overtime Requirements), above.
- C. *Withholding for Unpaid Wages and Liquidated Damages.* County shall, upon its own action or upon written request of an authorized representative of the Department of Labor, withhold, or cause to be withheld, from any moneys payable on account of work performed by Contractor or Subcontractor under any such contract or any other federal contract with the same prime contractor, or any other federally assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of Contractor or Subcontractor for unpaid wages and liquidated damages as provided in Section IV.B. (Violation; Liability for Unpaid Wages; Liquidated Damages) of this section.
- D. *Subcontracts.* Contractor or Subcontractor shall insert in any Subcontract the clauses set forth in Sections IV.A. through IV.D. and also a clause requiring Subcontractors to include these clauses in any lower-Tier Subcontracts. Contractor shall be responsible for compliance by any first-Tier Subcontractor or lower-Tier Subcontractor with the clauses set forth in Sections IV.A. through IV.D.
- E. *Payroll and Records.* Contractor or Subcontractor shall maintain payrolls and basic payroll records during the course of the work and shall preserve them for a period of three years from the completion of the Contract for all Laborers and Mechanics, including guards and watchmen, working on the Contract. Such records shall contain the name and address of each such employee, Social Security number, correct classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. Records to be maintained under this provision shall be made available by Contractor or Subcontractor for inspection, copying, or transcription by authorized representatives of the Department of the Treasury and the Department

## **Attachment B**

of Labor, and Contractor or Subcontractor will permit such representatives to interview employees during working hours on the job.

- F. *Exceptions.* None of the requirements of Section IV of this Addendum shall apply if this Contract is a Contract (1) for transportation by land, air, or water; (2) for the transmission of intelligence; (3) for the purchase of supplies, materials, or articles ordinarily available in the open market; or (4) in an amount that is equal to or less than \$100,000.

### **V. Rights to Inventions Made Under a Contract or Agreement**

- A. The Government reserves a royalty-free, non-exclusive and irrevocable license to reproduce, publish, or otherwise use, and to authorize others to use for "Government purposes," any subject data or copyright described below. "Government purposes" means use only for the direct purposes of the Government. Without the copyright owner's consent, the Government may not extend its federal license to any other party.
1. Any subject data developed under the Contract, whether or not a copyright has been obtained, and
  2. Any rights of copyright purchased by Contractor using federal assistance funded in whole or in part by the Department of the Treasury.
- B. Unless Treasury determines otherwise, a Contractor performing experimental, developmental, or research work required as part of this Contract agrees to permit Treasury to make available to the public either (1) Treasury's license in the copyright to any subject data developed in the course of the Contract or (2) a copy of the subject data first produced under the Contract for which a copyright has not been obtained. If the experimental, developmental, or research work which is the subject of this Contract is not completed for any reason whatsoever, all data developed under the Contract shall become subject data as defined herein and shall be delivered as the Government may direct.
- C. Unless prohibited by North Carolina law, upon request by the Government, Contractor agrees to indemnify, save, and hold harmless the Government, its officers, agents, and employees acting within the scope of their official duties against any liability, including costs and expenses, resulting from any willful or intentional violation by Contractor of proprietary rights, copyrights, or right of privacy arising out of the publication, translation, reproduction, delivery, use, or disposition of any data furnished under the Contract. Contractor shall be required to indemnify the Government for any such liability arising out of the wrongful act of any employee, official, or agent of the Contractor.
- D. Nothing contained in this clause shall imply a license to the Government under any patent or be construed as affecting the scope of any license or other right otherwise granted to the Government under any patent.
- E. Data developed by Contractor and financed entirely without using federal assistance provided by the Government that has been incorporated into work required by the underlying Contract is exempt from the requirements herein, provided that Contractor identifies those data in writing at the time of delivery of the Contract work. Contractor agrees to include these requirements in each

## Attachment B

Subcontract for experimental, developmental, or research work financed in whole or in part with federal assistance.

- F. For the purposes of this Section V, “subject data” means “recorded information, whether or not copyrighted, . . . that is delivered or specified to be delivered as required by the Contract.” Examples of “subject data” include, but are not limited to, “computer software, standards, specifications, engineering drawings and associated lists, process sheets, manuals, technical reports, catalog item identifications, and related information, but do not include financial reports, cost analyses or other similar information used for performance or administration of the Contract.

### VI. Clean Air Act and Federal Water Pollution Control Act

- A. *Clean Air Act*. Contractor agrees to comply with all applicable standards, orders, and regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. §§ 7401 *et seq.* Contractor agrees to report each violation to County and understands and agrees that County will, in turn, report each violation as required to Treasury and the appropriate Environmental Protection Agency Regional Office. Contractor agrees to include these requirements in each Subcontract exceeding \$150,000 financed, in whole or in part, with federal assistance provided by Treasury.
- B. *Federal Water Pollution Control Act*. Contractor agrees to comply with all applicable standards, orders, and regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. §§ 1251 *et seq.* Contractor agrees to report each violation to County and understands and agrees that County will, in turn, report each violation as required to assure notification to Treasury and the appropriate Environmental Protection Agency Regional Office. Contractor agrees to include these requirements in each Subcontract exceeding \$150,000 financed, in whole or in part, with federal assistance provided by Treasury.

### VII. Debarment and Suspension

- A. Due to its receipt of Fiscal Recovery Funds, County is a participant in a nonprocurement transaction (defined at 2 C.F.R. § 180.970) that is a covered transaction pursuant to 2 C.F.R. § 180.210 and 31 C.F.R. § 19.210. Therefore, this Contract is a lower-Tier covered transaction for purposes of 2 C.F.R. Part 180 and 31 C.F.R. Part 19 if (1) the amount of this Contract is greater than or equal to \$25,000 (2 C.F.R. § 180.220(b)(1); 31 C.F.R. § 19.220(b)(1)); (2) the Contract requires the consent of an official of the Department of the Treasury (2 C.F.R. § 180.220(b)(2); 31 C.F.R. § 19.220(b)(2)); or (3) this Contract is for federally required audit services (2 C.F.R. § 180.220(b)(3); 31 C.F.R. § 19.220(b)(3)).
- B. If this Contract is a covered transaction as set forth in Section VII.A., above, Contractor hereby certifies as of the date hereof that Contractor, Contractor’s principals (defined at 2 C.F.R. § 180.995), and the affiliates (defined at 2 C.F.R. § 180.905) of both Contractor and Contractor’s principals are not excluded (defined at 2 C.F.R. § 180.940) and are not disqualified (defined at 2 C.F.R. § 180.935). If any of the foregoing persons are excluded or disqualified and the Secretary of the Treasury has not granted an exception pursuant to 31 C.F.R. § 19.120(a), (1) this Contract

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shall be void, (2) County shall not make any payments of federal financial assistance to Contractor, and (3) County shall have no obligations to Contractor under this Contract.

- C. Contractor must comply with 2 C.F.R. Part 180, Subpart C and 31 C.F.R. Part 19 and must include a requirement to comply with these regulations in any lower-Tier covered transaction into which it enters. This certification is a material representation of fact relied upon by County, and all liability arising from an erroneous representation shall be borne solely by Contractor.
- D. If it is later determined that Contractor did not comply with 2 C.F.R. Part 180, Subpart C and 31 C.F.R. Part 19, in addition to remedies available to County, the Government may pursue available remedies, including but not limited to suspension and/or debarment.

### **VIII. Byrd Anti-Lobbying Amendment**

- A. Contractor certifies to County, and Contractor shall cause each Tier below it to certify to the Tier directly above such Tier, that it has not used and will not use federally appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Contractor shall, and shall cause each Tier below it, to disclose any lobbying with non-federally appropriated funds that takes place in connection with obtaining any federal award. Such disclosures (to be set forth on Standard Form-LLL, contained in 31 C.F.R. Part 21, Appendix B) shall be forwarded from Tier to Tier up to the County, which will, in turn, forward the certification(s) to Treasury. Contractor shall cause the language of this Section VIII.A. to be included in all Subcontracts. This certification is a material representation of fact upon which County has relied when entering into this Contract, and all liability arising from an erroneous representation shall be borne solely by Contractor.
- B. Contractors that bid or apply for a contract exceeding \$100,000 (including this Contract, if applicable) also must file with County the certification in Attachment 1 to this Addendum, which is attached hereto and incorporated herein.
- C. Contractor also shall cause any Subcontractor with a Subcontract (at any Tier) exceeding \$100,000 to file with the Tier above it the certification in Attachment 1 to this Addendum, which is attached hereto and incorporated herein.

### **IX. Procurement of Recovered Materials**

- A. This Section shall apply if (1) this Contract involves the purchase of an item designated by the Environmental Protection Agency (“EPA”) in 40 C.F.R. Part 247 that exceeds \$10,000 or (2) the total value of such designated items acquired during County’s preceding fiscal year exceeded \$10,000.
- B. In the performance of the Contract, Contractor shall make maximum use of products containing recovered materials that are EPA-designated items, unless the product cannot (1) be acquired competitively within a timeframe providing for compliance with the Contract performance

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schedule, (2) meet Contract performance requirements, or (3) be acquired at a reasonable price. Information about this requirement, along with the list of EPA-designated items, is available on EPA's website. Contractor also agrees to comply with all other applicable requirements of Section 6002 of the Solid Waste Disposal Act.

### **X. Prohibition on Contracting for Covered Telecommunications Equipment or Services**

A. *Definitions.* Unless otherwise defined in this Contract, capitalized terms used in this Section X shall have the meanings ascribed thereto in this Section X.A.

1. "Backhaul" means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).
2. "Covered Foreign Country" means the People's Republic of China.
3. "Covered Telecommunications Equipment or Services" means (a) telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities); (b) for the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities); (c) telecommunications or video surveillance services provided by such entities or using such equipment; or (d) telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a Covered Foreign Country.
4. "Critical Technology" means (1) defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations; (2) items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations and controlled (a) pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology, or (b) for reasons relating to regional stability or surreptitious listening; (3) specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities); (4) nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material); (5) select agents and toxins covered by part 331 of title 7, Code of Federal Regulations; part 121 of title 9 of such Code; or part 73 of title 42 of such Code; or (6) emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. § 4817).

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5. “Interconnection Arrangements” means arrangements governing the physical connection of two or more networks to allow the use of another’s network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.
6. “Roaming” means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.
7. “Substantial or Essential Component” means any component necessary for the proper function or performance of a piece of equipment, system, or service.
8. “Telecommunications Equipment or Services” means telecommunications or video surveillance equipment or services, such as, but not limited to, mobile phones, land lines, internet, video surveillance, and cloud services.

### B. Prohibitions.

1. Section 889(b) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019, Pub. L. No. 115-232, and 2 C.F.R. § 200.216 prohibit the head of an executive agency on or after August 13, 2020, from obtaining or expending grant, cooperative agreement, loan, or loan guarantee funds on certain telecommunications products or from certain entities for national security reasons.
2. Unless an exception in Section X.C. applies, Contractor and any Subcontractors may not use grant, cooperative agreement, loan, or loan guarantee funds (including, without limitation, Fiscal Recovery Funds) received from a federal government to:
  - a. Procure or obtain any equipment, system, or service that uses Covered Telecommunications Equipment or Services as a Substantial or Essential Component of any system or as Critical Technology of any system;
  - b. Enter into, extend, or renew a contract to procure or obtain any equipment, system, or service that uses Covered Telecommunications Equipment or Services as a Substantial or Essential Component of any system or as Critical Technology of any system;
  - c. Enter into, extend, or renew contracts with entities that use Covered Telecommunications Equipment or Services as a Substantial or Essential Component of any system or as Critical Technology as part of any system; or
  - d. Provide, as part of its performance of this Contract, any Subcontract; any other contractual instrument; or any equipment, system, or service that uses Covered Telecommunications Equipment or Services as a Substantial or Essential Component of any system or as Critical Technology as part of any system.

### C. Exceptions.

1. This clause does not prohibit Contractor or Subcontractors from providing:

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- a. A service that connects to the facilities of a third party, such as Backhaul, Roaming, or Interconnection Agreements, or
  - b. Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.
2. By necessary implication and regulation, the prohibitions also do not apply to:
- a. Covered telecommunications equipment that:
    - i. Is not used as a Substantial or Essential Component of any system and
    - ii. Is not used as Critical Technology of any system.
  - b. Other telecommunications equipment or services that are not considered Covered Telecommunications Equipment or Services.

### D. Reporting Requirement

1. In the event Contractor identifies, during contract performance, covered Telecommunications Equipment or Services used as a Substantial or Essential Component of any system or as Critical Technology as part of any system, or if Contractor is notified of such by a Subcontractor at any Tier or by any other source, Contractor shall report the information in paragraph D.2(d)(2) of this Section X to County, unless procedures for reporting the information are established elsewhere in this Contract.
  2. Contractor shall report the following information to County pursuant to paragraph D.1 of this Section X:
    - a. Within one business day from the date of such identification or notification: contract number; order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.
    - b. Within ten business days of submitting the information in paragraph D.2.a. of this Section: any further available information about mitigation actions undertaken or recommended. In addition, Contractor shall describe (i) the efforts it undertook to prevent use or submission of Covered Telecommunications Equipment or Services and (ii) any additional efforts that will be incorporated to prevent future use or submission of Covered Telecommunications Equipment or Services.
- E. *Subcontractor*. Contractor shall cause to be inserted into all Subcontracts and other contractual instruments relating to the performance of this Contract the substance of this Section X, including this paragraph E.



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### **XI. Domestic Preferences for Procurements**

- A. For purposes of this Section XI, the terms below are defined as follows:
1. “Produced in the United States” means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coating, occurred in the United States.
  2. “Manufactured Products” means items and construction materials composed, in whole or in part, of non-ferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.
- B. As applicable, and to the extent consistent with law, Contractor should, to the greatest extent practicable, provide a preference for the purchase, acquisition, or use of goods, products or materials Produced in the United States. This includes, but is not limited to, iron, aluminum, steel, cement, and other Manufactured Products. Contractor shall cause any Subcontractors to include the requirements of this Section XI in any Subcontracts.

### **XII. Solicitation of Minority and Women-Owned Business Enterprises**

- A. If Contractor intends to let any Subcontracts, Contractor shall (1) place qualified small and minority businesses and women’s business enterprises on its solicitation lists; (2) assure that small and minority businesses and women’s business enterprises are solicited whenever they are potential sources; (3) divide total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses and women’s business enterprises; (4) establish delivery schedules, where the requirement permits, which encourage participation by small and minority businesses and women’s business enterprises; (5) use the services and assistance, as appropriate, of the Small Business Administration, the Minority Business Development Agency of the Department of Commerce, and the North Carolina Office for Historically Underutilized Businesses.
- B. For the purposes of Section XII.A., an entity shall qualify (1) as a “minority business” or “women’s business enterprise” if it is currently certified as a North Carolina “historically underutilized business” under Chapter 143, Section 128.4(a) of the N.C. General Statutes (hereinafter G.S.), and (2) as a “small business” if it is independently owned and operated and is qualified under the Small Business Administration criteria and size standards at 13 C.F.R. Part 21.

### **XIII. Access to Records**

- A. Contractor agrees to provide County, the Department of the Treasury, the Treasury Office of Inspector General, the Government Accountability Office, and the Comptroller General of the United States, or any authorized representatives of these entities, access to any records (electronic and otherwise) of Contractor which are directly pertinent to this Contract to conduct audits or any

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other investigations. Contractor agrees to permit any of the foregoing parties to reproduce such records by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.

- B. Contractor agrees to retain all records covered by this Section XIII through December 31, 2031, or such longer period as is necessary for the resolution of any litigation, claim, negotiation, audit, or other inquiry involving the Contract.

### **XIV. Conflicts of Interest; Gifts and Favors**

- A. Contractor understands that (1) County will use Fiscal Recovery Funds to pay for the cost of this Contract and (2) the expenditure of Fiscal Recovery Funds is governed by the Conflict of Interest Policy of the County, the Regulatory Requirements (including, without limitation, 2 C.F.R. § 200.318(c)(1)), and North Carolina law (including, without limitation, G.S. 14-234(a)(1) and -234.3(a)).
- B. Contractor certifies to County that as of the date hereof, to the best of its knowledge after reasonable inquiry, no employee, officer, or agent of County involved in the selection, award, or administration of this Contract (each a “Covered Individual”); no member of a Covered Individual’s immediate family; no partner of a Covered Individual; and no organization (including Contractor) which employs or is about to employ a Covered Individual has a financial or other interest in, or has received a tangible personal benefit from, Contractor. Should Contractor obtain knowledge of any such interest or any tangible personal benefit described in the preceding sentence after the date hereof, Contractor shall promptly disclose the same to County in writing.
- C. Contractor certifies to County that it has not provided, nor offered to provide, any gratuities, favors, or anything of value to an officer, employee, or agent of County. Should Contractor obtain knowledge of the provision, or offer of any provision, of any gratuity, favor, or anything of value to an officer, employee, or agent described in the preceding sentence after the date hereof, Contractor shall promptly disclose the same to County in writing.

### **XV. Assurances of Compliance with Title VI of the Civil Rights Act of 1964**

- A. Contractor and any Subcontractor, or the successor, transferee, or assignee of Contractor or any Subcontractor, shall comply with Title VI of the Civil Rights Act of 1964, which prohibits recipients of federal financial assistance from excluding from a program or activity, denying benefits of, or otherwise discriminating against a person on the basis of race, color, or national origin (42 U.S.C. §§ 2000d *et seq.*), as implemented by the Department of the Treasury’s Title VI regulations, 31 C.F.R. Part 22, which are herein incorporated by reference and made a part of this Contract. Title VI also provides protection to persons with “Limited English Proficiency” in any program or activity receiving federal financial assistance, 42 U.S.C. §§ 2000d *et seq.*, as implemented by Treasury’s Title VI regulations, 31 C.F.R. Part 22, and herein incorporated by reference and made a part of this Contract.

## Attachment B

### XVI. Other Non-Discrimination Statutes

- A. Contractor acknowledges that County is bound by and agrees, to the extent applicable to Contractor, to abide by the provisions contained in the federal statutes enumerated below and any other federal statutes and regulations that may be applicable to the expenditure of Fiscal Recovery Funds:
1. The Fair Housing Act, Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§ 3601 *et seq.*), which prohibits discrimination in housing on the basis of race, color, religion, national origin, sex, familial status, or disability;
  2. Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. § 794), which prohibits discrimination on the basis of disability under any program or activity receiving federal financial assistance;
  3. The Age Discrimination Act of 1975, as amended (42 U.S.C. §§ 6101 *et seq.*), and Treasury's implementing regulations at 31 C.F.R. Part 23, which prohibit discrimination on the basis of age in programs or activities receiving federal financial assistance; and
  4. Title II of the Americans with Disabilities Act of 1990, as amended (42 U.S.C. §§ 12101 *et seq.*), which prohibits discrimination on the basis of disability in programs, activities, and services provided or made available by state and local governments or instrumentalities or agencies thereto.

### XVII. Miscellaneous

- A. *Increasing Seat Belt Use in the United States*. Pursuant to Executive Order 13043, 62 Fed. Reg. 19,216 (Apr. 18, 1997), County encourages Contractor to adopt and enforce on-the-job seat belt policies and programs for its employees when operating company-owned, rented, or personally owned vehicles.
- B. *Reducing Text Messaging While Driving*. Pursuant to Executive Order 13513, 74 Fed. Reg. 51,225 (Oct. 6, 2009), County encourages Contractor to adopt and enforce policies that ban text messaging while driving.

### XVIII. Conflicts and Interpretation

- A. To the extent that any portion of this Addendum conflicts with any term or condition of this Contract expressed outside of this Addendum, the terms of this Addendum shall govern.

[Remainder of Page Intentionally Left Blank]

**Attachment B**

**CONTRACTOR:**

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

**COUNTY:**

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

**Attachment B**

**ATTACHMENT 1  
TO  
FEDERAL CONTRACT PROVISIONS  
APPENDIX A, 31 C.F.R. PART 21 – CERTIFICATION REGARDING LOBBYING**

The undersigned certifies, to the best of the undersigned's knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, or the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit [Standard Form-LLL, "Disclosure Form to Report Lobbying,"](#) in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.
4. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31 of the U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, \_\_\_\_\_, certifies and affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. Chapter 38, Administrative Remedies for False Claims and Statements, apply to this certification and disclosure, if any.

\_\_\_\_\_  
Signature of Contractor's Authorized Official

\_\_\_\_\_  
Name and Title of Contractor's Authorized Official

\_\_\_\_\_  
Date

STATE OF NORTH CAROLINA

AFFIDAVIT

COUNTY OF RANDOLPH

\*\*\*\*\*

I, \_\_\_\_\_ (the individual attesting below), being duly authorized by and on behalf of \_\_\_\_\_ (the entity contracting with Randolph County hereinafter "Employer") after first being duly sworn hereby swears or affirms as follows:

- 1. Employer understands that E-Verify is the federal E-Verify program operated by the United States Department of Homeland Security and other federal agencies, or any successor or equivalent program used to verify the work authorization of newly hired employees pursuant to federal law in accordance with NCGS §64-25(5).
- 2. Employer understands that Employers Must Use E-Verify. Each employer, if employing 25 or more employees in this State, after hiring an employee to work in the United States, shall verify the work authorization of the employee through E-Verify in accordance with NCGS§64-26(a).
- 3. Employer is a person, business entity, or other organization that transacts business in this State and that employs 25 or more employees in this State. (mark Yes or No)
  - a. YES \_\_\_\_\_, or
  - b. NO \_\_\_\_\_
- 4. Employer's subcontractors comply with E-Verify, and Employer will ensure compliance with E-Verify by any subcontractors subsequently hired by Employer during the term of its contract with Randolph County.

This \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Signature of Affiant  
Print or Type Name: \_\_\_\_\_

State of \_\_\_\_ County of \_\_\_\_\_

Signed and sworn to (or affirmed) before me, this the \_\_\_\_  
day of \_\_\_\_\_, 20\_\_\_\_.

My Commission Expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public

(Affix Official/Notarial Seal)