



March 16, 2021

Ms. Kimberley Campbell, Chief Clerk
North Carolina Utilities Commission
430 North Salisbury Street
Dobbs Building
5th Floor
Raleigh, NC 27603-5918

Re: Application for Certificate of Public Convenience and Necessity
Edens Lane – Wastewater Service
Hampstead, NC, Pender County

Dear Ms. Campbell,

Please find attached the "Application for Certificate of Public Convenience and Necessity and for Approval of Rates" to provide wastewater utility service to the Edens Lane Subdivision located in Hampstead, North Carolina, Pender County.

Please note that certain exhibits are outstanding and will be provided upon receipt. In the interest of time required by DWQ in its review of the collection system plans and prior to issuing a permit, DEQ is requesting the Public Staff provide the standard letter used in the past indicating the Commission approval is likely. Pluris Hampstead, LLC will be requesting the Public Staff to provide a letter.

Should you have any questions, please contact feel free to contact me at 910.218.7653.

Sincerely,

A handwritten signature in blue ink, appearing to read "Kaarin M. Williams".

Kaarin M. Williams
Permitting - Pluris Hampstead, LLC

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

APPLICATION FOR A CERTIFICATE OF PUBLIC CONVENIENCE & NECESSITY
AND FOR APPROVAL OF RATESINSTRUCTIONS

Notes or explanations placed in the margins of the application are acceptable. If additional space is needed, supplementary sheets may be attached. If any section does not apply, write "not applicable" or cross out the section.

APPLICANT

1. Trade name used for utility business Pluris Hampstead, LLC
2. Name of owner (if different from trade name) _____
3. Business mailing address 5950 Berkshire Lane, Ste 800
City and state Dallas, TX Zip Code 75225
4. Business street address (if different from mailing address) _____
5. Business telephone number (888) 758-7471
6. If corporation, list the following:

President <u>N/A</u>	Vice President <u>N/A</u>
Secretary <u>N/A</u>	Treasurer <u>N/A</u>

 Three (3) largest stockholders and percent of voting shares held by each
N/A
7. If partnership, list the owners and percent of ownership held by each

PROPOSED UTILITY SERVICE AREAS

8. Name of Subdivision or Service Area Edens Lane
9. County (or Counties) Pender
10. Type of Service (Water and/or Sewer) Sewer

PROPOSED RATES

(Amount Applicant Proposes to Charge)

11. Metered Residential Service:

Water: <u>N/A</u>	
Sewer: <u>N/A</u>	
12. Flat Rate Residential Service:

Water: <u>N/A</u>	
Sewer: <u>No Change - as authorized in Docket No. W-1305, Sub 12.</u>	
13. Nonresidential Service (explain):

Water: <u>N/A</u>	
Sewer: <u>No Change - as authorized in Docket No. W-1305, Sub 12.</u>	
14. Tap-on fees:

Water: <u>N/A</u>	
Sewer: <u>No Change - as authorized in Docket No. W-1305, Sub 12</u>	
15. Finance charge for late payment: No Change - as authorized in Docket No. W-1305, Sub 12.
(NCUC Rule R12-9) specifies not more than one percent (1.0%) per month will be applied to the unpaid balance of all bills still past due 25 days after billing date.)
16. Reconnection charge if water service cut off by utility as specified in NCUC Rule R7-20: No Change - as authorized in Docket No. W-1305, Sub 12
17. Reconnection charge if water service discontinued at customer's request: No Change - as authorized in Docket No. W-1305, Sub 12.
18. Reconnection charge if sewer service cut off by utility as specified in NCUC Rule R10-16: No Change - as authorized in Docket No. W-1305, Sub 12.
19. Other charges: No Change - as authorized in Docket No. W-1305, Sub 12.

PROPOSED BILLING

1. Frequency of billing shall be (monthly, quarterly, etc.) No Change - as authorized in Docket No. W-1305, Sub 12.
2. Billing shall be for service (in advance or arrears) No Change - as authorized in Docket No. W-1305, Sub 012
3. Bills past due 15 days after billing dates: (NCUC Rule R12-9 specifies that bills shall not be past due less than fifteen (15) days after billing date).
4. Will regular billing be by written statement? (yes or no) Yes
5. Will the billing statement contain the following? (Indicate yes or no for each item)
 - (a) Meter reading at beginning and end of billing period N/A
 - (b) Date of meter readings N/A
 - (c) Gallons used, based on meter readings N/A
 - (d) Amount due for current billing period listed as a separate amount Yes
 - (e) Amount due from previous billing period listed as a separate amount Yes
 - (f) Amount due for each special charge (i.e., deposits, tap fees, etc.) listed as a separate amount .. Yes
6. Show how the following will appear on the billing statement:
 - (a) Mailing address of company: Pluris Hampstead, LLC, PO Box 610186, Dallas Texas 75261
 - (b) Address where bill can be paid in person: Pluris's National Call Center in Sneads Ferry - 1095 Highway 210, Sneads Ferry, North Carolina 28460; Customers can also pay in person at any Walmart Store nearby.
 - (c) Name and phone number of alternative persons to contact for emergency service after business hours: Dial (888) 758-7471; After Hours Service will take message and immediately contact Randy Hoffer Regional Manager in the area.
7. Is service already metered? (yes or no) N/A
8. Does the Applicant understand the provisions for establishing credit and collecting customer deposits set forth in NCUC Rules and Regulations, Chapter 12? (yes or no) Yes
(Customer deposits must be refunded to customers having not more than two (2) bills overdue during a 12-month period and who are not then delinquent on the payment of their bills, per NCUC Rule R12-5.)

PRESENT RATES

9. Are you presently charging for service? If so, describe the rates being charged.
No - Rates to be billed as authorized in Docket No. W-1305, Sub 12.
10. How long have these rates been in effect? Since November 13, 2020, the date of the Order issued in Docket No. W-1305, Sub 12.

PERSONS TO CONTACT

	<u>NAME</u>	<u>ADDRESS</u>	<u>TELEPHONE</u>
11. General Manager	<u>Randy Hoffer</u>	<u>1095 Highway 210, Sneads Ferry NC</u>	<u>(888) 758-7471</u>
12. Complaints or Billing	<u>Beverly Yopp</u>	<u>1095 Highway 210, Sneads Ferry NC</u>	<u>(888) 758-7471</u>
13. Engineering Operations	<u>Randy Hoffer</u>	<u>1095 Highway 210, Sneads Ferry NC</u>	<u>(888) 758-7471</u>
14. Emergency Service	<u>Customer Care</u>	<u>1095 Highway 210, Sneads Ferry NC</u>	<u>(888) 758-7471</u>
15. Accounting	<u>Adriana Pate</u>	<u>5950 Berkshire Ln, Ste 800, Dallas, TX</u>	<u>(214) 220-3427</u>

16. Are the names and phone numbers shown above listed in the phone book by each of the proposed service areas? (yes or no) No. The numbers are listed on the Pluris Holdings website at www.plurisusa.com.
17. Can customers make phone calls for service without being charged for a long distance phone call? (yes or no) Yes
18. Do persons designated to receive phone calls for emergency service, after regular business hours, have authority to provide the needed repairs without first contacting owner? (yes or no) Yes
19. List the qualifications of the person in charge of the utility system:
Randy Hoffer; CS4 #26293; SI #23922; SS #986586; WW4 #991796; P/C #997569; BWELL #030057; BDIST #030057
20. List the date(s) and describe any DENR violation(s) since the last application for franchise, transfer, or rate increase: None.

SERVICE AREA

Fill in one column for each subdivision or service area.

		(1)	(2)	(3)
1.	Name of subdivision or service area	Edens Lane		
2.	County (or Counties)	Pender		
3.	Type of service (water, sewer, etc.)	Sewer		
4.	If water is purchased, list from whom	N/A		
5.	Source of water supply (wells, etc.)	N/A		
6.	Number of wells in service	N/A		
7.	Pumping capacity of each pump in service	N/A		
8.	Elevated storage tank capacity (gals.)	N/A		
9.	Pressure tank capacity (gals.)	N/A		
10.	Types of water treatment (chlorine, etc.)	N/A		
11.	Number of fire hydrants installed	N/A		
12.	Is sewage disposal by septic tank or by sewer system?	N/A		
13.	If disposal is by sewer system, is sewage treated by utility company or by others?	N/A		
14.	Capacity of Company's sewage treatment plant (gallons per day)	500,000 gpd		
15.	Is service metered? (yes or no)	N/A		
16.	Number of water meters in use	N/A		
17.	Number of service taps in use (list number of each size)	Water N/A		
		Sewer 1 tap for development		
18.	Number of customers at the end of test year	Water N/A		
		Sewer 645		
19.	Number of customers that can be served by mains already installed (including present customers, vacant lots, etc.)	Water N/A		
		Sewer 5,000		
20.	Number of customers that can be served by pumping capacity	Water N/A		
21.	Number of customers that can be served by storage tank capacity	Water N/A		
22.	Number of customers that can be served by treatment plant capacity	Sewer 2,778		
23.	Name nearest water/sewer utility system	Pluris Hampstead		
24.	Distance to nearest water/sewer utility system	8,760'		
25.	Does any other person or utility seek to furnish the service(s) proposed herein? (yes or no)	No		
26.	a. DENR System I.D. No.	Water N/A		
	b. NPDES or Nondischarge Permit No.	Sewer WQ0037287		

FINANCIAL STATEMENT

1. Will a separate set of books be maintained for the utility business?
Yes _____
2. Will a separate bank account be maintained for the utility business?
Yes _____
3. Are the revenues and expenses listed below based on past operations or are they estimated for future operations?
(actual or estimated) Estimated _____

Note: If the Applicant already holds a public utility franchise, the proposed service area is new (i.e., there are no customers being served), and the proposed rates herein are the same as those previously approved, then the financial information below (lines 4 through 35) may be omitted.

*Pluris Hampstead, LLC holds a public utility franchise.
Rates will be the same as approved by the NCUC.*

REVENUES AND EXPENSES

For 12 Months Ended September 30, 2019 (Date)

<u>Revenues</u>	<u>Water</u>	<u>Sewer</u>
4. Residential service (flat rate)	\$ N/A	\$ N/A
5. Residential service (metered rate)	\$ N/A	\$ N/A
6. Nonresidential service (flat rate)	\$ N/A	\$ N/A
7. Nonresidential service (metered rate)	\$ N/A	\$ N/A
8. Other revenues (describe in remarks below)	\$ N/A	\$ N/A
9. Total Revenues (Lines 4 thru 8)	\$ N/A	\$ N/A
10. Total salaries (except owner)	\$ N/A	\$ N/A
11. Salaries paid to owner	\$ N/A	\$ N/A
12. Administrative and office expense (except salaries)	\$ N/A	\$ N/A
13. Maintenance and repair expense (except salaries)	\$ N/A	\$ N/A
14. Transportation expenses	\$ N/A	\$ N/A
15. Electric power for pumping	\$ N/A	\$ N/A
16. Chemicals for treatment	\$ N/A	\$ N/A
17. Testing fees	\$ N/A	\$ N/A
18. Permit fees	\$ N/A	\$ N/A
19. Purchased water/sewer treatment	\$ N/A	\$ N/A
20. Annual depreciation	\$ N/A	\$ N/A
21. Taxes: State income taxes	\$ N/A	\$ N/A
22. Federal income taxes	\$ N/A	\$ N/A
23. Gross receipts (or franchise tax)	\$ N/A	\$ N/A
24. Property taxes	\$ N/A	\$ N/A
25. Payroll taxes	\$ N/A	\$ N/A
26. Other taxes	\$ N/A	\$ N/A
27. Interest on debt during year	\$ N/A	\$ N/A
28. Other expenses (describe in remarks below)	\$ N/A	\$ N/A
29. Total Expenses (Lines 10 thru 28)	\$ N/A	\$ N/A
30. Net Income (Line 9 minus Line 29)	\$ N/A	\$ N/A

Remarks

31. N/A
32. N/A
33. N/A
34. N/A
35. N/A

NUMBER OF CUSTOMERS SERVED

	<u>Water</u>		<u>Sewer</u>	
	<u>Flat Rate</u>	<u>Metered</u>	<u>Flat Rate</u>	<u>Metered</u>
36. Customers at beginning of year	N/A	N/A	N/A	N/A
37. Customers at end of year	N/A	N/A	N/A	N/A
38. Average gallons used per customer	<u>6,000 gallons</u> per month			

COST OF UTILITY SYSTEM

1. Is the cost of utility system listed below based on past operation, or is it estimated for future operation?
(actual or estimated) Estimated
2. Does the cost of utility system listed below represent the cost to the Applicant herein? (yes or no)
Yes _____
If no, list cost (purchase price to Applicant). N/A

ORIGINAL COST OF UTILITY SYSTEM

As of Year Ended September 30, 2019 (Date)

Note: List the total original cost to construct and establish the system, whether or not paid for by the present owner.

	<u>Utility Property in Service</u>	<u>Balance at End of Year</u>	
		<u>Water</u>	<u>Sewer</u>
3.	Land and rights-of-way	\$ <u>N/A</u>	\$ <u>N/A</u>
4.	Structures and site improvement	\$ <u>N/A</u>	\$ <u>N/A</u>
5.	Wells	\$ <u>N/A</u>	\$ <u>N/A</u>
6.	Pumping equipment	\$ <u>N/A</u>	\$ <u>N/A</u>
7.	Treatment equipment	\$ <u>N/A</u>	\$ <u>N/A</u>
8.	Storage tanks	\$ <u>N/A</u>	\$ <u>N/A</u>
9.	Mains (excluding service connections)	\$ <u>N/A</u>	\$ <u>N/A</u>
10.	Service connections	\$ <u>N/A</u>	\$ <u>N/A</u>
11.	Meters (including spare meters)	\$ <u>N/A</u>	\$ <u>N/A</u>
12.	Office furniture and equipment	\$ <u>N/A</u>	\$ <u>N/A</u>
13.	Transportation equipment	\$ <u>N/A</u>	\$ <u>N/A</u>
14.	Other utility property in service (describe in remarks below)	\$ <u>N/A</u>	\$ <u>N/A</u>
15.	Total utility property in service (Lines 3 thru 14)	\$ <u>N/A</u>	\$ <u>N/A</u>
16.	Less: accumulated depreciation	\$ <u>N/A</u>	\$ <u>N/A</u>
17.	Less: accumulated tap fees and other contributions in aid of construction	\$ <u>N/A</u>	\$ _____
18.	Less: customer advances	\$ <u>N/A</u>	\$ <u>N/A</u>
19.	Net investment in utility property (Line 15 minus 16, 17, & 18)	\$ <u>N/A</u>	\$ _____

	<u>Utility Property Not in Service</u>	<u>Balance at End of Year</u>	
		<u>Water</u>	<u>Sewer</u>
20.	Construction work in progress	\$ <u>N/A</u>	\$ <u>N/A</u>
21.	Property held for future use	\$ <u>N/A</u>	\$ <u>N/A</u>
22.	Other (describe in remarks below)	\$ <u>N/A</u>	\$ <u>N/A</u>

Remarks

23. N/A
24. N/A
25. N/A
26. N/A

OTHER FINANCIAL INFORMATION

1. Please provide the following capital structure information for the Company prior to the purchase of the new water and/or sewer system(s):

a. Capital structure as of September 30, 2019

b. Capital structure balances:

	Amount	Percent Of Total Capital
Long-term debt/loans	\$ 3,484,460	56.3%
Preferred stock (if any)	\$ N/A	N/A
Common equity:		
Common stock	\$ 5,231,647	84.6%
Retained earnings	\$ (2,530,543)	(40.9%)
Total common equity	\$ 2,701,104	43.7%
Total capital	\$ 6,185,564	100%

2. The purchase price of the system will be financed as follows:

- a. Long-term debt \$ N/A
- b. Short-term debt \$ N/A
- c. Common stock \$ N/A
- d. Retained earnings \$ N/A
- e. Other (please describe below on Line g) \$ N/A
- f. Total purchase price \$ N/A

g. Description of other: N/A

3. Please provide the following for improvements/additions to be made in the first year:

a. Brief description: None.

b. Financing:

- (1) Long-term debt \$ N/A
- (2) Short-term debt \$ N/A
- (3) Common stock \$ N/A
- (4) Retained earnings \$ N/A
- (5) Other (please describe below on Line (7)) \$ N/A
- (6) Total improvements/additions \$ N/A

(7) Description of other: N/A

EXHIBITS

THE FOLLOWING EXHIBITS SHALL BE ATTACHED TO THE APPLICATION:

1. If the Applicant is a corporation, enclose a copy of the Articles of Incorporation on file with the North Carolina Secretary of State. (Not required if previously filed with the Commission.) **Not required. Previously filed**
2. If the Applicants are doing business as a partnership, enclose a copy of the partnership agreement. (Not required if previously filed with the Commission.) **Not applicable**
3. If the Applicant is conducting business under a trade name or d/b/a, enclose a copy of the certificate filed with the register of deeds in each county where the Applicant will be conducting business as required by G.S. 66-68.
4. Enclose a copy of a letter from the Department of Environment and Natural Resources granting approval of the plans for each water system. **Not applicable**
5. Enclose a copy of a letter from the Department of Environment and Natural Resources granting approval of the plans for each sewer system. **NCDEQ Permit is attached**
6. Enclose a copy of a Division of Environmental Health (DEH) report on a chemical analysis of untreated water from each well. (This should not be confused with the monthly samples submitted to DEH for bacteriological analysis. Contact DEH for instructions to obtain a sample for chemical analysis.) **Not applicable**
7. Enclose a copy of purchase agreements or contracts showing provision for ownership or control of the water or sewer systems, including sites for wells or treatment plants. **Pluris holds a public utility franchise.**
8. Enclose a copy of contracts or agreements, including all attachments, exhibits, and appendices, between the utility and any other party (land developers, customers, etc.) regarding the proposed utility services, including contracts regarding tap fees, construction costs, easements, and rights-of-way, etc. (If none, write "none"). **Attached**
9. Enclose a vicinity map showing the location of the proposed subdivisions or service areas in sufficient detail for someone not familiar with the county to locate the subdivisions. (A county roadmap with the subdivisions outlined is suggested.) **Attached**
10. Enclose maps of the subdivisions in sufficient detail to show the layout of streets, lots, the water or sewer mains, hydrants, wells, pumping equipment, treatment facilities, storage facilities, etc. **Attached**
11. Enclose a copy of the workpapers supporting the estimate of the plant costs, including a breakdown by type of plant item, showing the detail of how the estimated cost was determined, and indicating which plant items, if any, will be contributed to the utility. **Not applicable. The Developer paid for in tract infrastructure.**
12. Enclose a copy of the most recent fiscal year financial statements, audited if available, for the Applicant. **N.A.**
13. Enclose a copy of the most recent fiscal year financial statements, audited if available, for the parent company of the Applicant. **Attached**
14. If the information requested in Exhibits 12 and 13 is not available, enclose a copy of the most recent fiscal year financial statements or statement of net worth for the principals of the utility and/or parent company.

FILING INSTRUCTIONS

15. Eight (8) copies of the application and exhibits shall be filed with the **North Carolina Utilities Commission, 4325 Mail Service Center, Raleigh, North Carolina 27699-4325**. One of these copies must have an original signature. (Applicants must also provide any copies to be returned to them.)
16. Enclose a filing fee as required by G. S. §62-300. A Class A company (annual revenues of \$1,000,000 or more) requires a \$250 filing fee. A Class B company (annual revenues between \$200,000 and \$1,000,000) requires a \$100 filing fee. A Class C company (annual revenues less than \$200,000) requires a \$25 filing fee. **MAKE CHECK PAYABLE TO THE N.C. DEPARTMENT OF COMMERCE/UTILITIES COMMISSION.**

SIGNATURE

17. Application shall be signed and verified by the Applicant.

Signature *[Handwritten Signature]*
 Date 3/15/21

18. (Typed or Printed Name) *[Handwritten Name]*
 personally appearing before me and, being first duly sworn, says that the information contained in this application and in the exhibits attached hereto are true to the best of his/her knowledge and belief.

This the 15 day of March, 2021.
[Handwritten Name]
 Notary Public



Pluris LLC, 1095 NC Hwy 210 Smeads Ferry
 Address
 My Commission Expires: September 1, 2025
 Date

ADDENDUM TO APPLICATION FOR CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY AND FOR APPROVAL OF RATES

PROJECTED INCOME STATEMENT

LINE NO.	Item	Year 1	Year 2	Year 3	Year 4	Year 5
Operating Revenue						
1	Meter Service revenue	-	-	-	-	-
2	Flat rate service revenue (1)	29,700.00	59,400.00	89,100.00	118,800.00	136,620.00
3	Bulk sewer revenue (2)	-	-	-	-	-
4	Re-connect fees	-	-	-	-	-
5	Returned check charge	-	-	-	-	-
6	Late payment charge	-	-	-	-	-
7	Other operating revenue	-	-	-	-	-
8	Total operating revenue (Sum of Line 1 thru 7)	<u>29,700.00</u>	<u>59,400.00</u>	<u>89,100.00</u>	<u>118,800.00</u>	<u>136,620.00</u>
Operating expenses						
9	Total salaries and wages	169,317.00	169,317.00	169,317.00	169,317.00	169,317.00
10	Outside Labor expenses	862.00	1,724.00	2,585.00	3,447.00	3,964.00
11	Administrative and office expense	-	-	-	-	-
12	Maintenance and repair expense	-	-	-	-	-
13	Purchased water	-	-	-	-	-
14	Purchased sewage treatment	-	-	-	-	-
15	Electric power expense	2,351.00	4,701.00	7,052.00	9,403.00	10,813.00
16	Chemical expense	2,022.00	4,044.00	6,066.00	8,088.00	9,302.00
17	Testing fees	730.00	1,461.00	2,191.00	2,922.00	3,360.00
18	Transportation expense	-	-	-	-	-
19	Other operating expense	5,622.00	11,244.00	16,867.00	22,489.00	25,862.00
20	Total operation and maintenance expenses (Sum of Line 9 thru Line 19) (3)	<u>180,904.00</u>	<u>192,491.00</u>	<u>204,078.00</u>	<u>215,666.00</u>	<u>222,618.00</u>
21	Annual depreciation expense	(6,138.00)	(12,275.00)	(12,275.00)	(12,275.00)	(12,275.00)
22	Property taxes paid on utility property	-	-	-	-	-
23	Payroll taxes	12,953.00	12,953.00	12,953.00	12,953.00	12,953.00
24	Franchise (gross receipts) tax	-	-	-	-	-
25	Annual NCUC regulatory fee	44.00	88.00	132.00	176.00	202.00
26	Total operating expenses (Sum of Line 20 thru Line 25)	<u>187,763.00</u>	<u>193,257.00</u>	<u>204,888.00</u>	<u>216,520.00</u>	<u>223,498.00</u>
Income Taxes						
27	State income taxes	-	-	-	-	-
28	Federal income taxes	-	-	-	-	-
29	Total income taxes (Line 27 + 28) (4) (5)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
30	Net operating income (loss) (Line 8 - Line 26 - Line 29)	<u>(158,063.00)</u>	<u>(133,857.00)</u>	<u>(115,788.00)</u>	<u>(97,720.00)</u>	<u>(86,878.00)</u>
31	Interest expense	-	-	-	-	-
32	Net income (loss) (Line 30 - Line 31)	<u>\$ (158,063.00)</u>	<u>\$ (133,857.00)</u>	<u>\$ (115,788.00)</u>	<u>\$ (97,720.00)</u>	<u>\$ (86,878.00)</u>

Notes: (1) Flat rate revenues have been calculated using the flat base rate of \$82.50 (per Docket W-1305, Sub 12) times the number of expected ERC's at year end.

(2) Bulk rate revenues have been calculated using a proposed rate of \$7.00 per 1,000 gallons times the number of estimated wastewater gallons at year-end.

(3) O&M expense has been factored using the estimated homes as a percentage of total ERCs times the total expense from Docket W-1305, Sub 12 (with the only exception being salaries and wages). The preceding years 1 - 4 have been calculated as a percentage based on expected year end ERC's and the number of ERC's at build out.

(4) The projected income statement is based on estimates provided by management. Actual results over five year period may vary significantly.

ADDENDUM TO APPLICATION FOR CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY AND FOR APPROVAL OF RATES

Statement of Cash Flows

LINE NO.	Item	Year 1	Year 2	Year 3	Year 4	Year 5
<u>Cash Flows From Operating Activities</u>						
1	Pre-tax operating income (loss):					
2	Total operating revenue	29,700.00	59,400.00	89,100.00	118,800.00	136,620.00
3	Less: Operation and maintenance expenses	180,904.00	192,491.00	204,078.00	215,666.00	222,618.00
4	Less: Taxes other than income	12,997.00	13,041.00	13,085.00	13,129.00	13,155.00
5	Pre-tax operating income (loss)	<u>(164,201.00)</u>	<u>(146,132.00)</u>	<u>(128,063.00)</u>	<u>(109,995.00)</u>	<u>(99,153.00)</u>
6	Income tax calculation:					
7	Pre-tax operating income (loss)	(164,201.00)	(146,132.00)	(128,063.00)	(109,995.00)	(99,153.00)
8	Plus: Contributions in aid of construction	-	-	-	-	-
9	Less: Tax depreciation	-	-	-	-	-
10	Less: Interest expense	-	-	-	-	-
11	Taxable income (loss)	-	-	-	-	-
12	State income tax	-	-	-	-	-
13	Federal income tax	-	-	-	-	-
14	Total income taxes to be paid	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
15	Net cash provided by (used in) operating activities	<u>(164,201.00)</u>	<u>(146,132.00)</u>	<u>(128,063.00)</u>	<u>(109,995.00)</u>	<u>(99,153.00)</u>
<u>Cash Flows From Investing Activities</u>						
16	Purchases of utility plant	-	-	-	-	-
17	Plus: Cash bonds posted	-	-	-	-	-
18	Less: Contributions in aid of construction	224,000.00	224,000.00	-	-	-
19	Less: Proceeds from disposal of utility plant	-	-	-	-	-
20	Net cash used (provided) by investing activities	<u>(224,000.00)</u>	<u>(224,000.00)</u>	<u>-</u>	<u>-</u>	<u>-</u>
<u>Cash Flows From Financing Activities</u>						
21	Proceeds from issuing short term debt	-	-	-	-	-
22	Less: Principal repayment of short term debt	-	-	-	-	-
23	Plus: Proceeds from issuing long term debt	-	-	-	-	-
24	Less: Principal repayment of long term debt	-	-	-	-	-
25	Less: Interest payment for short and long term debt	-	-	-	-	-
26	Plus: Proceeds from issuing stock	-	-	-	-	-
27	Less: Dividends paid	-	-	-	-	-
28	Plus: Funds provided by owner	-	-	-	-	-
29	Net cash provided (used) by financing activities	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
30	Net increase (decrease) in cash	59,799.00	77,868.00	(128,063.00)	(109,995.00)	(99,153.00)
31	Cash balance at beginning of year	-	59,799.00	137,667.00	9,604.00	(100,391.00)
32	Cash balance at end of year	<u>59,799.00</u>	<u>137,667.00</u>	<u>9,604.00</u>	<u>(100,391.00)</u>	<u>(199,544.00)</u>

Note: (1) The projected income statement is based on estimates provided by management. Actual results over five year period may vary significantly.

ADDENDUM TO APPLICATION FOR CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY AND FOR APPROVAL OF RATES

Instructions

-
1. These schedules should reflect all revenues, costs, investment, etc. associated with or to be associated with the utility system for which the subject franchise application is being submitted, exclusively.
 2. For purposes of forecasting future expenses, as a simplifying assumption, it may be assumed that increases in such costs due to increases in general price levels, (i.e., inflation) will on average be offset by concurrent rate increases. Thus, no provision(s) for such offsetting changes will need to be made in forecasting costs.
 3. A written detailed narrative explanation of all assumptions underlying the information and data contained in this addendum and five (5) copies of all workpapers developed in completing the addendum are to be filed with the Commission's Chief Clerk concurrent with the filing of the franchise application.
 4. Computations for Statement of Cash Flows (Page 2 of Addendum)
 - (a) Line 2 should agree with Addendum Page 1 - Projected Income Statement, Line 8.
 - (b) Line 3 should agree with Addendum Page 1 - Projected Income Statement, Line 20.
 - (c) Line 4 should agree with Addendum Page 1 - Projected Income Statement, Sum of Line 22 thru Line 25.
 - (d) Line 14 should equal Line 12 plus Line 13.
 - (e) Line 15 should equal Line 5 less Line 14.
 - (f) Line 30 should equal Line 15 less Line 20 plus Line 29.
 - (g) Line 31 should equal the cash balance at the end of the prior year, except for the beginning balance for Year 1, which should be zero.
 - (h) Line 32 should equal Line 30 plus Line 31.



Division of Water Resources

State of North Carolina
Department of Environmental Quality
Division of Water Resources

Flow Tracking for Sewer Extension Applications
(FTSE 10-18)

Entity Requesting Allocation: Pluris Hampstead LLC

Project Name for which flow is being requested: Edens Lane

More than one FTSE may be required for a single project if the owner of the WWTP is not responsible for all pump stations along the route of the proposed wastewater flow.

I. Complete this section only if you are the owner of the wastewater treatment plant.

- a. WWTP Facility Name: Pluris, Hampstead LLC
b. WWTP Facility Permit #: WQ0037287

Table with 2 columns: Item description and flow value in MGD. Includes rows for permitted flow, obligated flow, actual avg. flow, total flow for request, total actual and obligated flows, and percent of permitted flow used.

II. Complete this section for each pump station you are responsible for along the route of this proposed wastewater flow.

List pump stations located between the project connection point and the WWTP:

Table with 8 columns: Pump Station (Name or Number), Pump Station Permit No., Firm Capacity, * MGD, (A) Design Average Daily Flow** MGD, (B) Approx. Current Avg. Daily Flow, MGD, (C) Obligated, Not Yet Tributary Daily Flow, MGD, (D)=(B+C) Total Current Flow Plus Obligated Flow, and (E)=(A-D) Available Capacity***.


* The Firm Capacity (design flow) of any pump station is defined as the maximum pumped flow that can be achieved with the largest pump taken out of service.
** Design Average Daily Flow is the firm capacity of the pump station divided by a peaking factor (pf) not less than 2.5, per Section 2.02(A)(4)(c) of the Minimum Design Criteria.
*** A Planning Assessment Addendum shall be attached for each pump station located between the project connection point and the WWTP where the Available Capacity is <= 0.


Downstream Facility Name (Sewer): Pluris Hampstead LLC

Downstream Permit Number: WQCS37324

III. Certification Statement:

I Randy Hoffer, Regional Manager certify to the best of my knowledge that the addition of the volume of wastewater to be permitted in this project has been evaluated along the route to the receiving wastewater treatment facility and that the flow from this project is not anticipated to cause any capacity related sanitary sewer overflows or overburden any downstream pump station en route to the receiving treatment plant under normal circumstances, given the implementation of the planned improvements identified in the planning assessment where applicable. This analysis has been performed in accordance with local established policies and procedures using the best available data. This certification applies to those items listed above in Sections I and II plus all attached planning assessment addendums for which I am the responsible party. Signature of this form certifies that the receiving collection system or treatment works has adequate capacity to transport and treat the proposed new wastewater.

 3/18/21
Signing Official Signature Date


Regional Manager
Title of Signing Official

Instructions for Flow Tracking form (FTSE) and Planning Assessment Addendum (PAA)

Section I

- a. WWTP Facility Name: Enter the name of the WWTP that will receive the wastewater flow.
- b. WWTP Facility Permit #: Enter the NPDES or Non-Discharge number for the WWTP receiving the wastewater flow.
- c. WWTP facility's permitted flow, MGD: From WWTP owner's NPDES or Non-Discharge permit.
- d. Estimated obligated flow not yet tributary to the WWTP, MGD: This includes flows allocated to other construction projects not yet contributing flow to the collection system. Flows allocated through interlocal agreements or other contracts not yet contributing flow to the collection system are also included. For POTWs that implement a pretreatment program, include flows allocated to industrial users who may not be using all of their flow allocation. Please contact your Pretreatment Coordinator for information on industrial flow tributary to your WWTP.

As of January 15, 2008 the POTW should have reviewed flow allocations made over the last two years and reconciled their flow records, to the best of their ability, so it is known how much flow has been obligated and is not yet been made tributary to the WWTP, in accordance with local policies and procedures employed by the reporting entity.

- e. WWTP facility's actual avg. flow, MGD: Previous 12 month average.
- f. Total flow for this specific request, MGD: Enter the requested flow volume.
- g. Total actual and obligated flows to the facility, MGD Equals [d + e + f]
- h. Percent of permitted flow used: Equals $[(g / c) * 100]$

For example:

On January 15 a POTW with a permitted flow of 6.0 MGD, reported to the Regional Office that there is 0.5 MGD of flow that is obligated but not yet tributary. The annual average flow for 2007 is 2.7 MGD. There is a proposed flow expansion of 0.015 MGD.

The first Form FTSE submitted after January 15, 2008 may have numbers like this:

- c. = 6.0 MGD
- d. = 0.5 MGD
- e. = 2.7 MGD
- f. = 0.015 MGD
- g. = 3.215 MGD
- h. = 53.6 %

The next Form FTSE may be updated like this with a proposed flow expansion of 0.102 MGD:

- c. = 6.0 MGD
- d. = 0.515 MGD
- e. = 2.73 MGD
- f. = 0.102 MGD
- g. = 3.349 MGD
- h. = 55.8 %

Each subsequent FTSE form will be updated in the same manner.

Section II

List the pump station name or number and approximate pump station firm capacity, approximate design average daily flow (A) approximate current average daily flow (B), and the obligated, not yet tributary flow through the pump station (C) for each pump station that will be impacted by the proposed sewer extension project. Calculate the total current flow plus obligated flow (D=B+C) and the available capacity (E=A-D). Include the proposed flow for this project with other obligated flows that have been approved for the pump station but are not yet tributary (C).

Firm capacity is the maximum pumped flow that can be achieved with the largest pump out of service as per the Minimum Design Criteria.

Design Average Daily Flow is the firm capacity of the pump station divided by a peaking factor (pf) of not less than 2.5.

If the available capacity (E) for any pump station is ≤ 0 , then prepare a planning assessment for that pump station if the system has future specific plans related to capacity that should be considered in the permitting process.

		(A)	(B)	(C)	(D)=(B+C)	(E)=(A-D)
Pump Station (Name or Number)	Firm Capacity MGD	Design Average Daily Flow (Firm / pf)	Approx. Current Avg. Daily Flow, MGD	Obligated, Not Yet Tributary Daily Flow, MGD	Total Current Flow Plus Obligated Flow	Available Capacity*
Kaw Creek PS	0.800	0.320	0.252	0.080	0.332	-0.012
Valley Road PS	1.895	0.758	0.472	0.135	0.607	0.151

Planning Assessment Addendum Instructions

Submit a planning assessment addendum for each pump station listed in Section II where available capacity is ≤ 0 .

A planning assessment for Kaw Creek PS (see example data above) may be performed to evaluate whether there is significant likelihood that needed improvements or reductions in obligated flows will be in place prior to activating the flows from the proposed sewer extension project.

If the system decides to accept the flow based on a planning assessment addendum, it is responsible to manage the flow without capacity related sanitary overflows and must take all steps necessary to complete the project or control the rate of flow to prevent sanitary sewer overflows.

The planning assessment may identify a funded project currently in design or construction, or a planned project in the future not yet funded but in a formal plan adopted by the system. The system should carefully weigh the certainty of successful timely project completion for any expansion, flow management diversion or infiltration and inflow elimination projects that are the foundation of a planned solution to capacity tracking and acceptance compliance.

For example:

Given that:

- a. The proportion and amount of obligated, not yet tributary flow accounts for 24 % and 0.080 MGD of the committed flow in Pump Station Kaw Creek; and that
- b. The rate of activation of this obligated, not yet tributary capacity is currently approximately 0.01 MGD per year; and that
- c. A funded capital project that will provide the required planned capacity, namely _____ is in design or under construction with planned completion in _____; and/or
- d. The following applies:

The master plan and ten year capital plan contain recommended scope and funding for a capital project entitled Kaw Creek Pump Station upgrade with funding planned in July 2014. This project is planned to add 0.100 MGD to the firm capacity of the pump station by October 2015. Inclusion of this proposed capital project as a condition of this Flow Tracking/Acceptance for Sewer Extension Permit Application elevates this project's priority for funding and construction to be implemented ahead of the activation of obligated, not yet tributary flows in amounts that exceed the firm pump station capacities identified in Section II above.

Therefore:

Given reasonably expected conditions and planning information, there is sufficient justification to allow this flow to be permitted, without a significant likelihood of over-allocating capacity in the system infrastructure.



15A NCAC 02T .0300 – FAST TRACK SEWER SYSTEM EXTENSION APPLICATION
INSTRUCTIONS FOR FORM: FTA 04-16 & SUPPORTING DOCUMENTATION

This application is for sewer extensions involving gravity sewers, pump stations and force mains, or any combination that has been certified by a professional engineer and the applicant that the project meets the requirements of [15A NCAC 02T](#) and the Division's Minimum Design Criteria and that plans, specifications and supporting documents have been prepared in accordance with, [15A NCAC 02T](#), [15A NCAC 02T .0300](#), [Division policies](#) and [good engineering practices](#).

While no upfront engineering design documents are required for submittal, in accordance with 15A NCAC 02T .0305(b), design documents must be prepared prior to submittal of a fast track permit application to the Division. This would include plans, design calculations, and project specifications referenced in [15A NCAC 02T .0305](#) and the applicable minimum design criteria. These documents shall be available upon request by the Division.

Projects that are deemed permitted (do not require a permit from the Division) are explained in [15A NCAC 02T.0303](#).

Projects not eligible for review via the fast track process (must be submitted for full technical review):

- Projects that require an environmental assessment in accordance with 15A NCAC 1C .0100;
- Projects that do not meet any part of the minimum design criteria (MDC) document;
- Projects that involve a variance from the requirements of 15A NCAC 2T;
- Pressure sewer systems utilizing septic tank-effluent pumps (STEPS) or simplex grinder pumps;
- STEP or simplex grinder pumps connecting to pressurized systems (e.g. force mains);
- Vacuum sewer systems.

General – When submitting an application, please use the following instructions as a checklist in order to ensure all required items are submitted. Adherence to these instructions and checking the provided boxes will help produce a quicker review time and reduce the amount of requested additional information. **Failure to submit all required items will necessitate additional processing and review time, and may result in return of the application.** Unless otherwise noted, the Applicant shall submit one original and one copy of the application and supporting documentation.

A. One Original and One Copy of Application and Supporting Documents

- Required unless otherwise noted

B. Cover Letter (Required for All Application Packages):

- List all items included in the application package, as well as a brief description of the requested permitting action.
- Be specific as to the system type, number of homes served, flow allocation required, etc.
- If necessary for clarity, include attachments to the application form.

C. Application Fee (All New and Major Modification Application Packages):

- Submit a check or money order in the amount of \$480.00 dated within 90 days of application submittal.
- Payable to North Carolina Department of Environmental Quality (NCDEQ)

D. Fast Track (Form: FTA 04-16) Application (Required for All Application Packages):

- Submit the completed and appropriately executed application.
- If necessary for clarity or due to space restrictions, attachments to the application may be made.
- If the Applicant Type in Item I.2 is a corporation or company, provide documentation it is registered for business with the [North Carolina Secretary of State](#).
- If the Applicant Type in Item I.2 is a partnership or d/b/a, enclose a copy of the certificate filed with the Register of Deeds in the county of business.
- The Project Name in Item II.1 shall be consistent with the project name on the flow acceptance letters, agreements, etc.
- The Professional Engineer's Certification on Page 5 of the application shall be signed, sealed and dated by a [North Carolina licensed Professional Engineer](#).
- The Applicant's Certification on Page 5 of the application shall be signed in accordance with [15A NCAC 02T .0106\(b\)](#). Per 15A NCAC 02T .0106(c), an alternate person may be designated as the signing official if a delegation letter is provided from a person who meets the criteria in 15A NCAC 02T .0106(b).

E. Flow Tracking/Acceptance Form (Form: FTSE 04-16) (If Applicable):

- Submit the completed and executed FTSE form from the owners of the downstream sewers and treatment facility.
- Multiple forms maybe required where the downstream sewer owner and wastewater treatment facility are different.
- The flow acceptance indicated in form FTSE must not expire prior to permit issuance and must be dated less than one year prior to the application date.
- Submittal of this application and form FTSE indicates that owner has adequate capacity and will not violate [G.S. 143-215.67\(a\)](#).
- Intergovernmental agreements or other contracts will not be accepted in lieu of a project-specific FTSE.

F. Site Maps (All Application Packages):

- Submit an 8.5-inch x 11-inch color copy of a USGS Topographic Map of sufficient scale to identify the entire project area and closest surface waters.
- Location of the project (gravity sewer, pump stations & force main)
- Downstream connection points and permit number (if known) for the receiving sewer
- Include a street level map showing general project area.

G. Existing Permit (All Modification Packages):

- Submit the most recently issued existing permit.
- Provide a list of any items within the permit the Applicant would like the Division to address during the permit modification (i.e., permit description, flow allocation, treatment facility, etc.).

H. Power Reliability Plan (Required if portable reliability option utilized for Pump Station):

- Per [15A NCAC 02T .0305\(h\)\(1\)](#), submit documentation of power reliability for pumping stations.
- This alternative is only available for average daily flows less than 15,000 gallons per day
- It shall be demonstrated to the Division that the portable source is owned or contracted by the applicant and is compatible with the station. The Division will accept a letter signed by the applicant (see 15A NCAC 02T .0106(b)) or proposed contractor, stating that “the portable power generation unit or portable, independently-powered pumping units, associated appurtenances and personnel are available for distribution and operation of this pump station.”
- **If the portable power source or pump is dedicated to multiple pump stations, an evaluation of all the pump stations' storage capacities and the rotation schedule of the portable power source or pump, including travel timeframes, shall be provided in the case of a multiple station power outage. (Required at time of certification)**

I. Certificate of Public Convenience and Necessity (All Application Packages for Privately-Owned Public Utilities):

- Per [15A NCAC 02T .0115\(a\)\(1\)](#) provide the Certificate of Public Convenience and Necessity from the [North Carolina Utilities Commission](#) demonstrating the Applicant is authorized to hold the utility franchise for the area to be served by the sewer extension, or
- Provide a letter from the [North Carolina Utilities Commission's Water and Sewer Division Public Staff](#) stating an application for a franchise has been received and that the service area is contiguous to an existing franchised area or that franchise approval is expected.

J. Operational Agreements (Applications from HOA/POA and Developers for lots to be sold):

- Home/Property Owners' Associations
 - Per [15A NCAC 02T .0115\(c\)](#), submit the properly executed [Operational Agreement \(FORM: HOA\)](#).
 - Per 15A NCAC 02T .0115(c), submit a copy of the Articles of Incorporation, Declarations and By-laws.
- Developers of lots to be sold
 - Per 15A NCAC 02T .0115(b), submit the properly executed [Operational Agreement \(FORM: DEV\)](#).

For more information, visit the Division's collection systems [website](#)

THE COMPLETED APPLICATION PACKAGE INCLUDING ALL SUPPORTING INFORMATION AND MATERIALS, SHOULD BE SENT TO THE APPROPRIATE REGIONAL OFFICE:

REGIONAL OFFICE	ADDRESS	COUNTIES SERVED
<u>Asheville Regional Office Water Quality Section</u>	2090 US Highway 70 Swannanoa, North Carolina 28778 (828) 296-4500 (828) 299-7043 Fax	Avery, Buncombe, Burke, Caldwell, Cherokee, Clay, Graham, Haywood, Henderson, Jackson, Macon, Madison, McDowell, Mitchell, Polk, Rutherford, Swain, Transylvania, Yancey
<u>Fayetteville Regional Office Water Quality Section</u>	225 Green Street Suite 714 Fayetteville, North Carolina 28301-5094 (910) 433-3300 (910) 486-0707 Fax	Anson, Bladen, Cumberland, Harnett, Hoke, Montgomery, Moore, Robeson, Richmond, Sampson, Scotland
<u>Mooresville Regional Office Water Quality Section</u>	610 E. Center Avenue Mooresville, North Carolina 28115 (704) 663-1699 (704) 663-6040 Fax	Alexander, Cabarrus, Catawba, Cleveland, Gaston, Iredell, Lincoln, Mecklenburg, Rowan, Stanly, Union
<u>Raleigh Regional Office Water Quality Section</u>	1628 Mail Service Center Raleigh, North Carolina 27699-1628 (919) 791-4200 (919) 788-7159 Fax	Chatham, Durham, Edgecombe, Franklin, Granville, Halifax, Johnston, Lee, Nash, Northampton, Orange, Person, Vance, Wake, Warren, Wilson
<u>Washington Regional Office Water Quality Section</u>	943 Washington Square Mall Washington, North Carolina 27889 (252) 946-6481 (252) 975-3716 Fax	Beaufort, Bertie, Camden, Chowan, Craven, Currituck, Dare, Gates, Greene, Hertford, Hyde, Jones, Lenoir, Martin, Pamlico, Pasquotank, Perquimans, Pitt, Tyrrell, Washington, Wayne
<u>Wilmington Regional Office Water Quality Section</u>	127 Cardinal Drive Extension Wilmington, North Carolina 28405 (910) 796-7215 (910) 350-2004 Fax	Brunswick, Carteret, Columbus, Duplin, New Hanover, Onslow, Pender
<u>Winston-Salem Regional Office Water Quality Section</u>	450 W. Hanes Mill Road Suite 300 Winston-Salem, North Carolina 27105 (336) 776-9800	Alamance, Alleghany, Ashe, Caswell, Davidson, Davie, Forsyth, Guilford, Rockingham, Randolph, Stokes, Surry, Watauga, Wilkes, Yadkin



Application Number: _____ (to be completed by DWR)

All items must be completed or the application will be returned

I. APPLICANT INFORMATION:

1. Applicant's name: Pluris Hampstead, LLC (company, municipality, HOA, utility, etc.)
2. Applicant type: Individual Corporation General Partnership Privately-Owned Public Utility
 Federal State/County Municipal Other
3. Signature authority's name: Randy Hoffer per 15A NCAC 02T .0106(b)
Title: Regional Manager
4. Applicant's mailing address:
City: Sneads Ferry State: NC Zip: 28460-____
5. Applicant's contact information:
Phone number: (910) 322-2880 Email Address: rhoffer@plurisusa.com

II. PROJECT INFORMATION:

1. Project name: Edens Lane
2. Application/Project status: Proposed (New Permit) Existing Permit/Project
If a modification, provide the existing permit number: WQ00____ and issued date: ____
If new construction but part of a master plan, provide the existing permit number: WQ00____
3. County where project is located: Pender
4. Approximate Coordinates (Decimal Degrees): Latitude: 34.418106° Longitude: -77.639577°
5. Parcel ID (if applicable): 4214-14-4919-0000
(or Parcel ID to closest downstream sewer)

III. CONSULTANT INFORMATION:

1. Professional Engineer: Tim Clinkscales License Number: 28847
Firm: Paramounte Engineering, Inc.
Mailing address: 122 Cinema Drive
City: Wilmington State: NC Zip: 28403-____
Phone number: (910) 791-6707 Email Address: dfisk@paramounte-eng.com

IV. WASTEWATER TREATMENT FACILITY (WWTF) INFORMATION:

1. Facility Name: Pluris Hampstead, LLC Permit Number: WQ0037287
Owner Name: Pluris Hampstead, LLC

V. RECEIVING DOWNSTREAM SEWER INFORMATION (if different than WWTF):

1. Permit Number(s): WQ0037324 Downstream (Receiving) Sewer Size: 10 inch
System Wide Collection System Permit Number(s) (if applicable): WQCS0037324
Owner Name(s): Pluris Hampstead, LLC

OFFICIAL COPY
Mar 16 2021

VI. GENERAL REQUIREMENTS

1. If the Applicant is a Privately-Owned Public Utility, has a Certificate of Public Convenience and Necessity been attached?
 Yes No N/A
2. If the Applicant is a Developer of lots to be sold, has a [Developer's Operational Agreement \(FORM: DEV\)](#) been attached?
 Yes No N/A
3. If the Applicant is a [Home/Property Owners' Association](#), has an [Operational Agreement \(FORM: HOA\)](#) been attached?
 Yes No N/A

4. Origin of wastewater: (check all that apply):

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> Residential Owned | <input type="checkbox"/> Retail (stores, centers, malls) | <input type="checkbox"/> Car Wash |
| <input type="checkbox"/> Residential Leased | <input type="checkbox"/> Retail with food preparation/service | <input type="checkbox"/> Hotel and/or Motels |
| <input type="checkbox"/> School / preschool / day care | <input type="checkbox"/> Medical / dental / veterinary facilities | <input checked="" type="checkbox"/> Swimming Pool /Clubhouse |
| <input type="checkbox"/> Food and drink facilities | <input type="checkbox"/> Church | <input type="checkbox"/> Swimming Pool/Filter Backwash |
| <input type="checkbox"/> Businesses / offices / factories | <input type="checkbox"/> Nursing Home | <input type="checkbox"/> Other (Explain in Attachment) |

5. Nature of wastewater : 100 % Domestic/Commercial _____ % Commercial
 _____ % Industrial (See [15A NCAC 02T .0103\(20\)](#))
 ↳ Is there a Pretreatment Program in effect? Yes No

6. Has a flow reduction been approved under [15A NCAC 02T .0114\(f\)](#)? Yes No
 ➤ If yes, provide a copy of flow reduction approval letter

7. Summarize wastewater generated by project:

Establishment Type (see 02T.0114(f))	Daily Design Flow ^{a,b}	No. of Units	Flow
Residential, Single Family (3 bedroom)	360 gal/day	128	46,080 GPD
Residential, Single Family (4 bedroom)	480 gal/day	0	0 GPD
Clubhouse	5 gal/seat	28	140 GPD
Swimming Pool	10 gal/person	50	500 GPD
	gal/		GPD
	gal/		GPD
<i>Total</i>			52,120 GPD

- a See [15A NCAC 02T .0114\(b\), \(d\), \(e\)\(1\) and \(e\)\(2\)](#) for caveats to wastewater design flow rates (i.e., minimum flow per dwelling; proposed unknown non-residential development uses; public access facilities located near high public use areas; and residential property located south or east of the Atlantic Intracoastal Waterway to be used as vacation rentals as defined in [G.S. 42A-4](#)).
- b Per [15A NCAC 02T .0114\(c\)](#), design flow rates for establishments not identified [in table [15A NCAC 02T.0114](#)] shall be determined using available flow data, water using fixtures, occupancy or operation patterns, and other measured data.

8. Wastewater generated by project: 52,120 GPD (per [15A NCAC 02T .0114](#))
 ➤ Do not include future flows or previously permitted allocations

If permitted flow is zero, indicate why:

- Pump Station or Gravity Sewer where flow will be permitted in subsequent permits that connect to this line
- Flow has already been allocated in Permit Number: _____
- Rehabilitation or replacement of existing sewer with no new flow expected
- Other (Explain): _____

VII. GRAVITY SEWER DESIGN CRITERIA (If Applicable) - [02T .0305](#) & [MDC \(Gravity Sewers\)](#):

1. Summarize gravity sewer to be permitted:

Size (inches)	Length (feet)	Material
8	9200	PVC C900 DR-18

- Section II & III of the MDC for Permitting of Gravity Sewers contains information related to design criteria
- Section III contains information related to minimum slopes for gravity sewer(s)
- Oversizing lines to meet minimum slope requirement is not allowed and a violation of the MDC

VIII. PUMP STATION DESIGN CRITERIA (If Applicable) – [02T .0305](#) & [MDC \(Pump Stations/Force Mains\)](#):

COMPLETE FOR EACH PUMP STATION INCLUDED IN THIS PROJECT

1. Pump station number or name: Edens Lane PS
2. Approximate Coordinates (Decimal Degrees): Latitude: 34.4111° Longitude: -77.63°
3. Design flow of the pump station: 0.05212 millions gallons per day (firm capacity)
4. Operational point(s) of the pump(s): 100 gallons per minute at 198 feet total dynamic head (TDH)
5. Summarize the force main to be permitted (for this Pump Station):

Size (inches)	Length (feet)	Material
4	6555	C-900 PVC
4	185	DR-9 PVC
10	2100	C-900 PVC

6. Power reliability in accordance with [15A NCAC 02T .0305\(h\)\(1\)](#):

- Standby power source or pump with automatic activation and telemetry - 15A NCAC 02T .0305(h)(1)(B):
- Required for all pump stations with an average daily flow greater than or equal to 15,000 gallons per day
 - Must be permanent to facility

Or if the pump station has an average daily flow less than 15,000 gallons per day:

- Portable power source with manual activation, quick-connection receptacle and telemetry - 15A NCAC 02T .0305(h)(1)(C)

or

- Portable pumping unit with plugged emergency pump connection and telemetry - 15A NCAC 02T .0305(h)(1)(C):

- It shall be demonstrated to the Division that the portable source is owned or contracted by the applicant (draft agreement) and is compatible with the station.
- If the portable power source or pump is dedicated to multiple pump stations, an evaluation of all the pump stations' storage capacities and the rotation schedule of the portable power source or pump, including travel timeframes, shall be provided in the case of a multiple station power outage.

IX. SETBACKS & SEPARATIONS – (02B .0200 & 15A NCAC 02T .0305(f)):

1. Does the project comply with all separations found in [15A NCAC 02T .0305\(f\) & \(g\)](#) Yes No
 > 15A NCAC 02T.0305(f) contains minimum separations that shall be provided for sewer systems:

Setback Parameter*	Separation Required
Storm sewers and other utilities not listed below (vertical)	24 inches
Water mains (vertical-water over sewer including in benched trenches)	18 inches
Water mains (horizontal)	10 feet
Reclaimed water lines (vertical - reclaimed over sewer)	18 inches
Reclaimed water lines (horizontal - reclaimed over sewer)	2 feet
**Any private or public water supply source, including any wells, WS-I waters of Class I or Class II impounded reservoirs used as a source of drinking water	100 feet
**Waters classified WS (except WS-I or WS-V), B, SA, ORW, HQW, or SB from normal high water (or tide elevation) and wetlands (see item IX.2)	50 feet
**Any other stream, lake, impoundment, or ground water lowering and surface drainage ditches	10 feet
Any building foundation	5 feet
Any basement	10 feet
Top slope of embankment or cuts of 2 feet or more vertical height	10 feet
Drainage systems and interceptor drains	5 feet
Any swimming pools	10 feet
Final earth grade (vertical)	36 inches

- > [15A NCAC 02T.0305\(g\)](#) contains alternatives where separations in [02T.0305\(f\)](#) cannot be achieved.
- > **Stream classifications can be identified using the Division's [NC Surface Water Classifications webpage](#)
- > If noncompliance with [02T.0305\(f\) or \(g\)](#), see Section X of this application.

2. Does the project comply with separation requirements for wetlands? (50 feet of separation) Yes No
 > See the Division's draft separation requirements for situations where separation cannot be met
 > No variance is required if the alternative design criteria specified is utilized in design and construction
 > As built documents should reference the location of areas effected

3. Does the project comply with all setbacks found in the river basin rules per [15A NCAC 02B .0200?](#) Yes No
 > This would include Trout Buffered Streams per [15A NCAC 2B.0202](#)

4. Does the project comply with an individual 404 Permit or any 401 Certifications? Yes No
 > Wetland-related permits shall be requested, obtained, and adhered to for projects that impact wetlands or surface waters
 > Information can be obtained from the [401 & Buffer Permitting Branch](#)

5. Does project comply with [15A NCAC 02T.0105\(c\)\(6\)](#) (additional permits/certifications)? Yes No
 Per [15A NCAC 02T.0105\(c\)\(6\)](#), directly related environmental permits or certification applications are being prepared, have been applied for, or have been obtained. Issuance of this permit is contingent on issuance of dependent permits (erosion and sedimentation control plans, stormwater management plans, etc.).

6. Does this project include any sewer collection lines that are deemed "high-priority?"
 Per [15A NCAC 02T.0402](#), "high-priority sewer" means "any aerial sewer, sewer contacting surface waters, siphon, or sewer positioned parallel to streambanks that is subject to erosion that undermines or deteriorates the sewer.

Yes No

- > If yes, include an attachment with details for each line, including type (aerial line, size, material, and location).

High priority lines shall be inspected by the permittee or its representative at least once every six-months and inspections documented per [15A NCAC 02T.0403\(a\)\(5\)](#) or the permittee's individual System-Wide Collection permit.

X. CERTIFICATIONS:

- 1. Does the submitted system comply with 15A NCAC 02T, the Minimum Design Criteria for the Permitting of Pump Stations and Force Mains (latest version), and the Gravity Sewer Minimum Design Criteria (latest version) as applicable?

Yes No

If No, complete and submit the Variance/Alternative Design Request application (VADC 10-14) and supporting documents for review. Approval of the request is required prior to submittal of the Fast Track Application and supporting documents.

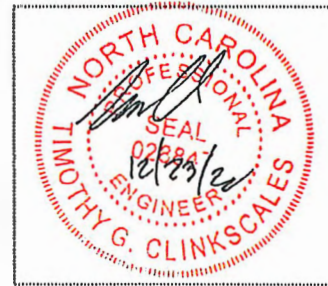
- 2. Professional Engineer's Certification:

I, Tim Clinkscale attest that this application for
 (Professional Engineer's name from Application Item III.1.)

has been reviewed by me and is accurate, complete and consistent with the information supplied in the plans, specifications, engineering calculations, and all other supporting documentation to the best of my knowledge. I further attest that to the best of my knowledge the proposed design has been prepared in accordance with the applicable regulations, Gravity Sewer Minimum Design Criteria for Gravity Sewers (latest version), and the Minimum Design Criteria for the Fast-Track Permitting of Pump Stations and Force Mains (latest version). Although other professionals may have developed certain portions of this submittal package, inclusion of these materials under my signature and seal signifies that I have reviewed this material and have judged it to be consistent with the proposed design.

NOTE – In accordance with General Statutes 143-215.6A and 143-215.6B, any person who knowingly makes any false statement, representation, or certification in any application package shall be guilty of a Class 2 misdemeanor, which may include a fine not to exceed \$10,000, as well as civil penalties up to \$25,000 per violation.

North Carolina Professional Engineer's seal, signature, and date:



- 3. Applicant's Certification per 15A NCAC 02T .0106(b):

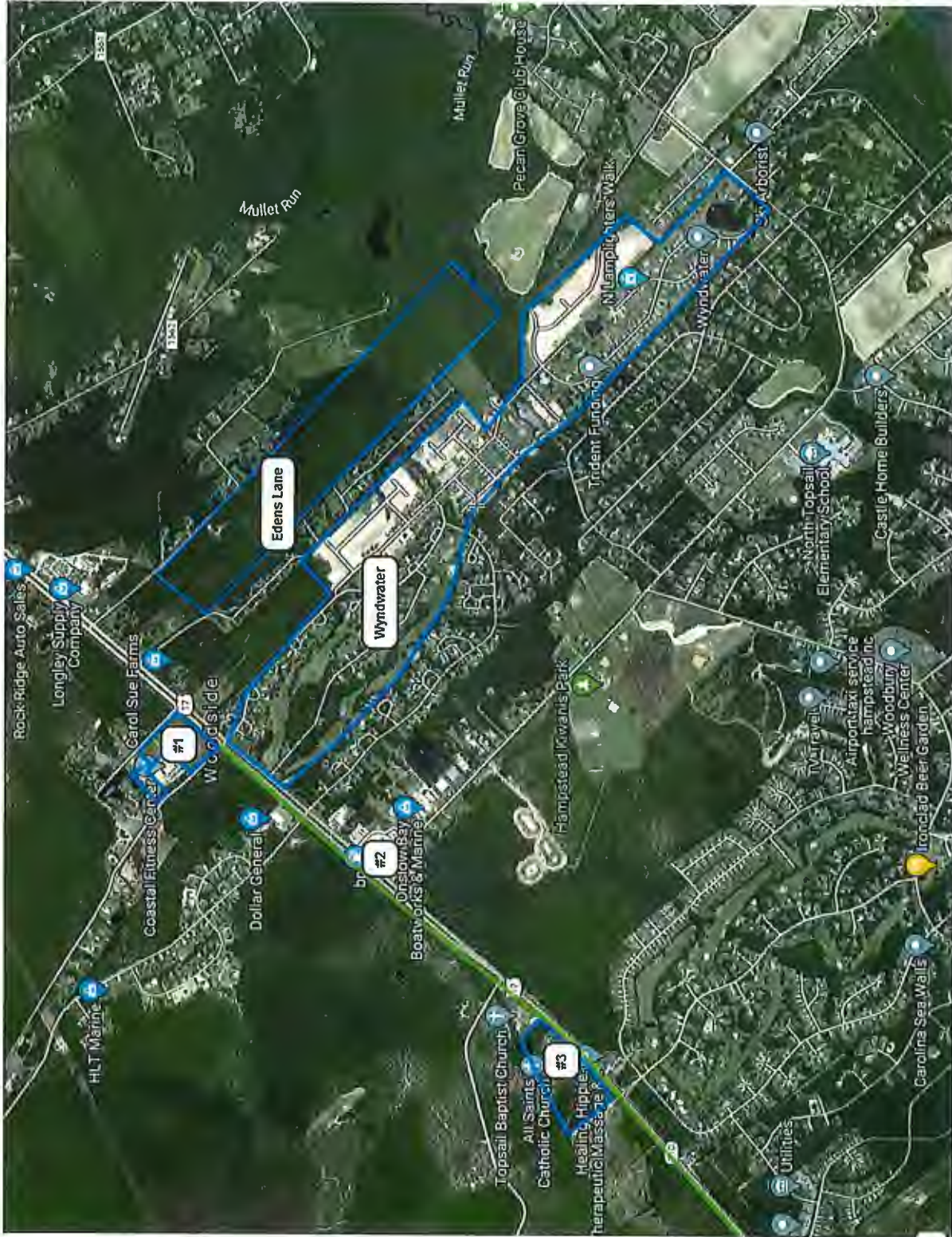
I, Frankie Hattie Regional Manager attest that this application for
 (Signature Authority's name & title from Application Item I.3.)

has been reviewed by me and is accurate and complete to the best of my knowledge. I understand that if all required parts of this application are not completed and that if all required supporting documentation and attachments are not included, this application package is subject to being returned as incomplete. I understand that any discharge of wastewater from this non-discharge system to surface waters or the land will result in an immediate enforcement action that may include civil penalties, injunctive relief, and/or criminal prosecution. I will make no claim against the Division of Water Resources should a condition of this permit be violated. I also understand that if all required parts of this application package are not completed and that if all required supporting information and attachments are not included, this application package will be returned to me as incomplete.

NOTE – In accordance with General Statutes 143-215.6A and 143-215.6B, any person who knowingly makes any false statement, representation, or certification in any application package shall be guilty of a Class 2 misdemeanor, which may include a fine not to exceed \$10,000 as well as civil penalties up to \$25,000 per violation.

Signature: [Handwritten Signature]

Date: 1/14/21



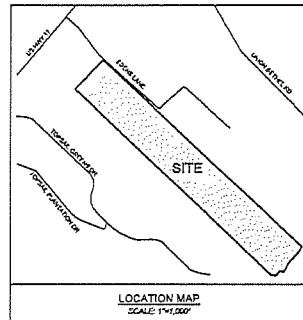
EDENS LANE

PENDER COUNTY, NORTH CAROLINA

UTILITIES SUBMITTAL

DECEMBER 2020

APPLICANT:
LOGAN DEVELOPERS, INC.
 60 GREGORY ROAD, SUITE 1
 BELVILLE, NC 28451




NOTICE REQUIRED
 ALL EXISTING UNDERGROUND UTILITIES SHALL BE PHYSICALLY LOCATED PRIOR TO THE BEGINNING OF ANY CONSTRUCTION IN THE VICINITY OF SAID UTILITIES.
 CONTRACTORS SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED EXCAVATION AT LEAST FIVE WORKING DAYS, BUT NOT MORE THAN TEN WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION OR CONSTRUCTION.

CONTACT "CAROLINA ONE CALL" AT
 1-800-632-4949

CONTACT THESE UTILITIES

PENDER COUNTY PLANNING AND COMMUNITY DEVELOPMENT ATTN: CHAD STRANDBERG P# 910-264-1724	PENDER COUNTY UTILITIES (WATER & SEWER) ATTN: EDITH REES P# 910-264-0172
PIEDMONT NATURAL GAS ATTN: GARY PUGHET P# 910-330-2247	DUKE ENERGY ATTN: KEVIN LEATHERWOOD P# 910-403-0304
EMERGENCY DIAL 011 POLICE - FIRE - RESCUE	BELL SOUTH ATTN: STEVE SHANKS P# 910-341-4711
	TIME WARNER CABLE P# 910-703-4252

EDENS LANE		
PROJECT # 20178, PE	DECEMBER 23, 2020	
SHEET INDEX		
SHEET NUMBER	SHEET TITLE	
C-0.0	COVER SHEET	
C-1.0	GENERAL NOTES	
C-5.0 - C-5.10	PLAN & PROFILES	
C-6.7 - C-6.11	DETAILS	
PROJECT CONSULTANTS		
APPLICANT LOGAN DEVELOPERS, INC. 60 GREGORY ROAD, SUITE 1 BELVILLE, NC 28451	REGISTERED LANDSCAPE ARCHITECT PARAMOUNTE ENGINEERING, INC. 122 CEDAR DRIVE WILMINGTON, NC 28403 CIVIL: TIM CLINECAL, PE (#163714297) LANDSCAPE ARCHITECT: ALISON ENGELSTROM, PLA (#167914787)	SURVEYOR PARAMOUNT ENGINEERING, INC. 122 CEDAR DRIVE WILMINGTON, NC 28403 CIVIL: CADEE PLS (#167914787)
PREPARED BY:		
PARAMOUNTE ENGINEERING, INC. 122 Cedar Drive Wilmington, North Carolina 28403 (910) 791-4787 (F) (910) 791-4740 (R) NC License # C-2046		

FINAL DESIGN - NOT RELEASED FOR CONSTRUCTION

REVISIONS	

LOGAN DEVELOPERS, INC.
60 GREGORY ROAD, SUITE 1
BELLEVILLE, NC 28851

PARAMOUNT ENGINEERS, INC.
112 Carolina Drive
Wilmington, NC 28403
(919) 762-0100 (F) (919) 762-0100 (P)
N.C. License # 02246

PLAN & PROFILE
ROAD C
EDENS LANE
TOPSAIL TOWNSHIP
PENDER COUNTY, NORTH CAROLINA

PROJECT STATUS
DESIGNED BY
DRAWN BY
CHECKED BY
DATE

C-5.3
DRAWING SCALE: 1"=20'
SHEET NO. 5 OF 5

UTILITY NOTES: (N.C.A.G. 15A.021.0301, 17A.5A.15C.0900)

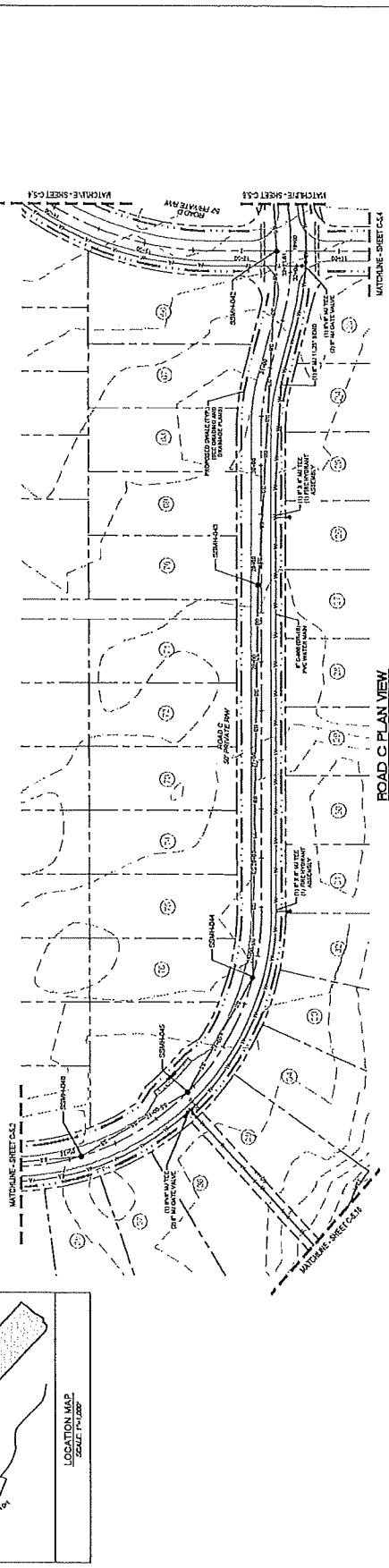
1. WATER MAINS SHALL BE Laid AS TO PROVIDE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FROM SERVICES, IF CONDITIONS DICTATE SUCH THAT SEPARATION IS NOT FEASIBLE, THE WATER MAIN SHALL BE Laid AT LEAST 18 INCHES ABOVE THE TOP OF THE SERVICE, EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON A BED OF UNCOMPACTED SAND.
2. WHERE CROSSING A WATER MAIN OVER A SERVICE, THE WATER MAIN SHALL BE Laid AT LEAST 18 INCHES ABOVE THE SERVICE. IF CONDITIONS DICTATE SUCH THAT THIS SEPARATION CANNOT BE ACHIEVED, BOTH THE WATER MAIN AND SERVICE SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE WITH A MINIMUM WALL THICKNESS OF 12 INCHES. THE DUCTILE IRON PIPE SHALL EXTEND 10 FEET ON EACH SIDE OF THE CROSSING WITH A SECTION OF WATER MAIN PIPE CENTERED ON THE CROSSING.
3. CROSSING A WATER MAIN UNDER A SERVICE, WHEREVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SERVICE, WITH THE WATER MAIN AND THE SERVICE SHALL BE CONSTRUCTED OF FERRUGINOUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.
4. WHERE VERTICAL CLEARANCE IS LESS THAN 10 FEET BETWEEN CHIMNEY, POWER AND STORM DRAIN, WATER MAIN SHALL BE DUCTILE IRON PIPE FOR THE ENTIRE LENGTH OF CROSSING.
5. WHERE VERTICAL CLEARANCE IS LESS THAN 10 FEET BETWEEN WATER MAIN AND STORM DRAIN, WATER MAIN SHALL BE DUCTILE IRON PIPE FOR A MINIMUM OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.
6. A MINIMUM VERTICAL CLEARANCE OF 12" SHALL BE MAINTAINED BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF OTHER UTILITIES.

WATER MAIN NOTES:

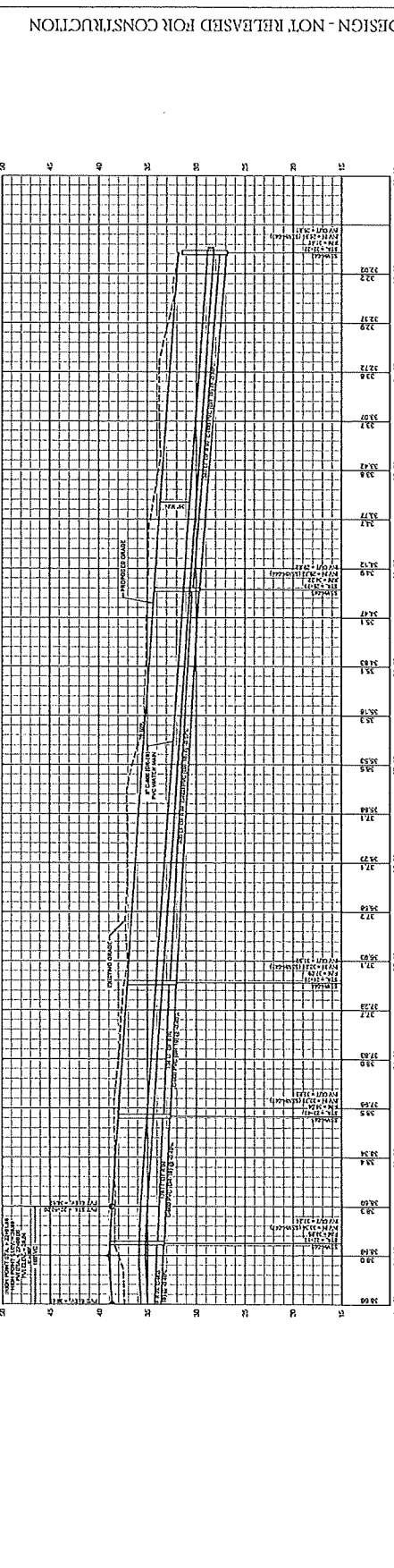
1. ALL WATER MAINS SHALL BE INSTALLED A MINIMUM OF 18 INCHES FROM THE EDGE OF PAVEMENT.
2. ALL WATER MAINS SHALL BE INSTALLED WITH THE SAME SLOPE AS THE ADJACENT SIDEWALK OR DRIVEWAY.
3. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM COVER DEPTH OF 18 INCHES.
4. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM COVER DEPTH OF 18 INCHES.
5. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM COVER DEPTH OF 18 INCHES.
6. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM COVER DEPTH OF 18 INCHES.

FORCE MAIN NOTES:

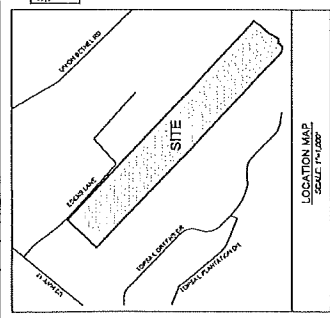
1. ALL FORCE MAINS SHALL BE INSTALLED WITH A MINIMUM COVER DEPTH OF 18 INCHES.
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6. ALL FORCE MAINS SHALL BE INSTALLED WITH A MINIMUM COVER DEPTH OF 18 INCHES.



ROAD C PLAN VIEW
STA. 21+50 TO STA. 32+22
HORIZONTAL SCALE: 1"=50'



ROAD C PROFILE VIEW
STA. 21+50 TO STA. 32+22
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



FINAL DESIGN - NOT RELEASED FOR CONSTRUCTION

DATE	DESCRIPTION

LOGAN DEVELOPERS, INC.
60 GREGORY ROAD, SUITE 1
RHEMELLE, NC 28451

PARAMOUNT
123 Canton Drive
Wendell, North Carolina 28690
(704) 914-6700 (F)
(704) 914-6700 (C)

ROAD F PLAN & PROFILE
TOPSAIL TOWNSHIP
PENDER COUNTY, NORTH CAROLINA
DENS LANE

PROJECT STATUS
DRAWING REVISIONS
DATE
BY
CHECKED
DATE
BY
APPROVED
DATE
BY

C-5.6
PL 0806 - 2/14/16

FINAL DESIGN - NOT RELEASED FOR CONSTRUCTION

GRAVITY SEWER NOTES:

- ALL GRAVITY SEWER LINES SHALL BE 15 FEET FROM SEWERS. IF CONDITIONS EXIST SUCH THAT SEWER LINES SHALL BE LOCATED AS TO PROVIDE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FROM SEWERS. IF CONDITIONS EXIST SUCH THAT SEWER LINES SHALL BE LOCATED AS TO PROVIDE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FROM SEWERS. IF CONDITIONS EXIST SUCH THAT SEWER LINES SHALL BE LOCATED AS TO PROVIDE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FROM SEWERS.
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WATER MAIN NOTES:

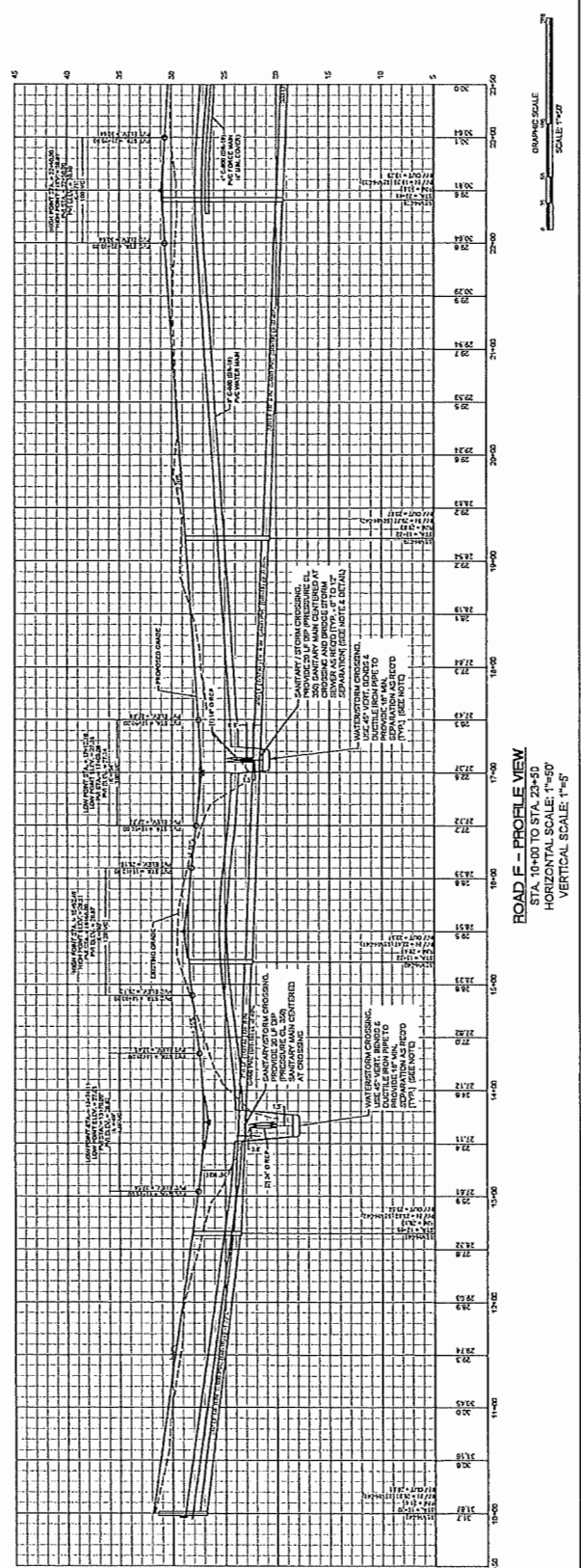
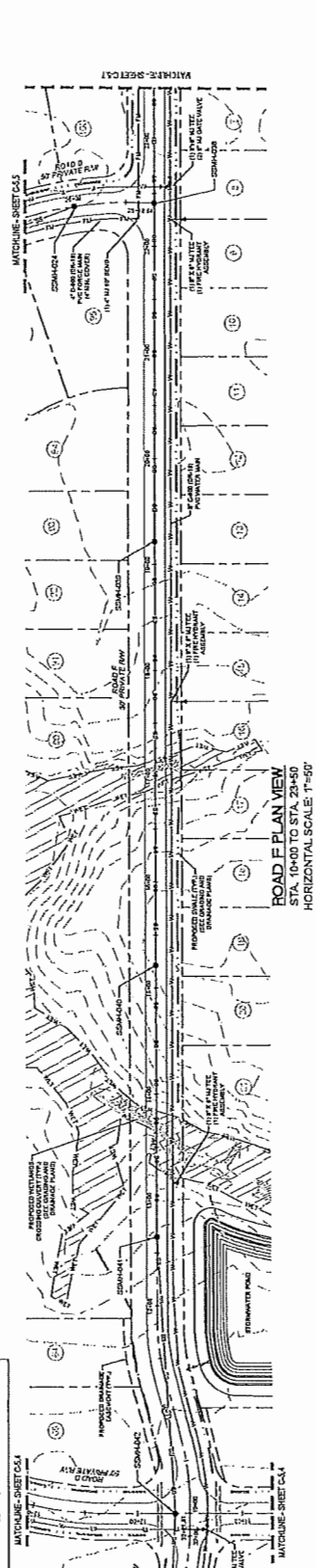
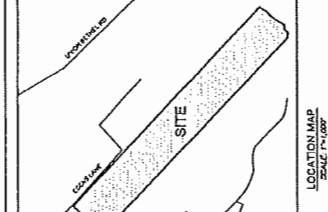
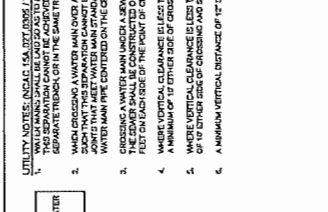
- ALL WATER MAINS SHALL BE 15 FEET FROM SEWERS. IF CONDITIONS EXIST SUCH THAT WATER MAINS SHALL BE LOCATED AS TO PROVIDE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FROM SEWERS. IF CONDITIONS EXIST SUCH THAT WATER MAINS SHALL BE LOCATED AS TO PROVIDE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FROM SEWERS.
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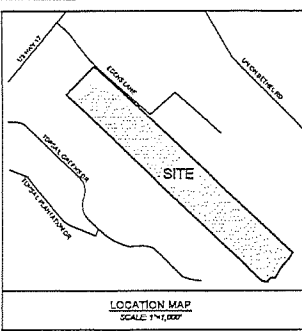
UTILITY NOTES:

- ALL UTILITIES SHALL BE 15 FEET FROM SEWERS. IF CONDITIONS EXIST SUCH THAT UTILITIES SHALL BE LOCATED AS TO PROVIDE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FROM SEWERS. IF CONDITIONS EXIST SUCH THAT UTILITIES SHALL BE LOCATED AS TO PROVIDE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FROM SEWERS.
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REFERENCE NOTE:

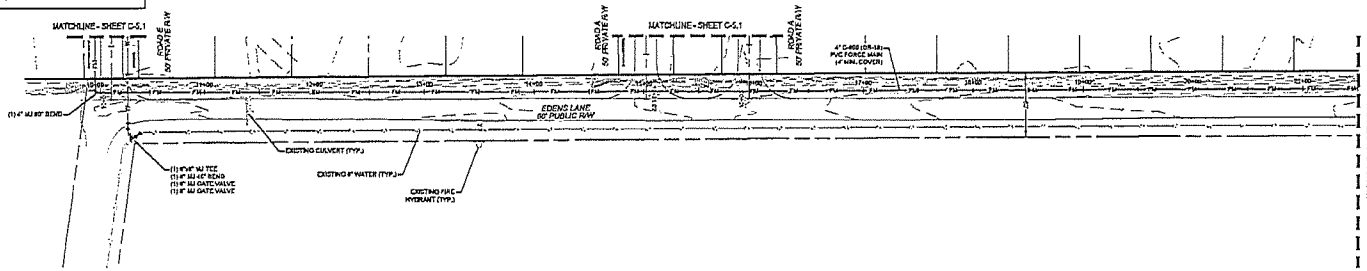
- CONTRACTOR SHALL INSTALL ONE (1) 18" W/18" WATER SERVICE PIPE TO LOT AND ONE (1) 18" W/18" WATER SERVICE PIPE TO LOT.



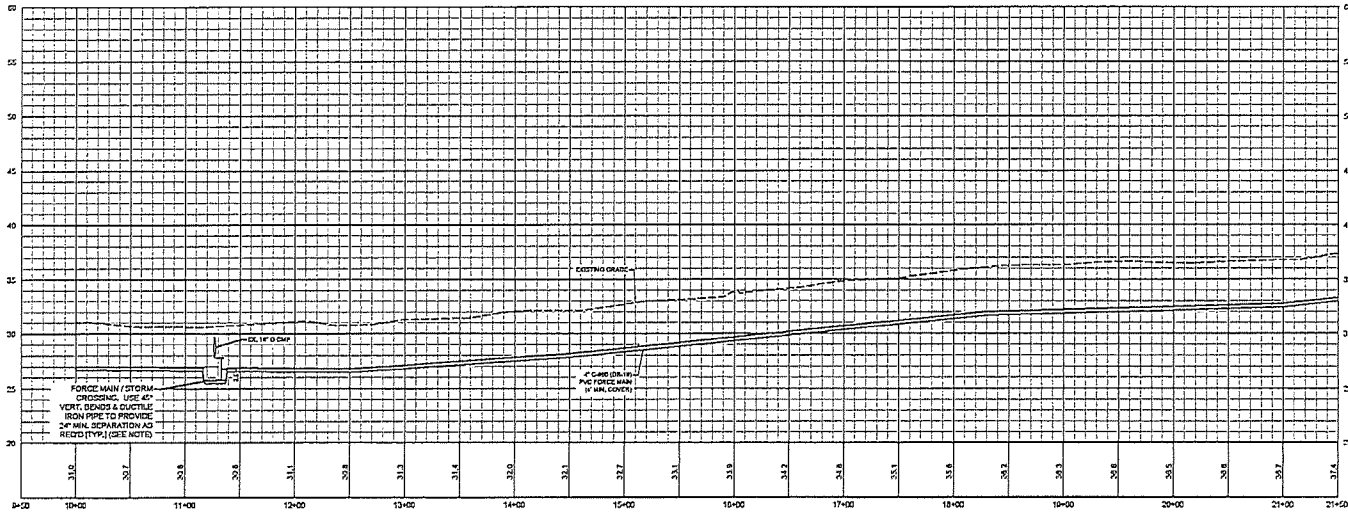


- UTILITY NOTES: (N.C.A.C. 15A.02T.0305 / 15A.18C.0000)
1. WATER MAINS SHALL BE LAID SO AS TO PROVIDE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FROM SEWERS. IF CONDITIONS EXIST SUCH THAT THIS SEPARATION CANNOT BE ACHIEVED, THE WATER MAIN CAN BE INSTALLED AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON A BENCH OF UNDISTURBED EARTH.
 2. WHEN CROSSING A WATER MAIN OVER A SEWER, THE WATER MAIN SHALL BE LAID AT LEAST 18 INCHES ABOVE THE COVER. IF CONDITIONS EXIST SUCH THAT THIS SEPARATION CANNOT BE ACHIEVED, BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE WITH JOINTS THAT MEET WATER MAIN STANDARDS. THE DUCTILE IRON PIPE SHALL EXTEND 10 FEET ON EACH SIDE OF THE CROSSING WITH A SECTION OF WATER MAIN PIPE CENTERED ON THE CROSSING.
 3. CROSSING A WATER MAIN UNDER A SEWER, WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING, A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.
 4. WHERE VERTICAL CLEARANCE IS LESS THAN 24" BETWEEN SANITARY SEWER AND STORM DRAIN, SANITARY SEWER SHALL BE DUCTILE IRON PIPE FOR A MINIMUM OF 12 FEET EITHER SIDE OF CROSSING AND STORM DRAIN SHALL BE RC PIPE.
 5. WHERE VERTICAL CLEARANCE IS LESS THAN 18" BETWEEN WATER MAIN AND STORM DRAIN, WATER MAIN SHALL BE DUCTILE IRON PIPE FOR A MINIMUM OF 12 FEET EITHER SIDE OF CROSSING AND STORM DRAIN SHALL BE RC PIPE.
 6. A MINIMUM VERTICAL DISTANCE OF 12" SHALL BE MAINTAINED BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF OTHER UTILITIES.

- FORCE MAIN NOTES:
1. ALL FORCE MAIN SHALL BE INSTALLED A MINIMUM OF 6" FROM EDGE OF PAVEMENT.
 2. REPLACES OR OTHER FORCE MAIN APPROXIMATIONS SHALL BE INSTALLED IN EXISTING ROADSIDE DITCHES.



4-IN FORCE MAIN PLAN VIEW
STA. 10+00 TO STA. 21+50
HORIZONTAL SCALE: 1"=50'



4-IN FORCE MAIN - PROFILE VIEW
STA. 10+00 TO STA. 21+50
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



FINAL DESIGN - NOT RELEASED FOR CONSTRUCTION

REVISIONS	LOGAN DEVELOPERS, INC. 60 GREGORY ROAD, SUITE 1 BELVILLE, NC 28645
PARAMOUNT ENGINEERS, P.C. 122 Grand Drive Wilmington, North Carolina 28403 (919) 791-0000 NCL 00000000-0000	
PROJECT STATUS DESIGNED PERMITTED CONTRACTED CONSTRUCTION	PLAN & PROFILE OFFSITE 4-INCH FORCE MAIN EDENS LANE TOPSAIL TOWNSHIP PENDER COUNTY, NORTH CAROLINA
DATE: 03/16/21 SCALE: 1"=20'	C-5.12

LOGAN DEVELOPERS, INC.
60 GREGORY ROAD, SUITE 1
RTP, NC 27411

PARAMOUNT ENGINEERS, INC.
122 Carolina Drive
Waxhams, North Carolina 27403
(919) 791-6700 (F) (919) 791-6700 (P)
NC License #1-2345

PLAN & PROFILE
OPPOSITE 10-INCH FORCE MAIN
EDPENS LANE
TOPSALE TOWNSHIP
PENDER COUNTY, NORTH CAROLINA

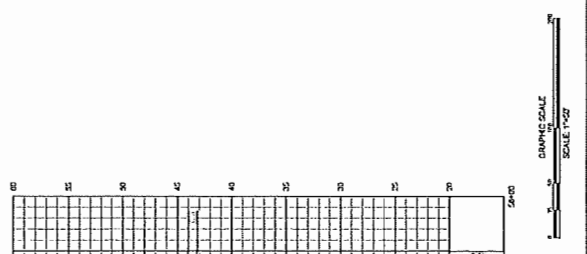
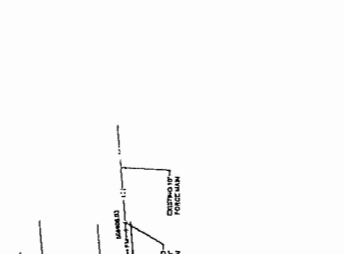
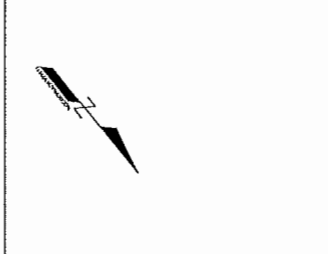
PROJECT STATUS
DESIGN
DATE
DRAWN BY
CHECKED BY
APPROVED BY

C-5-15
SCALE 1"=50'

UTILITY NOTES: (N.C.A.C. 15A.0203, 15A.11C.0605)

1. WATER MAINS SHALL BE LAD TO PROVIDE A MINIMUM HORIZONTAL SEPARATION OF 18 FEET FROM SEWER. IF CONDITIONS EXIST SUCH THAT THIS SEPARATION CANNOT BE ACHIEVED, THE WATER MAIN SHALL BE LAD AT LEAST 18 INCHES ABOVE THE SEWER. IF CONTIGUOUS DEEP SEWER TRUNKS OR IN THE SAME TRENCH ON A SEWER OF UNDISTURBED EARTH.
2. WHEN CROSSING A WATER MAIN OVER A SEWER, THE WATER MAIN SHALL BE LAD AT LEAST 18 INCHES ABOVE THE SEWER. IF CONTIGUOUS DEEP SEWER TRUNKS OR IN THE SAME TRENCH ON A SEWER OF UNDISTURBED EARTH.
3. CROSSING A WATER MAIN UNDER A SEWER, WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF PORTLE IRON PIPE WITH A MINIMUM WALL THICKNESS OF 12 INCHES. THE WATER MAIN SHALL BE CONSTRUCTED OF PORTLE IRON PIPE WITH A MINIMUM WALL THICKNESS OF 12 INCHES. THE SEWER SHALL BE CONSTRUCTED OF PORTLE IRON PIPE WITH A MINIMUM WALL THICKNESS OF 12 INCHES. THE WATER MAIN SHALL BE CONSTRUCTED OF PORTLE IRON PIPE WITH A MINIMUM WALL THICKNESS OF 12 INCHES. THE SEWER SHALL BE CONSTRUCTED OF PORTLE IRON PIPE WITH A MINIMUM WALL THICKNESS OF 12 INCHES.
4. WHERE VERTICAL CLEARANCE IS REQUIRED BETWEEN WATER MAIN AND SEWER, THE WATER MAIN SHALL BE CONSTRUCTED OF PORTLE IRON PIPE WITH A MINIMUM WALL THICKNESS OF 12 INCHES. THE SEWER SHALL BE CONSTRUCTED OF PORTLE IRON PIPE WITH A MINIMUM WALL THICKNESS OF 12 INCHES. THE WATER MAIN SHALL BE CONSTRUCTED OF PORTLE IRON PIPE WITH A MINIMUM WALL THICKNESS OF 12 INCHES. THE SEWER SHALL BE CONSTRUCTED OF PORTLE IRON PIPE WITH A MINIMUM WALL THICKNESS OF 12 INCHES.
5. A MINIMUM VERTICAL DISTANCE OF 12" SHALL BE MAINTAINED BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF OTHER UTILITIES.

FORCE MAIN NOTES:
1. THE FORCE MAIN SHALL BE CONSTRUCTED OF PORTLE IRON PIPE WITH A MINIMUM WALL THICKNESS OF 12 INCHES.



FINAL DESIGN - NOT RELEASED FOR CONSTRUCTION

NO.	REVISIONS

LOGAN DEVELOPERS, INC.
60 GREGORY ROAD, SUITE 1
BEAUFORT, NC 28511

PARAMOUNT ENGINEERS, INC.
122 Cannon Drive
Wilmington, North Carolina 28403
(919) 791-2100 (F) (919) 791-6700
INCLINING # C-2846

PLAN & PROFILE
OFFSITE 8-INCH WATER
SPRINKLER LANE
TOPSAIL TOWNSHIP
PENDER COUNTY, NORTH CAROLINA

PROJECT STATUS
DESIGNED BY
CHECKED BY
DATE
SCALE



C-5.16
NO. JOB# INTX-19C

QUALITY CONTROL NOTES:

- ALL MATERIALS SHALL BE TESTED TO THE FOLLOWING REQUIREMENTS:
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WATER MAIN NOTES:

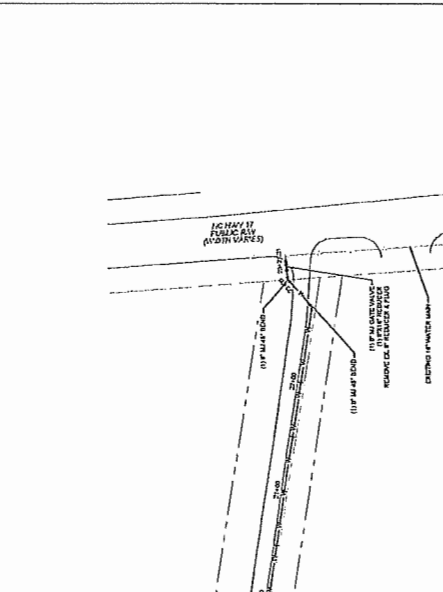
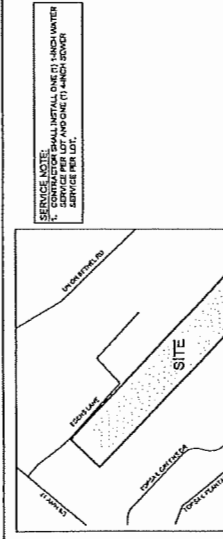
- ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 4 FEET COVER AT ALL POINTS.
- ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 4 FEET COVER AT ALL POINTS.
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UTILITY NOTES:

- ALL UTILITIES SHALL BE MAINTAINED AT ALL TIMES.
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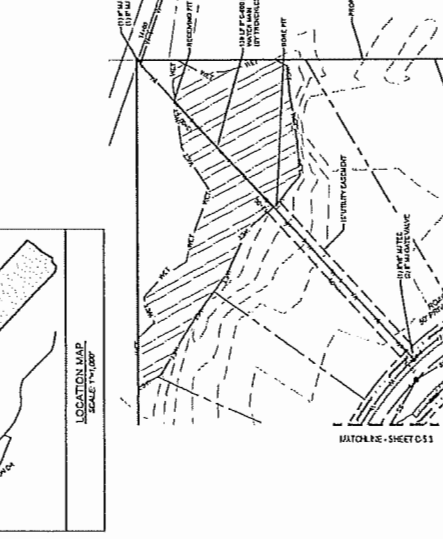
CONSTRUCTION NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
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ROAD C - PLAN VIEW
STA. 10+00 TO STA. 23+18
HORIZONTAL SCALE: 1"=50'

Labels include: 12" DIAMETER WATER MAIN, 8" DIAMETER WATER MAIN, 4" DIAMETER WATER MAIN, 12" DIAMETER SANITARY SEWER, 8" DIAMETER SANITARY SEWER, 4" DIAMETER SANITARY SEWER, 12" DIAMETER STORM DRAIN, 8" DIAMETER STORM DRAIN, 4" DIAMETER STORM DRAIN, 12" DIAMETER FIBER OPTIC, 8" DIAMETER FIBER OPTIC, 4" DIAMETER FIBER OPTIC.



B-INCH - PROFILE VIEW
STA. 10+00 TO STA. 23+18
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

Labels include: 8" DIAMETER WATER MAIN, 4" DIAMETER WATER MAIN, 12" DIAMETER SANITARY SEWER, 8" DIAMETER SANITARY SEWER, 4" DIAMETER SANITARY SEWER, 12" DIAMETER STORM DRAIN, 8" DIAMETER STORM DRAIN, 4" DIAMETER STORM DRAIN, 12" DIAMETER FIBER OPTIC, 8" DIAMETER FIBER OPTIC, 4" DIAMETER FIBER OPTIC.

FINAL DESIGN - NOT RELEASED FOR CONSTRUCTION

UTILITY NOTES:

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