Town of Beaufort, NC
701 Front St. - P.O. Box 390 - Beaufort, N.C. 28516
252-728-2141 - 252-728-3982 fax - www.beaufortnc.org

Town of Beaufort Board of Commissioners Work Session Meeting
4:00 PM Monday, January 24, 2022 - Via Zoom Due to COVID-19 Pandemic
Monthly Meeting

Call To Order

Roll Call

Agenda Approval

Public Comment

Items for Discussion and Consideration

1. Appointment to the Eastern Carolina Council of Governments
2. Authorize Human Resource Director Full-Time Position
3. Appointment of Legal Representation
4. Case #22-01 Special Use Permit for an Accessory Dwelling Unit at 308 Ann Street
5. Topsail Park Public Art Donation
6. Returning to In-Person Meetings
7. Meeting Minutes- December 6th, 13th & 20th
8. Mardi Gras Event Request
9. Wooden Boat Show
10. Historic Beaufort Road Race
11. Golf Cart Ordinance Update
12. Volunteer Board, Commission & Committee Appointments
13. Wastewater Asset Management Plan
14. Delinquent Utility Accounts
15. Financial Notes

Mayor/Commissioner Comments

Adjourn

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Board of Commissioners
Virtual Work Session
4:00 PM – Monday, Jan. 24, 2022

AGENDA CATEGORY: Items for Discussion and Consideration

SUBJECT: Appointment to the Eastern Carolina Council of Governments

BRIEF SUMMARY:

The Eastern Carolina Council of Governments (ECCOG) is a voluntary non-profit association of local governments formed under NC General Statute 160A 470-478. The purpose of the organization is to provide long-range planning and technical assistance to local governments.

The ECCOG is one of sixteen multi-county planning and development regions in the State and is governed by a General Membership Board that includes one elected official from each member county and municipality served by the organization. The full board meets twice a year to set policy for ECC, guide programming and discuss regional challenges. The ECC Executive Committee, the delegate from each of the nice counties and one municipal representative from each county, conducts business for the organization in months that the General Membership Board does not meet.

The Town of Beaufort is represented on the ECCOG Board by Commissioner Hollinshed. Commissioner Hollinshed has expressed her desire for the Town Board to appoint someone to replace her on the ECCOG Board.

REQUESTED ACTION:

The Board of Commissioners are asked to consider a new appointment to the ECCOG Board.

EXPECTED LENGTH OF PRESENTATION:

5 Minutes

SUBMITTED BY:

Todd Clark, Town Manager

BUDGET AMENDMENT REQUIRED: N/A

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Board of Commissioners
Virtual Work Session
4:00 PM – Monday, Jan. 24, 2022

AGENDA CATEGORY:	Items for Discussion and Consideration
SUBJECT:	Authorize the Town Manager to convert the part-time Human Resource Director to a full-time position

SUMMARY:

The Board of Commissioners considered the creation of a new Human Resources Director position during the FY 2022 budget process. After due consideration, the Town Manager was authorized to hire a part-time HR Director with the understanding that the position may be converted to full-time if the position could not be filled within a relatively short period of time. The Town Manager was successful in employing a highly qualified individual on a part-time basis.

The employment of the HR Director has been very beneficial. Specifically, the HR Director is professionally trained to manage employment matters as they pertain to various state and federal laws, the enrollment and coordination of employee benefits, safety and training of employees, and other associated responsibilities. Additionally, the HR Director has enabled the key management staff to focus more on their own core work duties and also reduced the dependency on our legal staff to answer HR questions.

REQUESTED ACTION:

The recommended action for the Board to entertain a motion to convert the part-time Human Resource Director to a full-time position.

EXPECTED LENGTH OF PRESENTATION:
5 Minutes

SUBMITTED BY:
Todd Clark, Town Manager

BUDGET AMENDMENT REQUIRED:
The funds for this position are included in the FY 2022 Budget

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Board of Commissioners
Virtual Work Session
4:00 PM – Monday, Jan. 24, 2022

AGENDA CATEGORY: Items for Discussion and Consideration

SUBJECT: Appointment of Legal Representation in Accordance with Section 31.02 (A) of the Town Code of Ordinances

REQUESTED ACTION:

In accordance with Section 31.02 (A) of the Town's Code of Ordinances, the Board of Commissioners shall appoint an Attorney to represent the Town after each election. The staff makes the following two recommendations:

1. That the Board appoint the firm of Grady and Quattlebaum to serve as the attorney for the Town of Beaufort in accordance with North Carolina General Statute § 160A-173, and
2. The staff recommends that the Board of Commissioners amend the Code of Ordinances to mirror North Carolina General Statute § 160A-173.

North Carolina General Statute

§ 160A-173. City attorney; appointment and duties.

The council shall appoint a city attorney to serve at its pleasure and to be its legal adviser. (1971, c. 698, s. 1.)

Town of Beaufort Code of Ordinances

Sec 31.02 (A) Town Attorney.

~~*(A) Appointment*. Immediately after the election, qualification and organization of the Board of Commissioners it shall proceed to appoint a town attorney.~~

(A) Appointment. The Council shall appoint a city attorney to serve at its pleasure and be its legal adviser.

EXPECTED LENGTH OF PRESENTATION:

10 Minutes

SUBMITTED BY:

Todd Clark, Town Manager

BUDGET AMENDMENT REQUIRED:

N/A

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Board of Commissioners
Virtual Work Session
4:00 PM – Monday, Jan. 24, 2022

AGENDA CATEGORY:	Items for Discussion and Consideration
SUBJECT:	Case #22-01 Special Use Permit for an Accessory Dwelling Unit at 308 Ann Street

BRIEF SUMMARY:

The applicant wishes to apply for a Special Use Permit for an Accessory Dwelling Unit for 308 Ann Street in a rear structure on the property to also house a garage.

At their January 18, 2022 meeting the Planning Board unanimously recommended approval of the Special Use Permit.

REQUESTED ACTION:

Conduct Evidentiary Hearing at the February 14, 2022 Regular Meeting.

Provide Findings & Render a Decision with or without conditions based on those Findings.

EXPECTED LENGTH OF PRESENTATION:

15 Minutes

SUBMITTED BY:

Kyle Garner, AICP

Planning & Inspections Director

BUDGET AMENDMENT REQUIRED:

N/A

BOARD OF COMMISSIONERS REPORT

To: Honorable Mayor & Board of Commissioners

From: Kyle Garner, AICP, Planning Director

Date: January 19, 2022

Case No.: 22-01

THE REQUEST: Special Use Permit for Accessory Dwelling Unit

BACKGROUND:

Location:	308 Ann Street
Owner:	Scott Davidson
Applicant:	Sarah Afflerbach – Go Architecture
Requested Action:	Conduct Evidentiary Hearing and Provide Findings & Decision
CAMA Land Use:	Public & Institutional
PIN:	730617103546000
Size:	.184 Acres
Existing Land Use:	Vacant Lot – Former First Baptist Parsonage
Adjoining Land Use & Zoning:	North - Single-Family Residences; Zoned R-8 South – First Baptist Parking Lot – Zoned TR (Transitional) West – Single Family Residences - Zoned R-8 East – Single-Family Residences; Zoned TR
SPECIAL INFORMATION:	This property has been granted a Certificate of Appropriateness from the Historic Commission to construct a single-family dwelling with detached garage. Prior to the new dwelling the site was the Former First Baptist parsonage. At their January 18, 2022 meeting, after some discussion, the Planning Board recommended approval of the Special Use Permit for an accessory dwelling unit.
Public Utilities:	Water Existing Service Sanitary Sewer Existing Service

ACTION:

1. Conduct Evidentiary Hearing
2. Provide Findings & Render a Decision with or without conditions based on those Findings

Exhibit - A

STAFF COMMENTS:

- This application is for a Special Use Permit for an Accessory Dwelling Unit per the TR Zoning District.
- The property owner has been through the Historic Commission to obtain a Certificate of Appropriateness.
- Accessory Dwelling Units are not uncommon in the historic district as there are at 3 within one block of this property.
- The request is consistent with the current Land Use Plan – (***See Application***)

SECTION 20 Special Use Permit (*Town of Beaufort Land Development Ordinance*)

E) Required Findings

1) In addition to any other findings or requirements as specified by any other section of this Ordinance, before any application for a special use may be granted or denied, the BOC shall make each of the following findings:

a) The proposed use is an allowable special use in the zoning district it is being located within;

b) The application is complete;

c) The location and character of the use will be in conformity with the Town's land use plan and other comprehensive planning elements;

d) Streets, driveways, parking lots, traffic control, and any other traffic circulation features shall be designed and provided in accordance with current traffic engineering standards and Town regulations and found to be adequate for the proposed special use;

e) The proposed special use will not substantially injure the value of adjoining or abutting properties;

f) The proposed special use will be compatible and in harmony with adjoining land uses and the development patterns of the immediate area; and,

g) The proposed use will not materially endanger the public health or safety of the community if located where proposed and developed according to the submitted and approved plan.

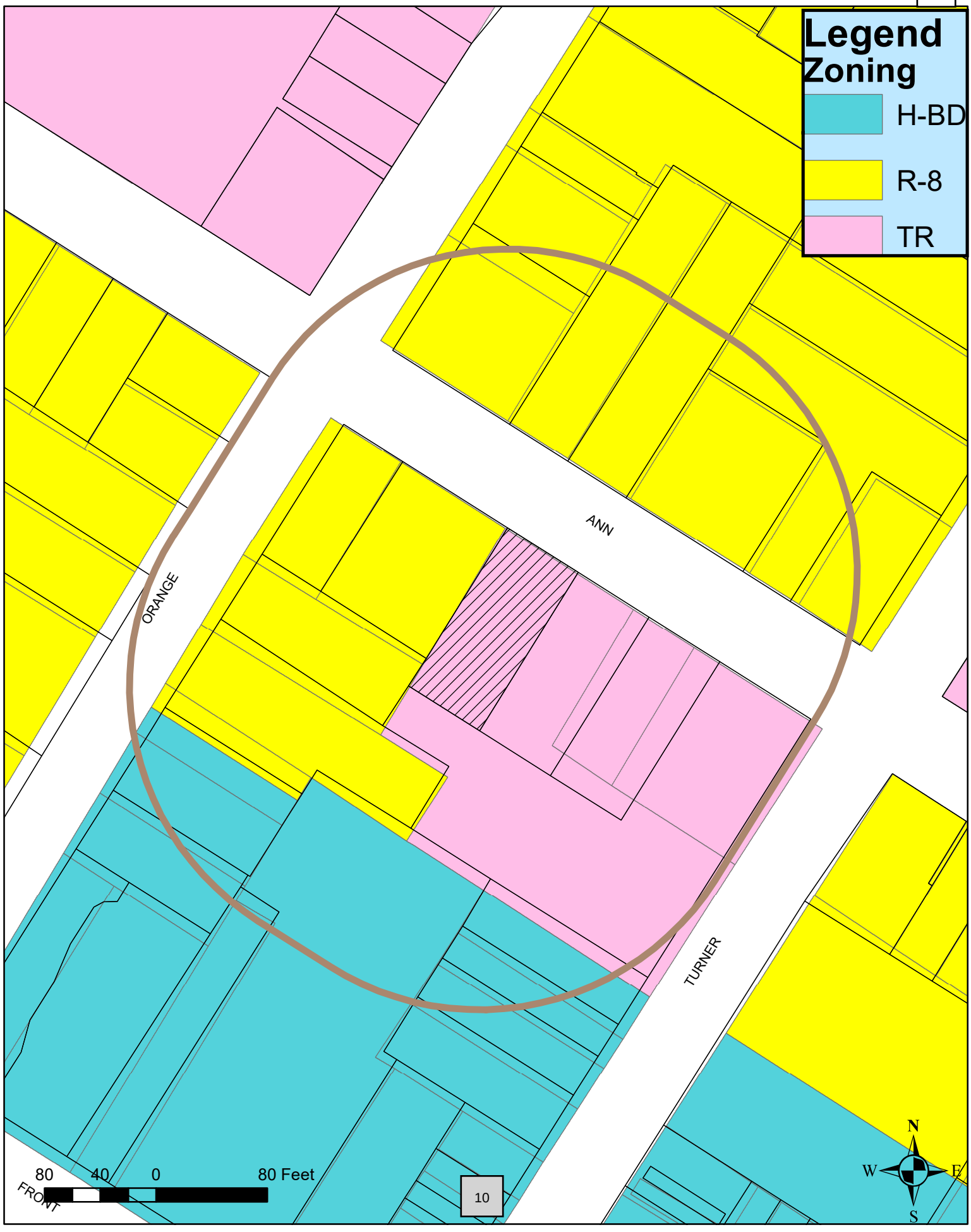
Exhibits:

B- Vicinity Map
C - Zoning Map
D - CAMA Land Use Map
E – List of Property Owners within 200 feet
F - Application to include Site Plan
G - Section 20 Special Use Permit Information

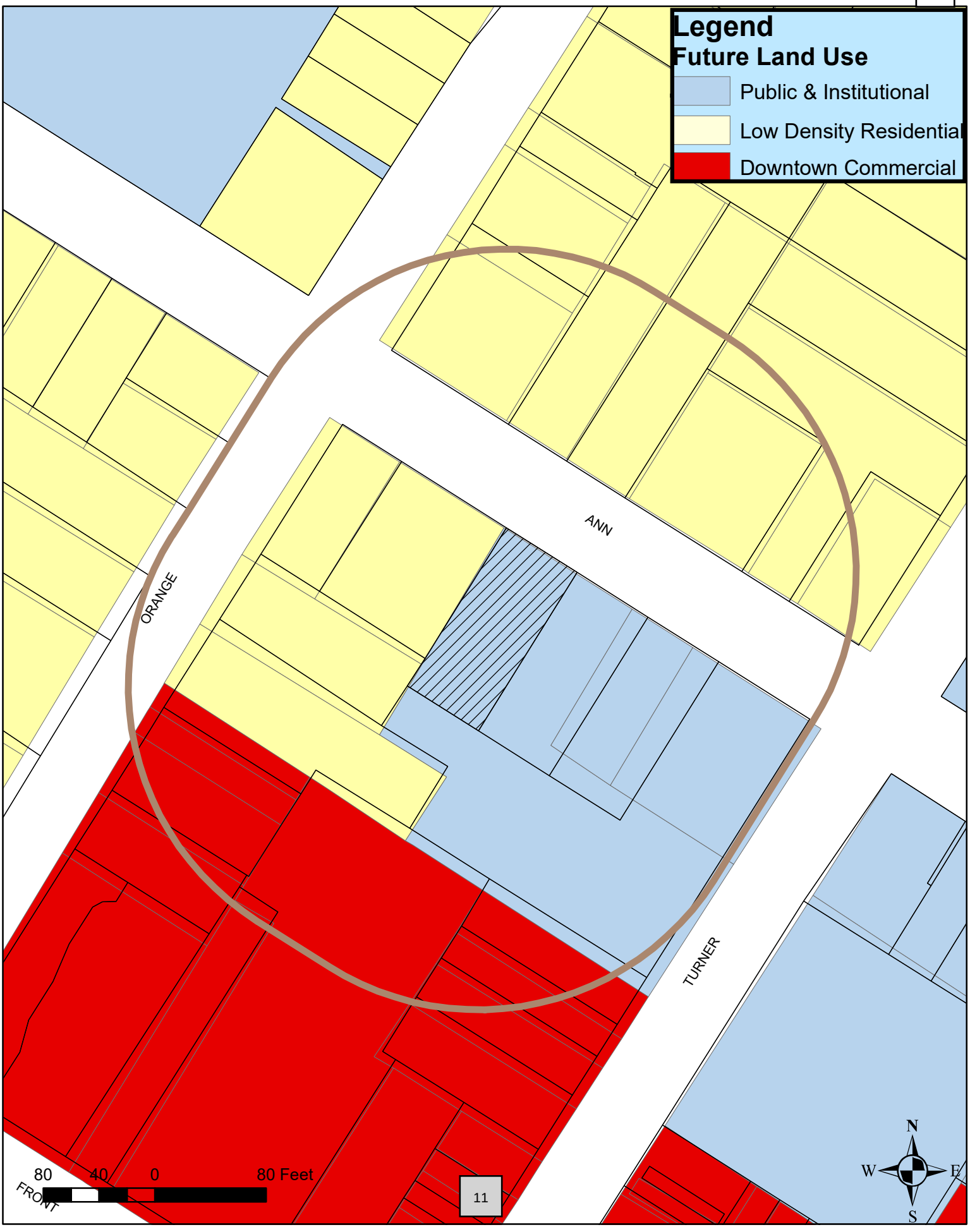
Case # 22-01 - Special Use Permit - Owners Within 200 Feet - 308 Ann St



Case # 22-01 - Special Use Permit - Zoning Map - 308 Ann Street



Case # 22-01 - Special Use Permit - CAMA Map - 308 Ann Street



OWNER	AIL_HOU	MAIL_ST	MAIL_CITY	L_S	AIL_Z	AIL_ZI	MAIL_ADD2
AB CAUSEWAY LLC	5206	HOLLY COURT	MOREHEAD CITY	NC		28557	
ADAIR,GEOFFREY GLENN	1344	PINE VALLEY DRIVE	NEW BERN	NC		28562	
BEAUFORT HISTORICAL ASSOCIATIO	150	TURNER STREET	BEAUFORT	NC		28516	
BEAUFORT INVESTMENTS LLP	608	ANN STREET	BEAUFORT	NC		28516	
COLLINS,RICHARD A JR	2533	LAUREL CHERRY STREET	RALEIGH	NC		27612	
DAVIDSON,ARIAIL SCOTT			ASPEN	CO		81612	PO BOX 5141
FIRST BAPTIST CHURCH BEAUFORT	403	ANN STREET	BEAUFORT	NC		28516	
GOELLNER,ALBERT J ETUX RUTH	118	ORANGE ST	BEAUFORT	NC		28516	
GROTHEER,SANDRA F	125	WHIMBREL WAY	BEAUFORT	NC		28516	
HARRIS,STEPHEN W JR ETUX MARGE	2816	CHELSEA CIRCLE	DURHAM	NC		27707	
HUCKABEE,IAN DOUGLAS ETUX TRAC	313	ANN STREET	BEAUFORT	NC	2105	28516	
MOSIER,DAVID W JR ETAL	305	ANN STREET	BEAUFORT	NC		28516	
MOSIER,WILLIAM H ETUX LAURA R	305	ANN STREET	BEAUFORT	NC		28516	
MOUNTCASTLE,RICHARD ETUX AMAND	12121	CASTLE RIDGE ROAD	RALEIGH	NC		27614	
NEWTON,FRANCES S TRUSTEE	301	ANN STREET	BEAUFORT	NC		28516	
NIXON-MOORE,MARY ELLEN	307	FRONT STREET	BEAUFORT	NC		28516	
OLD CAUSEWAY THOROUGHFARE LLC	4737F	ARENDELL STREET	MOREHEAD CITY	NC		28557	
SIMPSON,ANN KINDELL	3100	MORROW FARM LANE	CHAPEL HILL	NC		27516	
STATE OF NORTH CAROLINA	1321	MAIL SERVICE CENTER	RALEIGH	NC	1321	27699	
STEPHENSON,CATHERINE POTTER	116	ORANGE ST	BEAUFORT	NC		28516	
TAYLOR,NELSON W III ETUX PATRI	311	ANN ST	BEAUFORT	NC		28516	
THE '04 THOMAS O HOLLINSHED TR	100	S RIDGE STREET	SOUTHERN PINES	NC		28387	
WILLIS,BEN M	2737	SPIEGEL DR	VIRGINIA BEACH	VA		23454	

APPLICATION FOR A SPECIAL USE PERMIT

Instructions:

Please complete the form below including all required attachments, a **$400.00 application fee,** and return to the Beaufort Town Hall; 701 Front Street; P.O. Box 390; Beaufort, N.C.; 28516. Incomplete applications will not be processed but will be returned to the applicant. Please call Planning and Inspections at (252) 728-2142 if there are any questions.

APPLICANT INFORMATION

Applicant Name: GO Architectural Design, PLLC

Applicant Address: 1202A Pollock Street

Phone Number: (252) 633-0322 Email: sarah@goarchdesign.com

Property Owner Name: Scott Davidson

Address of Property Owner: 308 Ann Street, Beaufort, NC 28516

Phone Number: (970) 948-4800 Email: scott@christiesaspenre.com

PROPERTY INFORMATION

Property Address: 308 Ann Street, Beaufort, NC 28516

15-Digit PIN: 730617103546000 Lot/Block #: TOWN OF BEAUFORT TOWN OF BEAUFORT PB 8 PAG 8

Size of Property (in square feet or acres): 0.184 Current Zoning: TR

Current Use of Property: Previously Single Family Requested Use: Residential Single Family

An application fee of **$400.00**, either in cash, money order, or check made payable to the "*Town of Beaufort*" must accompany this application (a credit card payment can be made in person at Town Hall). The complete application, payment, and supporting materials must be received by Town Staff at least 15 working days prior to a regularly scheduled Planning Board meeting date.

Please refer to the Town's ***Land Development Ordinance***, Sections 20 & 27, and all other pertinent sections of the Ordinance for information required to accompany this application. Any plans or documents submitted should be submitted in an electronic or digital format and one printed color copy of such documents submitted with the application.

The town's website address is www.beaufortnc.org.

Sarah Afflerbach
Applicant Signature

12·8·21
Date of Applicant's Signature

Scott Davidson
Property Owner Signature (if different than above)

12/8/21
Date of Owner's Signature

OFFICE USE ONLY Revised 8/2020

Date: _____ Reviewed for Completeness By: _____

Received by: _____ Date Deemed Complete and Accepted: _____

ARCHITECTURAL DESIGN PLLC

December 08, 2021

Kyle Garner
701 Front St.
Beaufort, NC 28516

RE: 308 Ann Street, Beaufort, NC

Dear Kyle,

Thank you for your help taking this project through the Historic Preservation Commission. We understand that having a habitable accessory dwelling unit in our zoning area requires a Special Use Permit and we would like to apply for this permit.

The owner is looking toward the future in anticipation of needing a caretaker and would like to provide this habitable accessory dwelling unit for such a use. We also understand that there are other properties in the area that have similar structures with similar uses.

Attached are the pertinent Land Development Ordinance sections, site survey with the new structures located, plans and elevations of the structure, and photos of the streetscape. Please let us know if you need anything else to get this project on the schedule for a Special Use Permit.

Thanks again for your help.

Sincerely,

Sarah Afflerbach

Sarah Afflerbach, AIA, LEED AP

Land Development Ordinance

Definitions – page 16
Accessory Dwelling Units/Structures. Accessory Dwelling Units/Structures are commonly understood to be a separate additional living unit or structure, including kitchen, sleeping, and bathroom facilities, attached to or detached from the primary residential unit, on a single-family lot. They shall be subordinate in size, location, and appearance to the primary residential unit and may or may not have separate means of ingress or egress.

H) TR Transitional District. – page 63
Purpose: This intent of this district is to serve as a transition between residential and more intensive districts. This includes residential and commercial uses with a low noise and traffic impact which would generally be considered compatible with a residential area which may or may not have buffering requirements as documented in section 19 of this Ordinance. Uses in this district which require potable water or sanitary sewer must be connected to municipal water and municipal sewer.

B) Transitional District (TR). – page 99, 100
6) Special Uses (Special Uses text may be found in section 20 of this Ordinance).
Accessory Dwelling Unit

E) Required Findings. – page 190
1) In addition to any other findings or requirements as specified by any other section of this Ordinance, before any application for a special use may be granted or denied, the BOC shall make each of the following findings:

a) The proposed use is an allowable special use in the zoning district it is being located within;

308 Ann Street is located in the TR District and this is an allowable use with a Special Use Permit.

b) The application is complete;

We have reviewed our application with the City staff and believe it is complete.

c) The location and character of the use will be in conformity with the Town's land use plan and other comprehensive planning elements;

The Town of Beaufort NC CAMA Core Land Use Plan (map below) shows on page 90 that 308 Ann Street is located in the Public & Institutional Use area. Page 94 of the Core Land Use Plan, Item D. states that for Public and Institutional designated areas may also include R-8 Medium Density Residential zoning districts which per the Town of Beaufort, NC Land Development Ordinance, page 82 allows for Accessory Dwelling Units provided they have a Special Use Permit which is what we are seeking.

d) Streets, driveways, parking lots, traffic control, and any other traffic circulation features shall be designed and provided in accordance with current traffic engineering standards and Town regulations and found to be adequate for the proposed special use;

We are proposing a residential driveway similar to the surrounding houses and properties.

e) The proposed special use will not substantially injure the value of adjoining or abutting properties;

The owner has obtained an appraisal for the designed project by a licensed appraiser and the accessory dwelling unit shows an added value to the overall project.

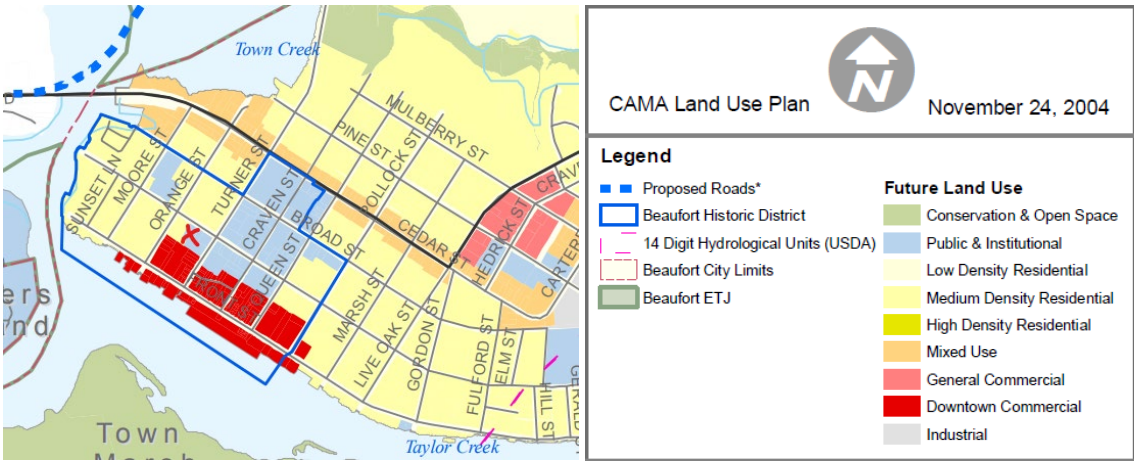
f) The proposed special use will be compatible and in harmony with adjoining land uses and the development patterns of the immediate area; and,

It is our understanding that there are similar accessory dwelling unit structures in the immediate vicinity, and this has not caused any harm to the neighborhood.

g) The proposed use will not materially endanger the public health or safety of the community if located where proposed and developed according to the submitted and approved plan.

The proposed use is allowed per the Town of Beaufort, NC Land Development Ordinance, and the CAMA Core Land Use plan.

CAMA Core Land Use Plan
308 Ann Street – Public & Institutional



Photos of Streetscape, Site and Adjacent Homes:

308 Ann Street, Beaufort, NC 28516



308 Ann Street – Existing Site



Street view West on Ann Street



Street view West on Ann Street



Street view West on Ann Street



Street view East on Ann Street



Street view East on Ann Street



Street view East on Ann Street

DAVIDSON - CUSTOM HOME

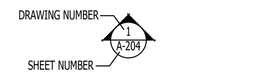


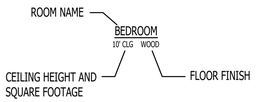
SCALE: 3/16" = 1'-0"

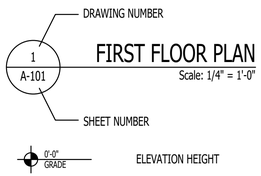
KEYS & SYMBOLS

DOOR & WINDOW SIZE KEY

2060 = 2'-0" WIDE X 6'-0" HIGH







ELECTRICAL ELEGEND

- RECEPTACLE
- FLOOR RECEPTACLE
- GFCI RECEPTACLE
- WATER PROOF RECEPTACLE
- SWITCH
- 3 WAY SWITCH
- FAN / LIGHT
- SECURITY LIGHT
- CEILING MOUNT
- WALL SCONCE
- CEILING PENDANT
- FAN / LIGHT
- 6" RECESSED CAN
- DIRECTIONAL PIN LIGHT
- FLUORESCENT
- UNDER-COUNTER
- CABLE
- GARAGE DOOR OPENER W/ LIGHT

SHEET SCHEDULE

G-101	TITLE SHEET
C-101	SITE PLAN
A-101	FIRST FLOOR PLAN
A-102	SECOND FLOOR PLAN
A-103	ROOF PLAN
A-201	ELEVATIONS
A-202	ELEVATIONS
A-203	ELEVATIONS
A-204	COTTAGE ELEVATIONS
A-205	COLOR CHOICES

SQUARE FOOTAGE

HEATED / COOLED	
FIRST FLOOR PLAN	1,573 SF
SECOND FLOOR PLAN	1,373 SF
TOTAL	**2,949SF**
DEPENDANCY	447 SF
NON HEATED	
GARAGE	305 SF
FRONT PORCH	413 SF
SCREENED PORCH	241 SF
1ST FL REAR DECK	337 SF
2ND FL REAR DECK	337 SF
TOTAL	**1,633 SF**

ARCHITECTURAL DESIGN PLLC

1202-A Pollock Street
New Bern, NC 28560
252-633-0322
www.goarchdesign.com

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DAVIDSON CUSTOM HOUSE

308 ANN STREET, NEW BERN, NC 28516

THIS PLAN HAS BEEN PREPARED TO MEET TOP PROFESSIONAL STANDARDS AND PRACTICES, HOWEVER, BUILDING CODES AND ENVIRONMENTAL CONDITIONS VARY FOR DIFFERENT LOCATIONS. IT IS THE RESPONSIBILITY OF THE PURCHASER OF THIS PLAN TO PERFORM THE FOLLOWING BEFORE BEGINNING CONSTRUCTION. VERIFY ALL DIMENSIONS PRIOR TO PROCEEDING WITH CONSTRUCTION. VERIFY COMPLIANCE WITH ALL LOCAL CODES. PLANS INDICATE LOCATIONS ONLY; ENGINEERING ASPECTS SHOULD INCORPORATE ACTUAL SITE CONDITIONS. HVAC & PLUMBING LAYOUTS ARE NOT INCLUDED. THESE SHOULD BE OBTAINED FROM A LOCAL MECH. CONTRACTOR OR ENGINEER TO ENSURE COMPLIANCE WITH LOCAL CODE AND THAT EQUIPMENT IS SIZED CORRECTLY FOR YOUR PARTICULAR REGION AND CONDITIONS. VERIFY ALL STRUCTURAL ELEMENTS WITH LOCAL ENGINEER.

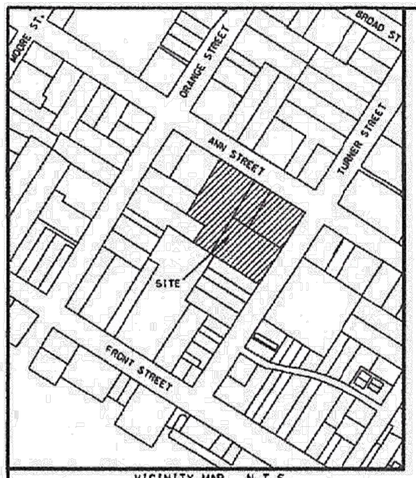
G-101

TITLE SHEET

11.22.2021
DAVIDSON - 308 ANN ST

312 ANN STREET

8,040 SQUARE FEET
VACANT LOT EXCEPT FOR
EXISTING WOOD FENCE
ALONG NE & SE LOT LINES



VICINITY MAP N.T.S.

COVERAGE	
LOT SIZE 60'X134'	8,040 SF
HOUSE FOOTPRINT	2,627 SF
DEPENDENCY FOOTPRINT	752 SF
TOTAL	3,379 SF
LOT COVERAGE	42%



GRAPHIC SCALE: 1/16"=1'-0"
16' 0 8' 16' 32'

1 C-101 SITE PLAN 1/16" = 1'-0"

NORTH

CERTIFICATE OF OWNERSHIP

I HEREBY CERTIFY THAT I AM THE OWNER OF THE PROPERTY SHOWN AND DESCRIBED HEREON WHICH IS LOCATED WITHIN THE SUBDIVISION JURISDICTION OF BEAUFORT. AND THAT I HEREBY ADOPT THIS PLAN OF SUBDIVISION WITH MY FREE CONSENT. AND ESTABLISH MINIMUM BUILDING SETBACK LINES AS NOTED.

OWNER DATE

OWNER DATE

TOWN APPROVAL

THIS IS AN EXEMPT SUBDIVISION PURSUANT TO THE TOWN OF BEAUFORT SUBDIVISION ORDINANCE ARTICLE V SECTION 1A: COMBINATION OR RECOMBINATION OF PREVIOUSLY PLATTED LOTS.

Kyle Garner, Plng Dirctor 6/30/2020

DATE: PLANNING DIRECTOR

REVIEW OFFICER CERTIFICATION

COUNTY OF CARTERET

I Regan Ratcliff, REVIEW OFFICER OF CARTERET COUNTY CERTIFY THAT THE MAP OR PLAT TO WHICH THIS CERTIFICATION IS AFFIXED MEETS ALL STATUTORY REQUIREMENTS FOR RECORDING.

Regan Ratcliff 6/30/2020

REVIEW OFFICER DATE

REGISTER OF DEEDS CERTIFICATION

FILED FOR REGISTRATION AT 4:32 PM O'CLOCK

ARCHITECTURAL DESIGN PLLC
1202-A Pollock Street
New Bern, NC 28560
252-633-0322
www.goarchdesign.com

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308 ANN STREET, NEW BERN, NC 28516

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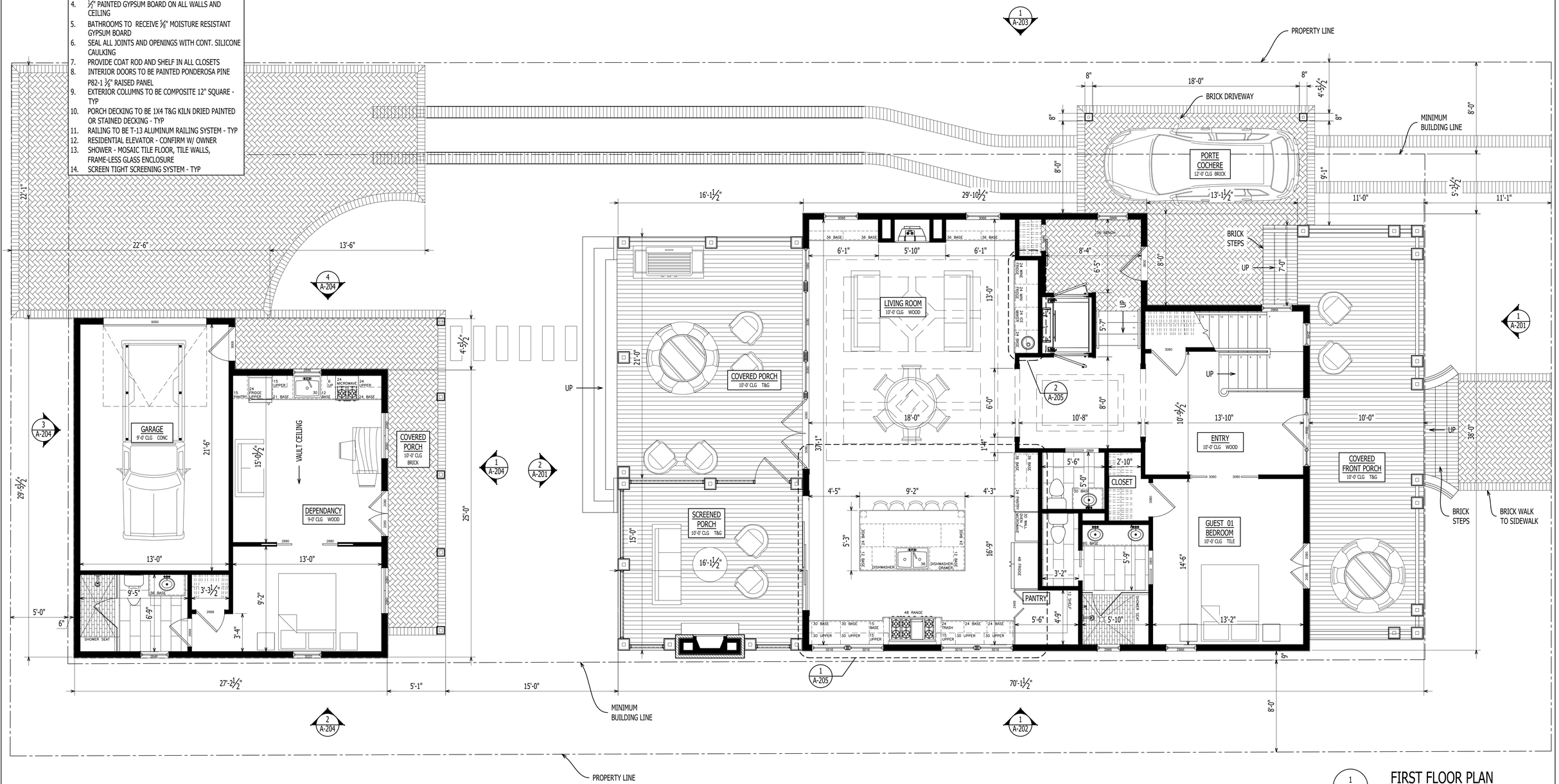
C-101

SITE PLAN

11.22.2021
DAVIDSON - 308 ANN ST

NOTES

1. DIMENSIONS ARE TO FACE OF STUD - THIS SHEET
2. ALL EXTERIOR WALLS - 2X6 WOOD STUD @ 16" O.C.
3. ALL INTERIOR WALLS - 2X4 WOOD STUD @ 16" O.C.
4. ½" PAINTED GYPSUM BOARD ON ALL WALLS AND CEILING
5. BATHROOMS TO RECEIVE ⅝" MOISTURE RESISTANT GYPSUM BOARD
6. SEAL ALL JOINTS AND OPENINGS WITH CONT. SILICONE CAULKING
7. PROVIDE COAT ROD AND SHELF IN ALL CLOSETS
8. INTERIOR DOORS TO BE PAINTED PONDEROSA PINE P82-1 ⅜" RAISED PANEL
9. EXTERIOR COLUMNS TO BE COMPOSITE 12" SQUARE - TYP
10. PORCH DECKING TO BE 1X4 T&G KILN DRIED PAINTED OR STAINED DECKING - TYP
11. RAILING TO BE T-13 ALUMINUM RAILING SYSTEM - TYP
12. RESIDENTIAL ELEVATOR - CONFIRM W/ OWNER
13. SHOWER - MOSAIC TILE FLOOR, TILE WALLS, FRAME-LESS GLASS ENCLOSURE
14. SCREEN TIGHT SCREENING SYSTEM - TYP



1 A-101 — FIRST FLOOR PLAN
Scale: 1/4" = 1'-0"

GRAPHIC SCALE: 1/4"=1'-0"
4' 0 2' 4' 8'

ARCHITECTURAL DESIGN PLLC
1202-A Pollock Street
New Bern, NC 28560
252-633-0322
www.goarchdesign.com

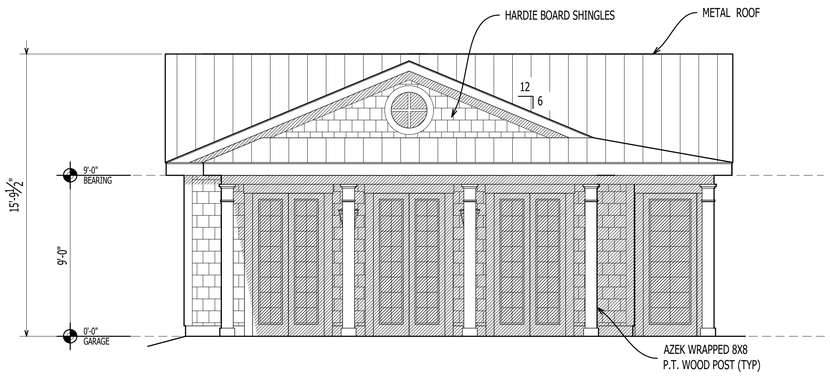
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DAVIDSON CUSTOM HOUSE

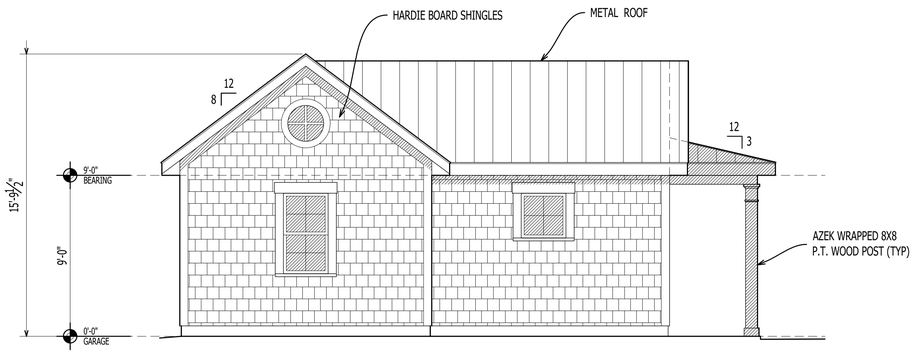
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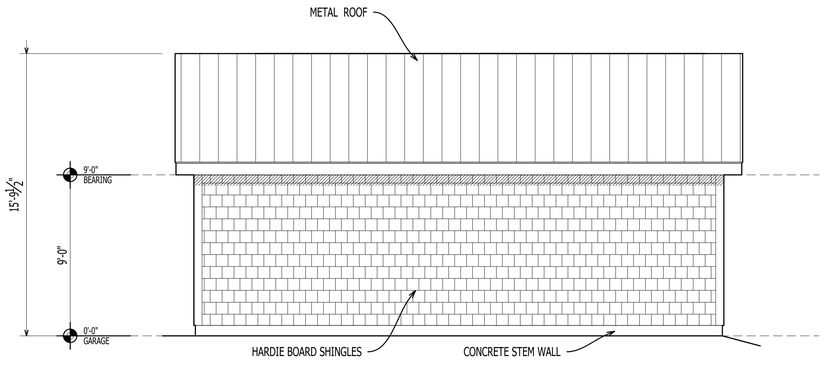
A-101
FIRST FLOOR PLAN
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DAVIDSON - 308 ANN ST



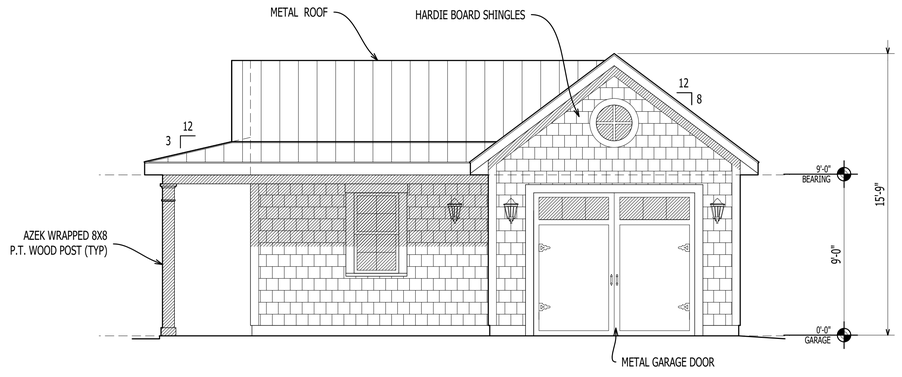
1 A-204 **GARAGE ELEVATION**
Scale: 1/4" = 1'-0"



2 A-204 **GARAGE ELEVATION**
Scale: 1/4" = 1'-0"



3 A-204 **GARAGE ELEVATION**
Scale: 1/4" = 1'-0"



4 A-204 **GARAGE ELEVATION**
Scale: 1/4" = 1'-0"

GRAPHIC SCALE: 1/4"=1'-0"
4' 0 2' 4' 8'

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A-204

GARAGE ELEVATIONS

11.22.2021
DAVIDSON - 308 ANN ST

SECTION 20 Special Use Permits

A) ***General.***
Special uses are practices which are not permitted by right in any zoning district in the Town of Beaufort, but may only be granted after due consideration by the Board of Commissioners (BOC). The consideration of a special use application is a quasi-judicial function requiring evidentiary hearings and specific findings of fact. Special use permits may only be granted by the BOC following a recommendation by the planning board and the quasi-judicial review process as stipulated in this section.

B) ***Special Use Permit Application Procedures.***

1) A written application for a special use permit in all zones shall be submitted to the Town's Planning and Inspections Department in accordance with the requirements of section 1-M of this Ordinance and all applicable administrative regulations. The application shall include:
   a) A proposed use site plan which contains information documented in section 18-C of this Ordinance and the specific information features below:
      i) A vicinity map and survey of the parcel which shall include the zoning and use of all adjacent properties;
      ii) A legend identifying all symbols on the map;
      iii) A North arrow and a scale;
      iv) A preliminary design of the proposed use which shows all existing and proposed structures, parking layouts, driveways, buffering, landscaping, points of ingress and egress, easements, minimum building lines, and street rights-of-way;
      v) A site data block of features which includes the proposed use(s), square footage of the proposed and existing structure(s), site zoning, total acreage, number of lots, minimum lot size, and average lot size;
      vi) The map book, page number, and deed book information;
      vii) A note stating whether any portion of the property is included in any adopted Town plan; and,
      viii) Any other related information requested by Town staff, the planning board, or the BOC.
      ix) All required environmental permit improvements needed for the property.
   b) The special use permit sought; and,
   c) Information supporting the existence of the required findings, and providing such plans or other relevant data as may be required by the Town.

2) Whenever an application is submitted for a special use permit in a residential zone, the applicant shall also include:
   a) A narrative which illustrates the appropriateness of the proposed use in a residential zone. This narrative shall also describe all the architectural design features which make the proposed use and associated building compatible with the urban character of the residential neighborhood;
   b) The submitted site plan shall also include all street front architectural elevation drawings to insure the building(s) compatibility with the surrounding residential structures; and,

c) Additionally, the BOC and town staff may require a professional rendering or any other graphic illustration of the proposed structure.

3) The application shall be reviewed by town staff and submitted with comments and recommendation to the planning board for review. After the planning board makes its recommendation, the application shall be forwarded to the BOC for consideration.

C) ***Quasi-Judicial Proceeding Notification Requirements.***

The Town shall schedule a quasi-judicial proceeding for the application and BOC consideration after reasonable opportunity for staff and planning board review by providing public notice no more than thirty days after receipt of the completed application. The notice of a quasi-judicial proceeding shall be given using the standards set forth is section 3-E of this Ordinance with the exception of the following:

1) The notice shall be given once a week for two successive calendar weeks and published in a newspaper having general circulation within Town. The first publishing shall not be less than ten days or not more than twenty-five days before the date affixed for the hearing. In computing such period, the day of publication is not to be included but the day of the hearing shall be included as documented.

2) All property owners within two hundred feet (200') of the lot boundaries on all sides of the subject lot as listed in the county tax records shall be mailed by the Town a notice of the quasi-judicial proceeding on the proposed special use application by first class mail at the address listed for such owners on the county tax abstracts. The notice shall identify the location and briefly describe the proposed special use. Section 3-E (2) of this Ordinance gives direction on when the notices shall be mailed.

3) The Town shall prominently post a sign giving notice of the quasi-judicial proceeding on or immediately adjacent to the subject area reasonably calculated to give public notice of the proposed special use public hearing not more than ten days prior to the hearing date. The wording of such sign should be similar to what is in section 3-E (4) of this Ordinance.

D) ***Procedures on Special Use Applications.***

In considering whether to approve an application for a special use permit, the BOC shall proceed as follows:

1) The BOC shall hold the quasi-judicial proceeding and consider relevant information regarding whether the required findings under subsection E of this section exist and whether the special use is appropriate in the proposed location. The BOC shall hear relevant information from the applicant, adjoining property owners, the Town Manager, the planning board, planning officials, and any interested or affected members of the public. Parties may appear in person, by designee, or by attorney to present information relevant to the requirements of the Ordinance.

2) The BOC shall consider whether the application complies with each individual required finding specified in subsection E of this section. The BOC need not make the required findings at the time of the hearing and may call for additional information if needed. If the special use permit application is approved, the BOC motion shall contain language showing all the required findings under subsection E of this section have been met, and in the absence of specific findings, it shall be conclusively presumed the application complies with all the findings in subsection E of this section.

3) The BOC shall render a decision within a reasonable period of time not to exceed ninety days after holding the quasi-judicial proceeding for the proposed special use application.

The BOC need not issue a decision at the time of the hearing if additional information is needed and may continue said hearing until a later date.

4) If the application is found not to be in compliance with one or more of the required findings of subsection E of this section or any other applicable section of this Ordinance, the application shall be denied. Such motion shall specify the particular findings the application fails to meet. It shall be conclusively presumed the application complies with all requirements not noted by the BOC in their motion to deny the application.

5) Notwithstanding the specific requirements of this Ordinance, the BOC may impose additional conditions and reasonable requirements upon the requested special use permit in order to ensure the use is consistent with the required findings as specified under subsection E of this section. The BOC may place an expiration date on the special use permit if a building permit is not secured within a certain period of time. If the special use permit is not renewed periodically by the recipient of the permit, it will expire on the date given to the permit by the BOC.

6) After the BOC renders its decision on the special use permit application, the reasons for granting or denying the application shall be made in writing. A written copy of the conclusion(s) of the BOC about the facts of the case and the board's corresponding decision shall be forwarded to the applicant within ten days.

E) ***Required Findings.***

1) In addition to any other findings or requirements as specified by any other section of this Ordinance, before any application for a special use may be granted or denied, the BOC shall make each of the following findings:
   a) The proposed use is an allowable special use in the zoning district it is being located within;
   b) The application is complete;
   c) The location and character of the use will be in conformity with the Town's land use plan and other comprehensive planning elements;
   d) Streets, driveways, parking lots, traffic control, and any other traffic circulation features shall be designed and provided in accordance with current traffic engineering standards and Town regulations and found to be adequate for the proposed special use;
   e) The proposed special use will not substantially injure the value of adjoining or abutting properties;
   f) The proposed special use will be compatible and in harmony with adjoining land uses and the development patterns of the immediate area; and,
   g) The proposed use will not materially endanger the public health or safety of the community if located where proposed and developed according to the submitted and approved plan.

2) The BOC shall make its findings based on "competent evidence" as described in N.C.G.S. 160A-393 (k) and will be cognizant the statute provides in part "competent evidence "shall not be deemed to include the opinion testimony of lay witnesses as to any of the following:
   a) The use of property in a particular way would affect the value of other property.
   b) The increase in vehicular traffic resulting from a proposed development would pose a danger to the public safety.

c) Matters about which only expert testimony would generally be admissible under the rules of evidence.

3) Compatibility Standards for Special Uses in Residential Zones:
In deciding whether the architectural elements of the proposed special use in a residential zone will be compatible with the adjoining buildings, the BOC shall review said proposal in reference to the following architectural elements:

a) Size (footprint);
b) Height;
c) Proportion and scale;
d) Roof shape(s);
e) Setbacks;
f) Location, size, and number of openings (doors and windows);
g) Materials;
h) Color; and,
i) Texture.

F) ***Special Use Guidelines.***

1) Adult Establishments.

a) No building, structure, or any portion thereof nor any portion of a lot or parcel or property shall be used for an adult establishment at a location closer than one thousand feet (1000') from any other adult establishment; or closer than one thousand feet (1000') from any residentially zoned property, pre-school, child care, nursery school, day care, K-12 school, public playground, or church situated within the Town limits or the ETJ.

b) Plans are required and must show:
   i) Locations of buildings and signs and the size of the plan;
   ii) Proposed points of access and egress and patterns of circulation;
   iii) Layout of parking spaces;
   iv) Lighting plan inclusive of wattage and illumination; and,
   v) Landscape plan.

2) Day Care Centers (Including Kindergarten).

a) One parking space shall be provided for each adult attendant and one parking space provided for every six children or fraction thereof.

b) Section 19 of this Ordinance gives the screening/buffering and fencing guidelines required for this application.

c) Plans are required and must show:
   i) Location and approximate size of all existing and proposed structures and buildings within the site and on the lots adjacent thereto;
   ii) Proposed points of access and egress and pattern of circulation;
   iii) Layout of parking spaces;
   iv) Location and extent of open play area(s);
   v) Day care center shall provide one hundred square feet (100 ft^2) of play area space per pupil.

vi) Outdoor play area shall be enclosed by a solid or open fence or wall at least four feet (4') in height. Where the outdoor play area is directly adjacent to a residentially used or zoned lot, a solid fence or wall at least six feet (6') high or the maximum applicable fence or wall height limitation for the district or an open fence at least four feet high (4') and a screen planting designed to grow three feet (3') thick and six feet (6') high shall be created. The BOC may at its discretion, require additional screening/buffering and/or fencing elements to be located adjacent to abutting nonresidential land uses.

vii) In residential districts, a day care center shall not be operated between the hours of 7:00 p.m. and 7:00 a.m. unless with written approval by the BOC.

viii) Landscape plan.

3) Radio or Television Transmitter.
   a) Minimum lot area – at least three acres in area.
   b) One parking space is required at the site.
   c) Plans are required and must show:
      i) Location and approximate size of all existing and proposed structures within the site and within one thousand linear feet in all directions;
      ii) Proposed points of access and egress;
      iii) Proposed off-street parking spaces; and,
      iv) Protective fencing at least six feet (6') high with three stands of barbed wire turned out and ten feet (10') from the perimeter of the antenna base shall be established.

4) Telecommunication Tower.
   a) Guy-wire towers shall not be permitted.
   b) Co-location towers shall be permitted.
   c) Height of communication towers shall be regulated by the Federal Aviation Administration (FAA).
   d) Communication towers are prohibited in front yards and shall be in compliance with the Telecommunication Act of 1996.
   e) Local governments have no ability to prohibit towers on the basis of environmental or health issues according to the Federal Radio Frequency Emission Standards.
   f) The BOC may deny a permit based upon a tower's influence on property value or aesthetics.
   g) A minimum lot size of one-half acre per tower shall be met; however, the Telecommunication Tower shall be placed on a lot of sufficient size, and in a position on the lot, if the tower falls, no part of it will fall onto adjacent property. Variances shall not be allowed.
   h) Landscaping and screening/buffering are required as approved by the planning board and according to section 15 and section 19 of this Ordinance.
   i) A six-foot (6') high protective barrier shall be required around the base of the tower. The barrier shall be a masonry wall, chain link fence, solid wood fence, or opaque barrier as described in section 19 of this Ordinance.
   j) Setback requirements shall be according to the district in which the tower is located.
   k) Towers shall be lighted to satisfy the FAA requirements.

l) Towers shall be removed within ninety days following abandonment of such towers.

m) Towers shall be removed by the property owner within one hundred eighty days following damage or termination of operation resulting in inoperable towers or towers where the owner of the tower shows no intent to repair said tower. Blown over towers shall also be removed by the owner of such tower under this guideline.

n) Any advertising signage is strictly prohibited on towers.

o) Towers shall be painted blue or gray if not otherwise required by the FAA.

p) The owner must provide adequate insurance coverage for any potential damage caused by or caused to the tower.

q) For permitting purposes, site plans are required as defined in section 18 of this Ordinance and shall show all of the following additional features:
   i) Identification of intended user of tower.
   ii) Documentation by registered engineer shows tower has sufficient structural integrity to accommodate more than one user.
   iii) Statement from owner indicating his intent to allow shared use of the tower and how others will be accommodated.
   iv) Evidence the property owners of residentially zoned/used property within three hundred feet of the base of the proposed tower, would be notified prior to the special use application being heard by the BOC.
   v) Documentation which shows towers over a certain height are absolutely necessary for the provision of service (i.e., a tower up to one hundred ninety-six feet (196') cannot provide a reasonable level of service).

r) The BOC shall determine if a tower is in harmony with the area and compatible with adjacent properties and may consider the aesthetic effects of the tower as well as mitigating factors concerning aesthetics. The BOC may disapprove a tower based on the grounds the aesthetic effects are unacceptable and a new site should be proposed. The following factors shall be considered:
   i) Protection of the view in scenic areas, unique natural features, scenic roadways, historic sites, etc.
   ii) Prevention of a concentration of towers in one certain area; and,
   iii) Height, design, placement, and other characteristics could be modified to have a less intrusive visual impact.

5) Marinas.

The requirements below are for marinas and for proper disposal of sewage from boats:

a) All slips over thirty feet (30') shall provide a permanent pump-out connection so a hose of not more than thirty feet (30') can reach the mid-point of the slip.

b) Any vessel with a permanently installed marine sanitation devise shall be located so the holding tank can be pumped-out using a hose not to exceed thirty feet (30').

c) Mobile pump-out equipment may not be used to meet the requirements of subsections 5a) and 5b) of this section.

d) A marina may not charge marina tenants an additional fee to pump-out their holding tanks.

e) When a T-head of a dock is unoccupied during regular business hours, the marina shall provide public access to the pump-out facility for a nominal fee.

6) Office: Small Business.

Property owners may be granted a special use permit for an Office: Small Business in a Residential Zoning District if identified as a *Small Business* as defined in section 4 of this Ordinance.

a) In addition to application requirements outlined in subsection B of this section, special use permit applications must include the following:
   i) Detailed narrative describing the activities associated with the requested use;
   ii) Number of employees requested to work on site;
   iii) Requested business hours of operation;
   iv) Estimated number of clients served on site per day; and,
   v) Detailed drawing or photographs, including measurements, of signage if requested.

b) Signage will be reviewed by the BOC at the time of the special use permit and will meet the following standards:
   i) Not more than one sign is permitted;
   ii) Sign will not exceed an area of two square feet (2 ft^2);
   iii) Colors will be compatible with those of the structure and will not detract from the residential characteristics of the structure;
   iv) Sign will be affixed flatly against the building; and,
   v) Directly lighted and/or neon signage is not permitted.

c) Conditions: The BOC may impose reasonable conditions as it deems necessary for the protection of the public health, general welfare, and public interest regarding:
   i) Compatibility. The compatibility of the proposal, regarding both use and appearance, with the surrounding neighborhood;
   ii) Hours of Operation. The frequency and duration of indoor/outdoor activities and the impact of the surrounding area;
   iii) Noise. The added noise level created by activities associated with the request;
   iv) Parking. The request will not generate a need for additional parking; and,
   v) Appearance. The general appearance will not be adversely affected by the location of the proposed use on the property.

Town of Beaufort, NC
701 Front St. - P.O. Box 390 - Beaufort, N.C. 28516
252-728-2141 - 252-728-3982 fax - www.beaufortnc.org

Board of Commissioners
Virtual Work Session
4:00 PM – Monday, Jan. 24, 2022

AGENDA CATEGORY: Items for Discussion and Consideration

SUBJECT: Topsail Park Public Art Donation

BRIEF SUMMARY:

The Beaufort Garden Club wishes to donate and dedicate a Public Art Sculpture honoring the Menhaden Fishing Industry at Topsail Park the first weekend of March 2022. Town Attorneys have reviewed and drafted the appropriate paperwork that will allow the Town to accept the donation.

REQUESTED ACTION:

Approval to move forward accepting the public art piece as a donation to the Town of Beaufort.

EXPECTED LENGTH OF PRESENTATION:

5 Minutes

SUBMITTED BY:

Elizabeth Lewis, Town Clerk

BUDGET AMENDMENT REQUIRED:

N/A

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Board of Commissioners
Virtual Work Session
4:00 PM – Monday, Jan. 24, 2022

AGENDA CATEGORY: Items for Discussion and Consideration

SUBJECT: Returning to In-Person Meetings

BRIEF SUMMARY:

Currently, all Town Boards (elected and volunteer) are conducting meetings virtually via Zoom with the exception of the Beaufort Harbor and Waterways Master Plan Advisory Committee who has permission to meet under a hybrid model at the Beaufort Hotel. All meetings will continue to be open to the public and individuals may join in-person or virtually via Zoom.

The current consensus of the Board of Commissioners is that the virtual platform is the best meeting method until COVID numbers decline and a hybrid option is available at the Train Depot. The topic is set to be discussed during each meeting.

REQUESTED ACTION:

Discuss returning to in-person meetings.

EXPECTED LENGTH OF PRESENTATION:

10 Minutes

SUBMITTED BY:

Mayor Harker

BUDGET AMENDMENT REQUIRED:

N/A

Town of Beaufort, NC

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Board of Commissioners
Virtual Work Session
4:00 PM – Monday, Jan. 24, 2022

AGENDA CATEGORY: Items for Discussion and Consideration

SUBJECT: Minutes

REQUESTED ACTION: Consider placing the below BOC meeting minutes on the consent agenda.

December 6, 2021- Organizational Meeting
December 13, 2021- Regular Meeting
December 20, 2021- Work Session

EXPECTED LENGTH OF PRESENTATION:

1 minute

SUBMITTED BY:

Elizabeth Lewis, Town Clerk

BUDGET AMENDMENT REQUIRED:

No

Town of Beaufort, NC
701 Front St. - P.O. Box 390 - Beaufort, N.C. 28516
252-728-2141 - 252-728-3982 fax - www.beaufortnc.org

Town of Beaufort Board of Commissioners
Organizational Meeting
December 6, 2021- 6:00 PM
Beaufort Fire Department
506 Live Oak Street

Beaufort Fire Department Honor Guard put forward a flag presentation, and the pledge of allegiance was recited by all.

Call to Order

Mayor Newton called the meeting to order at 6:00 PM

Roll Call

Mayor Newton called role.

PRESENT:

Mayor Newton
Commissioner Carter
Commissioner McDonald
Commissioner Hollinshed
Commissioner Hagle

Agenda Approval

Commissioner Hollinshed made a motion to approve the agenda.

Voting Aye: Commissioner Carter, Commissioner McDonald, Commissioner Hollinshed, Commissioner Hagle

The motion passed unanimously.

Items for Discussion and Consideration

1. Amend minutes of the February 10, 2020 Regular [redacted]ing – John Day, Town Manager

John Day, Town Manager, explained there was a final housekeeping item that needed to be addressed by the current board. At the regular meeting of February 10, 2020 the minutes contained a clerical error that did not indicate that Commissioner Hagle's motion also included an adoption of the reimbursement resolution for USDA utility projects. Mr. Day said they were asking that the board amend the minutes of February 10, 2020 to reflect the action to adopt a reimbursement resolution.

Mayor Newton asked if any of the commissioners had questions for the Town Manager.

There were no questions.

Mayor Newton asked what the pleasure of the board was.

Commissioner Hagle made a motion to amend the minutes as presented.

Voting Aye: Commissioner Carter, Commissioner McDonald, Commissioner Hollinshed, Commissioner Hagle

The motion passed unanimously.

2. Passing of the Gavel – Everette "Rett" Newton, Mayor

Mayor Rett Newton invited Mayor Elect, Sharon Harker up front where she was presented with the gavel and a key to Beaufort. She was surrounded by several former Mayors of Beaufort, as well as her family and friends.

3. Oath of Office- Sharon Harker, Mayor Elect

Barbara Cooper, North Carolina Notary Public, administered the Oath of Office to Sharon Harker as followed:

> I, Sharon Harker, do solemnly swear that I will support and maintain the Constitution and laws of the United States, and the Constitution and laws of North Carolina not inconsistent therewith, and that I will faithfully discharge the duties of my office as Mayor for the Town of Beaufort, so help me God.

4. Oath of Office - Melvin Cooper, Commissioner Elect

Judge Jefferson Griffin, North Carolina Court of Appeals, administered the Oath of Office to Melvin Cooper as followed:

> I, Melvin Cooper, do solemnly swear that I will support and maintain the Constitution and laws of the United States, and the Constitution and laws of North Carolina not inconsistent therewith, and that I will faithfully discharge the duties of my office as Commissioner of the Town of Beaufort, so help me God.

5. Oath of Office - Charles "Bucky" Oliver, Commissioner Elect

Judge Jefferson Griffin, North Carolina Court of Appeals, administered the Oath of Office to Charles "Bucky" Oliver as followed:

> I, Charles Oliver, do solemnly swear that I will support and maintain the Constitution and laws of the United States, and the Constitution and laws of North Carolina not inconsistent therewith, and

that I will faithfully discharge the duties of my office as Commissioner of the Town of Beaufort, so help me God.

6. Oath of Office - Bob Terwilliger, Commissioner Appointee

Valerie Magnatto, North Carolina Notary Public, administered the Oath of Office to Bob Terwilliger as followed:

I, Robert Terwilliger, do solemnly swear that I will support and maintain the Constitution and laws of the United States, and the Constitution and laws of North Carolina not inconsistent therewith, and that I will faithfully discharge the duties of my office as Commissioner of the Town of Beaufort, so help me God.

7. Recognition of Outgoing Commissioners and Mayor

Mayor Harker said it was a bittersweet moment of transition but noted what great success the outgoing commissioners and mayor had, discussing their many accomplishments over the years. She presented them each with a gift and proclamation honoring their dedication to the Town of Beaufort. Each proclamation is listed below:

PROCLAMATION
Honoring Commissioner Ann Carter for her Dedicated Service to the Town of Beaufort

WHEREAS, Ann Carter, a long-time resident of Beaufort, business owner and compassionate nurse served the Town of Beaufort in numerous volunteer roles before beginning her career as an elected official; and

WHEREAS, Carter is a graduate of DePaul Hospital School of Nursing and a registered nurse volunteering her time and talents at the Broad Street Clinic; and

WHEREAS, Carter volunteered as an appointed member of both the Town of Beaufort Planning Board and Board of Adjustment volunteer committees, presiding as Chair for several years; and

WHEREAS, Carter was first elected to serve the citizens of Beaufort as a Town Commissioner in December of 1987. She served the Town in this position until 1991; and

WHEREAS, Carter was elected Mayor of the Town of Beaufort in December of 2003 and assumed that role through 2007; and

WHEREAS, Carter was re-elected as a Town of Beaufort Commissioner in December of 2009 and has been a dedicated member of the board serving consecutive terms ever since; and

WHEREAS, during Carter's years of service to the Town, she has been an advocate for the citizens, and has guided Beaufort through growth with the goal of maintaining the sense of community so important to Beaufort citizens; and

WHEREAS, Carter during her time on the Board advocated for recreational facilities, a long-term infrastructure plan and a bicycle plan in the Town of Beaufort; and

WHEREAS, Carter passionately and devotedly served the citizens of Beaufort in her roles as volunteer and elected official; and

NOW, THEREFORE, BE IT RESOLVED THAT, I, Mayor Sharon Harker do hereby proclaim December 8, 2021 as "Ann Carter Day" to express appreciation for the devotion, knowledge and service given by Ann Carter over her tenure as Commissioner and Mayor.

Duly adopted this 6th day of December 2021

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Sharon Harker
Mayor

PROCLAMATION
Honoring Commissioner Charles McDonald for his Dedicated Service to the Town of Beaufort

WHEREAS, Charles McDonald, was born and raised in Beaufort. McDonald is a graduate of the Queen Street High School and a graduate of Harris Barber College; and

WHEREAS, McDonald began his career in public service by serving as a Town of Beaufort Police Officer where he advanced to the position of Police Chief, making him the first African-American to serve in that role; and

WHEREAS, McDonald served as the Beaufort Police Chief from 1992-1998 before retiring; and

WHEREAS, McDonald has owned and operated two small businesses in his hometown of Beaufort; and

WHEREAS, McDonald was first elected to represent the citizens of Beaufort in December of 2001 as a Town of Beaufort Commissioner and has served consecutive terms through 2021; and

WHEREAS, McDonald was first selected as Mayor Pro-Tempore in 2007, a position he was again selected for a total of three terms over his career as Commissioner; and

WHEREAS, McDonald ran for office out of his love for Beaufort and his love of the people; and

WHEREAS, McDonald served as a voice of the people voting his heart and conviction; and

WHEREAS, McDonald was an advocate for equality in all neighborhoods in Town and successfully served the community with great dignity; and

NOW, THEREFORE, BE IT RESOLVED THAT, I, Mayor Sharon Harker do hereby proclaim December 9, 2021 as "Charles McDonald Day" to express appreciation for the dedication, commitment and service shown by Charles McDonald over his tenure as Commissioner/Mayor Pro-Tem.

Duly adopted this 6th day of December 2021.

_____

Sharon Harker
Mayor

PROCLAMATION
Honoring Mayor Newton for his Dedicated Service

WHEREAS, Everette "Rett" Newton was reared from an early age in the Town of Beaufort, which he and his family continue to call home; and

WHEREAS, Newton, demonstrated unwavering dedication to our country in the United States Air Force, retiring at the rank of Colonel after 28 years; and

WHEREAS, Newton has displayed the same dedication for his hometown of Beaufort by serving as the Chair of the Parks and Recreation Advisory Board prior to being elected Mayor; and

WHEREAS, Newton was elected Mayor in December of 2017 and again in 2019 serving two terms; and

WHEREAS, Newton worked passionately to lead the Town of Beaufort and its citizens through two major hurricanes, Florence in 2018 and Dorian in 2019, rolling up his sleeves to serve the citizens of Beaufort, from delivering MRE's in the storms' aftermath to recognizing and working to correct the disparities Florence and other natural disasters unveiled in the years that followed; and

WHEREAS, Newton led the Town through the unknown early days of the COVID-19 Pandemic, working to ensure Beaufort and its citizens remained as safe and healthy as possible by providing updated information and implementing safety precautions; and

WHERAS, Newton, a PhD candidate for Marine Science and Conservation at the Duke Marine Lab, helped move the Town of Beaufort to the forefront of the State as a leader in the effort to cleanup local waterways. Under his leadership more than 120,000 pounds of debris, 11 derelict vessels, 34 illegal moorings and more were removed from the waterways inside Beaufort's jurisdiction; and

WHEREAS, Newton pushed to invest in infrastructure to secure the future of Beaufort, leaving Beaufort better than it was at the time of his first election, and thanks to his leadership has helped establish a plan for a secure future for the Town.

NOW, THEREFORE, BE IT RESOLVED THAT, I, Mayor Sharon Harker do hereby proclaim December 10, 2021 as "Rett Newton Day" in appreciation of his dedication, commitment and service to the citizens of Beaufort.

Duly adopted this 6th day of December 2021.

_____
Sharon Harker
Mayor

8. Appointment of Mayor Pro-Tem

Mayor Harker said according to the Town Charter, at the first meeting after the election the Board of Commissioners are to select one of its members to act as Mayor Pro Tempore; the job of the Mayor Pro-Tem while they are in office is to act as Mayor, in case of sickness or absence of the Mayor, and perform their duties. Mayor Harker asked for a motion to open the floor for nominations.

Commissioner Hagle made a motion to open the floor for nominations of Mayor Pro-Tem.

Commissioner Cooper nominated Commissioner H

Mayor Harker asked if there were any other nominations, if not, was there a motion to close the floor for nominations.

Commissioner Cooper made a motion to close nominations for Mayor Pro-Tem.

Mayor Harker asked for a vote regarding the motion to appoint Commissioner John Hagle as Mayor Pro-Tem.

Voting Aye: Commissioner Cooper, Commissioner Hagle, Commissioner Hollinshed, Commissioner Oliver, Commissioner Terwilliger

The motion passed unanimously.

Mayor/Commissioner Comments

Commissioner Terwilliger thanked the commissioners who appointed him to the vacant seat, noting it was a great honor and one of the most important jobs he has had in his life. He spoke to the citizens and fellow Commissioners, saying that he looked forward to the journey over the next few years and would give it his best efforts. He also thanked his family for their support, noting he could not have done it alone.

Commissioner Cooper thanked his family, friends and citizens who put their trust in him to fill the position and said he would honor them all in every way he could.

Commissioner Oliver expressed his gratitude to be elected to the position and thanked his family for their love and support. He also stated he was excited for the years to come, but also paid deep respect to the outgoing board members.

Commissioner Hollinshed said she looked forward to working with the new board as well as Mayor Harker and hoped for a good working rapport.

Commissioner Hagle thanked Ann Carter, Charles McDonald and Rett Newton for their service to the Town of Beaufort, noting he really enjoyed working with them all and emphasized many accomplishments made, even during challenging times. He complimented the positive changes they were part of during their years of service and how the citizens of Beaufort will continue to benefit from these improvements for years to come. He added the future of Beaufort was very bright, and congratulated Mayor Harker on her new role. He also congratulated the new commissioners and said he was honored to be serving beside them to continue making Beaufort a great place to work, live and visit for all citizens and visitors. He thanked Town Manager, John Day and the rest of the employees who work hard every day to keep Beaufort safe and provide services to the citizens. He ended with a safety message, emphasizing how important focusing on your driving is and reminded everyone not to use their phone while behind the wheel, specifically texting and driving.

Mayor Harker said she wanted to extend her sincere gratitude to the citizens of Beaufort, for trusting her to serve as the next Mayor; noting she was humbled and honored. She said she was also honored to be the first African American to serve as Mayor, stating what an historical moment it was in the Town's 380-year history and one that should not be taken lightly. She thanked her husband and the rest of her family and friends who supported her along the journey. She gave thanks to the hardworking staff who have been part of many completed projects, noting while there is still work to be done, they were moving in the right direction. She discussed the season of change, as they welcome three new Commissioners, a new Mayor, and a new Town Manager, noting it was an exciting time for Beaufort, filled with magnificent opportunities for the future. She emphasized the importance of continuing to exercise diversity, equity, and inclusion, so that all citizens feel heard and valued, adding that it would take everyone working together to achieve that goal. She thanked the outgoing Commissioners and

Mayor for the dedication, service and leadership shown to the citizens of Beaufort, stating it had been an honor working with them. She welcomed the new Commissioners and expressed her excitement to continue working Commissioner Hollinshed and the newly selected Mayor Pro-Tem, John Hagle. She ended by stating the future of Beaufort is very bright.

Adjourn

Commissioner Hagle made a motion to adjourn the meeting.

Voting Aye: Commissioner Cooper, Commissioner Hagle, Commissioner Hollinshed, Commissioner Oliver, Commissioner Terwilliger

The motion passed unanimously.

The meeting was adjourned at 6:45 PM

Reception

Mayor Harker thanked everyone for coming and a reception followed.

_____

Sharon Harker, Mayor

_____

Elizabeth Lewis, Town Clerk

Town of Beaufort, NC
701 Front St. - P.O. Box 390 - Beaufort, N.C. 28516
252-728-2141 - 252-728-3982 fax - www.beaufortnc.org

Town of Beaufort Board of Commissioners Regular Meeting
6:00 PM Monday, December 13, 2021 - Zoom due to the COVID-19 Pandemic
Minutes

Call to Order

Mayor Harker called the meeting to order at 6:00 PM

Roll Call

Elizabeth Lewis, Town Clerk, called the role.

PRESENT:

Mayor Harker
Mayor Pro-Tem Hagle
Commissioner Cooper
Commissioner Hollinshed
Commissioner Oliver
Commissioner Terwilliger

Agenda Approval

Commissioner Hagle made a motion to approve the agenda as presented.

Voting Yea: Commissioner Hagle, Commissioner Cooper, Commissioner Hollinshed, Commissioner Oliver, Commissioner Terwilliger

The motion passed unanimously.

Manager Report

John Day, Town Manager, shared that he and key staff members attended a two-day diversity, equity and inclusion learning retreat that was very worthwhile and informative. He also mentioned Mayor Harker had been in contact with the instructors and it would be beneficial for the new board to participate in a similar course. Mr. Day also recognized Brian Beck, Fire Captain, as he was honored at a “Hometown Hero” luncheon on December 7th in Raleigh, NC. The Hometown Heroes Program is organized through the North Carolina Automobile Dealers Association to recognize first responders. Mr. Day elaborated by characterizing Mr. Beck as an excellent employee, who was a dedicated fire fighter and a real asset to the Town of Beaufort.

Public Comment

There was none.

Items of Consent

1. Minutes- October 25 & November 8, 2021
2. Lions Club Bridge Run 2022

Commissioner Oliver pointed out there were a few minor corrections that needed to be made to the October 25, 2021 minutes, these corrections were noted as a missing commissioner name in a motion on page four and a change to a word used on page seventeen.

Mayor Harker asked for a motion to approve the consent items, including corrections to the minutes on page four and seventeen.

Commissioner Hagle made a motion to approve the consent items with the corrections to the minutes.

Voting Yea: Commissioner Hagle, Commissioner Hollinshed, Commissioner Terwilliger, Commissioner Cooper, Commissioner Oliver

The motion passed unanimously.

Items for Discussion and Consideration

1. Returning to In-Person Meetings

Mayor Harker reported the recent covid numbers in Carteret County and initiated the discussion by asking the board their thoughts on the matter of returning to in-person meetings.

Commissioner Hagle suggested one of the January meetings as a return date, depending on the hybrid IT equipment. He asked Mr. Day if there was any update on that equipment.

Mr. Day said they had reached out but have not heard back yet, assuming it is on schedule for the end of December as they suggested.

Commissioner Hagle said he hoped to have it by the January work session and suggested holding those meetings at the Train Depot as well.

Commissioner Hollinshed agreed the conference room at Town Hall was too small for comfort and meetings should not be held there. She said she was okay with returning to the depot in January, unless there was a bump in cases after the holidays.

Commissioner Terwilliger agreed with the other comments thus far and suggested targeting January as a return window. He said the recent swearing in ceremony was successful and noted people were feeling more comfortable gathering, as long as there was the ability to distance. He agreed that the Train Depot would be an ideal place to meet; adding, with three new commissioners and a new mayor, it is important to build a bond as a group moving forward and that would be more feasible to do in person. He said he would be in favor of starting to meet in-person in January, assuming nothing degrades between now and then.

Commissioner Cooper agreed with Commissioner Terwilliger and said that people need to see them in their new roles; he would be happy to start meeting in-person sometime in January.

Commissioner Oliver said he was of the same vein; the sooner the better, the stronger.

Mayor Harker confirmed there was a consensus to aim for returning in-person at the January meeting, and suggested they discuss it again at the December work session.

2. Delinquent Utility Accounts

Mr. Day explained that early in the pandemic there was an executive order that enacted a prohibition on utility disconnections for n[illegible]ayment, the order has expired, but Beaufort,

like nearly all local governments, continued to honor it. He said, currently there are 120 accounts that are about $99,000 past due. American Recovery Plan Act (ARPA) funds may be used to alleviate all or part of the past due amounts. The Town has great flexibility in structuring payment plans for past due accounts. At the November 22 Work Session, the Board decided by consensus to consider the creation of a utility assistance grant program similar to that used in Durham for those with delinquent accounts; information regarding the Durham program is attached for the Board's consideration. He said the Board also directed staff to re-establish collection efforts and implementing payment plans with those who have delinquent accounts in January. The Town newsletter listed a request for folks who are behind to call and set up some kind of payment plan. Mr. Day added that there was a recent press release from the North Carolina Department of Health and Human Services announcing a new program that is funded with American Recovery Plan Funds, to provide utility assistance to low-income households. He explained that those people who are receiving public assistance are automatically enrolled into this program and the Town has been in touch with Carteret County DSS regarding; others who income is 150% of poverty level are also eligible to apply for the program beginning in January. The program does not state clearly how many funds are available, staff is asking for direction, whether or not that be an additional program that goes beyond the one announced by NCDHH. Mr. Day suggested waiting to find out exactly how much is available through the program, so the Town will know how much it would offset the delinquent accounts. He said if there is a need for the Town to adopt its own program, one easy way to do it might be to pick up what those remaining delinquent amounts are through the funding the Town has available through the American Recovery Plan; this would make it simple, rather than going through the application process. Mr. Day said he was available to answer questions, as well as Christi Wood, Finance Director.

Mayor Harker thanked Mr. Day and asked to hear from the board members, in hopes to provide a little guidance on the situation.

Commissioner Hagle said he did some research on the State program discussed and found that North Carolina had $39 million dollars to work with; he said it sounded like a good program and reiterated that each county's Department of Social Services will be the administrator of the funds. He said he listened to a podcast earlier that explained the details of the program, and while it is unclear on how far the funds will go, but he liked the idea of the program and thought it would be very helpful.

Commissioner Hollinshed said she tended to agree with some of that but wanted to dig a little deeper. She said she wanted to know what the amounts were of each account and when these people were notified to go through DSS, there be an order to disconnect associated with it, as it is a critical piece in order to qualify for the program. She said she would also like to know if these were property owners, renters, etc., because there are different programs out there and the background would be nice to know. She said often these programs are not sure where they are, and it is good until the money runs out. She added solid waste component to the discussion, as trash pickup is associated with the utility bill. She pointed out those portions of the bill could have been unpaid as well but are not part of the utility usage. She said in her opinion, the Town of Beaufort having a plan would be the last resort and the State money available through DSS should be used first. She also questioned the businesses and their role in the delinquent account totals, as it seems the plans only address individuals.

Commissioner Terwilliger said he agreed with a lot of the questions asked but had a couple of additional ones. He said he believed they needed some additional details and a

breakdown of what comprised the 120 accounts and $99,000 past due. He said he assumed the $99,000 is continuing to grow and questioned at what rate it was growing, as it would be interesting to know how much was being added to the total on a monthly basis. He asked if the Town had an internal process for people to use if they run into financial hardships and need assistance from the Town; if not, he suggested that there be one established. He added it would help them understand who was having problems, why they were struggling and act as a basis to facilitate informed decisions. He said he did not feel there was enough information to make a decision right now, but he did not want his words to be misconstrued as he did not want to help. He said he believed they should help everybody who needs it, but it needs to be done in a controlled, organized and factful way so it can be explained to others who question the process.

Commissioner Cooper said he agreed that more information may be needed, but if there is the capability to assist our citizens, we need to move forward in that direction.

Commissioner Oliver said the biggest gap he had right now was the need for more data; he said his greatest fear was some of the non-payments may be more indicative of high sewer rates than COVID. He said that in his opinion, water and sewer are essential services to all of our users, trash likewise is an essential service, despite it being reported in the general fund. He said at this time, he did not personally have enough data to make a recommendation or a decision; he specifically noted additional information that would be helpful. He said he would like to know what the existing Town of Beaufort collection, deposit, payment, and who the responsible parties or account holders are…additionally, he requested to have a source of the order that overrode the original Town of Beaufort collection policy, with information such as what date it was implemented and rescinded. He said most importantly, he would like to get a breakdown between residential and commercial users, and an age reporting of any account that is past due, with the date that the order was implemented and the date when it was rescinded, as of 12/31/21- the end of the year. He said if they have that data, he believed they could get a better feel of why it occurred, what can be done to help, how much of it was COVID, how much of it may have existed even before the order for non-disconnect was issued; the biggest thing he would like to see, even before deciding how it is financed, is enough data that allows them to provide a good recommendation in the particular subject.

Commissioner Hagle said to start with, it is important to information those who have delinquent accounts of the State program and the funds that are going to be available through the Department of Social Services in the County. He said he agreed, they do need more information, but suggested starting the process to help those through DSS if possible.

Commissioner Cooper said he knew that right now, DSS is going through the process, in terms of vetting their clients on the electric bill; will this be an additional burden on them, to be vetting people for our past due water bills?

Commissioner Hagle said they have been tasked to do that, and it is the same program the electric services are funded too, same group.

Mr. Day said just for clarity, the State is requiring the DSS offices to automatically enroll anyone who is receiving public assistance; so, they have already been in contact with the Town and the Town is providing them with the information they need in order to start addressing the past due utilities for those already enrolled in public assistance programs.

Commissioner Hagle asked if that included all the people in arrears?

Mr. Day said he had no idea of how many people who are in arrears or on public assistance.

Commissioner Oliver said I think it is separate.

Mr. Day said right, so that is not being taken care of at the individual level, rather than the organizational level; working directly to provide account information to DSS allowing them to work through that. As we discussed earlier, those who are not enrolled into public assistance will have to apply through the program beginning in January. He added that they do not track who has a rental property, who is a renter, and who is an owner; there is actually some prohibitions against asking people if they have rental property, that came down the legislator years ago. He said there are also privacy considerations that are statutory for utility accounts, only limited information can be given out, certainly nothing that is identifying any individuals. He suggested the easiest way to address the number of questions that have been asked would be to have each Commissioner email their specific questions to the Town Clerk, Elizabeth Lewis, so that they can be compiled and addressed by staff.

Commissioner Hollinshed asked if it had been rescinded.

Mr. Day said the last discussion the board had about this, staff was told not to do any cutoffs until January, not to even consider it until after that, and to first try and get people to work out payment plans; if there is a payment plan, we don't do cutoffs. He said that was the last direction that staff got, no cutoffs in December.

Commissioner Hollinshed said those were two different things; a cutoff versus rescinding the motion that was made to start it. She said you can stop it, but definitely not cut somebody off high and dry.

Mr. Day, right.

Mayor Harker said it sounded like they needed to have further discussion on the topic; is there a consensus for the Town to start working with NCDHHS program, to ensure citizens have that information? Also, we will get our questions answered once you email those. Do I have a consensus to start with that?

Commissioner Oliver said one thing he would like to point out, and Commissioner Terwilliger touched on it, in each of these cases, the Towns have gone to their county to tie into DSS or the system. He said he thought they needed to be mindful of that and consistent with it.

Mayor Harker said with that, we will let the Town go ahead and answer the questions that you will email, to get all the information needed to make a better decision on this. She asked to go around to make sure there was a consensus among the group.

Commissioner Hagle agreed but said he thought the focus should be on the DSS program first and then they will be able to see how many people have not been helped and go from there. He confirmed with Mr. Day regarding whether or not they would be able to know that.

Mr. Day said they had not yet heard back from the individual they are working with at DSS but assured them there would be an opportunity to follow up and find out how many folks

have been and will be able to receive help, and to what extent, because they will have to send the Town the money.

Commissioner Hollinshed said yes, that was the summation of her former comments, starting with DSS first to see where they were.

Commissioner Terwilliger had no further comments, and said he believed they were on the right track.

Commissioner Cooper had no further comments.

Commissioner Oliver had no further comments.

Mayor Harker asked Mr. Day if he thought he had all the information they needed with that.

Mr. Day said if they followed up with the emails, then yes.

Public Hearing

1. Case # 21-25 Staff Initiated Rezoning Eastern Avenue from TCA to B-1

Kyle Garner, Planning Director, presented the case and said that it was a staff-initiated rezoning. He explained this case came about after one of the property owners was reviewing some information regarding a rezoning that took place in 1998 and found that it was not consistent with the zoning map. Included in your packet, are the actual applications where those requests were made; staff went through Town attorney who recommended going through the entire process, rather than just cleaning up the map alone. Mr. Garner informed the group the item went to the Planning Board's November meeting and there were no public comments, and the Planning Board unanimously recommended approval of the request. Mr. Garner explained where the properties were located on Eastern Avenue, by explaining the vicinity map in the packet. He also referenced the past Zoning maps that were also included in the board's packet and noted the potential corrections to the map. Mr. Garner said he would be happy to answer any questions from the board.

Mayor Harker asked for a motion to go into Public Hearing.

Commissioner Hagle made the motion.

Voting Yea: Commissioner Hagle, Commissioner Hollinshed, Commissioner Terwilliger, Commissioner Cooper, Commissioner Oliver

The motion passed unanimously.

Mayor Harker asked Ms. Lewis if there was anybody signed up to speak during the Public Hearing.

Ms. Lewis said there was not.

Mayor Harker asked for a motion to close Public Hearing.

Commissioner Hollinshed made the motion.

Voting Yea: Commissioner Hagle, Commissioner Hollinshed, Commissioner Terwilliger, Commissioner Cooper, Commissioner C

The motion passed unanimously.

Mayor Harker asked if the board had any questions.

Commissioner Hagle had no questions and said it was really just cleaning up an old issue.

Commissioner Hollinshed had no questions.

Commissioner Terwilliger had no questions.

Commissioner Cooper had no questions.

Commissioner Oliver had no questions.

Mayor Harker said in the case of 21-25, what is the pleasure of the board?

Commissioner Hagle said he moved approval of the case as presented.

Mayor Harker said there was a motion on the table, now they will go around and vote.

Voting Yea: Commissioner Hagle, Commissioner Hollinshed, Commissioner Terwilliger, Commissioner Cooper, Commissioner Oliver.

Mayor Harker confirmed that the motion to approve the ordinance had been carried.

Mayor/Commissioner Comments

Commissioner Hagle thanked the staff for the services they provide throughout the year. He welcomed the new Commissioners and said he certainly looked forward to working with them in the coming months; he hopes they have as much fun as him in their roles. He also thanked all those who have been working to get the minutes up to date and said he hoped they would put a system in place so that it wasn't an issue again. He said thank you to staff and everyone who made the Christmas parade possible; it was a great day and beautiful weather for all those who watched and participated. He ended with a safety message: focus on your driving in a very sober way; do not drive under the influence as many do during this time of year. He also gave Happy Holiday wishes to all and reminded them to share blessings with others when possible.

Commissioner Hollinshed also welcomed the new Commissioners and said she would enjoy working with them. She also thanked Mr. Day for his service to the Town and wished him well in his retirement. She congratulated Brian Beck and gave well wishes to all staff members. She ended by discussing the major tornados that hit Kentucky and emphasized the importance of being resilient locally, in a human way, during major impacts such as a hurricane. She also wished everyone a Merry Christmas.

Commissioner Terwilliger thanked his fellow Commissioners for the warm welcome in joining the board, and said he too looks forward to working with everyone to have a productive 2022. He said he would like to echo what Commissioner Hagle said, by stating that he thought the folks in Town work really hard. He said, I don't think they get nearly the recognition they should, so I would like to personally say thank you. He said staff has gone over and above on a few things in his part of Town, which was very much appreciated. He also thanked staff in the Town Hall for their daily help when he questioned were asked or information was needed. He too wished Mr. Day a fun, relaxing and long retirement. He ended by stating that the Town was a lot of fun during the candlelight tour, there was a great turn out, and hopefully it was a sign of returning to some type of normalcy…Merry Christmas and Happy Holidays over the next few weeks.

Commissioner Cooper said he had spent time with Mr. Day and some of the staff in Town Hall; he saw the Town is in very capable hands, complimenting the employees. He wished Mr. Day an enjoyable retirement. He also reminded the board they were all stewards, and [illegible] have the responsibility of overseeing protection and

preservation in the Town of Beaufort, as the citizens have elected them to do so. He ended by wishing Happy Holidays to everyone.

Commissioner Oliver said the effort from the entire staff has been particularly clear to him during this transition of joining the board; everyone has gotten materials out properly, efficiently, courteously and he is thankful for that and for how blessed we all are; he concluded and thanked the Mayor.

Mayor Harker said the Town had gone through a lot over the years, but its resiliency has been the human portion of it; bonding together to get us through difficult times. She spoke about Mr. Day, saying he came along to the Town at the right time, imparting great wisdom that allowed a great future and vision for the citizens. She said she had learned a lot from Mr. Day and noted his compassionate nature along the way. She wished him well in his retirement and said she hoped he thought back about all the good things he helped put into place, such as encouragement, development, and training of Town staff. She welcomed the new board members and expressed how excited she was for everyone to work together. She ended by wishing staff a wonderful holiday season and recognized them for their hard work each day; with a special congratulations to Captain Beck for receiving the Hometown Hero award.

Commissioner Hagle added that he would like to also thank Mr. Day for his five years of service, noting the many improvements he has made to the Town along the way, putting it on a great path for the future.

Adjourn

Commissioner Hagle made a motion to adjourn the meeting.

The motion passed unanimously.

The meeting was adjourned at 6:55 PM

_____

Sharon Harker, Mayor

_____

Elizabeth Lewis, Town Clerk

Town of Beaufort, NC
701 Front St. - P.O. Box 390 - Beaufort, N.C. 28516
252-728-2141 - 252-728-3982 fax - www.beaufortnc.org

Town of Beaufort Board of Commissioners Work Session Meeting
4:00 PM Monday, December 20, 2021 - Zoom due to the COVID-19 Pandemic
Minutes

Call To Order

Mayor Harker called the meeting to order at 4:00 PM

Roll Call

Elizabeth Lewis, Town Clerk, called the roll.

PRESENT:

Mayor Harker
Mayor Pro-Tem Hagle
Commissioner Cooper
Commissioner Hollinshed
Commissioner Oliver
Commissioner Terwilliger

Agenda Approval

Commissioner Hagle made a motion to approve the agenda as presented.

Voting Yea: Commissioner Hagle, Commissioner Cooper, Commissioner Hollinshed, Commissioner Oliver, Commissioner Terwilliger

The motion passed unanimously.

Public Comment

There was none.

Project Updates

Greg Meshaw, Town Engineer, discussed the status of current projects; a summary of the presentation is included below.

- 15 Active Projects
  - 1 Parks & Recreation

  - 5 Street and Pedestrian Improvements
  - 6 Utility (5 Sewer, 1 Water & Sewer)
  - 1 Stormwater
  - 2 Building
- Active Projects- Detail
  - Cedar Street Park
  - FY20 Street Rehabilitation & Construction
  - Turner Street 100 Block Pedestrian Improvements
  - Town Wide Sidewalks (Part 5- FY20 Street Rehabilitation & Construction)
  - Downtown Parking
  - Turner Street- Broad Street Traffic Calming Improvements
  - USDA Funded Utility Project (Water, Sewer & Stormwater)
  - Wastewater Asset Inventory Assessment
  - High-Rate Infiltration System Permit Reacquisition
  - ECHS Sewer Pumping Issue Investigation
  - Wastewater Design Unit Flow Reduction Request
  - PruittHealth Sewer Service Construction
  - Meeting Street Drainage Improvements
  - Fire Station No. 2 Renovation
  - Train Depot Ceiling Repair/Painting
- USDA- Funded Utility Project (Water, Sewer & Stormwater)
  - 25% Design Meeting w/ Consultant
  - 3-day meeting
  - Direction provided by staff
  - Consultant had questions and requested “homework” for staff to complete over the next month
- Campen Road Water Line Extension Project Complete
  - Testing & disinfection complete
  - Connected
  - Pavement patching incomplete, ran out of asphalt, but almost done
  - Town staff sent certification papers to the State, still waiting on a reply
- Wastewater Design Unit Flow Reduction Request
  - Goal is to gain approval to use more accurate daily sewage flow design rate
  - Obtain from NC Department of Environmental Quality
  - Allocations of capacity become more realistic
  - The process includes assembled WWTP flowmeter calibration records, documented past infiltration and inflow studies and corrective actions, and complied daily WWTP influent flow records from 2018 to present
  - Other factors considered, determine number of sewer customers: month-by-month basis, residential vs. non-residential
  - Looking at heavier users of water
    - Calculations and results include: 281 GPD/Residential Equivalent Unit; RFU = 3 Bedroom Unit; 93.7 gallons per bedroom
  - Next step is to formalize the findings and request and send it to NCDEQ
- Wastewater Asset Inventory Assessment has been completed and the draft report has been compiled; the final report is expected to be back to Town staff soon after the first of the year. The plan has to be adopted by the board in order to receive final reimbursement for the work done by the consultant.
- Turner Street- Broad Street, Traffic Calming Improvements
  - Plans complete
  - Still need county permission for driveway realignment and bid the project out
- Train Depot Ceiling Repair/Painting
  - Peeling paint and swollen slat boards need to be addressed
  - Staff has preformed work in the attic, where the problem originated
  - HVAC ductwork resting on joists and attic insulation
  - Moisture-soaked insulation, no circulation under ductwork
  - Staff fixed the ductwork so it was not laying on the joists, they also dried and replaced moisture laden insulation

- Staff wants to obtain bids, schedule a contractor to do the work, monitor the attic through early summer and paint/repair in the summer months

Mr. Meshaw said he was happy to answer any questions or receive comments regarding the project updates.

Commissioner Oliver asked for clarification regarding the 93.7 gallons per day finding and how infiltration effects that number, looking at areas for potentially more relief.

Mr. Meshaw said that number includes infiltration, he added that they have examined water records and current records of flow to the wastewater treatment plant, which has infiltration built into it. He suggested he might be a good idea to look at it again after the USDA project is complete.

Commissioner Oliver asked how much of the 93.7 could be lowered by infiltration in our system.

Mr. Meshaw said he has not seen where any real extensive flow monitoring of this particular system had been done over the years; what has typically been conducted is several instantaneous flow type monitoring throughout certain parts of the system. He suggested however in past experiences, infiltration has been beneficial.

Commissioner Cooper asked where the 6.6 million came from for the pumping stations.

Mr. Meshaw said nothing has been scheduled, and the board would have to approve the projects as part of the budgeting and planning process, through adoption of a capital improvement plan that pulled the projects into the long-term budget plan. He said as time went on, he would like to look at funding that is applicable to these projects; such as USDA funds, state revolving loan funds if available, or initiatives released by the federal government. He suggested to complete these future projects, it would probably require outside and Town fundings. He reminded the group that this was a 10-year-plan, and there were many factors that contributed to the ability to be able to carry out the projects.

Commissioner Cooper asked about the sewage flow rate and how that study effects the citizens of Beaufort in terms of new construction and current residential properties.

Mr. Meshaw said it was the bulk of what was being built around Town; he explained how sewer capacity would be allocated in a residential sub-division using the proposed rate versus current numbers and the amount of water it would save.

Commissioner Cooper asked if there was any staff who were experienced enough to do the painting at the Train Depot.

Mr. Meshaw said it would be discussed internally and pointed out that staff does do a lot of office remodeling work.

Commissioner Cooper suggested it would save money if Town staff did the work, rather than contracting the job out to another company.

Mr. Meshaw pointed out it was a historic building, but they would look at staff doing the work.

Commissioner Terwilliger followed up with a question regarding the wastewater design guidelines, by asking Mr. Meshaw if the recommendation was 93.7 gallons versus 120 gallons.

Mr. Meshaw confirmed that was correct.

Commissioner Terwilliger asked if he thought studying it longer would be more beneficial in the long-run.

Mr. Meshaw said as long as the infiltration existed, they would not get any more credit; it is about how much shows up at the wastewater treatment plant, which factors into the calculations. He said as far as waiting goes, this could be reassessed again after the USDA project was completed, roughly three years from now. He said he did not think it was a matter of additional study, rather than additional action to precipitate changed conditions, that will achieve a better result…overall he suggested sufficient information had been complied.

Commissioner Terwilliger asked about the status of the rapid infiltration permit.

Mr. Meshaw said there was progress, said they were in a transition mode from preliminary engineering to real design and permitting work. He said this was being done by a consultant and he just received a scope of work from them last week; upon adequate review, they will move forward with authorizing the next step in the project.

Commissioner Hollinshed said in anticipation of receiving some stimulus money for the pump station repairs, would that be taken into consideration when considering the inventory report.

Mr. Meshaw said yes, right now they are targeting that money to a station that is not on the asset inventory recommendation list because it is already part of the capital improvement plan. He said this was wastewater station #7 and it would be a rather large expense, somewhere around $750,000 as an estimate.

Commissioner Hollinshed asked who was assisting Mr. Meshaw with this other than immediate staff.

Mr. Meshaw said that a lot of the heavy lifting had been done by finance staff regarding past usage, billing and gallons used per household. He said utilities staff had also helped in the process of gathering this data, as well as himself.

Commissioner Hagle brought up the point of older lift stations being considered a confined space; they are a hazard that must be managed quite diligently. He asked if those seven older stations were estimated to be in the same cost range as the $750,000 for station #7.

Mr. Meshaw said he did not have the numbers in front of him but estimated that the ones of Front Street would be more expensive, particularly the one at the end of Turner; he added that all of those stations are 50 years or older.

Commissioner Hagle asked about the infiltration pond and if the State might come around to the idea.

Mr. Meshaw said they had been in conversation recently regarding regulatory buffers, and so far, the discussions have gone well. He did add that he believed the regulators look at these types of systems more than they did in the early years, because there have been a few in the western part of the State that failed. He said that the systems on the coast have a greater potential to be more successful because of the sandy soils found in the area.

Commissioner Hagle asked if improvements to infiltration are made in the future, will he be able to go back to the State and request a lower rate?

Mr. Meshaw said a year’s worth of inflow to the wastewater treatment plant is needed to back up the request; if the work is successful, the numbers will show it through the flow rates.

Items for Discussion and Consideration

1. Returning to In-Person Meetings

   Mayor Harker shared current COVID numbers in Carteret County and initiated discussion on the topic of returning to in-person meetings.

   The consensus of the Commissioners was to keep the virtual meetings in place until the hybrid option becomes available, to ensure the safety of the citizens. The board members also suggested additional safety measures may need to be in place even after returning to the Train Depot. The topic will be assessed and discussed again at the next meeting.

2. 806 Cedar St Mixed Use - Site Plan

Kyle Garner, Planning Director, requested the item be placed on the consent agenda for the January 10, 2022 Regular Meeting. He added this item had previously been approved two years ago but recently expired; the applicant re-submitted and there were no changes to the past approved plan.

Mayor Harker asked if there were any questions for Mr. Garner.

Commissioner Oliver asked for an explanation of how stormwater was addressed on a small parcel like the one mentioned.

Mr. Garner said they look at it as part of the original Cedar Street Mixed Use, and for the State, usually when development happens in a commercial setting a stormwater plan must be assembled and engineered. He said in this particular case, the property was less than 8,000 square feet, even with the lot next door, it is close to the same, making it under 20,000 square feet. He added the Town was looking to put in stormwater chambers and basins along Cedar Street as part of that project, as the area is becoming more commercialized, and some type of stormwater system will be needed. He suggested this is why the State has been involved, and the chambers are included as almost bioretention areas, so absorb some of the stormwater.

Commissioner Oliver asked if this was being offered to the applicant as part of the consideration of how stormwater is being handled on this particular lot.

Mr. Garner said absolutely, as well as anyone along the Cedar Street Mixed Use area.

Commissioner Cooper confirmed that the plans indicated two-stories, with the lower end being business and the upper story being residential. He asked if it would be considered a rental?

Mr. Garner said it was his understanding it would be a long-term rental.

Mayor Harker asked if there were any more questions, if not was there a consensus to place this item on the consent agenda?

The board unanimously agreed to place it on the consent agenda.

3. Rezone 2158 Live Oak Street totaling 0.579 acres from R-20 to B-1

Mr. Garner asked that this item be placed as part of a public hearing for the January 10, 2022 meeting; He explained it was a rezoning as well as a CAMA Map Amendment to the current map.

Mayor Harker asked if there were any questions; there were none.

The consensus of the board was to place the item as a public hearing.

4. Minutes- July 26, Aug. 17 and Sept. 27, 2021

The consensus of the board was to place this item on the consent agenda.

5. Minutes- November 22, 2021

The consensus of the board was to place this item on the consent agenda.

6. Financial Notes

Christi Wood, Finance Director, discussed the November financial report, tax balances report for October and November, and sales & use tax distribution for the month of September sales, which totaled $205,781. She said she was happy to answer any questions about the report.

Commissioner Oliver requested to spend some time, about an hour or so, with Ms. Wood to go over the report more in depth. He said he hoped this would address his questions and help him do a deep dive on the six-month report, which is more of a customary business review. He also brought up the audit report deadline of October 31, 2021 to the LGC; he said there was a 30-day grace period and asked if a waiver was required beyond that period. He also asked when the best expectation was for the audit report to be presented to the board.

Ms. Wood said the audit contract was amended by the manager, and it was being finalized. She said the audit report would be presented to the board in January or February.

Commissioner Oliver asked if the Town was required to have any kind of permission from the LGC beyond their guidance.

Ms. Wood said when the audit contract is amended, it must be submitted to the LGC; so yes, they are aware of it.

Commissioner Oliver confirmed that the contract amendment would be asking for their permission.

Ms. Wood said that was correct.

Commissioner Cooper said he would also like to sit down with the Finance Director and ask some questions, as well as each department head, to better understand how they represent the Town.

Commissioner Terwilliger said he would also like to sit down with Ms. Wood to go through the financial side of things. He too said he would like to meet with all the department heads at some point, mainly to become familiar with what they do.

Commissioner Hollinshed said she could use a refresher as well, and it would be good to sit down with department heads as well but suggested waiting for the new Town Manager to be part of the process.

Commissioner Hagle agreed and said he hoped to get a better financial reporting system in place, suggesting the current report has too much detail and is hard to understand.

Mayor Harker agreed meeting with staff was important, especially with a new board, and suggested scheduling time after the new Town Manager begins on January 4, 2022.

Mayor/Commissioner Comments

Commissioner Oliver said it would be very helpful to sit down with Ms. Wood and he would follow-up to schedule a time with her; he suggested the main goal was to get education on the present financial system. He suggested giving the new manager time to get settled before asking him for recommendations; he suggested it might be better to divide those two meetings up but believes they are both important.

Commissioner Cooper agreed it would be great to get these meetings set-up with staff to become more informed about what was going on around Town. He thanked those staff members who spoke on items earlier in the meeting.

Commissioner Terwilliger wished his fellow commissioners, the mayor and all those in attendance, a safe and happy holiday and said he was looking forward to working everybody as they moved forward into 2022.

Commissioner Hollinshed said there was a lot of work on their plates and looked forward to working through it in the upcoming year; she also wished everyone a safe and Merry Christmas.

Commissioner Hagle also wished everyone happy holidays and a Merry Christmas. He particularly thanked t staff for all the hard work they completed over the past year. He said it was great to be working with the new board and spoke on how important their new ideas and initiatives were moving forward. He ended by asking people to help others when possible and reminded everyone to focus on their driving during the holidays.

Mayor Harker said she remembered being a new commissioner and how that felt, even though her situation was different as she was surrounded by seasoned members. She said she appreciated the fact the new members were looking to enhance their knowledge and be more vocal on the board. She reminded the group that the new Town Manager starts on January 4, 2022 and touched on the importance of education, in terms of the required ethics training class. She ended by wishing everyone a happy and joyous holiday.

Adjourn

Commissioner Hagle made a motion to adjourn the meeting.

Voting Yea: Commissioner Hagle, Commissioner Cooper, Commissioner Hollinshed, Commissioner Oliver, Commissioner Terwilliger

The motion passed unanimously, and the meeting was adjourned at 5:15 PM

_____

Sharon Harker, Mayor

_____

Elizabeth Lewis, Town Clerk

Town of Beaufort, NC
701 Front St. - P.O. Box 390 - Beaufort, N.C. 28516
252-728-2141 - 252-728-3982 fax - www.beaufortnc.org

Board of Commissioners
Virtual Work Session
4:00 PM- Monday, Jan. 24, 2022

AGENDA CATEGORY: Items for Discussion and Consideration

SUBJECT: Mardi Gras Event Request

BRIEF SUMMARY:

The BDA anticipates 1,000 -2,000 people to attend the event. The event includes a parade, the closure of Middle Lane for the day and vendors positioned along Middle Lane. The applicant also requests an alcohol waiver for Middle Lane. The proposed event is from 1:00-6:00 PM with setup beginning at 8:00 AM and ending by 8:00 PM. Middle Lane will be closed from 6:00 AM until 8:00 PM the day of the February 28th. Additional roads to include Turner, Front and Craven Streets will be closed for approximately 45 minutes during the Mardi Gras parade. The parade is anticipated to begin at 3:00 PM, with line-up beginning at the Beaufort Historic grounds, and to be complete by 3:30 PM. At this time, the applicant has not submitted COVID-19 mitigation measures. The event as submitted is the same as in past years. Due to the alcohol requirement, two officers will be required to be present for the duration of the event.

The applicant has been asked to be present to answer questions from the board regarding this event and specifically to COVID procedures.

The Town's Emergency Services Departments have been asked to review the application.

REQUESTED ACTION:

Consider approval or denial during the work session, as the application was delayed in submission by the applicant. The event is proposed for February 28th and the next BOC meeting is February 14th

EXPECTED LENGTH OF PRESENTATION:

5 Minutes

SUBMITTED BY:

Rachel Johnson, PIO/Parks & Events Coordinator

BUDGET AMENDMENT REQUIRED:

N/A

Date Application Received: 8.

Permit Number:

TOWN of BEAUFORT NORTH CAROLINA

APPLICATION FOR SPECIAL EVENT PERMIT

Please return completed application form with permit fee and paperwork to:

Events Coordinator, Town of Beaufort
701 Front Street
P.O. Box 390
Beaufort, NC 28516
Phone: (252) 728-2141 Email: r.johnson@beaufortnc.org

Applications submitted late or incomplete may not receive approval and may not be issued a permit.

EVENT BASICS

Event Name: MARDI GRAS ON MIDDLE LANE

Location of Event Site: MIDDLE LANE

(If more than one site is being requested please be specific and list each one individually below)

Run by: BEAUFORT DEVELOPMENT ASSOC.

Applicant (Organizer) Name: SUSAN SANDERS Contact # 252.241.4485

Day of Event Contact #: LIZ KOPF Email: susanrsanders

Type of Event:

- [x] Festival
- [x] Parade SMALL
- [ ] 5K Race
- [ ] 10K Race

- [x] Music Event
- [ ] Other _____

Actual Event Date(s): FEBRUARY 26 Time of Event: 1pm - 6pm

Set-Up Date: MORNING OF EVENT Start Time: 8Am

Tear Down Date: AFTER EVENT. SAME DAY End Time: 8Pm

Estimated Attendance: 1,000 - 2,000 Admission Fees: FREE

Event Description:
MARDI GRAS CELEBRATION ON MIDDLE LANE. FOOD VENDORS, LIVE MUSIC, BEER & WINE SALES, CHILDRENS ACTIVITIES, PARADE OF KREWES (PARADE: MIDDLE LANE TO CRAVEN ST TO FRONT STREET TO TURNER ST BACK TO MIDDLE LANE.) PARADE AWARDS

ORGANIZER/APPLICANT INFORMATION

Name of Organization: BEAUFORT DEVELOPMENT ASSOC

Primary Contact Person: SUSAN SANDERS

Mailing Address: PO BOX 56 BEAUFORT NC 28516

Email: susanrsanders@gmail.com

Daytime Phone #: _____ Cell Phone #: 252.241.4485

Alternate Contact Person: LIZ KOPF Phone #: 252.728.7446

Is your group a non-profit organization? YES If yes, please provide documentation with your application.

SITE PLAN

Site Plan Attached

- [x] Yes
- [ ] No

(If you need help, please set up a meeting with the Town of Beaufort's Events Coordinator)

A detailed site plan must be included with your event application. The following, should they be relevant, must be included in your Site Plan.

- Location of all tents and temporary structures
- Location of requested barricades and road closures
- Emergency exits
- Fire extinguishers, propane storage
- Location of command post, medical & first aid station, emergency vehicle access points and all exits and entrances (both emergency and for the public)
- Fencing, staging, bleachers, stages, inflatables, etc.
- Food/refreshment tent vendors, refreshment tents
- Food Trucks
- Location of Restrooms
- 5K/10K race routes

If the Site Plan is not submitted with the event application, the deadline is 45 days before the event, otherwise a permit will not be issued.

PARKS & PARKING LOTS REQUESTED

Please mark all that apply:

- ○ East Parking Lot
- ○ West Parking Lot
- ○ Craven Street Parking
- ☒ Middle Lane
- ○ John Newton Park
- ○ Lynn Eury Park
- ○ Grayden Paul Park
- ○ Topsail Marine Park
- ○ Other Please list: _____

Specific Requirements: (Extra trash cans/recycling/electrical etc.) Please be specific and include each item on the Site Plan for the desired location. Please note extra charges may apply in accordance to the fee schedule. (Trash/Recycling Carts: $10 each, Electricity: $50)

EXTRA TRASH CANS
EXTRA RECYCLING CANS
ROAD CLOSURE AIDS

OTHER EVENT DETAILS

Please provide the name and contact information of all outside companies who are providing services during your event. IE: Tent Rentals, Inflatable Rentals, Port-A-Pottie Rentals, etc.

STAGE RENTAL - COUNTRY AIRE RENTALS
PORT-A-POTTIES

Will there be canon/re-enactment fire during your event? NO If yes, please coordinate with the Beaufort Fire Department for safety procedures.

ALCOHOL

Alcohol at the event YES ✓ NO____ Attach all required paperwork. Applicant is responsible for obtaining applicable ABC License and Liquor Liability Insurance. Applicant must provide a clearly marked and contained area for alcohol consumption and hire two Town of Beaufort police officers at a rate of $35 per hour for the duration. (The Police Chief will review the application for exceptions.) All local, state and Federal laws must be adhered to.

I/we have read, understand and will comply with the rules outlined by the Town of Beaufort in the Town Code of Ordinances as well as in the Event Procedures.

X Susan Sanders ***(Applicant's Signature)***

ROAD CLOSURES

Does your event require a road closure? ✓ YES _____ NO

Please provide specifics below:

Road	Set-Up Time	Event Start Time	Finish Time	Tear Down Time
MIDDLE LANE	8AM	1PM	6PM	6PM
FRONT				
CRAVEN		3:00	3:30	
TURNER				

If a road closure has any impact on area businesses and/or residents, the applicant will be required to inform all residents and/or businesses in the area of the road closure, by letter or hand-delivered flyer at least 14 days in advance of the event, of the particulars of the approved temporary road closure and any detour route available.

Emergency Vehicle Access Requirements: *A road may be closed to regular traffic during an event, but an unobstructed fire lane must be left open at all times for emergency vehicles.*

PARKING/PARKING LOTS

Parking lots required for Event set-up: (Please mark on the site map if applicable) (Please note charges may apply. The rate is $18 per day per space in the East & West parking lots and $9 per on street parking space per day for special event closure during Pay-To-Park season).

Please list all parking lots and spaces you are requesting. Spaces are numbered so please be specific. Also please note that parking space closures MUST be approved by the Board of Commissioners. Event organizers are not permitted to acquire additional spaces without Town permission prior to an event.

Please list off-site Parking Location for Vendors & Event Staff: A letter of permission is required for the use of private property per the event procedures. Please include this with your event application.

Bicycle Parking: Yes_____ No _____

Additional Handicap Parking: Yes _____ No _____ Location: _____

Event Parking: (Please outline your plan for day of parking for event attendees. Please include parking lot locations and the name/contact information for any shuttle/trolley service):

PARADE/WALK INFORMATION

Parade Assembly Area: BHA GROUNDS Time: 2:30

Parade Dismissal Area: BHA GROUNDS/MIDDLE LANE Time: 3:30

Parade Start Time: 3pm

EMERGENCY MANAGEMENT

Route Map Attached: ✓ YES _____ NO (Please note a route map is required)

Designated Emergency personal/liaison (onsite): LIZ KOPF

Cell #: 252.728.7446 Other Contact: _____

How will your event staff react to severe weather?

PA SYSTEM

How will you alert visitors to the event to evacuate the site? (If multiple sites are being requested, a plan must be submitted for each location)

PA SYSTEM

RISK ASSESSMENT

It is important for Event Organizers to identify risks and hazards associated with their event and know how to prevent these risks. Please identify possible risks for your event and list below (weather, food, fire, etc.) Please provide details.

WEATHER - CANCEL EVENT
FOOD - VENDORS MUST PASS INSPECTIONS

What training will you provide to your volunteers/staff/participants regarding emergencies?

PRE-EVENT MEETING TO COACH WHAT TO LOOK FOR AND WHAT TO DO IN THE EVENT OF AN ISSUE

TENTS

Will you have tents at your event? ✓ YES _____ NO

Please list the tent sizes: 10X10 's

If your event includes tents, you must make arrangements with the Beaufort Fire Department for a tent permit. There is a $50 fee. Please contact Tammy Turek at (252) 728-4325 to make arrangements. The Tent Permit Application and a list of requirements are available online at www.beaufortnc.org.

FOOD

Will there be food served at your event? ✓ YES _____ NO

If yes, please provide a detailed list of all food vendors.

If yes, have you contacted the Carteret County Health Department to set up inspections? ✓ YES _____ NO

All food vendors must have proper licensing, inspections, etc.

VENDORS

Will there be vendors selling items at your event? ✓ Yes _____ No

Please note vendors are only permitted to sell during the event hours listed on this application. Any vendor selling before or after the listed hours is in violation and subject to being shut-down.

All vendors must have proper certifications and licenses. They must display the required state sales and use tax information and the event organizer must keep all of this information on file pursuant to North Carolina State laws.

CHECKLIST

Please submit the following documents with your event application. Once all forms (if applicable) are received and the event is approved an Event Permit will be issued.

- ○ Tent Permit
- ○ Detailed Site Plan
- ○ Detailed Route Map (Parade/5K/10K)
- ○ Map of Road Closures
- ○ ABC Permit
- ○ Health Inspection Documentation
- ○ Insurance
- ○ Non-profit documentation
- ○ Private property parking permission letter
- ○ List of food vendors
- ○ List of vendors
- ○ Application Fee
- ○ Application Signature

I/We the event organizer SUSAN SANDERS, on behalf of BEAUFORT DEVELOPMENT ASSOC, the party requesting the use of the Town of Beaufort facilities noted in the above application do hereby hold and save harmless and agree to indemnify the Town of Beaufort and its elected officials, directors, officers, employees, servants, agents, contractors and their respective heirs, executors, successors with respect to any and all liability, actions, debts, suits, demands, costs, damages and expenses whatsoever arising wither directly or indirectly as a result of the use of the Town of Beaufort's facilities, park, road or other and in accordance with the provisions contained in this policy. I/We have read and understand this application, the event procedures and the requirements placed upon this applicant and organization. I agree to abide by the Town of Beaufort rules, regulations and ordinances.

Applicant's Signature Susan R Sanders Date 1.20.2022

Internal Use Only

Permission is granted to the applicant and/or sponsoring organization to use the streets/facilities/parks as listed in the application for the special event described.

Permit Issue Date: _____

Authorized Signature: _____

Insurance Certificate: Yes____ No ____

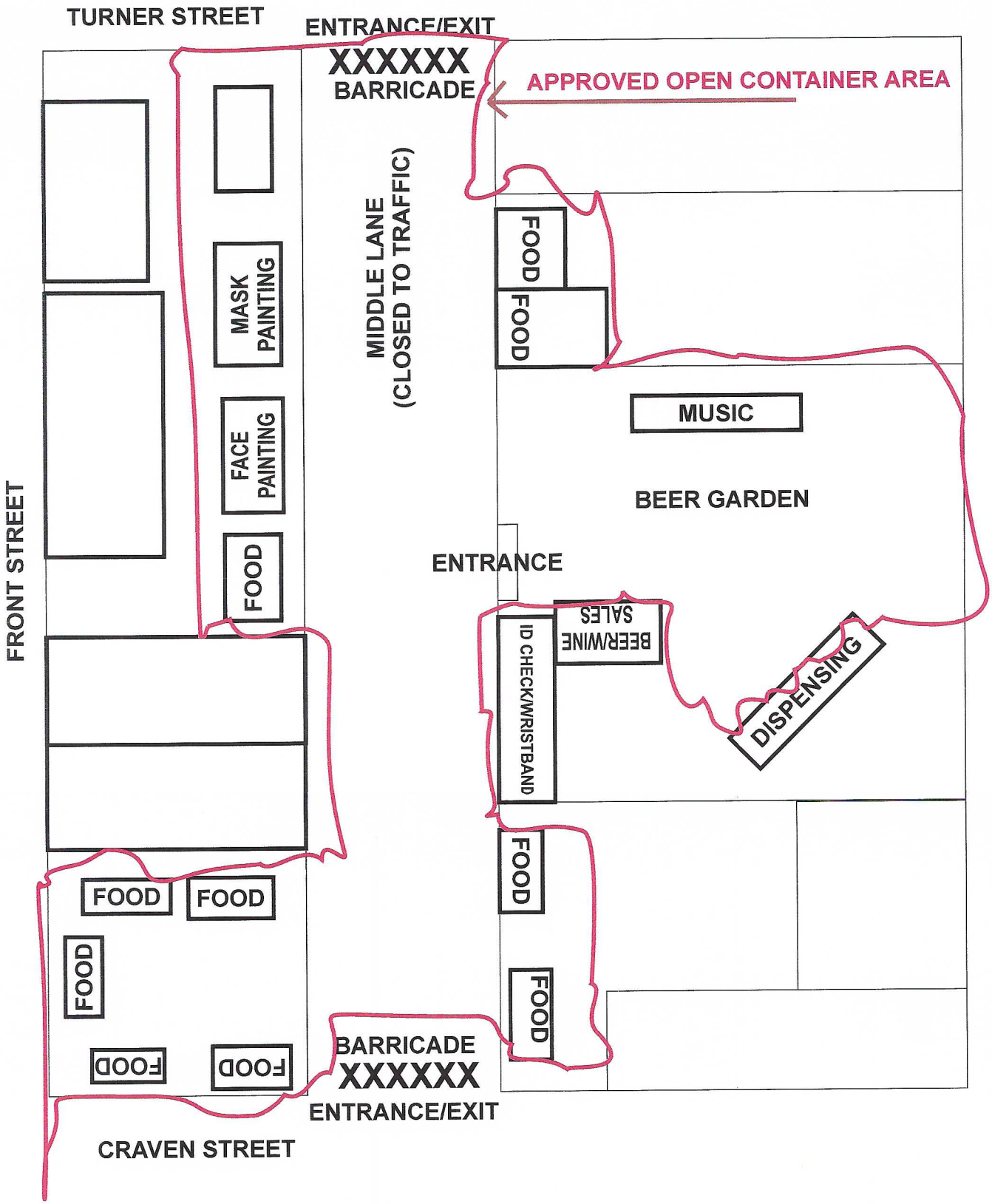
Permit Fee: Yes ____ No ____

BOC Approval Date: _____

Police Chief Approval: _____

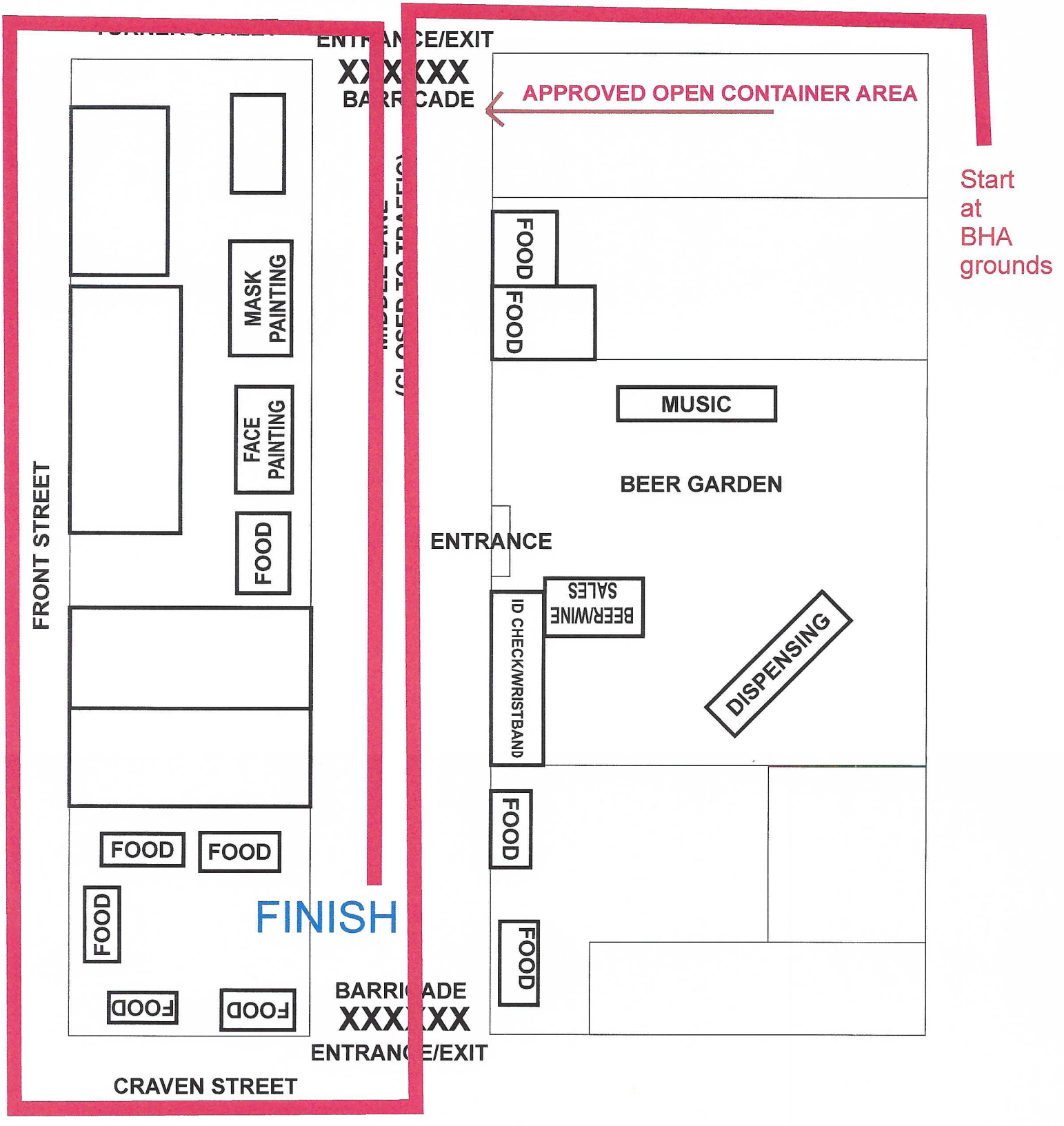
Fire Chief Approval: _____

Mardi Gras on Middle Lane
Saturday, February 26, 2022



Beaufort Development Association
PO Box 56
Beaufort, NC 28516

Mardi Gras Parade Route
Saturday, February 22, 2020



Beaufort Development Association
PO Box 56
Beaufort, NC 28516

Town of Beaufort, NC

701 Front St. - P.O. Box 390 - Beaufort, N.C. 28516
252-728-2141 - 252-728-3982 fax - www.beaufortnc.org

Board of Commissioners
Virtual Work Session
4:00 PM – Monday, Jan. 24, 2022

AGENDA CATEGORY: Items for Discussion and Consideration

SUBJECT: Wooden Boat Show

REQUESTED ACTION: Consider for Consent Agenda

SUBJECT:

The Maritime Museum of Beaufort has submitted a request to host the Annual Wooden Boat Show. The event request is for Saturday, May 7, 2022. The event would be from 8:00 AM to 5:00 PM with set-up beginning at 6:30 AM and dismantling by 6:00 PM. The event application request to close Front Street between Turner and Orange Street to all traffic from 6:30 AM- 6:30 PM on May 7th.

This event is hosted by the Friends of the Museum. The purpose of the road closure is for wooden boat displays and other activities.

EXPECTED LENGTH OF PRESENTATION: 5 minutes

SUBMITTED BY: Rachel Johnson, Events Coordinator

BUDGET AMENDMENT REQUIRED: No

Date Application Received:

Permit Number:

TOWN of BEAUFORT
NORTH CAROLINA

APPLICATION FOR SPECIAL EVENT PERMIT

Please return completed application form with permit fee and paperwork to:

Events Coordinator, Town of Beaufort
701 Front Street
P.O. Box 390
Beaufort, NC 28516
Phone: (252) 728-2141 Email: r.johnson@beaufortnc.org

Applications submitted late or incomplete may not receive approval and may not be issued a permit.

EVENT BASICS

Event Name: NC Maritime Museum Wooden Boat Show

Location of Event Site: NC Maritime Museum & Front Street

(If more than one site is being requested please be specific and list each one individually below)

Run by: _____

Applicant (Organizer) Name: Brent Creelman Contact # 2524226452

Day of Event Contact #: 2524226452 Email: brent@maritimefriends.

Type of Event:

- [x] Festival
- [ ] Parade
- [ ] 5K Race
- [ ] 10K Race

- ○ Music Event
- ○ Other _____

Actual Event Date(s): May 7, 2022 Time of Event: 10-4

Set-Up Date: May 7, 2022 Start Time: 6:30 AM

Tear Down Date: May 7, 2022 End Time: 6:00 PM

Estimated Attendance: 1000 Admission Fees: 0

Event Description:
DISPLAY OF WOOD BOATS, DEMONSTRATIONS, BOAT RIDES

ORGANIZER/APPLICANT INFORMATION

Name of Organization: FRIENDS OF THE MUSEUM

Primary Contact Person: BRENT CREELMAN

Mailing Address: 315 FRONT ST BEAUFORT

Email: brent@maritimefriends.org

Daytime Phone #: 252 728 2762 Cell Phone #: 252 422 6452

Alternate Contact Person: GRANT CANADAY Phone #: 910-934-3792

Is your group a non-profit organization? yes If yes, please provide documentation with your application.

SITE PLAN

Site Plan Attached

- ☒ Yes
- ○ No

(If you need help, please set up a meeting with the Town of Beaufort's Events Coordinator)

A detailed site plan must be included with your event application. The following, should they be relevant, must be included in your Site Plan.

- Location of all tents and temporary structures
- Location of requested barricades and road closures
- Emergency exits
- Fire extinguishers, propane storage
- Location of command post, medical & first aid station, emergency vehicle access points and all exits and entrances (both emergency and for the public)
- Fencing, staging, bleachers, stages, inflatables, etc.
- Food/refreshment tent vendors, refreshment tents
- Food Trucks
- Location of Restrooms
- 5K/10K race routes

If the Site Plan is not submitted with the event application, the deadline is 45 days before the event, otherwise a permit will not be issued.

PARKS & PARKING LOTS REQUESTED

Please mark all that apply:

- ○ East Parking Lot
- ○ West Parking Lot
- ○ Craven Street Parking
- ○ Middle Lane
- ○ John Newton Park
- ○ Lynn Eury Park
- ○ Grayden Paul Park
- ○ Topsail Marine Park
- ✓ Other Please list: FRONT STREET BETWEEN TURNER & ORANGE

Specific Requirements: (Extra trash cans/recycling/electrical etc.) Please be specific and include each item on the Site Plan for the desired location. Please note extra charges may apply in accordance to the fee schedule. (Trash/Recycling Carts: $10 each, Electricity: $50)

BARRICADES AT ORANGE & FRONT & TURNER & FRONT AND GATES TO ALLOW ACCESS TO THE PROPERTY WEST OF THE MUSEUM (307 FRONT)

OTHER EVENT DETAILS

Please provide the name and contact information of all outside companies who are providing services during your event. IE: Tent Rentals, Inflatable Rentals, Port-A-Pottie Rentals, etc.

NONE

Will there be canon/re-enactment fire during your event? NO If yes, please coordinate with the Beaufort Fire Department for safety procedures.

ALCOHOL

Alcohol at the event YES ____ NO X Attach all required paperwork. Applicant is responsible for obtaining applicable ABC License and Liquor Liability Insurance. Applicant must provide a clearly marked and contained area for alcohol consumption and hire two Town of Beaufort police officers at a rate of $35 per hour for the duration. (The Police Chief will review the application for exceptions.) All local, state and Federal laws must be adhered to.

I/we have read, understand and will comply with the rules outlined by the Town of Beaufort in the Town Code of Ordinances as well as in the Event Procedures.

X _____ *(Applicant's Signature)*

ROAD CLOSURES

Does your event require a road closure? X YES _____ NO

Please provide specifics below:

Road	Set-Up Time	Event Start Time	Finish Time	Tear Down Time
Front Street	6:30 AM	10 AM	4 PM	6 PM

If a road closure has any impact on area businesses and/or residents, the applicant will be required to inform all residents and/or businesses in the area of the road closure, by letter or hand-delivered flyer at least 14 days in advance of the event, of the particulars of the approved temporary road closure and any detour route available.

Emergency Vehicle Access Requirements: *A road may be closed to regular traffic during an event, but an unobstructed fire lane must be left open at all times for emergency vehicles.*

PARKING/PARKING LOTS

Parking lots required for Event set-up: (Please mark on the site map if applicable) (Please note charges may apply. The rate is $18 per day per space in the East & West parking lots and $9 per on street parking space per day for special event closure during Pay-To-Park season).

Please list all parking lots and spaces you are requesting. Spaces are numbered so please be specific. Also please note that parking space closures MUST be approved by the Board of Commissioners. Event organizers are not permitted to acquire additional spaces without Town permission prior to an event.

FRONT STREET BETWEEN CRAVEN & TURNER #s 173-183

Please list off-site Parking Location for Vendors & Event Staff: A letter of permission is required for the use of private property per the event procedures. Please include this with your event application.

BB&T LOT

Bicycle Parking: Yes X No _____

Additional Handicap Parking: Yes _____ No X Location: _____

Event Parking: (Please outline your plan for day of parking for event attendees. Please include parking lot locations and the name/contact information for any shuttle/trolley service):

NORMAL BEAUFORT PARKING

PARADE/WALK INFORMATION

_____

Parade Assembly Area: _____ Time: _____

Parade Dismissal Area: _____ Time: _____

Parade Start Time: _____

EMERGENCY MANAGEMENT

Route Map Attached: X YES _____ NO (Please note a route map is required) SEE SITE MAP

Designated Emergency personal/liaison (onsite): ERNEST CARAWAY

Cell #: 910-932-3792 Other Contact: _____

How will your event staff react to severe weather?
GATHER IN WATERCRAFT CENTER & MUSEUM

How will you alert visitors to the event to evacuate the site? (If multiple sites are being requested, a plan must be submitted for each location)
BULL HORN

RISK ASSESSMENT

It is important for Event Organizers to identify risks and hazards associated with their event and know how to prevent these risks. Please identify possible risks for your event and list below (weather, food, fire, etc.) Please provide details.
SEVERE WEATHER

What training will you provide to your volunteers/staff/participants regarding emergencies?
VOLUNTEER ORIENTATION

TENTS

Will you have tents at your event? _____YES __X__NO

Please list the tent sizes: N/A

If your event includes tents, you must make arrangements with the Beaufort Fire Department for a tent permit. There is a $50 fee. Please contact Tammy Turek at (252) 728-4325 to make arrangements. The Tent Permit Application and a list of requirements are available online at www.beaufortnc.org.

FOOD

Will there be food served at your event? _____YES __X__NO

If yes, please provide a detailed list of all food vendors.

If yes, have you contacted the Carteret County Health Department to set up inspections? _____YES _____NO

All food vendors must have proper licensing, inspections, etc.

VENDORS

Will there be vendors selling items at your event? X Yes _____ No

Please note vendors are only permitted to sell during the event hours listed on this application. Any vendor selling before or after the listed hours is in violation and subject to being shut-down.

All vendors must have proper certifications and licenses. They must display the required state sales and use tax information and the event organizer must keep all of this information on file pursuant to North Carolina State laws.

CHECKLIST

Please submit the following documents with your event application. Once all forms (if applicable) are received and the event is approved an Event Permit will be issued.

- ○ ~~Tent Permit~~
- ✓○ Detailed Site Plan
- ○ ~~Detailed Route Map (Parade/5K/10K)~~
- ✓○ Map of Road Closures
- ○ ~~ABC Permit~~
- ○ ~~Health Inspection Documentation~~
- ○ Insurance
- ○ Non-profit documentation
- ○ Private property parking permission letter
- ○ List of food vendors
- ○ List of vendors
- ○ Application Fee
- ○ Application Signature

I/We the event organizer Brent Creelman, on behalf of Maritime Museum, the party requesting the use of the Town of Beaufort facilities noted in the above application do hereby hold and save harmless and agree to indemnify the Town of Beaufort and its elected officials, directors, officers, employees, servants, agents, contractors and their respective heirs, executors, successors with respect to any and all liability, actions, debts, suits, demands, costs, damages and expenses whatsoever arising wither directly or indirectly as a result of the use of the Town of Beaufort's facilities, park, road or other and in accordance with the provisions contained in this policy. I/We have read and understand this application, the event procedures and the requirements placed upon this applicant and organization. I agree to abide by the Town of Beaufort rules, regulations and ordinances.

Applicant's Signature _____ Date 1/19/22

Internal Use Only

Permission is granted to the applicant and/or sponsoring organization to use the streets/facilities/parks as listed in the application for the special event described.

Permit Issue Date: _____

Authorized Signature: _____

Insurance Certificate: Yes____ No ____

Permit Fee: Yes ____ No ____

BOC Approval Date: _____

Police Chief Approval: _____

Fire Chief Approval: _____

Internal Revenue Service

Date: September 27, 2004

Friends of the Museum North Carolina Maritime
Museum, Inc.,
315 Front Street
Beaufort, NC 28516-2124

Department of the Treasury
P. O. Box 2508
Cincinnati, OH 45201

Person to Contact:
Jocie Bradshaw #31-02167
Customer Service Representative
Toll Free Telephone Number:
8:00 a.m. to 6:30 p.m. EST
877-829-5500
Fax Number:
513-263-3756
Federal Identification Number:
56-1278009

Dear Sir or Madam:

This is in response to your request of September 27, 2004, regarding your organization's tax-exempt status.

In February 1981 we issued a determination letter that recognized your organization as exempt from federal income tax. Our records indicate that your organization is currently exempt under section 501(c)(3) of the Internal Revenue Code.

Our records indicate that your organization is also classified as a public charity under sections 509(a)(1) and 170(b)(1)(A)(vi) of the Internal Revenue Code.

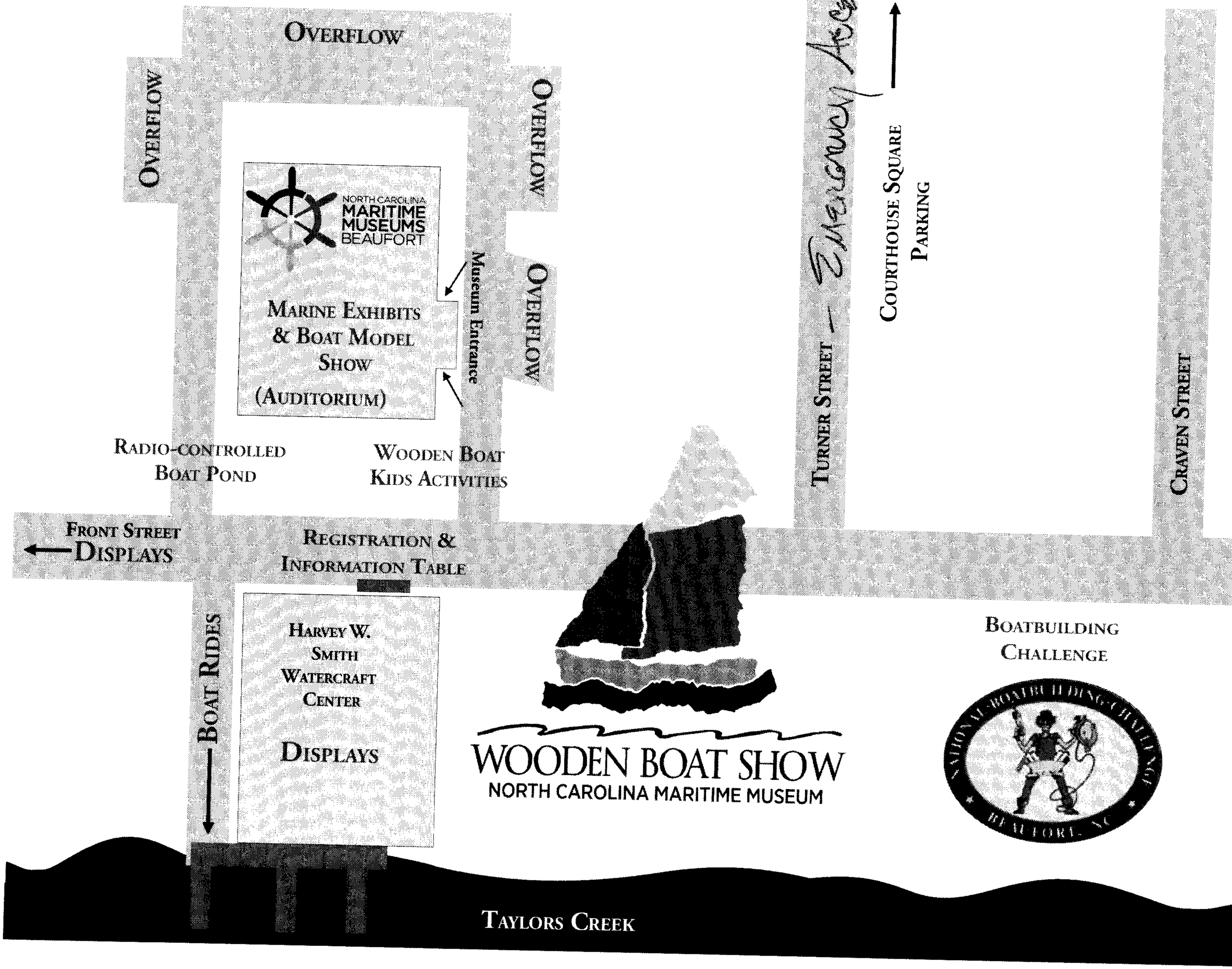
Our records indicate that contributions to your organization are deductible under section 170 of the Code, and that you are qualified to receive tax deductible bequests, devises, transfers or gifts under section 2055, 2106 or 2522 of the Internal Revenue Code.

If you have any questions, please call us at the telephone number shown in the heading of this letter.

Sincerely,

Janna K. Skufca

Janna K. Skufca, Director, TE/GE
Customer Account Services


Overflow
Overflow
Overflow
Overflow
North Carolina Maritime Museums Beaufort
Marine Exhibits & Boat Model Show (Auditorium)
Museum Entrance
Radio-controlled Boat Pond
Wooden Boat Kids Activities
Turner Street
Courthouse Square Parking
Craven Street
Front Street
Displays
Registration & Information Table
Boat Rides
Harvey W. Smith Watercraft Center
Displays
Boatbuilding Challenge
Wooden Boat Show
North Carolina Maritime Museum
Taylors Creek

Town of Beaufort, NC
701 Front St. - P.O. Box 390 - Beaufort, N.C. 28516
252-728-2141 - 252-728-3982 fax - www.beaufortnc.org

Board of Commissioners
Virtual Work Session Meeting
4:00 PM Monday, January 24, 2022

AGENDA CATEGORY: Items for Discussion and Consideration

SUBJECT: Historic Beaufort Road Race

BRIEF SUMMARY:

Event organizers for the Historic Beaufort Road Race run by the Beaufort Ole Towne Rotary have submitted an event application to host the annual event on Saturday, June 11, 2022.

The event requests the closure of roads and the use of John Newton Park. The event hours are 6:00 AM to 10:30 AM. The event organizers request the delay of paid parking until 10:30 AM. The event will require off duty officers to work at the for hire rate.

The following is an outline of the requests for the event:

* June 11, 2022

* Set-up 6 AM, Finished by 10:30 AM

* Request traditional 10K route – map attached

* Request Turner Street be closed from Middle Lane to Front Street from 6 -10 AM

* Request Front Street be closed from Orange to Queen Streets during race

* Request paid parking be suspended until 10:30 AM

* Event will provide volunteers to help supplement public safety personnel at intersections along Front Street

REQUESTED ACTION:

Consideration & Discussion- move to consent agenda for regular meeting.

EXPECTED LENGTH OF PRESENTATION:

5 Minutes

SUBMITTED BY:
Rachel Johnson, PIO/Parks & Events Coordinator

BUDGET AMENDMENT REQUIRED:
No

Date Application Received: 10.

Permit Number:

TOWN of BEAUFORT NORTH CAROLINA

APPLICATION FOR SPECIAL EVENT PERMIT

Please return completed application form with permit fee and paperwork to:

Events Coordinator, Town of Beaufort
701 Front Street
P.O. Box 390
Beaufort, NC 28516
Phone: (252) 728-2141 Email: r.johnson@beaufortnc.org

Applications submitted late or incomplete may not receive approval and may not be issued a permit.

EVENT BASICS

Event Name: Rotary Historic Beaufort Road Race

Location of Event Site: Front Street

(If more than one site is being requested please be specific and list each one individually below)

Racers will start and end at the corner of Front and Turner Street

Run by: Beaufort Ole Towne Rotary

Applicant (Organizer) Name: Christine Lamb Contact # 303-907-2735

Day of Event Contact #: Christine Lamb Email: info@beaufortoletownerotary.com

Type of Event:

- ○ Festival
- ○ Parade
- ● 5K Race
- ● 10K Race
- ● 1 mile race/walk

- Music Event
- Other _____

Actual Event Date(s): June 11, 2022 Time of Event: 6 am -10 am

Set-Up Date: June 11, 2022 Start Time: 6am

Tear Down Date: June 11, 2022 End Time: 10:30

Estimated Attendance: 500-600 Admission Fees: n/a

Event Description:
Charity Road Race 10K, 5K,Race, 1 mile walk

ORGANIZER/APPLICANT INFORMATION

Name of Organization: Beaufort Ole Towne Rotary

Primary Contact Person: Christine Lamb

Mailing Address: PO Box 737, Beaufort, NC 28516

Email: info@beaufortoletownerotary.com

Daytime Phone #: 303-907-2735 Cell Phone #: 303-907-2735

Alternate Contact Person: _____ Phone #: _____

Is your group a non-profit organization? yes If yes, please provide documentation with your application.

SITE PLAN

Site Plan Attached

- ● Yes
- ○ No
  (If you need help, please set up a meeting with the Town of Beaufort's Events Coordinator)

A detailed site plan must be included with your event application. The following, should they be relevant, must be included in your Site Plan.

- Location of all tents and temporary structures
- Location of requested barricades and road closures
- Emergency exits
- Fire extinguishers, propane storage
- Location of command post, medical & first aid station, emergency vehicle access points and all exits and entrances (both emergency and for the public)
- Fencing, staging, bleachers, stages, inflatables, etc.
- Food/refreshment tent vendors, refreshment tents
- Food Trucks
- Location of Restrooms
- 5K/10K race routes

If the Site Plan is not submitted with the event application, the deadline is 45 days before the event, otherwise a permit will not be issued.

PARKS & PARKING LOTS REQUESTED

Please mark all that apply:

- ○ East Parking Lot
- ○ West Parking Lot
- ○ Craven Street Parking
- ○ Middle Lane
- ● John Newton Park
- ○ Lynn Eury Park
- ○ Grayden Paul Park
- ○ Topsail Marine Park
- ○ Other Please list: _____

Specific Requirements: (Extra trash cans/recycling/electrical etc.) Please be specific and include each item on the Site Plan for the desired location. Please note extra charges may apply in accordance to the fee schedule. (Trash/Recycling Carts: $10 each, Electricity: $50)

Trash cans X 2 ($20)
Recycle cans X 2 ($20)
Electricity ($50)

OTHER EVENT DETAILS

Please provide the name and contact information of all outside companies who are providing services during your event. IE: Tent Rentals, Inflatable Rentals, Port-A-Pottie Rentals, etc.

Run the East (race management) Jamie Orr 252-902-9717
Port A Pottie Rentals - Blu site solutions (800) 682-7023

Will there be canon/re-enactment fire during your event? N/A If yes, please coordinate with the Beaufort Fire Department for safety procedures.

ALCOHOL

Alcohol at the event YES_____NO_X__ Attach all required paperwork. Applicant is responsible for obtaining applicable ABC License and Liquor Liability Insurance. Applicant must provide a clearly marked and contained area for alcohol consumption and hire two Town of Beaufort police officers at a rate of $35 per hour for the duration. (The Police Chief will review the application for exceptions.) All local, state and Federal laws must be adhered to.
I/we have read, understand and will comply with the rules outlined by the Town of Beaufort in the Town Code of Ordinances as well as in the Event Procedures.

X_____(Applicant's Signature)

ROAD CLOSURES

Does your event require a road closure? X YES _____NO

Please provide specifics below:

Road	Set-Up Time	Event Start Time	Finish Time	Tear Down Time
Turner Street	6 am	7:30 am	10:00 am	10:30 am
Front Street	6 am	7:30 am	10 AM	10:30 am
Turner Street Bridge	**(Week before the race**	**lighted sign warning town**	**residents and visitors of**	Racers on Turner and
	Broad due to high traffic	**In this area during the**	**Farmers Market)**	

If a road closure has any impact on area businesses and/or residents, the applicant will be required to inform all residents and/or businesses in the area of the road closure, by letter or hand-delivered flyer at least 14 days in advance of the event, of the particulars of the approved temporary road closure and any detour route available.

Emergency Vehicle Access Requirements*: A road may be closed to regular traffic during an event, but an unobstructed fire lane must be left open at all times for emergency vehicles.*

PARKING/PARKING LOTS

Parking lots required for Event set-up: (Please mark on the site map if applicable) (Please note charges may apply. The rate is $18 per day per space in the East & West parking lots and $9 per on street parking space per day for special event closure during Pay-To-Park season).

Please list all parking lots and spaces you are requesting. Spaces are numbered so please be specific. Also please note that parking space closures MUST be approved by the Board of Commissioners. Event organizers are not permitted to acquire additional spaces without Town permission prior to an event.

We are requesting town parking fees collection be delayed until 10:30 am the day of the race.

Please list off-site Parking Location for Vendors & Event Staff: A letter of permission is required for the use of private property per the event procedures. Please include this with your event application.

N/A

Bicycle Parking: Yes_____No __x_____

Additional Handicap Parking: Yes_____No___x_____Location: _____

Event Parking: (Please outline your plan for day of parking for event attendees. Please include parking lot locations and the name/contact information for any shuttle/trolley service):

Event participants will park on Turner Street, Ann Street and side streets adjacent to Front Street

PARADE/WALK INFORMATION

Parade Assembly Area:_____ Time: _____

Parade Dismissal Area:_____ Time: _____

Parade Start Time: _____

EMERGENCY MANAGEMENT

Route Map Attached: __X__ YES _____ NO (Please note a route map is required)

Designated Emergency personal/liaison (onsite): Christine Lamb

Cell #: 303-907-2735 Other Contact: _____

How will your event staff react to severe weather?
Event will be canceled or delayed in the event of severe weather

How will you alert visitors to the event to evacuate the site? (If multiple sites are being requested, a plan must be submitted for each location)
Local announcement via megaphone or by email prior to event date

RISK ASSESSMENT

It is important for Event Organizers to identify risks and hazards associated with their event and know how to prevent these risks. Please identify possible risks for your event and list below (weather, food, fire, etc.) Please provide details.
Primary risks: Extreme hazardous weather
Participants Medical Emergencies

What training will you provide to your volunteers/staff/participants regarding emergencies?
Volunteers have years of experience new volunteers will receive training prior to event.

TENTS

Will you have tents at your event?_____YES _X_____NO

Please list the tent sizes: _____
If your event includes tents, you must make arrangements with the Beaufort Fire Department for a tent permit. There is a $50 fee. Please contact Tammy Turek at (252) 728-4325 to make arrangements. The Tent Permit Application and a list of requirements are available online at www.beaufortnc.org.

FOOD

Will there be food served at your event?_____YES X_____NO

If yes, please provide a detailed list of all food vendors.

If yes, have you contacted the Carteret County Health Department to set up inspections?_____YES_____NO

All food vendors must have proper licensing, inspections, etc.

VENDORS

Will there be vendors selling items at your event?_____Yes __X_____No

Please note vendors are only permitted to sell during the event hours listed on this application. Any vendor selling before or after the listed hours is in violation and subject to being shut-down.

All vendors must have proper certifications and licenses. They must display the required state sales and use tax information and the event organizer must keep all of this information on file pursuant to North Carolina State laws.

CHECKLIST

Please submit the following documents with your event application. Once all forms (if applicable) are received and the event is approved an Event Permit will be issued.

- ○ Tent Permit
- ● Detailed Site Plan
- ● Detailed Route Map (Parade/5K/10K)
- ○ Map of Road Closures
- ○ ABC Permit
- ○ Health Inspection Documentation
- ● Insurance
- ● Non-profit documentation
- ○ Private property parking permission letter
- ○ List of food vendors
- ○ List of vendors
- ● Application Fee
- ● Application Signature

I/We the event organizer __Christine Lamb_____, on behalf of Beaufort Ole Towne Rotary_____, the party requesting the use of the Town of Beaufort facilities noted in the above application do hereby hold and save harmless and agree to indemnify the Town of Beaufort and its elected officials, directors, officers, employees, servants, agents, contractors and their respective heirs, executors, successors with respect to any and all liability, actions, debts, suits, demands, costs, damages and expenses whatsoever arising wither directly or indirectly as a result of the use of the Town of Beaufort's facilities, park, road or other and in accordance with the provisions contained in this policy. I/We have read and understand this application, the event procedures and the requirements placed upon this applicant and organization. I agree to abide by the Town of Beaufort rules, regulations and ordinances.

Applicant's Signature Christine Lamb Date 12/30/2021

Internal Use Only

Permission is granted to the applicant and/or sponsoring organization to use the streets/facilities/parks as listed in the application for the special event described.

Permit Issue Date: _____

Authorized Signature: _____

Insurance Certificate: Yes____No_____

Permit Fee: Yes ____ No ____

BOC Approval Date: _____

Police Chief Approval: _____

Fire Chief Approval:_____

Beaufort Waterfront 1 Mile 2019

Beaufort, NC

Brandon Wilson

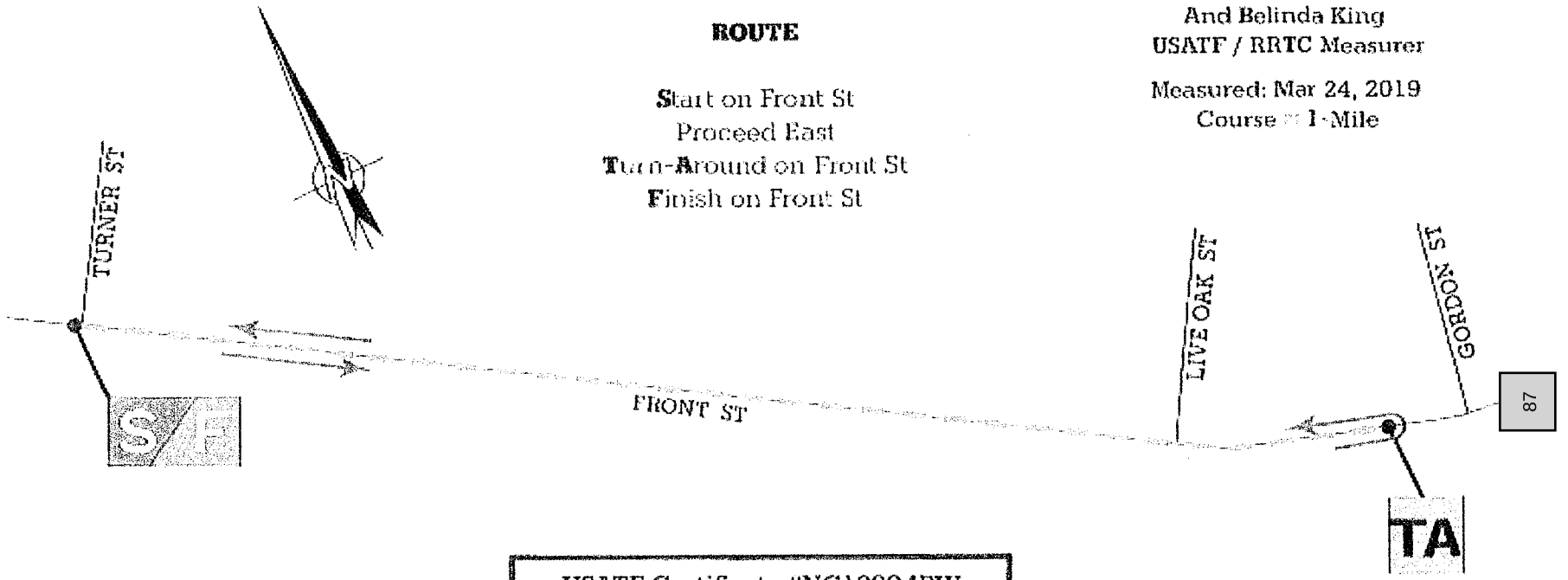
Measured By: Brandon Wilson
USATF / RRTC Certifier
IAAF / AIMS Grade A

And Belinda King
USATF / RRTC Measurer

Measured: Mar 24, 2019
Course = 1-Mile

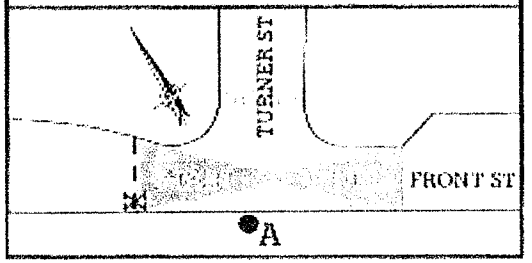
ROUTE

Start on Front St
Proceed East
Turn-Around on Front St
Finish on Front St



START FINISH DETAIL

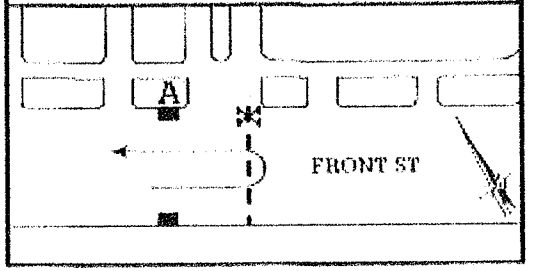
The Start/Finish are collocated on Front St and form an imaginary line perpendicular to the roadway intersecting a mag nail and washer ("X"). The nail is 43' 10" West of Duke Energy Light Pole# N9D80 ("A") at the intersection of Turner St and Front St



USATF Certificate #NC19004BW
Effective Apr 2, 2019 to Dec 31, 2029

TURN-AROUND DETAIL

The 1-Mile Turn-Around (TA) is located on Front St marked with a mag nail and washer ("X") at the northen road edge and is 23' 8" East of the iron storm drain ("A") in front of 917 Front St



Beaufort Waterfront 10k 2019

Beaufort, NC

SPLITS
Mile 1 - At 1506 Front St
Mile 2 - 30' East of mailbox# 2505 Front St
Mile 3 - On Ocean St 40' South of Village Ln
Mile 4 - On Broad St 140' East of Pollock St
Mile 5 - At Intersection of Ann St and Marsh St
Mile 6 - on Front St 130' West of Pollock St

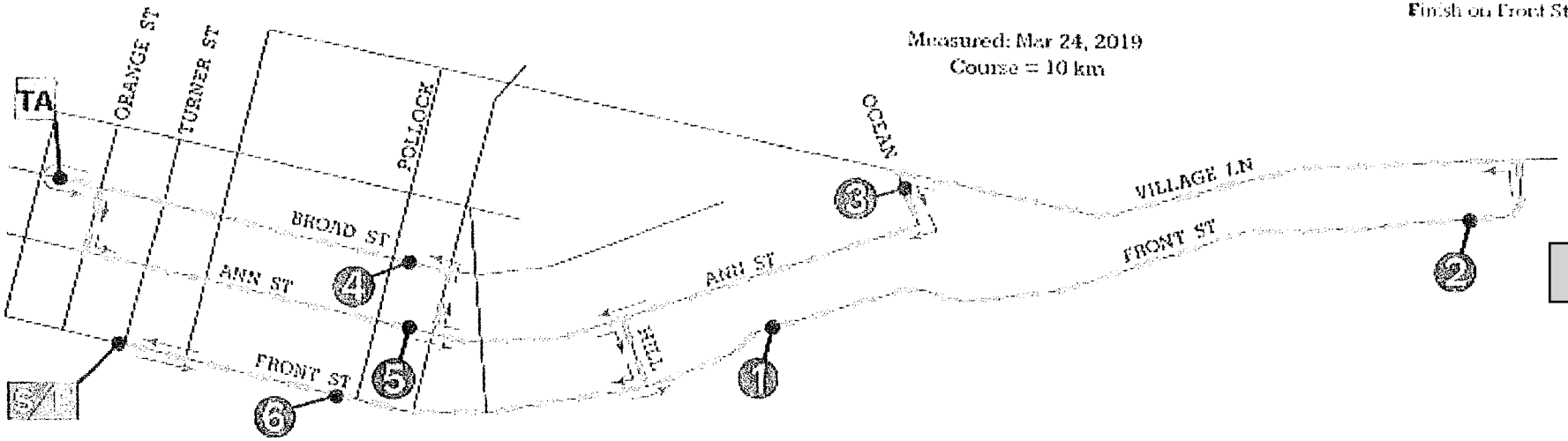
Brandon Wilson

Measured By: Brandon Wilson
USATF / RRTC Certifier
IAAF / AIMS Grade A

And Belinda King
USATF / RRTC Measurer

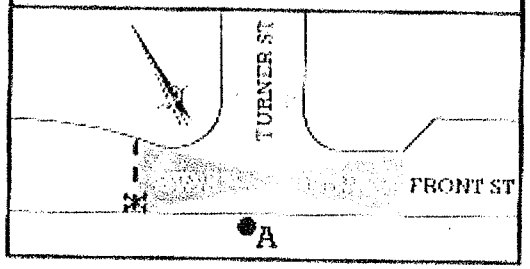
Measured: Mar 24, 2019
Course = 10 km

ROUTE
Start on Front St
Proceed East
Left on Village Ln
Left on Ocean
Right on Ann
Right on Live Oak
Left on Broad
Turn-Around on Broad
Right on Orange
Left on Ann
Right on Hill
Right on Front St
Finish on Front St



START FINISH DETAIL

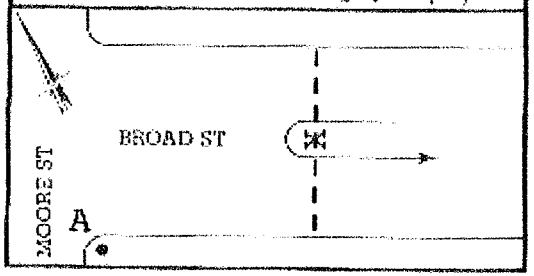
The Start/Finish are collocated on Front St and form an imaginary line perpendicular to the roadway intersecting a mag nail and washer ('X'). The nail is 43' 10" West of Duke Energy Light Pole# N9D80 ('A') at the intersection of Turner St and Front St



USATF Certificate #NC19006BW
Effective Apr 2, 2019 to Dec 31, 2029

TURN-AROUND DETAIL

The Turn-Around ('TA') is located on Broad St marked with a mag nail and washer ('X') center roadway and is 62' East of the Broad / Moore Street Sign post ('A')



Historic Beaufort Road Race 5k

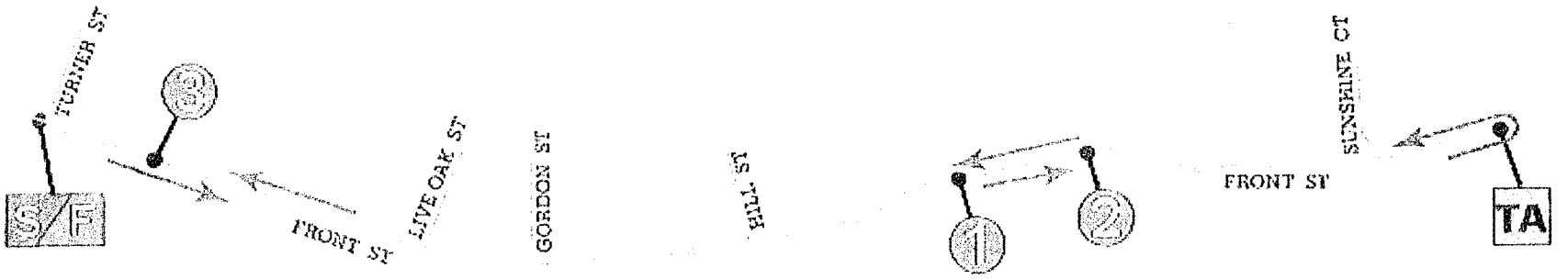
Brandon Wilson
Measured By: Brandon Wilson
USATF / RRTC Certifier
IAAF / AIMS Grade A

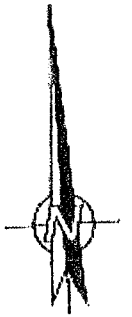
And Belinda King
USATF / RRTC Measurer

Measured: Mar 24, 2019
Course = 5km

ROUTE

Start on Front St
Proceed East
Turn-**A**round on Front St
Finish on Front St





USATF
NC19005BW

Run The East

Town of Beaufort, NC

701 Front St. - P.O. Box 390 - Beaufort, N.C. 28516
252-728-2141 - 252-728-3982 fax - www.beaufortnc.org

Board of Commissioners
Virtual Work Session
4:00 PM – Monday, Jan. 24, 2022

AGENDA CATEGORY: Items for Discussion and Consideration

SUBJECT: Update Golf Cart on Public Streets Ordinance

REQUESTED ACTION: Adopt updated Golf Cart Ordinance, Sections: 73.04, 73.05, 73.06, and 73.99**.** Updated sections reference an annual inspection and registration fee as well as align TOB requirements with state statutes regulating the operation of golf carts. Recommend being placed under items of consent.

EXPECTED LENGTH OF PRESENTATION: 5 minutes

SUBMITTED BY: Chief Burdette, Police Dept.

BUDGET AMENDMENT REQUIRED: No

Sec. 73.04 - Registration and permit requirements.

(A) *Registration and permit required.* No golf cart may be operated on any public street, road, or highway within the town or on any property owned or leased by the town unless the golf cart has first been registered with the town and permitted as required herein. The registration and permit shall be renewed annually thereafter in accordance with the provisions of this chapter.

(B) *Application and permit.* The owner shall complete an application provided by the town and the golf cart shall be inspected by designated town staff for compliance with the provision of this chapter prior to the issuance of an annual permit. To evidence the registration, the owner shall be issued a unique license plate and annual registration decal which shall be displayed on the rear of the golf cart. The Board of Commissioners may establish, and amend from time to time, an annual registration fee for golf carts.

(C) *Basic requirements.* In order to register a golf cart and secure an annual permit, the owner and golf cart must meet the following basic requirements:

(1) All golf cart operators must be at least 16 years old and possess a valid driver's license. A golf cart may be operated without a valid driver's license by a driver or operator 18 years of age or older with a medical or physical condition that prevents that individual from being able to obtain a valid North Carolina driver's license but which would not prevent the safe operation of a golf cart, provided further such medical or physical condition must be evidenced by a certification from a licensed health professional attesting to such medical or physical condition and stating that same would not prevent the safe operation of a golf cart. Any driver or operator that is exempt from the requirement of a valid North Carolina license must still present and have on record and while operating a golf cart, a valid North Carolina Identification card.

(2) The owner must possess and maintain liability insurance in an amount not less than required by North Carolina law for traditional motor vehicles operated on a public highway in North Carolina;

(3) The golf cart must be registered to a physical address in Beaufort;

(4) The golf cart must not have been modified to exceed a speed of 20 mph; and

(5) The golf cart must have an identifiable identification number.

(D) *Required safety features.* In order to register a golf cart and secure an annual permit, a golf cart must have the following safety features installed:

(1) Two operating front headlights, visible from a distance of at least 250 feet;

(2) Two operating tail lights, with brake lights and turn signals, visible from a distance of at least 250 feet;

(3) A rear vision mirror;

(4) At least one reflector per side;

(5) A parking brake;

(6) Seat belts for all seating positions on the golf cart;

(7) A windshield; and

(8) Must be limited to a maximum of three rows of seats.

(E) *Inspection.* Prior to the issuance or renewal of an annual permit, designated town staff shall inspect the golf cart for compliance with the requirements of this chapter. No golf cart shall be registered and permitted unless if it in compliance with all requirements.

(F) *Acknowledgment.* Prior to issuance of an initial permit or annual renewal, the owner shall sign an acknowledgment that he/she has read and understands the provisions of this chapter.

(G) *Disqualified vehicles.* All-terrain vehicles, 4-wheel utility vehicles, go-karts, and other similar utility vehicles which are not manufactured for operation on a golf course, and/or a golf cart which has been modified so that it no longer meets the definition of golf cart may not be registered as a golf cart under this chapter or shall such vehicles be operated on the public roads, streets and highways within the town, unless such vehicles are registered and permitted under the motor vehicle laws of North Carolina.

Sec. 73.05 - Standards of operation.

It is unlawful to operate a golf cart on a public street, road or highway within the town unless the following requirements are met:

(A) A golf cart must display in a visible location on the rear of the golf cart a valid town-issued golf cart license plate and a current annual registration decal

(B) A golf cart may be operated on all public streets and roads in Beaufort, with the exception of Highway 70, Highway 101, Live Oak St north of Cedar Street, Carraway Drive and Turner Street north of Pine Street.

(C) Any person who operates a golf cart shall comply with § 73.04(C)(1). The driver and passengers must be properly seated while the golf cart is in motion, with seat belts properly fastened and may not be transported in a negligent manner. The seating capacity with seat belts shall not be exceeded. Age and weight appropriate child passenger restraint systems must be used when transporting a child of less than 8 years of age.

(D) No golf cart may be operated at a speed greater than reasonable and prudent for the existing conditions, and in no instance at a speed greater than 20 miles per hour.

(E) No golf cart may be operated in a careless or reckless manner.

(F) Golf carts must be operated in accordance with all applicable state and local traffic laws and ordinances, including all laws, regulations and ordinances pertaining to the possession and consumption of alcoholic beverages.

(G) Golf carts are subject to the same parking regulations as traditional motor vehicles, and may only be parked in the same manner and in the same places designated for the parking of golf carts and traditional motor vehicles.

(H) Golf carts are permitted to park in all parking spaces provided. The town encourages the use of one parking space for two golf carts.

(I) Golf carts may only park in handicapped spaces if the driver has a valid handicapped placard or sticker and the same is clearly posted or displayed in the golf cart.

(J) Golf carts may not be used for the purpose of towing another cart, trailer or vehicle of any kind, including a person on roller skates, skateboard, or bicycle.

(K) The possession of open containers of alcohol and/or consumption of alcohol by the driver and/or passengers of a golf cart is prohibited.

(L) The operator of a golf cart shall yield the right-of-way to traditional motor vehicles.

(M) Golf carts may not be operated on any sidewalk.

Sec. 73.06 – Regulation of golf cart rentals

If any individual or legal entity is engaged in the rental of golf carts, such individual or legal entity shall:

(A) Provide a legible copy of § 73.04 (C)(1) and § 73.05 of this chapter to any person renting a golf cart at the time of rental.

(B) Require the person renting the golf cart to sign an acknowledgement of receipt of a copy of § 73.04 (C)(1) and § 73.05 of this chapter at the time of rental.

(C) Maintain, for at least a period of one year, copies of all such acknowledgements of receipt, which are subject to inspection at reasonable times by the town. Such acknowledgements may be incorporated into the customer rental agreement.

Sec. 73.99 - Penalties and remedies

(A) Any person violating the motor vehicle laws of North Carolina, which shall also apply to golf carts registered under this chapter, shall be subject to the penalties prescribed in North Carolina law for said violation.

(B) Any person who knowingly allows an underage driver to operate a golf cart shall be charged and subject to the penalties prescribed in North Carolina law for contributing to the delinquency of a minor.

(C) Any person violating the provisions of this chapter or failing to comply with any of its requirements shall be required to pay a civil violation in the amount of $50.00.

(D) Any person violating the town's parking ordinances shall be subject to the penalties outlined for parking violations.

(E) Operating a golf cart under the influence of an impairing substance (such as alcohol or drugs) on a public street or road is a violation of North Carolina law, and is punishable as provided therein.

(F) The town may refuse to register and issue a permit for the operation of a golf cart, or may revoke a previously issued permit, if the registered golf cart and/or the owner of the golf cart is involved in three or more violations of this chapter and/or violations of North Carolina law within a three-year time period. The revocation and/or denial of a permit shall be effective for one year.

(G) The town may refuse to register and issue a permit for the operation of a golf cart, or may immediately revoke a previously issued permit, if the registered golf cart and/or the owner of the golf cart is charged with operating a golf cart under the influence of an impairing substance, aiding and abetting the operation of the golf cart under the influence of an impairing substance, or operating a golf cart in a careless and reckless manner. Said revocation and/or denial of a permit shall be effective for one year, unless the charge is dismissed or the owner and/or operator is acquitted, in which event the permit shall either be immediately reinstated or the application for the permit shall be approved if the conditions of the ordinance have been met.

Town of Beaufort, NC

701 Front St. - P.O. Box 390 - Beaufort, N.C. 28516
252-728-2141 - 252-728-3982 fax - www.beaufortnc.org

Board of Commissioners
Virtual Work Session
4:00 PM – Monday, Jan. 24, 2022

AGENDA CATEGORY: Items for Discussion and Consideration

SUBJECT: Volunteer Board, Commission & Committee Appointments

SUMMARY: The current vacancies are as follows: Planning Board (1); Board of Adjustment (2); Historic Preservation Commission (4); Beaufort Harbor and Waterways Master Plan Advisory Committee (1); Parks & Recreation Advisory Board (1)

A list of current applicants is attached, this will be updated as new applications are received through January 31, 2022 which is the posted deadline for submission. Detailed applications will be provided for review prior to the February 14, 2022 meeting.

REQUESTED ACTION: Add to Items for Discussion and Consideration for the February 14, 2022 Board of Commissioners Regular Meeting.

EXPECTED LENGTH OF PRESENTATION:

5 minutes

SUBMITTED BY:

Elizabeth Lewis, Town Clerk

BUDGET AMENDMENT REQUIRED:

No

Applicant	Volunteer Board/Commission/Committee	Re-Appointment or New
Becky Bowler	Beaufort Waterways Master Plan Advisory Committee	New
Norris Cotton	Beaufort Waterways Master Plan Advisory Committee	New
Barry Evans	Beaufort Waterways Master Plan Advisory Committee	New
Paula Gillikin	Beaufort Waterways Master Plan Advisory Committee	New
Tammy Hunsucker	Beaufort Waterways Master Plan Advisory Committee	New
Howard Paul	Beaufort Waterways Master Plan Advisory Committee	New
Susan Schmidt	Beaufort Waterways Master Plan Advisory Committee	New
Hal Snyder	Beaufort Waterways Master Plan Advisory Committee	New
Bob Shores	Beaufort Waterways Master Plan Advisory Committee	New
George Stanziale	Beaufort Waterways Master Plan Advisory Committee	New
Dianne Tetreault	Beaufort Waterways Master Plan Advisory Committee	New
Doug Williams	Beaufort Waterways Master Plan Advisory Committee	New
Ann Carter	Board of Adjustment	New
Sandy Grotheer	Board of Adjustment	New
Wendi Oliver	Board of Adjustment	Re-Appointment
Bradley Hedrick	Historic Preservation	New
Ian Huckabee	Historic Preservation	Re-Appointment
Joyce McCune	Historic Preservation	Re-Appointment
Charlie Davis	Parks & Recreation Advisory Board	New
Rebecca Drohan	Parks & Recreation Advisory Board	New
Michael Rave	Parks & Recreation Advisory Board	Re-Appointment
Meg Risser	Parks & Recreation Advisory Board	New
Doug Williams	Parks & Recreation Advisory Board	New
Jamie Clark	Planning Board	New
Charlie Deaton	Planning Board	New
Tammy Hunsucker	Planning Board	New
Diane Meelheim	Planning Board	Re-Appointment

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Board of Commissioners
Virtual Work Session Meeting
4:00 PM Monday, January 24, 2022

AGENDA CATEGORY: Items for Discussion and Consideration

SUBJECT: Wastewater Asset Management Plan

BRIEF SUMMARY:

The Town of Beaufort was awarded a grant by the North Carolina Division of Water Infrastructure via the Asset Inventory and Assessment grant program. This grant facilitated the recent completion of a Wastewater Asset Management Plan (WWAMP). The WWAMP is intended to help facilitate the proper operation and maintenance of wastewater collection and transmission assets, so that they provide the required level of service for present and future customers in a sustainable and cost-effective manner. To this end, the completed WWAMP provides: 1) an inventory of collection and transmission system assets; 2) an assessment as to the conditions of those assets; and 3) a ranking of the assets according to their criticality. Lastly, the WWAMP includes a recommended 1O-year Capital Improvements Plan that was developed based upon the information inventoried, the assessment, and the rankings. The result is a document for use as a system management tool, a planning tool during the Town's annual budgeting process, and as an aid when applying for various funding opportunities.

Town staff recommends that the Board of Commissioners consider adopting the WWAMP as a planning document. Accordingly, an overview of the WWAMP will be provided during the work session so that the Commissioners will have this information together with the full WWAMP document prior to the request for adoption of the WWAMP during the February 14, 2022 regular meeting.

REQUESTED ACTION:

Adoption of the Wastewater Asset Management Plan

EXPECTED LENGTH OF PRESENTATION:

30 minutes

SUBMITTED BY:

Greg Meshaw, Public Services Director/Town Engineer

BUDGET AMENDMENT REQUIRED:

No

RESOLUTION OF THE TOWN OF BEAUFORT
ADOPTING A WASTEWATER ASSET MANAGEMENT PLAN
RESOLUTION NO. 22-001

WHEREAS, asset management is a process water and wastewater utilities can use to make sure that planned maintenance can be conducted and capital assets (pumps, motors, pipes, etc.) can be repaired, replaced, or upgraded on time and that there is sufficient funding for it; and

WHEREAS, asset management is the practice of managing infrastructure capital assets to minimize the total cost of owning and operating these assets while delivering the desired service levels; and

WHEREAS, the Town of Beaufort desires to utilize asset management to pursue and achieve sustainable infrastructure and to develop a high-performing asset management program to include detailed asset inventories, operation and maintenance tasks, and long-range financial planning; and

WHEREAS, the development of an asset management plan with good data-including asset attributes (e.g., age, condition, and criticality), life-cycle costing, proactive operations and maintenance, and capital replacement plans based on cost-benefit analyses-can be the most efficient method of meeting this challenge; and

WHEREAS, an asset management plan for the Town's wastewater collection and transmission system was developed by engineering professionals in conjunction with Town staff as evidenced by the Wastewater Asset management Plan ("WWAMP") attached hereto; and

WHEREAS, the Board of Commissioners desires to formally adopt the WWAMP as a planning document for use in maximizing the life expectancy of the Town's capital assets and to also plan and budget for system upgrades, maintenance and repair as may be needed in the future in order to provide the rate payers of Beaufort with a system that performs efficiently from both and operations and financial perspective.

NOW THEREFORE BE IT RESOLVED by the Commissioners of the Town of Beaufort that the Wastewater Asset Management Plan attached hereto is hereby formally adopted.

Adopted this _____ day of _____, 2022

_____
Sharon Harker, Mayor

_____
Elizabeth Lewis, Town Clerk

Wastewater Asset Management Plan

for

Town of Beaufort, N.C.

December 2021
Rivers and Associates, Inc.
Project No. 2018042

TOWN OF BEAUFORT

WASTEWATER ASSET MANAGEMENT PLAN

BEAUFORT, NORTH CAROLINA

Prepared By:

RIVERS & ASSOCIATES, INC.
Engineers/Planners/Surveyors/Landscape Architects
107 East Second Street
Greenville, North Carolina 27858

Rivers Firm License No. F-0334

December 2021

NORTH CAROLINA PROFESSIONAL SEAL 12836 ENGINEER SCOTT P.M. GODEFROY

Scott P.M. Godefroy, P.E.
Project Manager
Date: 12/20/2021

Stephen Reece, E.I.
Design Engineer II
Date: 12/20/21

TOWN OF BEAUFORT
WASTEWATER ASSET MANAGEMENT PLAN

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K 10-Year CIP Matrix

ACKNOWLEDGEMENTS

The preparation of this Plan would not have been possible without the valuable contribution of the Town of Beaufort's Internal Asset Management Team and other Town Staff. The following staff members were key contributors to the development of this Plan:

Town Manager	John Day
Town Engineer	Greg Meshaw
Assistant Town Engineer	Sam Bell
Public Utilities Director (ORC)	Donovan Willis
Water Department Operator/GIS Analyst	Wade Keeler
Sewer Line Maintenance Supervisor	Elbert Godette
Finance Director	Christi Wood

The preparation of this Plan was funded by a grant from the North Carolina Department of Environmental Quality, Division of Water Infrastructure.

EXECUTIVE SUMMARY

The overall objective of asset management planning is to: ***Help facilitate delivery of the required level of service to existing and future customers in a sustainable and cost-effective manner.***

The purpose of the Town of Beaufort's Wastewater Asset Management Plan is to ensure that assets are operated and maintained, so they provide the required level of service for present and future customers in a sustainable and cost-effective manner.

This plan provides the documentation and support for a 10-year budget forecast for wastewater collection and pumping system assets. Going forward, the Town should consider implementing a continuous improvement approach to asset management planning. The Wastewater Asset Management Plan should be reviewed annually for necessary modifications in support of the Town's Capital Improvement Plan (CIP).

The Town of Beaufort owns and operates a sanitary sewer collection system which has approximately 3,626 connections. The Public Utilities Department operates and maintains the sewer collection system consisting of approximately 33.2 miles of gravity piping (4" to 24" mains), approximately 26.3 miles of 1.5" to 18" force mains, twenty-five (25) pump stations, and a 1.5 million gallon per day wastewater treatment (WWTP) facility.

The intent of asset management is to ensure the long-term sustainability of the wastewater utility. By assisting Town management to make better decisions on when it is most appropriate to repair, replace, or rehabilitate particular assets and by developing a long-term funding strategy, the Town can ensure its ability to deliver the required level of service perpetually.

The following basic approach was applied to asset management plan development.

1. Inventory Assets – Catalog the sewers pump stations and collection system equipment.

2. Assess Condition of Assets – Determine which assets need repairs, rehabilitation, and replacement.

3. Rank & Prioritize Needs – Assess the 'criticality' of the assets by looking at the risk and consequence of failure.

4. Capital Improvement Plan – Establish an equipment repair, replacement, and upgrade schedule.

The overall condition of the wastewater collection system is considered to be fair. Current inspection and maintenance activities identify potential areas of concern and allow the Town to proactively remedy problems before they become severe and threaten the operation and efficiency of the system.

However, due to the age of portions of the collection system piping and some pump stations, there will likely be issues in the near future that could impact the collection systems ability to operate efficiently. Continued daily monitoring and inspections will help identify potential problems and rehabilitation or replacement activities that will allow for continued operation of the system.



The Town of Beaufort's twenty-five (25) sewage pump stations are considered to be in fair condition. Findings from inspections indicate that most pump stations only have various minor defects. Town staff routinely inspect pump stations, make repairs, and perform motor and pump replacements as necessary. Regular re-coating keeps rusting of equipment from becoming severe.

The Town of Beaufort's approximately 26.3 miles of pressurized sewer force mains are considered to be in good condition, but the precise condition of individual pipelines is unknown as these assets are buried and rarely uncovered.

The Town of Beaufort's approximately 830 sewer manholes are considered to be in fair condition overall. This assessment is based on inspections of manholes conducted by PipeView Technologies and JPW Properties, Inc in 2020 and 2021. Nearly all manholes assessed as being in poor condition are constructed of brick, indicating they are quite old. The mortar between the bricks of many older brick manholes erodes over time due to H_2S exposure and can be addressed with a liner to protect the manhole from further corrosion. There are some precast manholes which were assessed as being in poor condition because the manhole is either holding water as a result of settling and/or deteriorating due to hydrogen sulfide (H_2S) exposure.

The Town of Beaufort's approximately 33.2 miles of gravity sewer lines are considered to be in fair condition. This assessment is made based on the fact that approximately 13.3 miles of these gravity lines are suspected to have been installed prior to 1969, making them 50 or more years old.

The Town should consider using the databases, analysis methods, and mapping produced by this project to increase the efficiency and effectiveness of operation, maintenance and replacement activities. These databases are also meant to be "living" documents, meaning they should be constantly updated so that the maintenance history and current status of assets can be quickly determined.

The Town should consider continuing its on-going effort to reduce Infiltration/Inflow (I/I) problems throughout the sanitary sewer collection system and actively pursue corrective actions for deficiencies. This on-going effort towards I/I reduction will help mitigate potentially hazardous circumstances for the Town's operation and maintenance staff as well as for the citizens.

Based on the evaluation of the wastewater collection system, the following projects listed below may be considered for inclusion by the Town in the next CIP update. See the recommended 10-year CIP table included in Appendix K, which includes the following recommended projects:

- Replacement of Lift Station #7 - $756,300.00 (FY 2023/24)
- Rehabilitate Lift Station #6 - $572,800.00 (FY 2024/25)
- Replacement of Lift Station #1 - $1,070,800.00 (FY 2025/26)
- Replacement of Lift Station #5 - $714,300.00 (FY 2026/27)
- Replacement of Lift Station #2 - $756,300.00 (FY 2028/29)
- Replacement of Lift Station #3 - $814,300.00 (FY 2029/30)
- Rehabilitate Lift Station #8 - $572,800.00 (FY 2030/31)
- Sanitary Sewer Rehabilitation - $3,178,400.69 (FY 2031/32)

SECTION 1
INTRODUCTION

There are many positive benefits of asset management. Systems that fully embrace asset management principles may achieve many or all of these benefits. The benefits of asset management include, but are not limited to, the following:

- *Better operational decisions*
- *Greater ability to plan and pay for future repairs and replacements*
- *Increased knowledge of the location of the assets*
- *Increased knowledge of what assets are critical to the utility and which ones aren't*
- *More efficient operation*
- *Better communication with customers*
- *Rates based on sound operational information*
- *Increased acceptance of rates*
- *Capital improvement projects that meet the true needs of the system*

The overall objective of asset management planning is to: *Deliver the required level of service to existing and future customers in a sustainable and cost-effective manner.*

The purpose of this Wastewater Asset Management Plan is to help facilitate the proper operation and maintenance of assets, so that they provide the required level of service for present and future customers in a sustainable and cost-effective manner.



The Wastewater Asset Management Plan supports the purpose by demonstrating responsible, sustainable management and operation of wastewater assets which represent a significant, strategic and valuable asset belonging to the Town of Beaufort.

This plan will provide the documentation and support for budget forecasts put forward in future budgeting for wastewater collection and treatment assets. The Town should implement a continuous improvement approach to asset management planning in the short term. The Wastewater Asset Management Plan should be reviewed annually. Amendments or updates should be undertaken if significant asset management changes occur.

SECTION 2
WASTEWATER UTILITY OVERVIEW

The Town of Beaufort owns and operates a wastewater collection system which has approximately 3,626 sewer connections. The Town 's Public Utilities Department operates and maintains the sewer collection system consisting of twenty-five (25) sewage pump stations, approximately 33.2 miles of gravity sewer mains ranging in diameter from 4" to 24", approximately 26.3 miles of pressurized sewer force mains ranging in diameter from 1.5" to 18", approximately 830 manholes, and a 1.5 million gallon per day wastewater treatment (WWTP) facility. The wastewater system provides residential, commercial, and industrial service, removing pollutants entering the facility and discharging treated effluent to Taylor Creek.

A Sewer System Overview Map is included in Appendix A that shows the locations of all known assets.



Sanitary sewer collection system area elevations range from almost sea level at the waterfront, to as high as approximately 15 feet above mean sea level at different points in the system. The general topography is flat, with elevations rising to the north moving further from Taylor Creek. All of the Town's Planning Area is drained by the White Oak River basin system.

In 2020, the Town of Beaufort's average annual daily discharge from the WWTP was approximately 0.7650 million gallons per day. The maximum average daily discharge in 2020 was approximately 1.0474 million gallons. In 2020, the Town of Beaufort's WWTP operated at approximately 51% of its capacity.

The most recent completed Town's Local Water Supply Plan (LWSP) for 2020 estimated the current population of the service area to be approximately 4,343. The LWSP predicts the service area population will grow to 4,815 by 2030, 5,152 by 2040 and then 5,900 by 2060.

The goal of the Town is to provide wastewater services that, within regulatory guidelines, meet or exceed customers' needs and expectations for safety, quality and quantity; to provide these services at an affordable rate and in a fair and equitable and environmentally responsible manner.

The Town provides opportunities for personal and professional development for employees at all levels of the department.

SECTION 3
ASSET MANAGEMENT AND PROJECT APPROACH

ASSET MANAGEMENT

All water and wastewater systems are made up of assets, some that are buried and some that are visible. These are the physical components of the system and include: pipes, valves, vaults, tanks, pumps, wells, treatment facilities, and any other components that make up the system. The assets that make up a water or wastewater system generally depreciate over time as the system ages and deteriorates. Along with this deterioration, it may be more difficult to deliver the type of service that the utility's customers demand. As a result, the costs of operation and maintenance will increase as the assets age. Once a particular asset reaches the end of its service life, it should be upgraded or replaced.

There is an approach to managing the assets of the system that can assist the utility with making better decisions on managing aging assets. This approach is called asset management.

The goal of asset management is to help facilitate the delivery of a desired level of service in the most cost-effective manner through the creation, acquisition, operation, maintenance, rehabilitation, and disposal of assets to provide for present and future customers. A community water or wastewater utility should be concerned for managing its assets in a cost-effective manner for several reasons:



1) These types of assets represent a major public or private investment.

2) Well-run infrastructure is important in economic development.

3) Proper operation and maintenance of a utility is essential for public health and safety.

4) Utility assets provide an essential customer service.

5) Asset management promotes efficiency and innovation in the operation of the system.

The intent of asset management is to ensure the long-term sustainability of the water or wastewater utility. Asset management involves deciding as to when it is most appropriate to repair, replace, or rehabilitate particular assets based upon the assessed condition of assets, their prioritized need, and in turn, their criticality. It also involves developing a long-term funding strategy, so that the needed actions can be undertaken. This assessment-prioritization-funding approach should ensure the utility's ability to deliver the required level of service perpetually.

TOWN OF BEAUFORT WASTEWATER ASSET MANAGEMENT PLAN APPROACH

The following basic approach was applied to the asset management plan's development.

1. Inventory Assets – Catalog the pump stations, force mains, manholes, and gravity sewer mains.

2. Assess Condition of Assets – Determine which assets need repairs, rehabilitation, and replacement.

3. Rank & Prioritize Needs – Assess the 'criticality' of the assets by looking at the risk and consequence of failure.

4. Capital Improvement Plan – Establish an equipment repair, replacement, and upgrade schedule.



SECTION 4
INVENTORY OF WASTEWATER UTILITY ASSETS

GRAVITY COLLECTION SYSTEM

The sewer collection system consists of approximately 33.2 miles of gravity sewer mains ranging in diameter from 4" to 24". The precise age of most of the gravity mains in unknown, but the material type is a good indicator to the approximate era in which the pipeline was installed. The vitrified clay pipe (VCP) in the gravity system is suspected to have been installed prior to 1969. A map illustrating the location and material type of all collection system lines is located in Appendix A. Tables in Appendix F provide more detail of the individual gravity mains separated by sub-basin. Table 1 below summarizes the collection system lines shown on the system map located in Appendix A.

Town of Beaufort
Gravity Sanitary Sewery Collection System
Wastewater Asset Management Plan

Pipe Diameter (in)	Length (ft)	Inch-miles	Material	Age (years)
4	200	0.2	VC	50+
6	2,382	2.7	VC	50+
6	323	0.4	Truss	45+
6	739	0.8	PVC	50+
8	35,755	54.2	VC	50+
8	29,885	45.3	CIPP	0 - 13
8	22,117	33.5	Truss	27 - 50+
8	45,587	69.1	PVC	0 - 50+
8	6250	9.5	DIP	0 - 50+
10	2,837	4.3	VC	50+
10	2,718	5.1	CIPP	0 - 13
10	941	1.8	Truss	50+
10	16200	30.7	PVC	2 - 50+
10	668	1.3	DIP	2 - 14
12	50	0.1	VC	50+
12	4043	9.2	CIPP	13
12	220	0.5	Truss	50+
12	371	0.8	PVC	13 - 14
12	20	0.0	DIP	14
15	100	0.2	VC	50+
15	425	1.0	CIPP	13
15	32	0.1	PVC	13
18	273	0.8	VC	50+
24	2985	8.5	DIP	35
Sum	175,121	280		

Table 1: Sanitary Sewer Collection System.

PUMP STATIONS

The Town of Beaufort wastewater system has twenty-five (25) sewage pump stations, spread out over a large service area. The pump stations range in age from 1 to 52 years with an average age of 30 years. The age of the pumps, motors, various electrical gear, generators and control panels is most likely less than 20 years on average. The older pump stations tend to utilize Gorman Rupp's dry pit centrifugal pumps. In the last 10 years there has been a shift towards submersible Flygt pumps.

See Appendix A for a Sewer System Overview Map which shows the locations of each pump station. The Geographic Information System (GIS) database for the wastewater collection system was updated to include approximate installation year, diameter, length, and material for the gravity collection system and force mains. The manhole inventory data was updated to include installation year, depth, and material.

See Appendix B for a table which summarizes the inventory of pump stations. Appendix C and D include drawdown data and inspection reports conducted by Rivers & Associates for these stations.

For additional details, see Appendix E for the electrical-focused inspection reports conducted by Dibble & Pledger.



FORCE MAINS

The Town of Beaufort wastewater system has approximately 26.3 miles of pressurized sewer force main currently, ranging in size from 1.5" to 18" in diameter. See Table 2 below which identifies the force main associated with each pump station and where it connects in the wastewater system.

See Appendix H for the complete inventory and assessment of force mains.

See Appendix A for a map which shows the location of force mains. It is recommended to use ArcGIS to get additional information on the force main layout, material and diameter as they are not available on a print-out map.

Town of Beaufort Pressure Sewer Collection System Wastewater Asset Management Plan	
Lift Station	**Force Main**
1	6" force main that connects to a common 12" force main in the downtown area
2	6" force main that connects to a common 12" force main in the downtown area
3	6" force main that connects to a common 12" force main in the downtown area
4	4" force main that connects to gravity sub-basin 3
5	4" force main that connects to gravity sub-basin 6
6	10" force main that connects to a common 12" force main in the downtown area
7	6" force main that connects to the 10" force main leaving LS #6
8	8" force main that connects to a common 12" force main in the downtown area
9	6" force main that connects to both gravity sub-basin 8 and to a 12" force main in the mid-town area
10	6" force main that connects to gravity sub-basin 7
11	4" force main that connects to a common 8" force main leaving LS 14 running along Hwy 101
12	4" force main that connects to a common 16" force main in the mid-town area
13	6" force main that connects to both a common 8" force main that connects to gravity sub-basin 9 and a common 12" force main running along Live Oak St.
14	8" force main running along Hwy 101 that connects to gravity sub-basin 9
15	4" force main that connects to a common 16" force main in the mid-town area
16	6" force main that connects to both a common 8" force main that connects to gravity sub-basin 9 and a common 12" force main running along Live Oak St.
17	2" force main that connects to a common 8" force main leaving LS 14 running along Hwy 101
18	4" force main that connects to a common 8" force main leaving LS 14 running along Hwy 101
19	4" force main that connects to gravity sub-basin 18
20	8" force main that connects to both a common 8" force main that connects to gravity sub-basin 9 and a common 12" force main running along Live Oak St.
21	2" force main that connects to LS 20
22	6" force main that connects directly to the wastewater treatment plant
23	6" force main that connects directly to the wastewater treatment plant
24	4" force main that connects to gravity sub-basin 22
25	4" force main that connects to a common 8" force main leaving LS 14 running along Hwy 101

Table 2: Force Mains Summarized by Pump Station.

MANHOLES

The Town of Beaufort's sewer collection system has approximately 830 manholes. Of these manholes 51 were brick or block construction type. These brick/block manholes are mostly located in the older part of the system in basins 1 – 11. The remaining sewer drainage basins consist mostly of manholes of newer construction type i.e., precast concrete, of which there are approximately 583, and these manholes are mostly located in the basins further from the downtown area. See Table 3 below which summarized the manholes by construction type.

Note that some basins pump and discharge into the gravity collection system of other basins.

See Appendix I for the full assessment of manholes.

Town of Beaufort Gravity Sanitary Sewery Collection System Wastewater Asset Management Plan	
Material Type	**Quanitity**
Brick	46
Concrete Block	5
Unknown	150
Lined	46
Precast	583

Table 3: Manholes Summarized by Material Type.

VACUUM SYSTEM

The Town of Beaufort operates a vacuum sewer collection system that serves the Beaufort Club development. The vacuum system consists of 3,695 LF of 8" force main, approximately 2,719 LF of 4-inch vacuum sewer, approximately 2,408 LF of 6-inch vacuum sewer, approximately 350 LF of 8-inch vacuum sewer, approximately 7,307 LF of 10-inch vacuum sewer, 61 vacuum pits, a grinder pump lift station (Lift Station # 21), and one vacuum station with three 455 cfm suction pumps, one 4,500-gallon collection tank, and two 507 GPM discharge pumps. The system is also equipped with a standby generator, auto-dialer, and a 459 ft^2 biofilter for odor control. The vacuum system is designed to serve approximately 1,500 domestic users while the grinder lift station serves the golf club complex. The vacuum lines were not inspected and would only experience infiltration through a main break which would result in a vacuum leak identifiable at the vacuum pump station.

SECTION 5
ASSESSMENT OF WASTEWATER UTILITY ASSETS

ASSESSMENT METHODOLOGY

GENERAL

Determining the 'Criticality' and the 'Condition' of the assets are key steps towards establishing priorities for equipment repairs, rehabilitation, and replacement. Assets which are very critical to the wastewater system performance and in poor condition need to be addressed first. Assets that are not very critical to performance and that are in good condition would have a lower priority.

CRITICALITY ANALYSIS

Determining the 'Risk' of failure of an asset, as well as the potential 'Consequence' if failure occurs, are the key steps towards determining the 'Criticality' of an asset, which is the product of the 'Risk' and "Consequence' assessments:

'Risk' × 'Consequence' = 'Criticality'

The criticality assessment of assets is a good first step towards prioritizing improvement projects, by placing the assets that earn the highest score for criticality at the top. Each asset inventory included in the appendices includes Risk, Consequence and Criticality Ratings for each asset, as well as a sheet which describes how the ratings are assessed.

RISK ASSESSMENT

The 'Risk' of failure of an asset can also be referred to as the likelihood of failure. This is an important assessment as it will provide a basis for making asset repair, rehabilitation, and replacement decisions. This risk assessment provides information on the current status of equipment as well as future performance. The risk assessment in this project is generally based on the age and/or condition of the asset, but other factors can contribute to the assessment such as redundancy, environmental risks, safety concerns or back-up power availability.

CONSEQUENCE ASSESSMENT

The 'Consequence' of failure of an asset is the degree to which failure could potentially impact delivery of water to customers, safety of customers and system operators, and the overall performance of the system. This is an important assessment as it will provide a basis for prioritizing asset repair, rehabilitation, and replacement decisions. The consequence assessment in this project is generally based on the relative volume of wastewater that an asset must process or transport. For force mains, pump stations and valves, the larger the upstream service area, the greater the consequence rating for that asset, as the effects of asset failure would affect a larger service area and involve larger volumes of wastewater.

ASSET ASSESSMENT

PUMP STATIONS

The Town of Beaufort's twenty-five (25) pump stations are considered to be in overall fair condition. This assessment is made based on drawdown tests and inspections conducted by Rivers & Associates, as well as electrical inspections conducted by Dibble & Pledger. Most pump stations were found to have only various minor defects, however many of the original wet pit/dry pit style pump stations constructed in 1969 are operating beyond their recommended service life and require significant maintenance. The full inventory and assessment of the pump stations is included in Appendix B, but the summary of the assessment is shown below in Table 4.

Beaufort Liftstation	Location	Total Risk Score	Total Consequence Rating	Criticality Rating
7	559 Mulberry St.	16	3	48
6	101B Cedar St.	13	3	39
1	620 Front St.	15	2	30
5	334 Front St.	15	2	30
2	1112 Front St.	14	2	28
3	1708 Front St.	14	2	28
8	314 Craven Ave.	13	2	26
9	1512 Live Oak St.	11	2	22
16	450 Professional Park Dr.	9	2	18
17	Parker Boats Works	16	1	16
18	130B Madison Bay Dr.	13	1	13
4	2214 Front St.	13	1	13
12	320 Wellons Dr.	12	1	12
13	1899 Live Oak St. (Food Lion)	10	1	10
15	119 Plantation Circle	10	1	10
11	104 Earl Ave.	10	1	10
19	918A Eastman Creek Dr.	8	1	8
14	503 Sensation Weigh Rd.	7	1	7
10	599 Turner St.	6	1	6
21	300 Links Dr.	5	1	5
20	800 North River Club Dr.	5	1	5
24	~ 2355 Lennoxville Rd	4	1	4
25	~ 503 Russells Creek Road	4	1	4
22	220 Shearwater Ln.	3	1	3

Table 4: Summary of Pump Stations Assessment

The pump station which scored the highest criticality rating was pump station #7 located at the north end of Queen Street. This is due to this pump station having the highest average daily runtime and sewage handling volume rating. High pump runtimes are indicative of undersized pumps and pose the risk of wastewater overflows if one pump is temporarily out of service. This pump station also has a history of flooding during extreme rainfall events. Although this pump station has a generator on-site with an 80-ampere breaker, each pump is 41 amperes indicating it is unlikely that both pumps can reliably operate on standby power. Additionally, a control panel with solid state soft start starters would ease the startup load on the generator.

The second greatest criticality rating was earned by pump station #6 located on Cedar Street just east of Moore Street. This is an old Gorman Rupp suction lift style pump station, with a non-operational sluice gate and bar screen. The original design of this pump station also included a comminutor and trash basked which at some point was removed. As a result, this pump station has a large buildup of trash that the Town has to routinely manually remove. This pump station is also the second largest in terms of volume of wastewater pumping capacity. Currently the pumps are controlled by IEC contactors which are not as heavy duty when starting and stopping frequently compared to NEMA rated starters. Additionally, the main distribution panel and pump control panel violates the National Electric Code for clearance and mounting height. A stainless-steel hooded rack mounted outside the building with solid state soft start starters would provide proper clearance and minimize the startup load on the generator.

The third greatest criticality was earned by pump station #1 located at the intersection of Marsh Street and Front Street and pump station #5 located on Front Street across from Turner Street. Similar to pump station #7, pump stations #1 and #5 and wet pit/dry pit style pump stations constructed in 1969 are operating beyond their recommended service life. Both pump station #1 and #5 have heavily corroded pipes and access hatches. Both wet wells are also heavily pitted with noticeable infiltration. The electrical equipment for both pump stations are painted steel and in poor condition due to exposure to the elements. Additionally, the electrical equipment at pump station #5 is mounted to a privately owned building and feeds two dock receptacles.

Pump station #18 located in Eastman Creek Landing has a low consequence of failure however during inspections and drawdowns the pump station was not properly operating. The 4” force main leaving pump station #18 connects to a common 8” force main leaving pump station #14 running along Hwy 101. When pump station #14 and #17 are active pump station #18 is required to pump against higher system pressure and unable to produce sufficient discharge. As a result, the pumps run hot and continuously have maintenance issues.

GRAVITY COLLECTION SYSTEM

The Town of Beaufort’s approximate 33.2 miles of gravity sewer mains are considered to be in fair condition. This assessment is made based on the fact that a very large portion of the gravity mains are suspected to been installed prior to 1969 and consist of vitrified clay. These older VC gravity mains are mostly located in the downtown area. In 2008 the Town lined many of these older VC gravity mains in an effort to minimize infiltration into the wastewater collection system.

During a 2010 nocturnal evaluation of the gravity sewer system many of these older VC gravity mains demonstrated excessive (> 3,000 GPD per inch-mile) infiltration. During this evaluation many of the gravity mains lined in 2008 also demonstrated infiltration but at a reduced rate. A consequence rating was applied to each gravity sewer main based on these 2010 infiltration rates.

A 2021 Phase II Sewer System Evaluation Survey (SSES) utilized closed circuit television (CCTV) to investigate targeted areas identified with infiltration and/or routinely require maintenance. CCTV inspection of the gravity collection system revealed various deficiencies such as sags in lines, cracks, holes, misaligned joints, root intrusion, and collapsed pipes. A condition rating was applied to each gravity sewer main based on the severity of these issues. The highest criticality gravity main segments identified where 50+ year old VC pipe segments with observed defects and infiltration. See Appendix F and G for the complete gravity mains inventory and assessment.

FORCE MAINS

The Town of Beaufort's approximately 26.3 miles of pressurized sewer force mains are considered to be in overall good condition. This assessment is made based on the known age and materials of construction of force mains. The PVC and HDPE force mains, which make up approximately 42.9% of the total force mains by length, are assumed to be in good condition generally because they are relatively newer and of better material. The DI force mains, which make up approximately 57.1% of the total force mains by length, are assumed to be in good condition generally because these pipelines are constructed of higher strength material.

The force main which earned the greatest criticality rating is the approximately 35,451-foot segment of 8-inch force main leaving pump station #14 and running along Hwy 101. This force main is responsible for carrying the flow from pump stations #11, #14, #17, #18, #19, and #25. It is predominantly ductile iron other than approximately 2,100 LF that is PVC which was installed in 2013 and extends from just north of Bunch Road off Hwy 101 to manhole 9-61. This force man earned the greatest criticality because it serves multiple pump stations and is approximately 41 years old. Although this force main is at risk due to its age, pump station #14 has a pig launcher that allows the Town to regularly clean the force main without disruption. The Town would benefit from an additional pig launcher constructed at the intersection North River Club Drive and Hwy 70 to perform maintenance on the common force main that extends from East Carteret High School to the wastewater treatment plant that serves pump stations #12, #13, #15, #16, #20, and #21.

The force main which earned the second greatest criticality rating is the approximately 6,179-foot segment of 12-inch ductile iron common force main which extends from the downtown area to the wastewater treatment plant. This force main is responsible for carrying the flow from pump stations #1, #2, #3, #4, #5, #6, #7, #8, and #10. This segment earned the second greatest risk due to the relatively high amount of sewage flow it carries and because it is approximately 52 years old.

The force mains which earned the third greatest criticality rating are the 6-inch force mains carrying sewage flow from pump stations #3, #7, and #9, the 8-inch force main carrying sewage flow from pump station #8, and the 10-inch force main carrying sewage flow from pump station #6. These force mains earned the third greatest criticality because they accept sewage flow from other pump stations and because they are approximately 52 years old.

Although many of the original force mains are at risk of failure due to their extensive age, this risk is largely minimized by multiple tie-ins to newer force mains that run parallel to the original force mains. This redundancy in the wastewater system allows for flexibility if one of the common force mains is taken off-line for inspection or repair without flow disruption.

See Appendix H for the full Force Mains Asset Inventory and Assessment.

MANHOLES

The Town of Beaufort's approximately 830 sewer manholes are considered to be in fair condition overall. This assessment is based on inspections of manholes conducted by PipeView Technologies and JPW Properties, Inc in 2020 and 2021. See Appendix I for the full manhole assessment.

The manholes which are generally in the worse condition and contributing to I/I are the brick manholes in the downtown area. The risk rating of the manholes is based on the material type and approximate age. The consequence rating of the manholes is based on the condition of the manholes when inspected. Manholes in worse condition are assumed to have a greater consequence of failure. The most critical manholes are mostly old brick manholes which were observed to be in poor condition and contributing the most to I/I. The risk assessment of manholes is likely to correlate with material type and age because the manholes in poor condition are typically older and constructed of brick. Many brick manholes may have I/I issues because the mortar between bricks has been lost over time. Many manholes are naturally degraded over time or by roots invading, while other manholes may be affected by high concentrations of hydrogen sulfide (H_2S). Additionally, many of these manholes have settled and are holding water due to being a low point in the collection system.

CONCLUSIONS

The overall condition of the wastewater collection system is considered to be fair. Current inspection and maintenance activities identify potential areas of concern and allow the Town to proactively remedy problems before they become severe and threaten the operation and efficiency of the system.



The pump stations are considered to be in overall fair condition. Most pump stations have only various minor defects, but several more significant findings were also noted. Redundant pumps and permanent back-up power in place at pump stations helps to keep the risk of failure low, but equipment which is old or in poor condition could potentially pose problems in the future.

The force mains are considered to be in good condition overall. There are many newer PVC force mains which are assumed to be in good condition, but many older and high-capacity force mains are assumed to be in fair condition. These older force mains, in some cases 50+ years old, could potentially pose problems in the near future.

The manholes are considered to be in fair condition overall. There are many newer pre-cast manholes which were assessed as being in good condition. Many of the brick manholes were assessed as being in poor condition due to having lost the mortar between bricks over time, which allows ground water to enter the gravity sewer collection system more easily.

The gravity mains are considered to be in fair condition overall. A significant percentage of the gravity mains are suspected to have been installed prior to 1969 and consist of VC pipe. CCTV inspection and flow monitoring reveled several significant deficiencies and infiltration.

During the past fifteen years, various projects of sewer rehabilitation or replacement have been completed, successfully eliminating significant volumes of line breaks. The Town has been proactive in evaluating / maintaining its collection system and pump stations. However, due to the age of portions of the collection system piping and some pump stations, there will likely be issues in the near future that could impact their ability to operate efficiently. Continued daily monitoring and inspections as well as a renewed sanitary sewer evaluation survey will help identify potential problems and rehabilitation or replacement activities that will allow for continued operation of the system.

The Town is currently underway with a United Sates Department of Agriculture – Rural Development (USDA-RD) funded wastewater collection system improvement project to address several sewer lines suspected of excessive I/I. These sewer lines were identified through prior Sanitary Sewer Evaluation Survey's (SSES) conducted in 2004 and 2010. The proposed work to combat excessive I/I include CCTV inspection followed by slip lining. As a result of the CCTV inspections, needed manhole rehabilitation/replacements and gravity system point repairs will be completed to replace broken or collapsed sections of the sewer lines or resolve pipeline grade concerns. It is estimated a minimum of 10% of the total length of sewer lines identified for rehabilitation will require point repairs.

SECTION 6
CAPITAL IMPROVEMENT PLAN

The Town of Beaufort has developed a detailed 5-year Capital Improvement Plan (CIP). Each year, the 5-year plan is reviewed and considered in the current budgeting. Projects which were already included by the Town in the 5-year CIP for the Sewer Department have been combined with projects recommended by this Asset Inventory and Assessment project to make a single 10-year CIP. The proposed 10-year list of projects is given below. Completion of the listed projects should satisfy the needs of the Sewer Department to maintain the system and continue providing excellent sewer service to customers for the next 10 years.

Based on the evaluation of the wastewater collection and treatment system, the following are preliminary opinions of probable cost for potential wastewater infrastructure improvement projects.

- Replacement of Lift Station #7 - $756,300.00 (*Upward revision of Town Estimate)*
- Rehabilitate Lift Station #6 - $572,800.00
- Replacement of Lift Station #1 - $1,070,800.00 (*Upward revision Town Estimate)*
- Replacement of Lift Station #5 - $714,300.00
- Replacement of Lift Station #2 - $756,300.00
- Replacement of Lift Station #3 - $814,300.00
- Rehabilitate Lift Station #8 - $572,800.00
- Sanitary Sewer Rehabilitation - $3,178,400.69

See Appendix J for the more detailed Preliminary Cost Opinions, which include descriptions of the projects.

See Appendix K for the 10-Year CIP Matrix which plans the projects out across the next 10 fiscal years. Projects are projected across fiscal years based on desired improvements to wastewater infrastructure and not on budget forecasting.

SECTION 7
FINANCIAL PLANNING AND REVENUES

In addition to the development and annual review of the Capital Improvement Plan (CIP), each year the Town holds multiple departmental and council work sessions while developing the annual budget. Department Heads review programmed projects and assess current capital needs for the upcoming budget year. Capital projects are selected that require repair, maintenance, or replacement. Staff work together to determine the full extent of project costs based on scope, timing, ongoing operational costs, land acquisition, etc. This process is applied to new projects and projects previously programmed in the CIP to ensure the most accurate cost estimates are budgeted and any operational impacts are identified. The Finance Department works with other departments to determine the best method for funding proposed projects.

The Town has an established Utility Fund for the purpose of financing the operation and maintenance of the wastewater system. The primary source of revenue for these departments comes from user charges (rates and fees).

The residential water and sewer rates for FY 2021/22 are listed as follows in Table 5:

	Connection Size	In-Town Monthly Rate	Out-of-Town Monthly Rate
Water	3/4" base rate for water	$10.37	$23.25
	1" base rate for water	$17.32	$38.75
	1 1/2" base rate for water	$34.53	$82.96
	2" base rate for water	$55.27	$147.25
	3" base rate for water	$110.65	$333.91
	4" base rate for water	$172.87	N/A
	6" base rate for water	$345.63	$1,327.36
	Variable rate for water	$5.07 per 1000 gal	$7.61 per 1000 gal
Sewer	3/4" base rate for water	$21.17	$42.34
	1" base rate for water	$35.85	$70.01
	1 1/2" base rate for water	$70.50	$140.99
	2" base rate for water	$112.20	$225.67
	3" base rate for water	$225.88	$451.77
	4" base rate for water	$352.90	$705.81
	6" base rate for water	$705.60	$1,411.19
	Variable rate for water	$16.80 per 1000 gal	$33.60 per 1000 gal

Table 5: FY 2021/22 Water & Sewer Rates

In the recent fiscal year 2020/21, the revenue generated from customer charges for sewer was $4,181,298.

SECTION 8
WASTEWATER UTILITY OPERATION AND MAINTENANCE

The Town of Beaufort is in compliance with all permits and regulations governing the operation and maintenance of the public wastewater collection and treatment facilities. The Town engages in many regular maintenance and inspection activities that ensure facilities are operational and compliant.

INSPECTIONS

Routine documented visual internal manhole inspections, routine documented visual inspection of aerial/streamside pipelines, weekly inspection of pipelines identified as traditional "high risk" for sanitary sewer overflow (SSO) potential and daily inspection of pump stations are conducted by Town Utilities Division staff. This work is sometimes supplemented by contractors engaged by the Town such as those who provide CCTV inspection services.

SEWER SYSTEM MANAGEMENT

The Town of Beaufort proactively manages its wastewater system with preventative action methods. All strategies and efforts are utilized to comply with state and federal regulations and meet the needs of the Town's customers and citizens while avoiding environmental violations and penalties. The Town of Beaufort staff respond to issues with the gravity mains as they arise by flushing lines, cleaning lines, repairing lines, breaking up stoppages in the main or in service taps, maintaining taps, repairing taps, installing clean-outs, and addressing other customer issues. Annual cleaning of pipelines identified as traditional "high risk" for sanitary sewer overflow (SSO) potential as well as annual cleaning of an additional 10% of total collection pipeline footage is supported by the budgeted revenue. The Town's proactive approach to managing its wastewater system has ensured a higher water quality by mitigating potential sanitary sewer overflows.

PUMP STATIONS

Each collection system pump station is visited at least once per week to ensure proper operation of equipment and no obvious concerns that need to be addressed. Stations which receive greater flow may be inspected daily. Town of Beaufort's staff rebuild pumps, replace pump parts, replace motors, replace pumps, and make other various repairs to pump stations as issues arise. Trash baskets in collection system pump stations (where equipped) are raised and emptied based on demand as determined from the weekly inspections. Pump station wet wells are cleaned as required to prevent excessive grease build-up and interference with station operation. Town staff document all repairs and replacements at pump stations, as well as log run time meter readings. All generators are exercised once per week.

FORCE MAINS

Where force mains are exposed, they receive regular new coatings to protect the pipe from degradation by the natural elements. The Town's Public Utilities division staff undertakes routine activities associated with inspection, maintenance and repair of sewer collection system components. Issues with buried portions of the force mains, associated valves and other fittings are addressed as they arise.

SECTION 9
RECOMMENDATIONS

As a general recommendation, the Town of Beaufort should consider using and maintaining the asset inventories, mapping and criticality assessments developed by this project. These tools can be used to increase the efficiency of different operation, maintenance and repair programs, and can help document changes to the system.

GRAVITY MAINS

The Town should consider continuing its on-going effort to reduce infiltration/inflow problems throughout the sanitary sewer collection system and actively purse corrective actions for deficiencies. This ongoing effort towards infiltration/inflow reduction will help mitigate absorption of valuable wastewater transportation capacity as well as potentially hazardous circumstances for the Town's operations and maintenance staff and the citizens.

PUMP STATIONS

It is recommended that the Town of Beaufort complete various pump station improvements projects that are included in the proposed 10-year CIP. In addition, the Town should utilize observations and information included in the Rivers & Associates drawdown data and inspection reports for each pump station to determine which pump stations need repairs, rehabilitation, and replacement. See the Appendix C and D for complete Pump Station Drawdown & Inspection Reports and Appendix E for Pump Station Electrical Inspection Reports. While these reports provide detailed information and observations for the individual stations, the most critical information of each pump station is summarized in the Pump Stations Inventory & Assessment Summary included in Appendix B.

The asset inventory and inspection reports should be used to make decisions regarding operation and maintenance of the pump stations. An annual pump testing program may assist the Town in identifying pumping issues before failure occurs. The Town should consider installing pressure gauges at all pump stations which are not currently equipped with gauges, to assist in the evaluation of pump performance from their original pump performance. Ideally, these would be installed in a separate vault with check valves, to minimize corrosion of the gauges, as well as allowing easier maintenance of check valves without having to enter the wet well.

FORCE MAINS

The asset inventory and assessment of force mains identifies pipelines which are the most critical due to their age and high wastewater flow. See Appendix H for more details on the Force Mains Inventory & Assessment. The Town should maintain the best operation and maintenance practices that are feasible for the most critical force mains. The Town would also benefit from the following recommendations:

- Ensure there are contingency plans in place in case of a force main failure.
- Update the force main hydraulic model to include the additional pump stations that have been added to the collection system.

MANHOLES

It is recommended that the Town of Beaufort dedicate funds annually for manhole replacement, rehabilitation or lining. Utilizing the manhole asset inventory, mapping and criticality assessment in conjunction with this annual program would provide for better documentation of the rehabilitation/lining program while optimizing the available budget.

APPENDIX

A

Sewer System Overview Map

SHEET 2 - EXIST. COLLECTION SYSTEM MAP - DOWNTOWN

Legend

- Sewage Lift Station

Sewer All

Material

- CIPP
- DIP
- PVC
- Truss
- VC
- SewerVAC
- SewerFM
- CENTERLINE ROAD

0 950 1,900 3,800 5,700 7,600 Feet

N W E S

129

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SANITARY SEWER SYSTEM
FOR THE
TOWN OF BEAUFORT
CARTERET COUNTY — NORTH CAROLINA

EXIST. COLLECTION SYSTEM MAP - OVERALL

DATE - 10/25/21 | DRAFT - SMR | NOT TO SCALE
DRAWING - | PROJ - 2020077 | SHEET 1 OF 2

N

W E

S

Legend

- Existing Manhole
- Sewage Lift Station

Sewer All

Material

- CIPP
- DIP
- PVC
- Truss
- VC
- SewerVAC
- SewerFM
- CENTERLINE ROAD

0 600 1,200 2,400 3,600 4,800 Feet

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SANITARY SEWER SYSTEM
FOR THE
TOWN OF BEAUFORT
CARTERET COUNTY — NORTH CAROLINA

EXIST. COLLECTION SYSTEM MAP - DOWNTOWN

DATE - 10/25/21 | DRAWN BY - BWR | NOT TO SCALE
DRAWING - PROJ - 2020077 | SHEET 2 OF 2

APPENDIX

B

Lift Station Inventory & Assessment Summary

Town of Beaufort
Wastewater Asset Management Plan
Lift Station Inventory

PS #	Location	Wet Well Dimensions (feet)	Wet Well Capacity (gal/ft)	Pump Manufacturer	Pump Model	Number of Pumps	Pump Type	Pump Power (HP)	Pump Voltage	Firm Pumping Capacity (gpm @ ft)	Pump 1 Avg Drawdown Results (gpm @ ft)	Pump 2 Avg Drawdown Results (gpm @ ft)	Lift Station Avg. Drawdown (gpm @ ft)	Avg. Daily Runtime March 2019 - Febuary 2020 (Hours)	Backup Power	Level Control	Force Main Diameter (inches)	Force Main Length (feet)
1	620 Front St.	6.2	223.4	Gorman Rupp	T-3A3S-B /F	2	Dry-Pit Centrifugal	15.0	230	150 @ 66 ft	183.9 @ 44.0 ft	107.1 @ 37.7 ft	145.5 @ 40.9 ft	5.0	Fixed Generator	Bubbler with backup floats	6	2,779
2	1112 Front St.	6.2	223.4	Gorman Rupp	T-3A3S-B /F	2	Dry-Pit Centrifugal	15.0	230	100	228.1 @ 37.9 ft	181.5 @ 28.0 ft	204.8 @ 33.0 ft	5.1	Fixed Generator	Bubbler with backup floats	6	2,114
3	1708 Front St.	6.2	223.4	Gorman Rupp	T-3A3S-B /F	2	Dry-Pit Centrifugal	7.5	230	150 @ 38 ft	138.5 @ 23.4 ft	128.0 @ 23.4 ft	133.3 @ 23.4 ft	5.4	Fixed Generator	Bubbler with backup floats	6	2,425
4	2214 Front St.	5	146.9	Flygt	CP-3085 LT	2	Submersible	3.0	230	150	89.5	98.7	94.1	3.0	Fixed Generator	Floats	4	782
5	334 Front St.	6.2	223.4	Gorman Rupp	T-3A3S-B /F	2	Dry-Pit Centrifugal	5.0	230	100	218.8 @ 38.9 ft	237.4 @ 38.9 ft	228.1 @ 38.9 ft	4.8	Fixed Generator	Bubbler with backup floats	4	329
6	101B Cedar St.	13.5 x 6	605.9	Gorman Rupp Gorman Rupp	T-6A3S-B /F T-6A60S-B /F	2	Suction Lift	30.0	230	450	334.5 @ 102.8 ft	460.7 @ 84.3 ft	397.6 @ 93.6 ft	3.8	Fixed Generator	Bubbler with backup floats	10	3,561
7	559 Mulberry St.	6.2	223.4	Gorman Rupp	T-3A3S-B /F	2	Dry-Pit Centrifugal	15.0	230	150	263.0 @ 42.1 ft	135.0 @ 23.8 ft	199.0 @ 33.0 ft	7.9	Fixed Generator	Bubbler with backup floats	6	952
8	314 Craven Ave.	13.5 x 6	605.9	Gorman Rupp	T-6A-B	2	Suction Lift	20.0	230	450	340.8 @ 61.2 ft	Not Pumping	340.8 @ 61.2 ft	2.9	Fixed Generator	Bubbler with backup floats	8	966
9	1512 Live Oak St.	6.0 (above a ~10 ft rectangle vault)	211.5	Hydromatic	SK400M3-4	2	Submersible	40.0	230	480 @ 145 ft	224.7 @ 110.9 ft	167.4 @ 64.8 ft	196.1 @ 87.9 ft	6.1	Fixed Generator	Floats	6	1,437
10	599 Turner St.	6.0	211.5	Flygt	CP-3085 LT	2	Submersible	3.0	230	180 @ 24 ft	92.5 @ 16.8 ft	102.4 @ 21.0 ft	97.5 @ 18.9 ft	3.8	Fixed Generator	Floats	6	1,248
11	104 Earl Ave.	5.0	146.9	Gorman Rupp	T4A3S-B /F	2	Suction Lift	7.5	230	175 @ 48 ft	93.3 @ 48.5 ft	82.6 @ 43.9 ft	88.0 @ 46.2 ft	0.7	Fixed Generator	Floats	4	480
12	320 Wellons Dr.	5.0	146.9	Gorman Rupp	T4A3S-B /F	2	Suction Lift	5.0	208	200	149.9 @ 54.9 ft	139.2 @ 52.0 ft	144.6 @ 53.5 ft	3.5	Fixed Generator	Probe Rod	4	899
13	1899 Live Oak St. (Food Lion)	8.0	376.0	Flygt	CP-3102.180	2	Submersible	5.0	230	250	550.3	No Pump	550.3	0.1	Portable Connection	Floats	6	10
14	503 Sensation Weigh Rd.	8 x 10	598.4	Gorman Rupp	JS4J-E27/X27	2	Suction Lift	27.0	480	360	106.0 @ 124.8 ft	74.8 @ 125.1 ft	90.4 @ 125.0 ft	0.6	Fixed Generator	Floats	8	35,451
15	119 Plantation Circle	5.0	146.9	Flygt	CP-3102.181	2	Submersible	5.0	230	320	113.2	122.4	117.8	0.9	Portable Connection	Probe Rod	4	980
16	450 Professional Park Dr.	6.0	211.5	Hydromatic	S4P/S4PX	2	Submersible	5.0	230	360	286.4	282.0	284.2	3.6	Fixed Generator	Floats	6	950
17	Parker Boats Works	6.0	211.5	Pentair Hydromatic	HPGF/HPGFH 500	2	Submersible	5.0	230	320	57.3	70.5	63.9	2.2	None	Floats	2	535
18	130B Madison Bay Dr.	8.0	376.0	Gorman Rupp	T3A3S-B /F	2	Suction Lift	15.0	480	100	101.8 @ 106.3 ft	113.6 @ 99.3 ft	107.7 @ 102.8 ft	5.0	Portable Connection	Floats	4	2,000
19	918A Eastman Creek Dr.	8.0	376.0	Zoeller	6122	2	Submersible	2.0	460	80 @ 20 ft 120 @ 25 ft	74.4	82.3	78.4	1.6	Fixed Generator	Floats	4	1,180
20	800 North River Club Dr.	Unknown	N/A	Unknown	Unknown	2 3	Duplex Vacuum	Unknown	Unknown	507 @ 116 ft 3,400	N/A	N/A	N/A	0.2	Fixed Generator	Unknown	8	3,715
21	300 Links Dr.	6.0	211.5	Unknown	Unknown	2	Submersible	Unknown	Unknown	Unknown	52.9 @ 96.4 ft	48.5 @ 119.7 ft	50.7 @ 108.1 ft	0.2	Fixed Generator	Floats	2	1,900
22	220 Shearwater Ln.	8.0	376.0	Flygt	3102.182-2936 435CI	2	Submersible	5.0	480	307	282.0 @ 36.6 ft	250.7 @ 37.2 ft	266.4 @ 36.9 ft	0.5	Fixed Generator	Probe Rod with backup floats	6	1,946
23	Not been turn over to Town	Unknown	N/A	Unknown	Unknown	2	Submersible	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	6	2,100
24	~ 2355 Lennoxville Rd	8.0	376.0	Flygt	CP 3085.183 15-09-2AL	2	Submersible	4.0	460	135 @ 56 ft	156.7 @ 68.1 ft	156.7 @ 68.4 ft	156.7 @ 68.3 ft	0.8	Fixed Generator	Probe Rod with backup floats	4	1,390
25	~ 503 Russells Creek Road	5.0	146.9	Flygt	NP3127 SH	2	Submersible	11.0	230	118 @ 126 ft	208.1	217.3	212.7	Unknown	Fixed Generator	Probe Rod with backup floats	4	1,660

RISK ASSESSMENT

Description: Assess a rating which is proportional to the likelihood that the station experiences failure.

Condition Rating

Description: Based on general observations of the condition of the pump station. Pump stations in poor condition are more likely to experience failure.

Condition/Description	Rating
New	0
Excellent Condition	1
Minor Defects	2
Significant Maintenance Required	3
Requires Major Renewal	4
Almost Unserviceable	5

Capacity Rating

Description: Based on average daily runtimes. Stations with undersized pumping capacity are more likely to experience failure.

Average Daily Runtime		Rating
0 - 1 hours	0	> Oversized
1 - 2 hours	1	
2 - 4 hours	2	> Adequately Sized
4 - 6 hours	3	
6 - 8 hours	4	> Undersized
8+ hours	5	

Station Age Rating

Description: The age of the station based on when it was originally built is a good indicator of the condition of much of the site infrastructure. Infrastructure that is older is assumed to be in worse condition, and therefore assumed to be more likely to fail.

Age	Rating
0-10	0
11-20	1
21-30	2
31-40	3
41-50	4
51+	5

Pump Redundancy Rating

Description: Pump redundancy greatly reduces the likelihood of complete pump station failure.

# of Pumps	Rating
4	0
3	1
2	3
1	5

Backup Power Rating

Description: Pump stations equipped with automatic transfer switches (ATS) and which have a dedicated generator on-site are less likely to experience failure.

Backup Power	Rating
Generator & ATS	0
Generator only	1
Portable Connection	3
No generator	5

CONSEQUENCE ASSESSMENT

Description: Assess a rating which is proportional to the severity and scope of consequences if the station experiences failure.

Sewage Handling Volume Rating

Description: Based on the amount of flow the station receives which is estimated by looking at the areas and customers served. Pump stations that receive flow from a large percentage of the overall sewer service area are considered more consequential than pump stations which only receive flow from a very small area.

Approximate % of Overall Sewage Pumped	Rating
0 - 5%	1
5 - 10%	2
10 - 15%	3
15 - 20%	4
20 - 25%	5
25 - 30%	6
30 - 35%	7
35 - 40%	8
40 - 45%	9
45 - 50%	10
50 - 55%	11
55 - 60%	12
60 - 65%	13
65 - 70%	14
70 - 75%	15
75 - 80%	16
80 - 85%	17
85 - 90%	18
90 - 95%	19
95 - 100%	20

$$\textbf{Risk} = \textbf{Condition} + \textbf{Capacity} + \textbf{Age} + \textbf{Redundancy} + \textbf{Backup Power}$$

$$\textbf{Consequence} = \textbf{Sewage Handling Volume}$$

$$\textbf{Criticality} = \textbf{Risk x Consequence}$$

Wastewater System Asset Condition and Criticality Assessment (Score Sheet)
Town of Beaufort, NC
Wastewater Asset Management Plan

Scoring Reference						Risk of Failure						Consequence of Failure	Criticality Rating	Criticality Ranking
											SUM 1	SUM 2	SUM 1 x SUM 2 =	
Scoring Range						0 - 5	0- 5	0 - 5	0 - 5	0 - 5	0 - 25	1 - 20	0 - 500	
Beaufort Liftstation	Location	Installation Date	Rebuilt/Rehab	Replaced	Comments	Condition Rating	Capacity Rating	Service Life Rating	Pump Redundancy	Power Redundancy	Total Risk Score	Sewage Handling Volume	Product of Risk x Consequence	Numerical Rank
7	559 Mulberry St.	1969				4	4	5	3	0	16	3	48	1
6	101B Cedar St.	1969				3	2	5	3	0	13	3	39	2
1	620 Front St.	1969				4	3	5	3	0	15	2	30	3
5	334 Front St.	1969				4	3	5	3	0	15	2	30	3
2	1112 Front St.	1969				3	3	5	3	0	14	2	28	4
3	1708 Front St.	1969				3	3	5	3	0	14	2	28	4
8	314 Craven Ave.	1969				3	2	5	3	0	13	2	26	5
9	1512 Live Oak St.	1969	2008			3	4	1	3	0	11	2	22	6
16	450 Professional Park Dr.	1999				2	2	2	3	0	9	2	18	7
17	Parker Boats Works	1999				4	2	2	3	5	16	1	16	8
18	130B Madison Bay Dr.	2003				3	3	1	3	3	13	1	13	9
4	2214 Front St.	1969				3	2	5	3	0	13	1	13	9
12	320 Wellons Dr.	1975				3	2	4	3	0	12	1	12	10
13	1899 Live Oak St. (Food Lion)	1994				2	0	2	3	3	10	1	10	11
15	119 Plantation Circle	2001				2	0	2	3	3	10	1	10	11
11	104 Earl Ave.	1969				2	0	5	3	0	10	1	10	11
19	918A Eastman Creek Dr.	2005				3	1	1	3	0	8	1	8	12
14	503 Sensation Weigh Rd.	1998				2	0	2	3	0	7	1	7	13
10	599 Turner St.	1969		2012		1	2	0	3	0	6	1	6	14
21	300 Links Dr.	2017				2	0	0	3	0	5	1	5	15

Wastewater System Asset Condition and Criticality Assessment (Score Sheet)
Town of Beaufort, NC
Wastewater Asset Management Plan

Scoring Reference						Risk of Failure						Consequence of Failure	Criticality Rating	Criticality Ranking
											SUM 1	SUM 2	SUM 1 x SUM 2 =	
Scoring Range						0 - 5	0- 5	0 - 5	0 - 5	0 - 5	0 - 25	1 - 20	0 - 500	
Beaufort Liftstation	Location	Installation Date	Rebuilt/Rehab	Replaced	Comments	Condition Rating	Capacity Rating	Service Life Rating	Pump Redundancy	Power Redundancy	Total Risk Score	Sewage Handling Volume	Product of Risk x Consequence	Numerical Rank
20	800 North River Club Dr.	2007				1	0	1	3	0	5	1	5	15
24	~ 2355 Lennoxville Rd	2018				1	0	0	3	0	4	1	4	16
25	~ 503 Russells Creek Road	2020				1	0	0	3	0	4	1	4	16
22	220 Shearwater Ln.	2016				0	0	0	3	0	3	1	3	17

APPENDIX

C

Lift Station Drawdowns

Pump Station: #1 620 Front St Job # 2020077

Date: 1/7/2021

Floor to top of dry well = 14’ 9”
Top of dry well = 3’ 6”
Floor to gauge = 3’ 9”

Distance from top of slab to center of pressure gauge: 7.5 feet

		Test #1	Test #2	Test #3	Test #4
	PUMP #	2	2	1	1
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	8’ 9 ½”	8’ 9 ½”	8’ 9 ½”	8’ 9 ¼”
C	Suction Pressure	N/A	N/A	N/A	N/A
D	Discharge Pressure	16-16.5	15	19	18
E	Pumping Time (min.)	2	2	2	2
F	Depth to water level after station stops pumping (ft.)	9’ 3 ¾”	9’ 6 ½”	9’ 5 ¼”	9’ 5 ¾”
G	Refill Time for wet well (min.)	2	2	2	2
H	Depth to water level when wet well refill start (ft.)	9’ 3 ½”	9’ 6”	9’ 5”	9’ 5”
I	Depth to water level when wet well refill stop (ft.)	8’ 11 ½”	9’ 2 ¼”	9’ 3 ¼”	9’ 3 ¼”
J	Wet well diameter (ft)	6’ 2”	6’ 2”	6’ 2”	6’ 2”
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	223.4	223.4	223.4	223.4
L	Duration of pump test (E) (min.)	2	2	1	1
M	Duration to refill wet well: = (G) (min.)	2	2	1	1
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	58.2	83.8	144.3	158.3
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	37.2	34.9	32.6	32.6
P	Pumping Rate (N + O) (gpm)	95.4	118.7	176.9	190.8

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 150 gpm @ 66 ft

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)
= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #2 1112 Front St Job # 2020077

Date: 1/6/2021

Floor to top of dry well = 19’ 10”
Top of dry well = 3’ 5”
Floor to gauge = 3’ 8.5”

Distance from top of slab to center of pressure gauge: 12.7 feet

		Test #1	Test #2	Test #3	Test #4
	PUMP #	1	1	2	2
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	8’ 6”	8’ 4”	8’ 4”	8’ 4”
C	Suction Pressure	N/A	N/A	N/A	N/A
D	Discharge Pressure	18	18.5	14	14
E	Pumping Time (min.)	1	1	1	1
F	Depth to water level after station stops pumping (ft.)	9’ 4”	9” 1.75”	8’ 11.75”	8’ 11.5”
G	Refill Time for wet well (min.)	1	1	1	1
H	Depth to water level when wet well refill start (ft.)	9’ 2”	9’ 2.25”	8’ 10.75”	9’ 1”
I	Depth to water level when wet well refill stop (ft.)	8’ 11.75”	8’ 11.75”	8’ 8.5”	8’ 11”
J	Wet well diameter (ft)	6’ 2”	6’ 2”	6’ 2”	6’ 2”
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	223.4	223.4	223.4	223.4
L	Duration of pump test (E) (min.)	1	1	1	1
M	Duration to refill wet well: = (G) (min.)	1	1	1	1
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	186.2	181.5	144.3	139.6
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	41.9	46.5	41.9	37.2
P	Pumping Rate (N + O) (gpm)	228.1	228.1	186.2	176.9

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 100 gpm

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)
= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #3 1708 Front St. Job # 2020077

Gauge to top of dry well = 11’ 9”

Date: 1/6/2021 Top of dry well = 3’ 9”

Distance from top of slab to center of pressure gauge: 8.0 feet

		Test #1	Test #2	Test #3	Test #4
	PUMP #	2	2	1	1
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	6’	6’	6’	5’ 11 3/4”
C	Suction Pressure	N/A	N/A	N/A	N/A
D	Discharge Pressure	11	11	Gauge Died	11
E	Pumping Time (min.)	2	2	2	2
F	Depth to water level after station stops pumping (ft.)	6’ 8 1/2”	6” 10”	6’ 10”	6’ 9”
G	Refill Time for wet well (min.)	2	2	2	2
H	Depth to water level when wet well refill start (ft.)	6’ 8”	6’ 9 ½”	6’ 9 ½”	6’ 8 ¼”
I	Depth to water level when wet well refill stop (ft.)	6’ 2 ½”	6’ 6”	6’ 4 ½”	6’ 2 ¾”
J	Wet well diameter (ft)	6’ 2”	6’ 2”	6’ 2”	6’ 2”
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	223.4	223.4	223.4	223.4
L	Duration of pump test (E) (min.)	2	2	2	2
M	Duration to refill wet well: = (G) (min.)	2	2	2	2
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	79.1	93.1	93.1	86.1
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	51.2	32.6	46.5	51.2
P	Pumping Rate (N + O) (gpm)	130.3	125.7	139.6	137.3

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 150 gpm @ 38 ft

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)

= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #4 2214 Front St. Job # 2020077

Date: 1/6/2021

Distance from top of slab to center of pressure gauge: N/A (Submersible)

		Test #1	Test #2	Test #3	Test #4
	PUMP #	2	1	2	1
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	7’ 1”	7’ 2”	7’ 4.5”	7’ 8”
C	Suction Pressure	N/A	N/A	N/A	N/A
D	Discharge Pressure	N/A	N/A	N/A	N/A
E	Pumping Time (min.)	2	2	2	2
F	Depth to water level after station stops pumping (ft.)	8’	8’ 1.75”	8’ 6.25”	8’ 7”
G	Refill Time for wet well (min.)	2	2	2	2
H	Depth to water level when wet well refill start (ft.)	7’ 11”	8’ 1.75”	8’ 5.5”	8’ 6.25”
I	Depth to water level when wet well refill stop (ft.)	7’ 6”	7’ 10”	8’ 3”	8’ 3.5”
J	Wet well diameter (ft)	5	5	5	5
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	146.875	146.875	146.875	146.875
L	Duration of pump test (E) (min.)	2	2	2	2
M	Duration to refill wet well: = (G) (min.)	2	2	2	2
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	67.3	71.9	84.1	67.3
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	30.6	22.9	15.3	16.8
P	Pumping Rate (N + O) (gpm)	97.9	94.9	99.4	84.1

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 150 gpm

Example Calculation:

Pumping rate = (F-B) x (K) ÷ (L)

= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #5 334 Front Street Job # 2020077

Date: 1/7/2021

Floor to top of dry well = 14’ 9 ½”
Top of dry well = 3’ 4”
Floor to gauge = 3’ 9 ¼”

Distance from top of slab to center of pressure gauge: 7.7 feet

		Test #1	Test #2	Test #3	Test #4
	PUMP #	1	1	2	2
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	7’ 4”	7’ 4”	7’ 4”	7’ 4”
C	Suction Pressure	N/A	N/A	N/A	N/A
D	Discharge Pressure	17	17	17	17
E	Pumping Time (min.)	.5	.5	.5	.5
F	Depth to water level after station stops pumping (ft.)	7’ 8 ¾”	7’ 9 ¼”	7’ 9 ¼”	7’ 9”
G	Refill Time for wet well (min.)	.5	.5	.5	.5
H	Depth to water level when wet well refill start (ft.)	7’ 8 ½”	7’ 8 ¾”	7’ 8 ½”	7’ 8 ½”
I	Depth to water level when wet well refill stop (ft.)	7’ 7 ½”	7’ 8”	7’ 7”	7’ 7 ½”
J	Wet well diameter (ft)	6’ 2”	6’ 2”	6’ 2”	6’ 2”
K	Wet well drawdown (gal./ft.) $(J^2/4)$ x (23.5)	223.4	223.4	223.4	223.4
L	Duration of pump test (E) (min.)	.5	.5	.5	.5
M	Duration to refill wet well: = (G) (min.)	.5	.5	.5	.5
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	176.9	195.5	195.5	186.2
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	37.2	27.9	55.9	37.2
P	Pumping Rate (N + O) (gpm)	214.1	223.4	251.3	223.4

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 100 gpm

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)
= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #6 101B Cedar St Job # 2020077

Date: 1/20/2021

Distance from top of slab to center of pressure gauge: N/A

		Test #1	Test #2	Test #3	Test #4
	PUMP #	2	2	1	1
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	11’ 7 ¾”	12’ 5”	12’ 8 ¼”	12’ 9 ¾”
C	Suction Pressure	19	20	28	28
D	Discharge Pressure	17.5	16.5	18	15
E	Pumping Time (min.)	1	1	1	1
F	Depth to water level after station stops pumping (ft.)	12’ 7 ½”	13’ ½”	13’ 1 ½”	13’ 2 ½”
G	Refill Time for wet well (min.)	1	1	1	1
H	Depth to water level when wet well refill start (ft.)	12’ 7 ½”	13’	13’ 1 ¼”	12’ 11 ½”
I	Depth to water level when wet well refill stop (ft.)	12’ 6”	12’ 10 ½”	12’ 11 ¾”	12’ 9 ¾”
J	Wet well diameter (ft)	13.5’ x 6’	13.5’ x 6’	13.5’ x 6’	13.5’ x 6’
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	605.9	605.9	605.9	605.9
L	Duration of pump test (E) (min.)	1	1	1	1
M	Duration to refill wet well: = (G) (min.)	1	1	1	1
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	391.3	378.7	265.1	239.8
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	75.7	75.7	75.7	88.4
P	Pumping Rate (N + O) (gpm)	467.0	454.4	340.8	328.2

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 450 gpm

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)

= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #7 559 Mulberry Street Job # 2020077

Date: 1/7/2021

Floor to top of dry well = 14’ 10 ½”
Top of dry well = 3’ 2”
Floor to gauge = 3’ 9 ¼”

Distance from top of slab to center of pressure gauge: 7.9 feet

		Test #1	Test #2	Test #3	Test #4
	PUMP #	1	1	2	2
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	10’ 10”	10’ 8 ¾”	10’ 9 ½”	11’ 2”
C	Suction Pressure	N/A	N/A	N/A	N/A
D	Discharge Pressure	17	17	9	9
E	Pumping Time (min.)	1	1	1	1
F	Depth to water level after station stops pumping (ft.)	11’ 5 ½”	11’ 5 ½”	11’ ½”	11’ 6 ½”
G	Refill Time for wet well (min.)	1	1	1	1
H	Depth to water level when wet well refill start (ft.)	11’ 4 ½”	11’ 4 ¼”	11’ ½”	11’ 5 ½”
I	Depth to water level when wet well refill stop (ft.)	10’ 9 ¾”	10’ 11”	10’ 8 ¼”	11’ 2 ¾”
J	Wet well diameter (ft)	6’ 2”	6’ 2”	6’ 2”	6’ 2”
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	223.4	223.4	223.4	223.4
L	Duration of pump test (E) (min.)	1	1	1	1
M	Duration to refill wet well: = (G) (min.)	1	1	1	1
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	139.6	162.9	55.9	83.8
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	125.7	97.7	79.1	51.2
P	Pumping Rate (N + O) (gpm)	265.3	260.6	135.0	135.0

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 100 gpm

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)
= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #8 314 Craven Ave Job # 2020077

Date: 1/20/2021

Distance from top of slab to center of pressure gauge: N/A

		Test #1	Test #2	Test #3	Test #4
	PUMP #	1	1	2	2
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	13’ 5 ¼”	13’ 9 ¾”	14’ ½”	13’ 10”
C	Suction Pressure	20	20	19	15
D	Discharge Pressure	7	6	N/A	N/A
E	Pumping Time (min.)	1	1	1	1
F	Depth to water level after station stops pumping (ft.)	13’ 11”	14’ 3 ½”	14’ 3 ¾”	13’ 9”
G	Refill Time for wet well (min.)	1	1	1	1
H	Depth to water level when wet well refill start (ft.)	13’ 11”	14’ 3 ¼”	14’ 2”	
I	Depth to water level when wet well refill stop (ft.)	13’ 10”	14’ 2 ¼”	14’ ¾”	
J	Wet well diameter (ft)	13.5’ x 6’	13.5’ x 6’	13.5’ x 6’	13.5’ x 6’
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	605.9	605.9	605.9	605.9
L	Duration of pump test (E) (min.)	1	1	1	1
M	Duration to refill wet well: = (G) (min.)	1	1	1	1
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	290.3	290.3		
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	50.5	50.5		
P	Pumping Rate (N + O) (gpm)	340.8	340.8	Pump 2 Failed	Pump 2 Failed

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 450 gpm

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)

= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #9 1512 Live Oak St. Job # 2020077

Date: 1/13/2021

Distance from top of slab to center of pressure gauge: 2.2 feet

		Test #1	Test #2	Test #3	Test #4
	PUMP #	1	2	2	1
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	9’ 1 ¾”	9’ 2 ½”	9’ 1 ½”	9’ 2”
C	Suction Pressure	N/A	N/A	N/A	N/A
D	Discharge Pressure	45	25	25	45
E	Pumping Time (min.)	1	1	1	1
F	Depth to water level after station stops pumping (ft.)	9’ 9 ½”	9’ 7 ½”	9’ 7 ½”	9’ 9 ¾”
G	Refill Time for wet well (min.)	1	1	1	1
H	Depth to water level when wet well refill start (ft.)	9’ 8”	9’ 6 ½”	9’ 6 ½”	9’ 8 ¼”
I	Depth to water level when wet well refill stop (ft.)	9’ 3 ¼”	9’ 2 ½”	9’ 2 ½”	9’ 3”
J	Wet well diameter (ft)	6’	6’	6’	6’
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	211.5	211.5	211.5	211.5
L	Duration of pump test (E) (min.)	1	1	1	1
M	Duration to refill wet well: = (G) (min.)	1	1	1	1
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	136.6	88.1	105.8	136.6
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	83.7	70.5	70.5	92.5
P	Pumping Rate (N + O) (gpm)	220.3	158.6	176.3	229.1

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 450 gpm @ 142 ft

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)

= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #10 599 Turner St. Job # 2020077

Date: 1/7/2021

Distance from top of slab to center of pressure gauge: 3.7 feet

		Test #1	Test #2	Test #3	Test #4
	PUMP #	1	1	2	2
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	18’ 1 ½”	18’ 2 ½”	18’ 7 ¾”	19’ 1 ½”
C	Suction Pressure	N/A	N/A	N/A	N/A
D	Discharge Pressure	1	1	2.5	2.5
E	Pumping Time (min.)	2	2	2	2
F	Depth to water level after station stops pumping (ft.)	18’ 9 ¼”	18’ 11”	19’ 5 ¼”	19’ 10”
G	Refill Time for wet well (min.)	2	2	2	2
H	Depth to water level when wet well refill start (ft.)	18’ 9”	18’ 10 ¾”	19’ 5”	19’ 9”
I	Depth to water level when wet well refill stop (ft.)	18’ 6 ¼”	18’ 8 ¾”	19’ 2”	19’ 6 ¾”
J	Wet well diameter (ft)	8’	8’	8’	8’
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	376.0	376.0	376.0	376.0
L	Duration of pump test (E) (min.)	2	2	2	2
M	Duration to refill wet well: = (G) (min.)	2	2	2	2
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	121.4	133.2	148.8	133.2
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	43.1	31.3	47.0	35.3
P	Pumping Rate (N + O) (gpm)	164.5	164.5	195.8	168.4

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 180 gpm @ 24 ft

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)

= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #11 104 Earl Avenue Job # 2020077

Date: 1/19/2021

Distance from top of slab to center of pressure gauge: N/A

		Test #1	Test #2	Test #3	Test #4
	PUMP #	2	2	1	1
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	9’ 11 ¾”	10’ 5 ¼”	10’ 11”	11’ ½”
C	Suction Pressure	15	15	16	15
D	Discharge Pressure	4	4	5	6
E	Pumping Time (min.)	1	1	1	1
F	Depth to water level after station stops pumping (ft.)	10’ 6”	10’ 11 ½”	11’ 6 ¼”	11’ 7 ¾”
G	Refill Time for wet well (min.)	1	1	1	1
H	Depth to water level when wet well refill start (ft.)	10’ 6 ¼”	10’ 11 ½”	11’ 6 ¼”	11’ 2 ¾”
I	Depth to water level when wet well refill stop (ft.)	10’ 5 ½”	10 11 ¼”	11’ 5 ¾”	11’ 2 ½”
J	Wet well diameter (ft)	5’	5’	5’	5’
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	146.9	146.9	146.9	146.9
L	Duration of pump test (E) (min.)	1	1	1	1
M	Duration to refill wet well: = (G) (min.)	1	1	1	1
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	76.5	76.5	88.7	88.7
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	9.2	3.1	6.1	3.1
P	Pumping Rate (N + O) (gpm)	85.7	79.6	94.9	91.8

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 175 gpm @ 48 ft

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)

= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #12 320 Wellons Drive Job # 2020077

Date: 1/19/2021

Distance from top of slab to center of pressure gauge: N/A

		Test #1	Test #2	Test #3	Test #4
	PUMP #	1	1	2	2
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	9’ 11 ¾”	9’ 10”	10’ ½”	9’ 11 ½”
C	Suction Pressure	14	14	15	14
D	Discharge Pressure	9.5	10	8	8
E	Pumping Time (min.)	1	1	1	1
F	Depth to water level after station stops pumping (ft.)	10’ 10”	10’ 6 ¾”	10’ 10”	10’ 8 ¾”
G	Refill Time for wet well (min.)	1	1	1	1
H	Depth to water level when wet well refill start (ft.)	10’ 2”	10’ 8 ¾”	10’ ½”	10’ 9 ¾”
I	Depth to water level when wet well refill stop (ft.)	9’ 11 ¾”	10’ 5 ½”	9’ 10 ½”	10’ 7 ¾”
J	Wet well diameter (ft)	5’	5’	5’	5’
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	146.9	146.9	146.9	146.9
L	Duration of pump test (E) (min.)	1	1	1	1
M	Duration to refill wet well: = (G) (min.)	1	1	1	1
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	125.5	107.1	116.3	113.2
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	27.5	39.8	24.5	24.5
P	Pumping Rate (N + O) (gpm)	153.0	146.9	140.8	137.7

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 200 gpm

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)

= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #13 1899 Live Oak St. (Food Lion) Job # 2020077

Date: 1/20/2021

Distance from top of slab to center of pressure gauge: N/A

		Test #1	Test #2	Test #3	Test #4
	PUMP #	1	1	2	2
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	14’ 10 ½”	15’ 6 ½”	No Pump	No Pump
C	Suction Pressure	N/A	N/A	N/A	N/A
D	Discharge Pressure	N/A	N/A	N/A	N/A
E	Pumping Time (min.)	.5	.5		
F	Depth to water level after station stops pumping (ft.)	15’ 6 ¾”	16’ 3 ¾”		
G	Refill Time for wet well (min.)	.5	.5		
H	Depth to water level when wet well refill start (ft.)	15’ 7”	16’ 3 ¾”		
I	Depth to water level when wet well refill stop (ft.)	15’ 6 7/8”	16’ 3 ¾”		
J	Wet well diameter (ft)	8’	8’	8’	8’
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	376.0	376.0	376.0	376.0
L	Duration of pump test (E) (min.)	.5	.5		
M	Duration to refill wet well: = (G) (min.)	.5	.5		
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	517.0	579.7		
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	3.9	0.0		
P	Pumping Rate (N + O) (gpm)	520.9	579.7	No Pump	No Pump

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 250 gpm

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)

= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #14 503 Sensation Weigh Rd. Job # 2020077

Date: 1/19/2021

Distance from top of slab to center of pressure gauge: 3’ 10” (3.8 ft)

		Test #1	Test #2	Test #3	Test #4
	PUMP #	1	1	2	2
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	15’ 10 ½”	16’ ½”	16’ 2 ¼”	16’ 3 ½”
C	Suction Pressure	N/A	N/A	N/A	N/A
D	Discharge Pressure	105 ft	105 ft	105 ft	105 ft
E	Pumping Time (min.)	1	1	1	1
F	Depth to water level after station stops pumping (ft.)	16’ ½”	16’ 2 ½”	16’ 3 ½”	16’ 5 ¼”
G	Refill Time for wet well (min.)	1	1	1	1
H	Depth to water level when wet well refill start (ft.)	16’ ½”	16’ 2 ½”	16’ 3 ½”	16’ 5 ¼”
I	Depth to water level when wet well refill stop (ft.)	16’ ½”	16’ 2 ¼”	16’ 3 ½”	16’ 5 ¼”
J	Wet well diameter (ft)	8 x 10	8 x 10	8 x10	8 x10
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	598.4	598.4	598.4	598.4
L	Duration of pump test (E) (min.)	1	1	1	1
M	Duration to refill wet well: = (G) (min.)	1	1	1	1
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	99.7	99.7	62.3	87.3
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	0.0	12.5	0.0	0.0
P	Pumping Rate (N + O) (gpm)	99.7	112.2	62.3	87.3

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 360 gpm

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)

= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #15 119 Plantation Circle Job # 2020077

Date: 1/13/2021

Distance from top of slab to center of pressure gauge: N/A

		Test #1	Test #2	Test #3	Test #4
	PUMP #	1	2	1	2
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	12’	12’ 4 ¾”	12’ 8 ¾”	13’ 1”
C	Suction Pressure	N/A	N/A	N/A	N/A
D	Discharge Pressure	N/A	N/A	N/A	N/A
E	Pumping Time (min.)	.5	.5	.5	.5
F	Depth to water level after station stops pumping (ft.)	12’ 4 ¾”	12’ 9 ½”	13’ 1”	13’ 5 ¼”
G	Refill Time for wet well (min.)	.5	.5	.5	.5
H	Depth to water level when wet well refill start (ft.)	12’ 4 ¾”	12’ 9”	13’ 1 ¼”	13’ 6”
I	Depth to water level when wet well refill stop (ft.)	12’ 4 ¾”	12’ 8 ¾”	13’ 1”	13’ 5 ¼”
J	Wet well diameter (ft)	5’	5’	5’	5’
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	146.9	146.9	146.9	146.9
L	Duration of pump test (E) (min.)	.5	.5	.5	.5
M	Duration to refill wet well: = (G) (min.)	.5	.5	.5	.5
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	116.3	116.3	104.0	104.0
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	0.0	6.1	6.1	18.4
P	Pumping Rate (N + O) (gpm)	116.3	122.4	110.2	122.4

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 320 gpm

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)

= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #16 450 Professional Park Job # 2020077

Date: 1/13/2021

Distance from top of slab to center of pressure gauge: N/A

		Test #1	Test #2	Test #3	Test #4
	PUMP #	1	1	2	2
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	13’ 6 ¼”	13’ 6 ½”	13’ 7 ¾”	13’ 9”
C	Suction Pressure	N/A	N/A	N/A	N/A
D	Discharge Pressure	N/A	N/A	N/A	N/A
E	Pumping Time (min.)	1	1	1	1
F	Depth to water level after station stops pumping (ft.)	14’ 6 ¼”	14’ 7”	14’ 8 ¾”	14’ 9 ¾”
G	Refill Time for wet well (min.)	1	1	1	1
H	Depth to water level when wet well refill start (ft.)	14’ 6”	14’ 6 ½”	14’ 8”	14’ 9 ¼”
I	Depth to water level when wet well refill stop (ft.)	14’ 2”	14’ 2 ½”	14’ 5”	14’ 6”
J	Wet well diameter (ft)	6’	6’	6’	6’
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	211.5	211.5	211.5	211.5
L	Duration of pump test (E) (min.)	1	1	1	1
M	Duration to refill wet well: = (G) (min.)	1	1	1	1
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	211.5	220.3	229.1	224.7
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	70.5	70.5	52.9	57.3
P	Pumping Rate (N + O) (gpm)	282.0	290.8	282.0	282.0

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 360 gpm

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)

= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #17 Parker Boats Works Job # 2020077

Date: 1/13/2021

Distance from top of slab to center of pressure gauge: N/A

		Test #1	Test #2	Test #3	Test #4
	PUMP #	1	1	2	2
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	10’ 2 ½”	10’ 3 ¾”	10’ 4”	10’ 5 ½”
C	Suction Pressure	N/A	N/A	N/A	N/A
D	Discharge Pressure	N/A	N/A	N/A	N/A
E	Pumping Time (min.)	.5	.5	.5	.5
F	Depth to water level after station stops pumping (ft.)	10’ 4”	10’ 5”	10’ 5 ¾”	10’ 7 ¼”
G	Refill Time for wet well (min.)	.5	.5	.5	.5
H	Depth to water level when wet well refill start (ft.)	10’ 4”	10’ 5”	10’ 5 ¾”	10’ 7 ¼”
I	Depth to water level when wet well refill stop (ft.)	10’ 3 ¾”	10’ 4 ¾”	10’ 5 ½”	10’ 7”
J	Wet well diameter (ft)	6’	6’	6’	6’
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	211.5	211.5	211.5	211.5
L	Duration of pump test (E) (min.)	.5	.5	.5	.5
M	Duration to refill wet well: = (G) (min.)	.5	.5	.5	.5
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	52.9	44.1	61.7	61.7
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	8.8	8.8	8.8	8.8
P	Pumping Rate (N + O) (gpm)	61.7	52.9	70.5	70.5

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 320 gpm

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)

= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #18 130B Madison Bay Dr Job # 2020077

Date: 1/20/2021

Distance from top of slab to center of pressure gauge: N/A

		Test #1	Test #2	Test #3	Test #4
	PUMP #	1	1	2	2
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	10’ 11”	11’ 2”	11’ 4”	11’ 7”
C	Suction Pressure	15	15	22	22
D	Discharge Pressure	30+	30+	11	30+
E	Pumping Time (min.)	1	1	1	1
F	Depth to water level after station stops pumping (ft.)	11’ 2”	11’ 5 ¼”	11’ 7 ¼”	11’ 10 ¾”
G	Refill Time for wet well (min.)	1	1	1	1
H	Depth to water level when wet well refill start (ft.)	11’ 4 ¾”	11’ 5 ¼”	11’ 7 ¼”	11’ 10 ¾”
I	Depth to water level when wet well refill stop (ft.)	11’ 4 ½”	11’ 5 ¼”	11’ 7”	11’ 10 ¾”
J	Wet well diameter (ft)	8’	8’	8’	8’
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	376.0	376.0	376.0	376.0
L	Duration of pump test (E) (min.)	1	1	1	1
M	Duration to refill wet well: = (G) (min.)	1	1	1	1
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	94.0	101.8	101.8	117.5
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	7.8	0	7.8	0.0
P	Pumping Rate (N + O) (gpm)	101.8	101.8	109.7	117.5

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 100 gpm

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)

= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #19 918A Eastman Creek Dr Job # 2020077

Date: 1/19/2021

Distance from top of slab to center of pressure gauge: Do not work

		Test #1	Test #2	Test #3	Test #4
	PUMP #	1	1	2	2
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	12’ 9”	12’ 10”	12’ 10 ¾”	12’ 11 ¾”
C	Suction Pressure	N/A	N/A	N/A	N/A
D	Discharge Pressure	N/A	N/A	N/A	N/A
E	Pumping Time (min.)	.5	.5	.5	.5
F	Depth to water level after station stops pumping (ft.)	12’ 10 1/8”	12’ 11”	13’	13’ 1”
G	Refill Time for wet well (min.)	.5	.5	.5	.5
H	Depth to water level when wet well refill start (ft.)	12’ 10 1/8”	12’ 11”	13’	13’ 1”
I	Depth to water level when wet well refill stop (ft.)	12’ 10”	12’ 10 7/8”	12’ 11 7/8”	13’ 1”
J	Wet well diameter (ft)	8’	8’	8’	8’
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	376.0	376.0	376.0	376.0
L	Duration of pump test (E) (min.)	.5	.5	.5	.5
M	Duration to refill wet well: = (G) (min.)	.5	.5	.5	.5
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	70.5	62.7	78.3	78.3
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	7.8	7.8	7.8	0.0
P	Pumping Rate (N + O) (gpm)	78.3	70.5	86.2	78.3

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 100 gpm

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)

= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #21 300 Links Dr. Job # 2020077

Date: 1/13/2021

Distance from top of slab to center of pressure gauge: 3 feet

		Test #1	Test #2	Test #3	Test #4
	PUMP #	1	2	1	2
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	6’ 11”	7’ ½”	7’ 2”	7’ 3 ½”
C	Suction Pressure	N/A	N/A	N/A	N/A
D	Discharge Pressure	40	50	35 – 40	50
E	Pumping Time (min.)	.5	.5	.5	.5
F	Depth to water level after station stops pumping (ft.)	7’ ½”	7’ 2”	7’ 3 ½”	7’ 4 ¾”
G	Refill Time for wet well (min.)	.5	.5	.5	.5
H	Depth to water level when wet well refill start (ft.)	7’ ½”	7’ 2”	7’ 3 ½”	7’ 4 ¾”
I	Depth to water level when wet well refill stop (ft.)	7’ ½”	7’ 2”	7’ 3 ½”	7’ 4 ¾”
J	Wet well diameter (ft)	6’	6’	6’	6’
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	211.5	211.5	211.5	211.5
L	Duration of pump test (E) (min.)	.5	.5	.5	.5
M	Duration to refill wet well: = (G) (min.)	.5	.5	.5	.5
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	52.9	52.9	52.9	44.1
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	0.0	0.0	0.0	0.0
P	Pumping Rate (N + O) (gpm)	52.9	52.9	52.9	44.1

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design:

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)

= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #22 220 Shearwater Ln Job # 2020077

Date: 1/19/2021

Distance from top of slab to center of pressure gauge: 3’ 6” (3.5 ft)

		Test #1	Test #2	Test #3	Test #4
	PUMP #	1	1	2	2
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	16’ 9 ¾”	17’ 2 ¾”	17’ 7 ½”	17’ 11 ¾”
C	Suction Pressure	N/A	N/A	N/A	N/A
D	Discharge Pressure	10	10	10	18
E	Pumping Time (min.)	.5	.5	.5	.5
F	Depth to water level after station stops pumping (ft.)	17’ 2”	17’ 7”	17’ 11 ½”	17’ 11 ¾”
G	Refill Time for wet well (min.)	.5	.5	.5	.5
H	Depth to water level when wet well refill start (ft.)	16’ 10”	17’ 3”	17’ 7 ¼”	18’ ¼”
I	Depth to water level when wet well refill stop (ft.)	16’ 9 ¾”	17’ 2 ¾”	17’ 7 ¼”	18’
J	Wet well diameter (ft)	8’	8’	8’	8’
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	376.0	376.0	376.0	376.0
L	Duration of pump test (E) (min.)	.5	.5	.5	.5
M	Duration to refill wet well: = (G) (min.)	.5	.5	.5	.5
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	266.3	266.3	250.7	0
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	15.7	15.7	0.0	15.7
P	Pumping Rate (N + O) (gpm)	282.0	282.0	250.7	Bad Test

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 307 gpm

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)

= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #24 ~2355 Lennoxville Rd Job # 2020077

Date: 1/19/2021

Distance from top of slab to center of pressure gauge: 5’

		Test #1	Test #2	Test #3	Test #4
	PUMP #	1	1	2	2
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	15’ 2 ¼”	15’ 5”	15’ 7 ¼”	15’ 9 ½”
C	Suction Pressure	N/A	N/A	N/A	N/A
D	Discharge Pressure	25	25	35	25
E	Pumping Time (min.)	.5	.5	.5	.5
F	Depth to water level after station stops pumping (ft.)	15’ 5”	15’ 7 ¼”	15’ 9 ¾”	16’
G	Refill Time for wet well (min.)	.5	.5	.5	.5
H	Depth to water level when wet well refill start (ft.)	15 5 ¾”	15’ 7 ½”	15’ 9 ¾”	16’
I	Depth to water level when wet well refill stop (ft.)	15 5 ¾”	15’ 7 ½”	15’ 9 ¾”	16’
J	Wet well diameter (ft)	8’	8’	8’	8’
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	376.0	376.0	376.0	376.0
L	Duration of pump test (E) (min.)	.5	.5	.5	.5
M	Duration to refill wet well: = (G) (min.)	.5	.5	.5	.5
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	172.3	141.0	156.7	156.7
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	0.0	0.0	0.0	0.0
P	Pumping Rate (N + O) (gpm)	172.3	141.0	156.7	156.7

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 135 @ 56 ft

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)

= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

Pump Station: #25 ~ 503 Russells Creek Road Job # 2020077

Date: 1/19/2021 and 1/20/2021

Distance from top of slab to center of pressure gauge: N/A

		Test #1	Test #2	Test #3	Test #4
	PUMP #	1	1	2	2
A	Time when station begins pumping (after priming)				
B	Depth to water level at beginning of pump test (ft.)	5’ ½”	3’ 8 ¾”	5’ ½”	2’ 11 ½”
C	Suction Pressure	N/A	N/A	N/A	N/A
D	Discharge Pressure	N/A	N/A	N/A	N/A
E	Pumping Time (min.)	.5	.5	.5	.5
F	Depth to water level after station stops pumping (ft.)	5’ 10 ¼”	4’ 4”	5’ 9 ¼”	3’ 8 ½”
G	Refill Time for wet well (min.)	No Inflow	No Inflow	No Inflow	No Inflow
H	Depth to water level when wet well refill start (ft.)				
I	Depth to water level when wet well refill stop (ft.)				
J	Wet well diameter (ft)	5’	5’	5’	5’
K	Wet well drawdown (gal./ft.) $(J^2/4) \times (23.5)$	146.9	146.9	146.9	146.9
L	Duration of pump test (E) (min.)	.5	.5	.5	.5
M	Duration to refill wet well: = (G) (min.)	No Inflow	No Inflow	No Inflow	No Inflow
N	Drawdown rate: = (F-B) x (K) ÷ (L) (gpm)	238.7	177.5	214.2	220.3
O	Rate of wet well refill: = (H-I)x(K) ÷ (M) (gpm)	0.0	0.0	0.0	0.0
P	Pumping Rate (N + O) (gpm)	238.7	177.5	214.2	220.3

NOTE: To use the equations provided, report depth measurements in feet and report time in minutes.

Design: 118 @ 126 ft

Example Calculation:

Drawdown rate = (F-B) x (K) ÷ (L)

= (11.35 feet – 9.65 feet)*(146.87 gallons/ft)/(1.5 minutes) = 166.45 gpm

APPENDIX

D

Lift Station Inspections

Station Number:	#1
Station Address:	620 Front St

Date of Inspection:	1/6/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	3









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e. end of "road" In the woods)?	✓			Along Front St.
3	In what year was it constructed?				1969
4	What is the design capacity (permitted)?				150 gpm @ 66 ft
5	What is the wet well diameter (feet)?				6 feet 2 inches
6	What is the diameter of force main leaving the station?				6 inch
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				Not Measured
	Depth to inlet?				Not Measured
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e., wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?		✓		
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100 year flood elevation?			✓	No vents
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?			✓	No vents
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?		✓		
22	If the site is fenced, is it locked?			✓	No fence
23	If no fencing, are components padlocked? (i.e., wet well lid, valve box lid and electric panels)?	✓			
24	Is there potable water available on the site?		✓		
25	Is there a back-flow preventer on the potable water?			✓	No potable water
26	Is there positive pressure ventilation for dry wells?		✓		
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)	✓			No site light, dry well lights work
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		
30	Does the access road provide acceptable entry onto the site?	✓			

Item		Yes	No	N/A	Comments
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?	✓			
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?	✓			
36	Is there a connection for back-up power?		✓		
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)				Standby generator with transfer switch.

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer				Generac – 40 kW
2	Model				99A-06010-S
3	Serial Number				2051114
4	Year Purchased				1999
5	Fuel Tank Size				Unknown
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?				Refer to Owner
8	When was generator last load tested?				Refer to Owner
9	Was the last generator load test successful?				Refer to Owner

Item		Yes	No	N/A	Comments
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?	✓			
11	Is the generator elevated? How far?	✓			3 feet
12	Is the generator well ventilated?	✓			

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?		✓		3” discharge
4	Is there an unusual amount of rust on the pumps?	✓			Pumps are rusted
5	Is the water seal working properly?			✓	
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?		✓		

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Gorman-Rupp Manufactured: 06-25-2002
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T3A3S-B /F
4	Serial numbers?				1245553
5	Actual flow being produced. (GPM)				183.9 gpm @ 44.0 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 2 Voltage = 120/230 Phase = 3 high leg delta RPM = 1660 Station Amps = 84 Pump HP = 15 FLA = 40
Pump 2					
1	Pump Manufacturer?				Gorman-Rupp Manufactured: 10-01-2007
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T3A3S-B /F
4	Serial numbers?				1378055
5	Actual flow being produced. (GPM)				107.1 gpm @ 37.7 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 2 Voltage = 120/230 Phase = 3 high leg delta RPM = 1660 Station Amps = 84 Pump HP = 15 FLA = 40

Item		Yes	No	N/A	Comments
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				4X Fiberglass
8	Are all electrical components protected from corrosive elements?		✓		Extremely rusty, rack not hooded

Item		Yes	No	N/A	Comments
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110 volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			Bubbler with floats as backup
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms in addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless steel guide rail/cable system and lifting chain for pump removal?		✓		Use truck

Item		Yes	No	N/A	Comments
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			Sloped
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?	✓			
5	Do the suction shutoff valves work?	✓			
6	Do the discharge shutoff valves work?	✓			
7	Are there separate pump suction and discharge pipes?	✓			
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?		✓		
10	Are there pressure gauges in place and working?		✓		Not working
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?		✓		
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?	✓			Sump pump in dry well
17	If there is a sump pump and/or drainage pipe, is it functioning properly?	✓			

Item		Yes	No	N/A	Comments
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?	✓			
19	Is the discharge of the sump and/or drainage pipe above the high water alarm level in the wet well?	✓			
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?	✓			
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?	✓			
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)	✓			
26	Is there a grease problem in the wet well?		✓		
27	Is there any excessive corrosion in the wet well?	✓			Pipes are heavily corroded. Concrete slab heavily cracked. Infiltration in wet well
28	Does the interior of the wet well need to be painted with a protective coating?	✓			Wet well needs to be rehabilitated with grout.
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	

Item		Yes	No	N/A	Comments
34	Is there a manual bar screen?		✓		
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?		✓		
38	Is there any noticeable corrosion in the dry pit?	✓			Pumps are corroded
39	If there is a dry pit that has power ventilation, does it work?			✓	
40	Is there a dehumidifier in the dry pit?		✓		Desk Fan
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	
8	Is there a water seal failure sensor in the pump?			✓	
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#2
Station Address:	1112 Front St

Date of Inspection:	1/6/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	3









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e., end of "road" In the woods)?	✓			Along Front St.
3	In what year was it constructed?				1969
4	What is the design capacity (permitted)?				100 gpm
5	What is the wet well diameter (feet)?				6 feet
6	What is the diameter of force main leaving the station?				6 inch
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				Not Measured
	Depth to inlet?				Not Measured
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e., wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?		✓		
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100-year flood elevation?			✓	No vents
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?			✓	No vents
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?		✓		
22	If the site is fenced, is it locked?			✓	No fence
23	If no fencing, are components padlocked? (i.e., wet well lid, valve box lid and electric panels)?	✓			
24	Is there potable water available on the site?		✓		
25	Is there a back-flow preventer on the potable water?			✓	No potable water
26	Is there positive pressure ventilation for dry wells?		✓		
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)	✓			No site lights, dry well lights work
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?	✓			
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?	✓			
36	Is there a connection for back-up power?	✓			Portable generator connection
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)				Standby generator with transfer switch

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer				Cummins – 50 kW
2	Model				C50D6C-1842541
3	Serial Number				E180357331
4	Year Purchased				2018
5	Fuel Tank Size				260 gallons
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?				Refer to Owner

Item		Yes	No	N/A	Comments
8	When was generator last load tested?				Refer to Owner
9	Was the last generator load test successful?				Refer to Owner
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?	✓			
11	Is the generator elevated? How far?	✓			3 feet
12	Is the generator well ventilated?	✓			

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?		✓		3” discharge
4	Is there an unusual amount of rust on the pumps?		✓		
5	Is the water seal working properly?			✓	
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?		✓		Pumps and motors replaced ~ 2018 (After hurricane Florence)

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Gorman-Rupp Manufactured: 02-05-2008
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T3A3S-B /F
4	Serial numbers?				1384659
5	Actual flow being produced. (GPM)				228.1 gpm @ 37.9 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 2 Voltage = 120/230 Phase = 3, high leg delta RPM = 1750 Station Amps = 56 Pump HP = 15 FLA = 40
Pump 2					
1	Pump Manufacturer?				Gorman-Rupp Manufactured: 10-17-2002
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T3A3S-B /F
4	Serial numbers?				1251673
5	Actual flow being produced. (GPM)				181.5 gpm @ 28.0 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 2 Voltage = 120/230 Phase = 3, high leg delta RPM = 1750 Station Amps = 56 Pump HP = 15 FLA = 40

Item		Yes	No	N/A	Comments
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				4 stainless steel
8	Are all electrical components protected from corrosive elements?		✓		All electrical components should be on one (1) hooded rack

Item		Yes	No	N/A	Comments
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110 volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			Bubbler with floats as backup
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms In addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless steel guide rail/cable system and lifting chain for pump removal?		✓		Use truck

Item		Yes	No	N/A	Comments
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			Sloped
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?	✓			
5	Do the suction shutoff valves work?	✓			
6	Do the discharge shutoff valves work?	✓			
7	Are there separate pump suction and discharge pipes?	✓			
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?		✓		
10	Are there pressure gauges in place and working?		✓		Not working
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?	✓			Infiltration in wet well
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?	✓			Sump pump in dry well
17	If there is a sump pump and/or drainage pipe, is it functioning properly?	✓			

Item		Yes	No	N/A	Comments
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?	✓			
19	Is the discharge of the sump and/or drainage pipe above the high water alarm level in the wet well?	✓			
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?	✓			
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?	✓			
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)	✓			
26	Is there a grease problem in the wet well?		✓		
27	Is there any excessive corrosion in the wet well?	✓			Metal lid and pipes are heavily corroded. Pipes in wet well are corroded. Concrete slab cracked. Infiltration in wet well
28	Does the interior of the wet well need to be painted with a protective coating?	✓			Wet well needs to be rehabilitated with grout.
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	

Item		Yes	No	N/A	Comments
33	Does the mechanical bar screen need replacing?			✓	
34	Is there a manual bar screen?		✓		
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?		✓		
38	Is there any noticeable corrosion in the dry pit?	✓			
39	If there is a dry pit that has power ventilation, does it work?			✓	
40	Is there a dehumidifier in the dry pit?		✓		Desk Fan
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	
8	Is there a water seal failure sensor in the pump?			✓	
9	Is there a high/low current sensor?			✓	

Item		Yes	No	N/A	Comments
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#3
Station Address:	1708 Front St

Date of Inspection:	1/6/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	3









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e. end of "road" In the woods)?	✓			Along Front St.
3	In what year was it constructed?				1969
4	What is the design capacity (permitted)?				150 gpm @ 38 ft
5	What is the wet well diameter (feet)?				6 feet
6	What is the diameter of force main leaving the station?				6 inch
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				Not Measured
	Depth to inlet?				Not Measured
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e. wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?		✓		
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100 year flood elevation?			✓	No vents
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?			✓	No vents
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?		✓		
22	If the site is fenced, is it locked?			✓	No fence
23	If no fencing, are components padlocked? (i.e., wet well lid, valve box lid and electric panels)?	✓			
24	Is there potable water available on the site?		✓		
25	Is there a back-flow preventer on the potable water?			✓	No potable water
26	Is there positive pressure ventilation for dry wells?		✓		
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)	✓			
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?	✓			
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?	✓			
36	Is there a connection for back-up power?		✓		
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)				Standby generator with transfer switch

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer				Generac – 25 kW
2	Model				99A06013-S
3	Serial Number				2051121
4	Year Purchased				1999
5	Fuel Tank Size				Unknown
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?				Refer to Owner

Item		Yes	No	N/A	Comments
8	When was generator last load tested?				Refer to Owner
9	Was the last generator load test successful?				Refer to Owner
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?	✓			
11	Is the generator elevated? How far?	✓			3 feet
12	Is the generator well ventilated?	✓			

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?		✓		3” discharge
4	Is there an unusual amount of rust on the pumps?		✓		
5	Is the water seal working properly?			✓	
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?		✓		

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Gorman-Rupp Manufactured: 07-23-2004
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T3A3S-B /F
4	Serial numbers?				1287718
5	Actual flow being produced. (GPM)				138.5 gpm @ 23.4 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 2 Voltage = 120/230 Phase = 3, high leg delta RPM = 1300 Station Amps = 86 Pump HP = 7.5 FLA = 40
Pump 2					
1	Pump Manufacturer?				Gorman-Rupp Manufactured: 06-05-2003
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T3A3S-B /F
4	Serial numbers?				1264119
5	Actual flow being produced. (GPM)				128.0 gpm @ 23.4 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 2 Voltage = 120/230 Phase = 3, high leg delta RPM = 1300 Station Amps = 86 Pump HP = 7.5 FLA = 40

Item		Yes	No	N/A	Comments
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				3, Fiberglass
8	Are all electrical components protected from corrosive elements?		✓		Electrical components are rusty and should be on one (1) hooded rack

Item		Yes	No	N/A	Comments
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110 volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			Bubbler with floats as backup
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms In addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless steel guide rail/cable system and lifting chain for pump removal?		✓		Use truck

Item		Yes	No	N/A	Comments
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			Sloped
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?	✓			
5	Do the suction shutoff valves work?	✓			
6	Do the discharge shutoff valves work?	✓			
7	Are there separate pump suction and discharge pipes?	✓			
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?		✓		
10	Are there pressure gauges in place and working?		✓		Not working
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?		✓		
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?	✓			Sump pump in dry well
17	If there is a sump pump and/or drainage pipe, is it functioning properly?	✓			

Item		Yes	No	N/A	Comments
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?	✓			
19	Is the discharge of the sump and/or drainage pipe above the high water alarm level in the wet well?	✓			
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?	✓			
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?	✓			
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)	✓			
26	Is there a grease problem in the wet well?		✓		
27	Is there any excessive corrosion in the wet well?	✓			Metal lid and pipes are heavily corroded. Infiltration stains in the wet well
28	Does the interior of the wet well need to be painted with a protective coating?	✓			Wet well needs to be rehabilitated with grout.
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	

Item		Yes	No	N/A	Comments
34	Is there a manual bar screen?		✓		
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?		✓		
38	Is there any noticeable corrosion in the dry pit?	✓			Minor
39	If there is a dry pit that has power ventilation, does it work?			✓	
40	Is there a dehumidifier in the dry pit?		✓		Desk Fan
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	
8	Is there a water seal failure sensor in the pump?			✓	
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#4
Station Address:	2214 Front St

Date of Inspection:	1/6/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	3









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e. end of "road" In the woods)?	✓			Along Front St.
3	In what year was it constructed?				1969
4	What is the design capacity (permitted)?				150 gpm
5	What is the wet well diameter (feet)?				5 feet
6	What is the diameter of force main leaving the station?				4 inch
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				Not Measured
	Depth to inlet?				Not Measured
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e. wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?		✓		
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100 year flood elevation?			✓	No vents
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?			✓	No vents
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?		✓		
22	If the site is fenced, is it locked?			✓	No fence
23	If no fencing, are components padlocked? (i.e. wet well lid, valve box lid and electric panels)?	✓			
24	Is there potable water available on the site?		✓		
25	Is there a back-flow preventer on the potable water?			✓	No potable water
26	Is there positive pressure ventilation for dry wells?			✓	No dry well
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)	✓			
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?		✓		
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?	✓			
36	Is there a connection for back-up power?	✓			Connection for portable generator
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)				Standby generator with transfer switch

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer				Generac
2	Model				SD0025JG162.4D18HPYY3
3	Serial Number				3004665959
4	Year Purchased				2019
5	Fuel Tank Size				Unknown
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?				Refer to Owner

Item		Yes	No	N/A	Comments
8	When was generator last load tested?				Refer to Owner
9	Was the last generator load test successful?				Refer to Owner
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?	✓			
11	Is the generator elevated? How far?	✓			3 feet
12	Is the generator well ventilated?	✓			

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?			✓	
4	Is there an unusual amount of rust on the pumps?			✓	Submersible
5	Is the water seal working properly?			✓	
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counter
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?		✓		

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Flygt
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				CP 3085 LT 414
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)				89.5 gpm
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 0 Voltage = 120/230 Phase = 3 RPM = 1700 Station Amps = 19.2 Pump HP = 3.0 FLA = 36A
Pump 2					
1	Pump Manufacturer?				Flygt
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				CP 3085 LT 414
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)				98.7 gpm
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 0 Voltage = 120/230 Phase = 3 RPM = 1700 Station Amps = 19.2 Pump HP = 3.0 FLA = 36A
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	

Item		Yes	No	N/A	Comments
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				4, Stainless Steel
8	Are all electrical components protected from corrosive elements?	✓			Electrical components should be on one (1) hooded rack
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			

Item		Yes	No	N/A	Comments
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110 volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms In addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless steel guide rail/cable system and lifting chain for pump removal?	✓			
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			Sloped

Item		Yes	No	N/A	Comments
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?		✓		
5	Do the suction shutoff valves work?			✓	
6	Do the discharge shutoff valves work?			✓	
7	Are there separate pump suction and discharge pipes?		✓		
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?		✓		
10	Are there pressure gauges in place and working?		✓		
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?	✓			Infiltration from top of wet well
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?			✓	
17	If there is a sump pump and/or drainage pipe, is it functioning properly?			✓	

Item		Yes	No	N/A	Comments
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?			✓	
19	Is the discharge of the sump and/or drainage pipe above the high water alarm level in the wet well?			✓	
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?			✓	
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?			✓	
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)	✓			
26	Is there a grease problem in the wet well?		✓		
27	Is there any excessive corrosion in the wet well?	✓			Metal lid and pipes are heavily corroded.
28	Does the interior of the wet well need to be painted with a protective coating?	✓			Wet well needs to be rehabilitated with grout.
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	
34	Is there a manual bar screen?		✓		

Item		Yes	No	N/A	Comments
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?			✓	No dry pit.
38	Is there any noticeable corrosion in the dry pit?			✓	
39	If there is a dry pit that has power ventilation, does it work?			✓	
40	Is there a dehumidifier in the dry pit?			✓	
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	
8	Is there a water seal failure sensor in the pump?			✓	
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#5
Station Address:	334 Front St

Date of Inspection:	1/7/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	4









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e. end of "road" In the woods)?				Along Front St.
3	In what year was it constructed?				1969
4	What is the design capacity (permitted)?				100 gpm
5	What is the wet well diameter (feet)?				6 feet
6	What is the diameter of force main leaving the station?				4 inch
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				Not Measured
	Depth to inlet?				Not Measured
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e., wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?		✓		
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100-year flood elevation?			✓	No vents
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?			✓	No vents
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?		✓		
22	If the site is fenced, is it locked?			✓	No fence
23	If no fencing, are components padlocked? (i.e., wet well lid, valve box lid and electric panels)?	✓			
24	Is there potable water available on the site?		✓		
25	Is there a back-flow preventer on the potable water?			✓	No potable water
26	Is there positive pressure ventilation for dry wells?		✓		
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)	✓			No site lights, dry well lights work
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?	✓			
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?	✓			
36	Is there a connection for back-up power?	✓			
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)				Standby generator with transfer switch

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer				Generac
2	Model				99A06026-S
3	Serial Number				2051129
4	Year Purchased				1999
5	Fuel Tank Size				Unknown
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?				Refer to Owner

Item		Yes	No	N/A	Comments
8	When was generator last load tested?				Refer to Owner
9	Was the last generator load test successful?				Refer to Owner
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?	✓			
11	Is the generator elevated? How far?	✓			3 feet
12	Is the generator well ventilated?	✓			

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?		✓		3” discharge
4	Is there an unusual amount of rust on the pumps?		✓		
5	Is the water seal working properly?			✓	
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?		✓		Electrical controls moved above grade ~ 2002

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Gorman-Rupp Manufactured: 10-25-2007
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T3A3S-B /F
4	Serial numbers?				1377163
5	Actual flow being produced. (GPM)				218.8 gpm @ 38.9 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 1 Voltage = 120/230 Phase = 3, high leg delta RPM = 1350 Station Amps = 30.4 Pump HP = 5.0 FLA = 14.0
Pump 2					
1	Pump Manufacturer?				Gorman-Rupp
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T3A3S-B /F
4	Serial numbers?			✓	Unknown
5	Actual flow being produced. (GPM)				237.4 gpm @ 38.9 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 1 Voltage = 120/230 Phase = 3, high leg delta RPM = 1350 Station Amps = 30.4 Pump HP = 5.0 FLA = 14.0

Item		Yes	No	N/A	Comments
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				4, Stainless Steel
8	Are all electrical components protected from corrosive elements?	✓			Electrical components should be on one (1) hooded

Item		Yes	No	N/A	Comments
					rack. Mounted to privately owned building.
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110-volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			Bubbler with floats as backup
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms in addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless-steel guide rail/cable system and lifting chain for pump removal?		✓		Use truck
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			Sloped
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?	✓			
5	Do the suction shutoff valves work?	✓			
6	Do the discharge shutoff valves work?	✓			
7	Are there separate pump suction and discharge pipes?	✓			
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?		✓		
10	Are there pressure gauges in place and working?		✓		
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?	✓			Wet well is extremely pitted
15	Is there any sewage backed up into influent line?		✓		

Item		Yes	No	N/A	Comments
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?	✓			Sump pump in dry well
17	If there is a sump pump and/or drainage pipe, is it functioning properly?	✓			
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?	✓			
19	Is the discharge of the sump and/or drainage pipe above the high-water alarm level in the wet well?	✓			
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?	✓			
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?	✓			
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)	✓			
26	Is there a grease problem in the wet well?		✓		
27	Is there any excessive corrosion in the wet well?	✓			Pipes are heavily corroded.
28	Does the interior of the wet well need to be painted with a protective coating?	✓			Wet well is extremely pitted and needs to be rehabilitated.
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		

Item		Yes	No	N/A	Comments
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	
34	Is there a manual bar screen?		✓		
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?		✓		
38	Is there any noticeable corrosion in the dry pit?	✓			Minor corrosion on pumps
39	If there is a dry pit that has power ventilation, does it work?			✓	
40	Is there a dehumidifier in the dry pit?		✓		Desk Fan
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	

Item		Yes	No	N/A	Comments
8	Is there a water seal failure sensor in the pump?			✓	
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#6
Station Address:	101B Cedar St

Date of Inspection:	1/20/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	4









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e., end of "road" In the woods)?				Along Cedar St.
3	In what year was it constructed?				1969
4	What is the design capacity (permitted)?				450 gpm
5	What is the wet well diameter (feet)?				13.5 feet x 6 feet
6	What is the diameter of force main leaving the station?				10 inch
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				9 feet
	Depth to inlet?				11.7 feet
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e., wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?	✓			
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100-year flood elevation?	✓			Open grate
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?		✓		
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?	✓			
22	If the site is fenced, is it locked?	✓			
23	If no fencing, are components padlocked? (i.e., wet well lid, valve box lid and electric panels)?			✓	
24	Is there potable water available on the site?	✓			
25	Is there a back-flow preventer on the potable water?		✓		
26	Is there positive pressure ventilation for dry wells?			✓	
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)	✓			
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?	✓			
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?	✓			
36	Is there a connection for back-up power?	✓			
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)				Standby generator with transfer switch

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer				Generac
2	Model				99A06027-S
3	Serial Number				2051130
4	Year Purchased				1999
5	Fuel Tank Size				Unknown
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?				Refer to Owner

Item		Yes	No	N/A	Comments
8	When was generator last load tested?				Refer to Owner
9	Was the last generator load test successful?				Refer to Owner
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?	✓			
11	Is the generator elevated? How far?	✓			3 feet
12	Is the generator well ventilated?	✓			

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?			✓	6” Discharge
4	Is there an unusual amount of rust on the pumps?		✓		
5	Is the water seal working properly?			✓	
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?		✓		Building violates National Electric Code for clearance and mounting height for control panel. Pumps use

Item		Yes	No	N/A	Comments
					contactors and not NEMA rated starters.
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Gorman-Rupp Manufactured: 08-13-2009
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T6A60S-B /F
4	Serial numbers?				1431812
5	Actual flow being produced. (GPM)				334.5 gpm @ 102.8 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = ABB FVNR IEC contactors Voltage = 120/230 Phase = 3, 4 wire high leg RPM = 1765 Station Amps = 163 Pump HP = 30.0 FLA = 80
Pump 2					
1	Pump Manufacturer?				Gorman-Rupp Manufactured: 09-30-2008
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T6A3S-B /F
4	Serial numbers?				1408652
5	Actual flow being produced. (GPM)				460.7 gpm @ 84.3 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = ABB FVNR IEC contactors Voltage = 120/230 Phase = 3, 4 wire high leg RPM = 1765

Item		Yes	No	N/A	Comments
					Station Amps = 163 Pump HP = 30.0 FLA = 80
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				4, Stainless Steel

Item		Yes	No	N/A	Comments
8	Are all electrical components protected from corrosive elements?	✓			Violates National Electric Code for clearance and mounting height
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110-volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			Bubbler with floats as backup
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms in addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless-steel guide rail/cable system and lifting chain for pump removal?		✓		Above ground
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?		✓		Severely corroded
5	Do the suction shutoff valves work?			✓	
6	Do the discharge shutoff valves work?	✓			
7	Are there separate pump suction and discharge pipes?	✓			
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?		✓		
10	Are there pressure gauges in place and working?		✓		Not working
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?		✓		
15	Is there any sewage backed up into influent line?		✓		

Item		Yes	No	N/A	Comments
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?		✓		
17	If there is a sump pump and/or drainage pipe, is it functioning properly?			✓	
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?			✓	
19	Is the discharge of the sump and/or drainage pipe above the high-water alarm level in the wet well?			✓	
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?			✓	
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?	✓			
23	If the wet well has power ventilation, does it work?		✓		
24	Is the trash basket clean?			✓	Manual Bar Screen
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)		✓		Lots of trash
26	Is there a grease problem in the wet well?		✓		
27	Is there any excessive corrosion in the wet well?	✓			Pipes are heavily corroded and wet well very pitted
28	Does the interior of the wet well need to be painted with a protective coating?	✓			Wet well is extremely pitted and needs to be rehabilitated.
29	Does the influent sluice gate work properly?		✓		
30	Do the stop gates work properly?		✓		
31	Is there a mechanical bar screen?		✓		

Item		Yes	No	N/A	Comments
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	
34	Is there a manual bar screen?	✓			
35	Is the manual bar screen clean?		✓		Not used. Remove trash manually every other day
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?			✓	
38	Is there any noticeable corrosion in the dry pit?			✓	
39	If there is a dry pit that has power ventilation, does it work?			✓	
40	Is there a dehumidifier in the dry pit?			✓	
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	

Item		Yes	No	N/A	Comments
8	Is there a water seal failure sensor in the pump?			✓	
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#7
Station Address:	559 Mulberry St.

Date of Inspection:	1/7/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	4









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e., end of "road" In the woods)?				School bus depot
3	In what year was it constructed?				1969
4	What is the design capacity (permitted)?				150 gpm
5	What is the wet well diameter (feet)?				6 feet
6	What is the diameter of force main leaving the station?				6 inch
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				Not Measured
	Depth to inlet?				Not Measured
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e., wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?	✓			
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100-year flood elevation?			✓	No vents
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?			✓	No vents
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?	✓			
22	If the site is fenced, is it locked?	✓			
23	If no fencing, are components padlocked? (i.e., wet well lid, valve box lid and electric panels)?			✓	
24	Is there potable water available on the site?		✓		
25	Is there a back-flow preventer on the potable water?			✓	No potable water
26	Is there positive pressure ventilation for dry wells?		✓		
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)		✓		No site light
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?	✓			Lift station was flooded during 2004 hurricanes
30	Does the access road provide acceptable entry onto the site?	✓			

Item		Yes	No	N/A	Comments
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?	✓			
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?	✓			
36	Is there a connection for back-up power?	✓			
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)				Standby generator with transfer switch

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer				Generac
2	Model				20A03959-S
3	Serial Number				2059234
4	Year Purchased				2000
5	Fuel Tank Size				Unknown
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?				Refer to Owner
8	When was generator last load tested?				Refer to Owner
9	Was the last generator load test successful?				Refer to Owner

Item		Yes	No	N/A	Comments
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?	✓			
11	Is the generator elevated? How far?	✓			3 feet
12	Is the generator well ventilated?	✓			

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?		✓		3” discharge
4	Is there an unusual amount of rust on the pumps?		✓		
5	Is the water seal working properly?			✓	
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?	✓			Pump 2 does not appear to be operating correctly. Station floods.

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Gorman-Rupp Manufactured: 05-10-2007
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T3A3S-B /F
4	Serial numbers?				1365851
5	Actual flow being produced. (GPM)				263.0 gpm @ 42.1 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 2 Voltage = 120/230 Phase = 3, high leg delta RPM = 1750 Station Amps = 84 Pump HP = 15.0 FLA =40
Pump 2					
1	Pump Manufacturer?				Gorman-Rupp Manufactured: 10-25-2007
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T3A3S-B /F
4	Serial numbers?				1377162
5	Actual flow being produced. (GPM)				135.0 gpm @ 23.8 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 2 Voltage = 120/230 Phase = 3, high leg delta RPM = 1750 Station Amps = 84 Pump HP = 15.0 FLA =40

Item		Yes	No	N/A	Comments
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				4, Stainless Steel
8	Are all electrical components protected from corrosive elements?	✓			Electrical components should be on one (1) hooded rack

Item		Yes	No	N/A	Comments
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110-volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			Bubbler with floats as backup
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms in addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless-steel guide rail/cable system and lifting chain for pump removal?		✓		Use truck

Item		Yes	No	N/A	Comments
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			Sloped
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?	✓			Hatch is severely corroded
5	Do the suction shutoff valves work?	✓			
6	Do the discharge shutoff valves work?	✓			
7	Are there separate pump suction and discharge pipes?	✓			
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?		✓		
10	Are there pressure gauges in place and working?		✓		
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?		✓		
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?	✓			Sump pump in dry well. Lots of water in dry pit. No ventilation.
17	If there is a sump pump and/or drainage pipe, is it functioning properly?	✓			

Item		Yes	No	N/A	Comments
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?	✓			
19	Is the discharge of the sump and/or drainage pipe above the high water alarm level in the wet well?	✓			
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?	✓			
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?	✓			
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)	✓			
26	Is there a grease problem in the wet well?		✓		
27	Is there any excessive corrosion in the wet well?	✓			Pipes are heavily corroded.
28	Does the interior of the wet well need to be painted with a protective coating?	✓			Wet well is pitted and needs to be rehabilitated with grout.
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	

Item		Yes	No	N/A	Comments
34	Is there a manual bar screen?		✓		
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?	✓			Lots of water in dry pit. No ventilation.
38	Is there any noticeable corrosion in the dry pit?	✓			
39	If there is a dry pit that has power ventilation, does it work?		✓		
40	Is there a dehumidifier in the dry pit?		✓		
41	If there is a dehumidifier in the dry pit, is it working?		✓		

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	
8	Is there a water seal failure sensor in the pump?			✓	
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#8
Station Address:	314 Craven Ave

Date of Inspection:	1/20/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	4









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e., end of "road" In the woods)?				In a neighborhood
3	In what year was it constructed?				1969
4	What is the design capacity (permitted)?				450 gpm
5	What is the wet well diameter (feet)?				13.5 feet x 6 feet
6	What is the diameter of force main leaving the station?				8 inch
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				9 feet
	Depth to inlet?				11.3 feet
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e., wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?	✓			
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100-year flood elevation?	✓			Open grate
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?		✓		
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?	✓			
22	If the site is fenced, is it locked?	✓			
23	If no fencing, are components padlocked? (i.e., wet well lid, valve box lid and electric panels)?			✓	
24	Is there potable water available on the site?	✓			
25	Is there a back-flow preventer on the potable water?		✓		
26	Is there positive pressure ventilation for dry wells?			✓	
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)	✓			
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?	✓			
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?	✓			
36	Is there a connection for back-up power?	✓			
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)				Standby generator with transfer switch

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer				Generac
2	Model				99A06028-S
3	Serial Number				2051131
4	Year Purchased				1999
5	Fuel Tank Size				Unknown
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?				Refer to Owner

Item		Yes	No	N/A	Comments
8	When was generator last load tested?				Refer to Owner
9	Was the last generator load test successful?				Refer to Owner
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?	✓			
11	Is the generator elevated? How far?	✓			3 feet
12	Is the generator well ventilated?	✓			

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?			✓	6” Discharge
4	Is there an unusual amount of rust on the pumps?		✓		
5	Is the water seal working properly?			✓	
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?	✓			Pump 2 not working. Building violates National Electric Code for clearance and mounting for control

Item		Yes	No	N/A	Comments
					panels. The pumps use contactors and not NEMA rated starters.
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Gorman-Rupp Manufactured: 11-09-2007
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T6A3S-B /F
4	Serial numbers?				1379026
5	Actual flow being produced. (GPM)				340.8 gpm @ 61.2 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = ABB FVNR IEC contactors Voltage = 120/230 Phase = 3, 4 wire high leg RPM = 1755 Station Amps = 111 Pump HP = 20.0 FLA = 54A
Pump 2					
1	Pump Manufacturer?				Gorman-Rupp Manufactured: 09-30-2008
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T6A3S-B /F
4	Serial numbers?				Unknown
5	Actual flow being produced. (GPM)				Not pumping
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = ABB FVNR IEC contactors Voltage = 120/230 Phase = 3, 4 wire high leg

Item		Yes	No	N/A	Comments
					RPM = 1755 Station Amps = 111 Pump HP = 20.0 FLA = 54A
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			

Item		Yes	No	N/A	Comments
7	NEMA rating of the control panel?				4, Stainless Steel
8	Are all electrical components protected from corrosive elements?	✓			Violates National Electric Code for clearance and mounting height
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110-volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			Bubbler with floats as backup
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms in addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless-steel guide rail/cable system and lifting chain for pump removal?		✓		Above ground
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?		✓		Severely corroded
5	Do the suction shutoff valves work?			✓	
6	Do the discharge shutoff valves work?	✓			
7	Are there separate pump suction and discharge pipes?	✓			
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?		✓		
10	Are there pressure gauges in place and working?		✓		Not working
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?		✓		
15	Is there any sewage backed up into influent line?		✓		

Item		Yes	No	N/A	Comments
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?		✓		
17	If there is a sump pump and/or drainage pipe, is it functioning properly?			✓	
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?			✓	
19	Is the discharge of the sump and/or drainage pipe above the high-water alarm level in the wet well?			✓	
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?			✓	
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?	✓			
23	If the wet well has power ventilation, does it work?		✓		
24	Is the trash basket clean?			✓	Manual Bar Screen
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)		✓		Lots of trash
26	Is there a grease problem in the wet well?		✓		
27	Is there any excessive corrosion in the wet well?	✓			Pipes are heavily corroded and wet well very pitted
28	Does the interior of the wet well need to be painted with a protective coating?	✓			Wet well is extremely pitted and needs to be rehabilitated.
29	Does the influent sluice gate work properly?		✓		
30	Do the stop gates work properly?		✓		
31	Is there a mechanical bar screen?		✓		

Item		Yes	No	N/A	Comments
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	
34	Is there a manual bar screen?	✓			
35	Is the manual bar screen clean?		✓		Not used. Remove trash manually every other day
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?			✓	
38	Is there any noticeable corrosion in the dry pit?			✓	
39	If there is a dry pit that has power ventilation, does it work?			✓	
40	Is there a dehumidifier in the dry pit?			✓	
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	

Item		Yes	No	N/A	Comments
8	Is there a water seal failure sensor in the pump?			✓	
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#9
Station Address:	1512 Live Oak St.

Date of Inspection:	1/7/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	4









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e., end of "road" In the woods)?				Piggly Wiggly parking lot
3	In what year was it constructed?				2000 (old wet well tied to new wet well)
4	What is the design capacity (permitted)?				250 gpm
5	What is the wet well diameter (feet)?				6 feet (over top ~10 ft rectangle)
6	What is the diameter of force main leaving the station?				6 inch
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				Not Measured
	Depth to inlet?				Not Measured
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e., wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			Check valve vault
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?	✓			
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100-year flood elevation?	✓			
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?	✓			
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?	✓			
22	If the site is fenced, is it locked?	✓			
23	If no fencing, are components padlocked? (i.e., wet well lid, valve box lid and electric panels)?			✓	
24	Is there potable water available on the site?	✓			
25	Is there a back-flow preventer on the potable water?		✓		
26	Is there positive pressure ventilation for dry wells?			✓	
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)	✓			
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?	✓			
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?	✓			
36	Is there a connection for back-up power?	✓			Portable generator connection
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)				Standby generator with transfer switch

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer				Generac
2	Model				SD 0100
3	Serial Number				158882
4	Year Purchased				2015
5	Fuel Tank Size				335 gallons
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?				Refer to Owner

Item		Yes	No	N/A	Comments
8	When was generator last load tested?				Refer to Owner
9	Was the last generator load test successful?				Refer to Owner
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?	✓			
11	Is the generator elevated? How far?	✓			3 feet
12	Is the generator well ventilated?	✓			

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?			✓	4” discharge
4	Is there an unusual amount of rust on the pumps?			✓	Submersible
5	Is the water seal working properly?			✓	
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?		✓		

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Hydromatic
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				4WHV-V4WHV
4	Serial numbers?				S60755
5	Actual flow being produced. (GPM)				224.7 gpm @ 110.9 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 3 Voltage = 277/480 Phase = 3 RPM = 1750 Station Amps = 56 Pump HP = 40.0
Pump 2					
1	Pump Manufacturer?				Hydromatic
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				4WHV-V4WHV
4	Serial numbers?				S60756
5	Actual flow being produced. (GPM)				167.4 gpm @ 64.8 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 3 Voltage = 277/480 Phase = 3 RPM = 1750 Station Amps = 56 Pump HP = 40.0
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	

Item		Yes	No	N/A	Comments
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				4, Stainless Steel
8	Are all electrical components protected from corrosive elements?	✓			
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			

Item		Yes	No	N/A	Comments
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110 volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms in addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless-steel guide rail/cable system and lifting chain for pump removal?	✓			
2	Is the wet well floor designed so as to direct flow towards pump inlet?		✓		Wet well opens to a pit with ~10 ft diameter

Item		Yes	No	N/A	Comments
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?	✓			
5	Do the suction shutoff valves work?			✓	
6	Do the discharge shutoff valves work?		✓		
7	Are there separate pump suction and discharge pipes?			✓	No suction
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?			✓	
10	Are there pressure gauges in place and working?	✓			
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?		✓		
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?	✓			Drainage pipe in check valve vault
17	If there is a sump pump and/or drainage pipe, is it functioning properly?	✓			

Item		Yes	No	N/A	Comments
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?	✓			
19	Is the discharge of the sump and/or drainage pipe above the high water alarm level in the wet well?	✓			
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?		✓		
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?			✓	
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)	✓			
26	Is there a grease problem in the wet well?	✓			
27	Is there any excessive corrosion in the wet well?	✓			And check valve vault
28	Does the interior of the wet well need to be painted with a protective coating?	✓			
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	
34	Is there a manual bar screen?		✓		

Item		Yes	No	N/A	Comments
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)	✓			
37	Are there any leaks in the dry pit?	✓			Check valve vault
38	Is there any noticeable corrosion in the dry pit?	✓			Check valve vault
39	If there is a dry pit that has power ventilation, does it work?			✓	
40	Is there a dehumidifier in the dry pit?			✓	
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	
8	Is there a water seal failure sensor in the pump?			✓	
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#10
Station Address:	599 Turner St.

Date of Inspection:	1/7/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	4









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e. end of "road" In the woods)?				End of gravel road
3	In what year was it constructed?				2013
4	What is the design capacity (permitted)?				180 gpm @ 24 ft
5	What is the wet well diameter (feet)?				6 feet
6	What is the diameter of force main leaving the station?				6 inch
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				20.5 feet
	Depth to inlet?				14.84 feet
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e. wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			Check valve vault
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?	✓			
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100 year flood elevation?	✓			
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?	✓			
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?	✓			
22	If the site is fenced, is it locked?	✓			
23	If no fencing, are components padlocked? (i.e. wet well lid, valve box lid and electric panels)?			✓	
24	Is there potable water available on the site?	✓			
25	Is there a back-flow preventer on the potable water?		✓		
26	Is there positive pressure ventilation for dry wells?			✓	
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)	✓			
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?	✓			Bypass pipe
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?	✓			
36	Is there a connection for back-up power?	✓			
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)				Standby generator with transfer switch

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer				Cummins
2	Model				DSKCA-1204930
3	Serial Number				M120D160775
4	Year Purchased				2012
5	Fuel Tank Size				Unknown
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?				Refer to Owner

Item		Yes	No	N/A	Comments
8	When was generator last load tested?				July 23rd 2012
9	Was the last generator load test successful?	✓			
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?	✓			
11	Is the generator elevated? How far?	✓			3 feet
12	Is the generator well ventilated?	✓			

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4" in diameter, are the pumps grinder pumps?			✓	
4	Is there an unusual amount of rust on the pumps?			✓	Submersible
5	Is the water seal working properly?	✓			
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?		✓		

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Flygt
2	Sales Representative to be contacted about this pump?				Michael Retter Mike.retter@xyleminc.com
3	Model numbers/ Catalog No.?				NP3085.160-0127
4	Serial numbers?				1230605
5	Actual flow being produced. (GPM)				92.5 gpm @ 16.8 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter Size = NEMA Size 1 Voltage = 120/230 Phase = 3 RPM = 1710 Station Amps = 26 Pump HP = 3
Pump 2					
1	Pump Manufacturer?				Flygt
2	Sales Representative to be contacted about this pump?				Michael Retter Mike.retter@xyleminc.com
3	Model numbers/ Catalog No.?				NP3085.160-0127
4	Serial numbers?				1230606
5	Actual flow being produced. (GPM)				102.4 gpm @ 21.0 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter Size = NEMA Size 1 Voltage = 120/230 Phase = 3 RPM = 1710 Station Amps = 26 Pump HP = 3
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	

Item		Yes	No	N/A	Comments
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				4, Stainless Steel
8	Are all electrical components protected from corrosive elements?	✓			
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			

Item		Yes	No	N/A	Comments
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110 volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms In addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless steel guide rail/cable system and lifting chain for pump removal?	✓			
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			

Item		Yes	No	N/A	Comments
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?	✓			
5	Do the suction shutoff valves work?			✓	
6	Do the discharge shutoff valves work?	✓			
7	Are there separate pump suction and discharge pipes?			✓	No suction
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?	✓			Sometimes
10	Are there pressure gauges in place and working?	✓			
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?		✓		
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?	✓			Drainage pipe in check valve vault
17	If there is a sump pump and/or drainage pipe, is it functioning properly?	✓			

Item		Yes	No	N/A	Comments
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?	✓			
19	Is the discharge of the sump and/or drainage pipe above the high water alarm level in the wet well?	✓			
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?	✓			p-trap
21	Proper buoyancy protection? (Found on As-Builts)	✓			
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?			✓	
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)	✓			
26	Is there a grease problem in the wet well?		✓		
27	Is there any excessive corrosion in the wet well?		✓		
28	Does the interior of the wet well need to be painted with a protective coating?		✓		
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	
34	Is there a manual bar screen?		✓		

Item		Yes	No	N/A	Comments
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)	✓			
37	Are there any leaks in the dry pit?		✓		
38	Is there any noticeable corrosion in the dry pit?		✓		
39	If there is a dry pit that has power ventilation, does it work?		✓		
40	Is there a dehumidifier in the dry pit?		✓		
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?	✓			
8	Is there a water seal failure sensor in the pump?	✓			
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#11
Station Address:	104 Earl Avenue

Date of Inspection:	1/19/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	3









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e. end of "road" In the woods)?				Empty lot along gravel road
3	In what year was it constructed?				1969
4	What is the design capacity (permitted)?				200 gpm
5	What is the wet well diameter (feet)?				5 feet
6	What is the diameter of force main leaving the station?				4 inch
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				Not Measured
	Depth to inlet?				Not Measured
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e. wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?		✓		
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100 year flood elevation?	✓			Pump enclosure has power ventilation
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?	✓			
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?		✓		
22	If the site is fenced, is it locked?			✓	
23	If no fencing, are components padlocked? (i.e., wet well lid, valve box lid and electric panels)?	✓			
24	Is there potable water available on the site?	✓			
25	Is there a back-flow preventer on the potable water?		✓		
26	Is there positive pressure ventilation for dry wells?	✓			Pump enclosure has power ventilation
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)	✓			
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?	✓			
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?	✓			
36	Is there a connection for back-up power?		✓		
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)	✓			Standby Generator with transfer switch

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer				Generac
2	Model				SD30
3	Serial Number				Unknown
4	Year Purchased				2019
5	Fuel Tank Size				132 gallons
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?				Refer to Owner

Item		Yes	No	N/A	Comments
8	When was generator last load tested?				Refer to Owner
9	Was the last generator load test successful?				Refer to Owner
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?	✓			
11	Is the generator elevated? How far?	✓			3 feet
12	Is the generator well ventilated?	✓			

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?			✓	4” discharge
4	Is there an unusual amount of rust on the pumps?		✓		
5	Is the water seal working properly?			✓	
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?		✓		

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Gorman Rupp Manufactured: 02-28-2005
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T4A3S-B /F
4	Serial numbers?				1301580
5	Actual flow being produced. (GPM)				93.3 gpm @ 48.5 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 2 Voltage = 120/230 Phase = 3 RPM = 1750 Station Amps = 60 Pump HP = 7.5
Pump 2					
1	Pump Manufacturer?				Gorman Rupp Manufactured: 09-24-2007
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T4A3S-B /F
4	Serial numbers?				1375866
5	Actual flow being produced. (GPM)				82.6 gpm @ 43.9 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 2 Voltage = 120/230 Phase = 3 RPM = 1750 Station Amps = 60 Pump HP = 7.5
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	

Item		Yes	No	N/A	Comments
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				4, Stainless Steel
8	Are all electrical components protected from corrosive elements?	✓			Electrical components should be on one (1) hooded rack
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			

Item		Yes	No	N/A	Comments
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110 volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms In addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless steel guide rail/cable system and lifting chain for pump removal?		✓		Pumps above ground
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			

Item		Yes	No	N/A	Comments
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?	✓			
5	Do the suction shutoff valves work?			✓	
6	Do the discharge shutoff valves work?	✓			
7	Are there separate pump suction and discharge pipes?	✓			
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?			✓	
10	Are there pressure gauges in place and working?		✓		Not working
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?	✓			Infiltration from top of wet well
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?	✓			Drain pipe
17	If there is a sump pump and/or drainage pipe, is it functioning properly?	✓			

Item		Yes	No	N/A	Comments
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?	✓			
19	Is the discharge of the sump and/or drainage pipe above the high water alarm level in the wet well?	✓			
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?		✓		
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?	✓			
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)	✓			
26	Is there a grease problem in the wet well?		✓		
27	Is there any excessive corrosion in the wet well?	✓			Pipes are corroded
28	Does the interior of the wet well need to be painted with a protective coating?	✓			
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	
34	Is there a manual bar screen?		✓		

Item		Yes	No	N/A	Comments
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?			✓	
38	Is there any noticeable corrosion in the dry pit?	✓			Pump enclosure needs to be repainted
39	If there is a dry pit that has power ventilation, does it work?	✓			Pump enclosure
40	Is there a dehumidifier in the dry pit?			✓	
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	
8	Is there a water seal failure sensor in the pump?			✓	
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#12
Station Address:	320 Wellons Dr

Date of Inspection:	1/19/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	3









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e., end of "road" In the woods)?				Behind Roses department store
3	In what year was it constructed?				1975
4	What is the design capacity (permitted)?				200 gpm
5	What is the wet well diameter (feet)?				5 feet
6	What is the diameter of force main leaving the station?				4 inch
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				Not Measured
	Depth to inlet?				Not Measured
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e., wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?		✓		
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100-year flood elevation?	✓			Pump enclosure has power ventilation
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?	✓			
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?		✓		
22	If the site is fenced, is it locked?			✓	
23	If no fencing, are components padlocked? (i.e. wet well lid, valve box lid and electric panels)?	✓			
24	Is there potable water available on the site?		✓		
25	Is there a back-flow preventer on the potable water?			✓	
26	Is there positive pressure ventilation for dry wells?	✓			Pump enclosure has power ventilation
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)	✓			No site light
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?	✓			
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?	✓			
36	Is there a connection for back-up power?		✓		
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)	✓			Standby Generator with transfer switch

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer				Generac
2	Model				99A06029-S
3	Serial Number				Unknown
4	Year Purchased				1999
5	Fuel Tank Size				Unknown
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?				Refer to Owner

Item		Yes	No	N/A	Comments
8	When was generator last load tested?				Refer to Owner
9	Was the last generator load test successful?				Refer to Owner
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?	✓			
11	Is the generator elevated? How far?	✓			3 feet
12	Is the generator well ventilated?	✓			

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?			✓	4” discharge
4	Is there an unusual amount of rust on the pumps?		✓		
5	Is the water seal working properly?			✓	
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?		✓		

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Gorman Rupp Manufactured: 01-09-2008
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T4A3S-B /F
4	Serial numbers?				1382696
5	Actual flow being produced. (GPM)				149.9 gpm @ 54.9 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 1 Voltage = 120/208 Phase = 3 RPM = 1745 Station Amps = 35 Pump HP = 5.0
Pump 2					
1	Pump Manufacturer?				Gorman Rupp
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T4A3S-B /F
4	Serial numbers?				Unknown
5	Actual flow being produced. (GPM)				139.2 gpm @ 52.0 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 1 Voltage = 120/208 Phase = 3 RPM = 1745 Station Amps = 35 Pump HP = 5.0
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	

Item		Yes	No	N/A	Comments
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				4, Stainless Steel
8	Are all electrical components protected from corrosive elements?	✓			Electrical components should be on one (1) hooded rack
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			

Item		Yes	No	N/A	Comments
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110 volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			Probe rod with no backup
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?			✓	
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms in addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless-steel guide rail/cable system and lifting chain for pump removal?		✓		Pumps above ground
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			

Item		Yes	No	N/A	Comments
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?	✓			
5	Do the suction shutoff valves work?			✓	
6	Do the discharge shutoff valves work?	✓			
7	Are there separate pump suction and discharge pipes?	✓			
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?			✓	
10	Are there pressure gauges in place and working?		✓		Not working
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?	✓			Minor infiltration around discharge pipe
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?	✓			Drain pipe in pump enclosure
17	If there is a sump pump and/or drainage pipe, is it functioning properly?	✓			

Item		Yes	No	N/A	Comments
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?	✓			
19	Is the discharge of the sump and/or drainage pipe above the high water alarm level in the wet well?	✓			
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?		✓		
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?			✓	
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)		✓		Grease removed by vac truck every week and a half
26	Is there a grease problem in the wet well?	✓			Grease removed by vac truck every week and a half
27	Is there any excessive corrosion in the wet well?	✓			Pipes are corroded
28	Does the interior of the wet well need to be painted with a protective coating?	✓			Slightly pitted
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	

Item		Yes	No	N/A	Comments
34	Is there a manual bar screen?		✓		
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?			✓	
38	Is there any noticeable corrosion in the dry pit?	✓			Pumps need to be repainted
39	If there is a dry pit that has power ventilation, does it work?	✓			Pump enclosure
40	Is there a dehumidifier in the dry pit?			✓	
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	
8	Is there a water seal failure sensor in the pump?			✓	
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#13
Station Address:	1899 Live Oak St. (Food Lion)

Date of Inspection:	1/7/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	4









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e. end of "road" In the woods)?				Food Lion parking lot
3	In what year was it constructed?				1994
4	What is the design capacity (permitted)?				250 gpm
5	What is the wet well diameter (feet)?				8 feet
6	What is the diameter of force main leaving the station?				6 inch
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				Not Measured
	Depth to inlet?				Not Measured
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e. wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			Check valve vault
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?		✓		
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100 year flood elevation?	✓			
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?	✓			
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?		✓		
22	If the site is fenced, is it locked?			✓	
23	If no fencing, are components padlocked? (i.e., wet well lid, valve box lid and electric panels)?	✓			
24	Is there potable water available on the site?		✓		
25	Is there a back-flow preventer on the potable water?			✓	
26	Is there positive pressure ventilation for dry wells?			✓	
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)		✓		No lights
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?		✓		
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?		✓		
36	Is there a connection for back-up power?	✓			
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)	✓			Portable generator

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer			✓	
2	Model			✓	
3	Serial Number			✓	
4	Year Purchased			✓	
5	Fuel Tank Size			✓	
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?			✓	

Item		Yes	No	N/A	Comments
8	When was generator last load tested?			✓	
9	Was the last generator load test successful?			✓	
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?			✓	
11	Is the generator elevated? How far?			✓	
12	Is the generator well ventilated?			✓	

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?		✓		Pump 2 was removed to be serviced
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?			✓	
4	Is there an unusual amount of rust on the pumps?			✓	Submersible
5	Is the water seal working properly?			✓	
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?		✓		

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Flygt
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				3102.180
4	Serial numbers?				Unknown
5	Actual flow being produced. (GPM)				550.3 gpm
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 1 Voltage = 120/230 Phase = 3 RPM = 1700 Station Amps = 60 Pump HP = 5.0
Pump 2					
1	Pump Manufacturer?				Flygt
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				3102.180
4	Serial numbers?				Unknown
5	Actual flow being produced. (GPM)				Unknown
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 1 Voltage = 120/230 Phase = 3 RPM = 1700 Station Amps = 60 Pump HP = 5.0
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	

Item		Yes	No	N/A	Comments
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				3, Fiberglass
8	Are all electrical components protected from corrosive elements?	✓			Electrical components should be on one (1) hooded rack
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			

Item		Yes	No	N/A	Comments
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110 volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms In addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless steel guide rail/cable system and lifting chain for pump removal?	✓			
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			

Item		Yes	No	N/A	Comments
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?	✓			
5	Do the suction shutoff valves work?			✓	No suction
6	Do the discharge shutoff valves work?	✓			
7	Are there separate pump suction and discharge pipes?			✓	No suction
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?			✓	
10	Are there pressure gauges in place and working?		✓		
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?		✓		
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?		✓		Water in check valve vaults
17	If there is a sump pump and/or drainage pipe, is it functioning properly?			✓	

Item		Yes	No	N/A	Comments
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?			✓	
19	Is the discharge of the sump and/or drainage pipe above the high water alarm level in the wet well?			✓	
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?			✓	
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?	✓			
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)	✓			
26	Is there a grease problem in the wet well?		✓		
27	Is there any excessive corrosion in the wet well?		✓		
28	Does the interior of the wet well need to be painted with a protective coating?		✓		
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	
34	Is there a manual bar screen?		✓		

Item		Yes	No	N/A	Comments
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?	✓			Check valve vault
38	Is there any noticeable corrosion in the dry pit?	✓			Check valve vault
39	If there is a dry pit that has power ventilation, does it work?			✓	
40	Is there a dehumidifier in the dry pit?			✓	
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	
8	Is there a water seal failure sensor in the pump?			✓	
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#14
Station Address:	503 Sensation Weigh Rd.

Date of Inspection:	1/19/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	3









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e. end of "road" In the woods)?				Side of road
3	In what year was it constructed?				1998
4	What is the design capacity (permitted)?				360 gpm
5	What is the wet well diameter (feet)?				8 x 10
6	What is the diameter of force main leaving the station?				8 inch
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				Not Measured
	Depth to inlet?				Not Measured
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e., wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?	✓			
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100-year flood elevation?	✓			Odor controlled but not used
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?	✓			
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?	✓			
22	If the site is fenced, is it locked?	✓			
23	If no fencing, are components padlocked? (i.e., wet well lid, valve box lid and electric panels)?			✓	
24	Is there potable water available on the site?	✓			
25	Is there a back-flow preventer on the potable water?		✓		
26	Is there positive pressure ventilation for dry wells?			✓	
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)			✓	No lights
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?	✓			Takes 7-10 days to receive pig
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?		✓		
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?	✓			
36	Is there a connection for back-up power?		✓		
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)	✓			Standby Generator with transfer switch

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer				Kohler - 80 KW
2	Model				80 ROZJ
3	Serial Number				Unknown
4	Year Purchased				2000
5	Fuel Tank Size				260 gallon
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?				Refer to Owner

Item		Yes	No	N/A	Comments
8	When was generator last load tested?				Refer to Owner
9	Was the last generator load test successful?				Refer to Owner
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?	✓			
11	Is the generator elevated? How far?	✓			3 feet
12	Is the generator well ventilated?	✓			

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?			✓	
4	Is there an unusual amount of rust on the pumps?		✓		Submersible, pipes corroded
5	Is the water seal working properly?			✓	
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?		✓		

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Gorman Rupp
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				JS4J-E27/X27
4	Serial numbers?				Unknown
5	Actual flow being produced. (GPM)				106.0 gpm @ 124.8 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 3 Voltage = 480 Phase = 3 RPM = 1750 Station Amps = 72 Pump HP = 27.0
Pump 2					
1	Pump Manufacturer?				Gorman Rupp
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				JS4J-E27/X27
4	Serial numbers?				Unknown
5	Actual flow being produced. (GPM)				74.8 gpm @ 125.1 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 3 Voltage = 480 Phase = 3 RPM = 1750 Station Amps = 72 Pump HP = 27.0
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	

Item		Yes	No	N/A	Comments
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				4, Stainless Steel
8	Are all electrical components protected from corrosive elements?	✓			Electrical components should be on one (1) hooded rack
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			

Item		Yes	No	N/A	Comments
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110-volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms In addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless-steel guide rail/cable system and lifting chain for pump removal?	✓			
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			

Item		Yes	No	N/A	Comments
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?		✓		Steps in wet well blocked by guide rails.
5	Do the suction shutoff valves work?	✓			
6	Do the discharge shutoff valves work?	✓			
7	Are there separate pump suction and discharge pipes?	✓			
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?			✓	
10	Are there pressure gauges in place and working?	✓			
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?		✓		
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?		✓		
17	If there is a sump pump and/or drainage pipe, is it functioning properly?			✓	

Item		Yes	No	N/A	Comments
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?			✓	
19	Is the discharge of the sump and/or drainage pipe above the high water alarm level in the wet well?			✓	
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?			✓	
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		Odor controlled (Not used)
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?			✓	
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)	✓			
26	Is there a grease problem in the wet well?		✓		
27	Is there any excessive corrosion in the wet well?	✓			Pipes are corroded
28	Does the interior of the wet well need to be painted with a protective coating?		✓		Good condition
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	
34	Is there a manual bar screen?		✓		

Item		Yes	No	N/A	Comments
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?			✓	
38	Is there any noticeable corrosion in the dry pit?			✓	
39	If there is a dry pit that has power ventilation, does it work?			✓	
40	Is there a dehumidifier in the dry pit?			✓	
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	
8	Is there a water seal failure sensor in the pump?			✓	
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

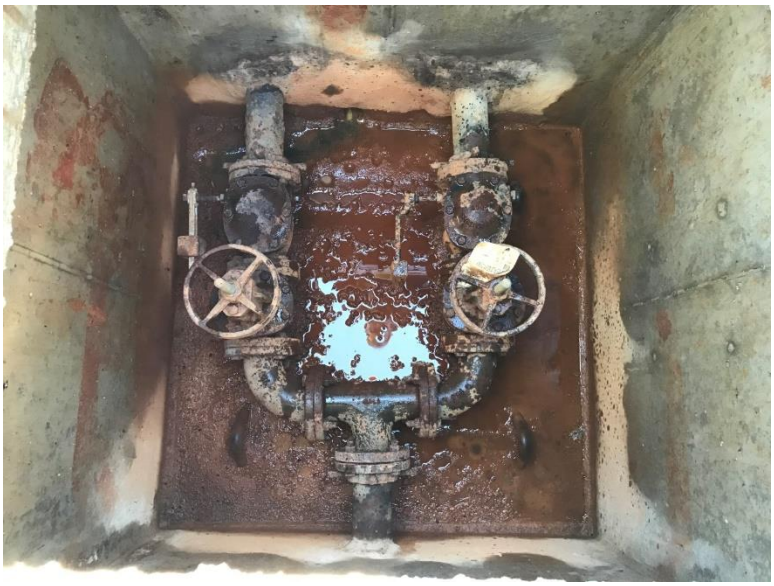
Station Number:	#15
Station Address:	119 Plantation Circle

Date of Inspection:	1/13/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	5









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e., end of "road" In the woods)?				In a neighborhood
3	In what year was it constructed?				2001
4	What is the design capacity (permitted)?				320 gpm
5	What is the wet well diameter (feet)?				5 feet
6	What is the diameter of force main leaving the station?				4 inches
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				Not Measured
	Depth to inlet?				Not Measured
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e., wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?		✓		
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100-year flood elevation?	✓			Near a creek
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?	✓			
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?		✓		
22	If the site is fenced, is it locked?			✓	
23	If no fencing, are components padlocked? (i.e., wet well lid, valve box lid and electric panels)?			✓	
24	Is there potable water available on the site?	✓			Looks frozen/broken
25	Is there a back-flow preventer on the potable water?		✓		
26	Is there positive pressure ventilation for dry wells?			✓	
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)		✓		No lights
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		Near a creek
30	Does the access road provide acceptable entry onto the site?	✓			

Item		Yes	No	N/A	Comments
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?		✓		
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?		✓		
36	Is there a connection for back-up power?	✓			
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)	✓			Portable generator

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer			✓	
2	Model			✓	
3	Serial Number			✓	
4	Year Purchased			✓	
5	Fuel Tank Size			✓	
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?			✓	
8	When was generator last load tested?			✓	
9	Was the last generator load test successful?			✓	

Item		Yes	No	N/A	Comments
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?			✓	
11	Is the generator elevated? How far?			✓	
12	Is the generator well ventilated?			✓	

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?			✓	4” discharge pipe
4	Is there an unusual amount of rust on the pumps?			✓	Submersible
5	Is the water seal working properly?	✓			
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?		✓		

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Flygt
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				3102.181
4	Serial numbers?				3102.181 0610149
5	Actual flow being produced. (GPM)				113.2
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA size 1 Voltage = 120/230 Phase = 3 RPM = 3455 Station Amps = 82 Pump HP = 5.0 FLA = 15.2
Pump 2					
1	Pump Manufacturer?				Flygt
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				3102.181
4	Serial numbers?				3102.181 0610148
5	Actual flow being produced. (GPM)				122.4
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA size 1 Voltage = 120/230 Phase = 3 RPM = 3455 Station Amps = 82 Pump HP = 5.0 FLA = 15.2
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	

Item		Yes	No	N/A	Comments
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				4, Stainless Steel
8	Are all electrical components protected from corrosive elements?	✓			Electrical components should be on one (1) hooded rack
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			

Item		Yes	No	N/A	Comments
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Autodialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110-volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			Probe rod
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high-water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?			✓	
18	Are the float switches the sealed mercury type?			✓	
19	Is there a back-up float at the high-water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms in addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless-steel guide rail/cable system and lifting chain for pump removal?	✓			
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			

Item		Yes	No	N/A	Comments
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?	✓			Old steps were cut off and stubs remain
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?	✓			
5	Do the suction shutoff valves work?			✓	
6	Do the discharge shutoff valves work?	✓			
7	Are there separate pump suction and discharge pipes?			✓	No suction
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?		✓		
10	Are there pressure gauges in place and working?		✓		
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?		✓		Water entering from valve vault
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?	✓			Drainage pipe
17	If there is a sump pump and/or drainage pipe, is it functioning properly?	✓			

Item		Yes	No	N/A	Comments
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?	✓			
19	Is the discharge of the sump and/or drainage pipe above the high-water alarm level in the wet well?	✓			
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?	✓			
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?			✓	
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)	✓			
26	Is there a grease problem in the wet well?		✓		
27	Is there any excessive corrosion in the wet well?		✓		
28	Does the interior of the wet well need to be painted with a protective coating?		✓		
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	
34	Is there a manual bar screen?		✓		

Item		Yes	No	N/A	Comments
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?	✓			Check valve vault contains water
38	Is there any noticeable corrosion in the dry pit?	✓			Check valve vault
39	If there is a dry pit that has power ventilation, does it work?			✓	
40	Is there a dehumidifier in the dry pit?			✓	
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	
8	Is there a water seal failure sensor in the pump?	✓			
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#16
Station Address:	450 Professional Park

Date of Inspection:	1/13/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	5









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e., end of "road" In the woods)?				In a neighborhood
3	In what year was it constructed?				1999
4	What is the design capacity (permitted)?				360 gpm
5	What is the wet well diameter (feet)?				6 feet
6	What is the diameter of force main leaving the station?				6 inch
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				Not Measured
	Depth to inlet?				Not Measured
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e., wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			Check valve vault
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?	✓			
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100-year flood elevation?	✓			
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?	✓			
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?	✓			
22	If the site is fenced, is it locked?	✓			
23	If no fencing, are components padlocked? (i.e., wet well lid, valve box lid and electric panels)?			✓	
24	Is there potable water available on the site?	✓			Looks frozen/broken
25	Is there a back-flow preventer on the potable water?		✓		
26	Is there positive pressure ventilation for dry wells?			✓	
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)	✓			
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?		✓		
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?	✓			
36	Is there a connection for back-up power?		✓		
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)				Standby Generator with transfer switch

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer				Generac – 40 kW
2	Model				SD0040JG163
3	Serial Number				3000143923
4	Year Purchased				2016
5	Fuel Tank Size				132 gallons
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?				Refer to Owner

Item		Yes	No	N/A	Comments
8	When was generator last load tested?				Refer to Owner
9	Was the last generator load test successful?				Refer to Owner
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?	✓			
11	Is the generator elevated? How far?	✓			3 feet
12	Is the generator well ventilated?	✓			

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?			✓	4” discharge pipe
4	Is there an unusual amount of rust on the pumps?			✓	Submersible
5	Is the water seal working properly?	✓			
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?		✓		

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Hydromatic
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				S4P/S4PX
4	Serial numbers?				Unknown
5	Actual flow being produced. (GPM)				286.4 gpm
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 1 Voltage = 120/230 Phase = 3 RPM = 1750 Station Amps = 38.8 Pump HP = 5.0
Pump 2					
1	Pump Manufacturer?				Hydromatic
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				S4P/S4PX
4	Serial numbers?				Unknown
5	Actual flow being produced. (GPM)				282.0 gpm
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter size = NEMA Size 1 Voltage = 120/230 Phase = 3 RPM = 1750 Station Amps = 38.8 Pump HP = 5.0
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	

Item		Yes	No	N/A	Comments
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				3, Fiberglass
8	Are all electrical components protected from corrosive elements?	✓			Electrical components should be on one (1) hooded rack
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			

Item		Yes	No	N/A	Comments
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110-volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms In addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless-steel guide rail/cable system and lifting chain for pump removal?	✓			
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			

Item		Yes	No	N/A	Comments
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?	✓			
5	Do the suction shutoff valves work?			✓	
6	Do the discharge shutoff valves work?	✓			
7	Are there separate pump suction and discharge pipes?			✓	No suction
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?		✓		
10	Are there pressure gauges in place and working?		✓		
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?		✓		
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?	✓			Drain pipe in check valve vault
17	If there is a sump pump and/or drainage pipe, is it functioning properly?	✓			

Item		Yes	No	N/A	Comments
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?	✓			
19	Is the discharge of the sump and/or drainage pipe above the high water alarm level in the wet well?	✓			
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?	✓			
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?			✓	
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)	✓			
26	Is there a grease problem in the wet well?	✓			
27	Is there any excessive corrosion in the wet well?	✓			
28	Does the interior of the wet well need to be painted with a protective coating?	✓			Pipes need painting
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	
34	Is there a manual bar screen?		✓		

Item		Yes	No	N/A	Comments
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?	✓			Check valve vault holding water
38	Is there any noticeable corrosion in the dry pit?	✓			Check valve vault
39	If there is a dry pit that has power ventilation, does it work?			✓	
40	Is there a dehumidifier in the dry pit?			✓	
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	
8	Is there a water seal failure sensor in the pump?	✓			
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#17
Station Address:	Parker Boats Works

Date of Inspection:	1/13/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	5











Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e., end of "road" In the woods)?				Parker Boats Works
3	In what year was it constructed?				1999
4	What is the design capacity (permitted)?				320 gpm
5	What is the wet well diameter (feet)?				6 feet
6	What is the diameter of force main leaving the station?				2 inch (Grinder Pump)
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				Not Measured
	Depth to inlet?				Not Measured
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e., wet/dry well and generator building) (Only applicable if structures not gas and water tight)			✓	
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?	✓			
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100-year flood elevation?	✓			
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?	✓			
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?	✓			
22	If the site is fenced, is it locked?	✓			
23	If no fencing, are components padlocked? (i.e., wet well lid, valve box lid and electric panels)?			✓	
24	Is there potable water available on the site?		✓		
25	Is there a back-flow preventer on the potable water?			✓	
26	Is there positive pressure ventilation for dry wells?			✓	
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)		✓		No lights
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?		✓		
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?		✓		
36	Is there a connection for back-up power?		✓		
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)			✓	

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer			✓	
2	Model			✓	
3	Serial Number			✓	
4	Year Purchased			✓	
5	Fuel Tank Size			✓	
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?			✓	

Item		Yes	No	N/A	Comments
8	When was generator last load tested?			✓	
9	Was the last generator load test successful?			✓	
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?			✓	
11	Is the generator elevated? How far?			✓	
12	Is the generator well ventilated?			✓	

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?	✓			
4	Is there an unusual amount of rust on the pumps?			✓	Submersible
5	Is the water seal working properly?	✓			
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?		✓		

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Hydromatic
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				HPGF/HPGFH 500
4	Serial numbers?				Unknown
5	Actual flow being produced. (GPM)				57.3 gpm
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter = Allen Bradley AE16DNC Voltage = 120/230 Phase = 3 RPM = 1750 Station Amps = 37.2 Pump HP = 5.0
Pump 2					
1	Pump Manufacturer?				Hydromatic
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				HPGF/HPGFH 500
4	Serial numbers?				Unknown
5	Actual flow being produced. (GPM)				70.5 gpm
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter = Allen Bradley AE16DNC Voltage = 120/230 Phase = 3 RPM = 1750 Station Amps = 37.2 Pump HP = 5.0
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	

Item		Yes	No	N/A	Comments
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?		✓		Must be held manually
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				4, Stainless Steel
8	Are all electrical components protected from corrosive elements?	✓			Electrical components should be on one (1) hooded rack
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			

Item		Yes	No	N/A	Comments
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110-volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms In addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless-steel guide rail/cable system and lifting chain for pump removal?	✓			
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			

Item		Yes	No	N/A	Comments
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		Unknown 1 ¼" PVC inlet with clear flow
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?	✓			
5	Do the suction shutoff valves work?			✓	
6	Do the discharge shutoff valves work?	✓			Assumed
7	Are there separate pump suction and discharge pipes?			✓	No suction
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?			✓	
10	Are there pressure gauges in place and working?		✓		
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?	✓			Minor leaks around discharge pipes
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?			✓	
17	If there is a sump pump and/or drainage pipe, is it functioning properly?			✓	

Item		Yes	No	N/A	Comments
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?			✓	
19	Is the discharge of the sump and/or drainage pipe above the high water alarm level in the wet well?			✓	
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?			✓	
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?			✓	
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)	✓			
26	Is there a grease problem in the wet well?		✓		
27	Is there any excessive corrosion in the wet well?		✓		
28	Does the interior of the wet well need to be painted with a protective coating?	✓			Infiltration at steps and discharge pipes
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	
34	Is there a manual bar screen?		✓		

Item		Yes	No	N/A	Comments
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?			✓	
38	Is there any noticeable corrosion in the dry pit?			✓	
39	If there is a dry pit that has power ventilation, does it work?			✓	
40	Is there a dehumidifier in the dry pit?			✓	
41	If there is a dehumidifier in the dry pit, is it working?			✓	

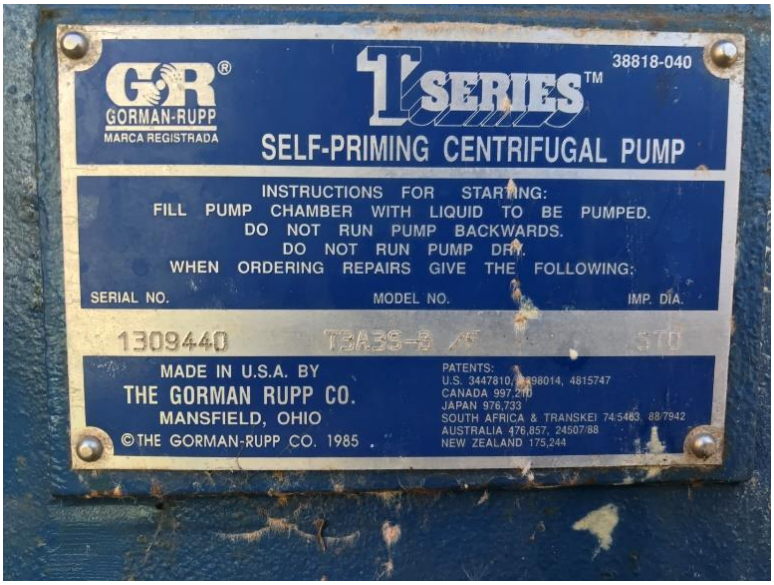
Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	
8	Is there a water seal failure sensor in the pump?			✓	
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#18
Station Address:	103B Madison Bay Dr.

Date of Inspection:	1/19/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	3









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e. end of "road" In the woods)?				In a neighborhood
3	In what year was it constructed?				2003
4	What is the design capacity (permitted)?				100 gpm
5	What is the wet well diameter (feet)?				8 feet
6	What is the diameter of force main leaving the station?				4 inch
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				Not Measured
	Depth to inlet?				Not Measured
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e. wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?	✓			
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100 year flood elevation?	✓			Pump enclosure has power ventilation
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?	✓			
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?	✓			
22	If the site is fenced, is it locked?	✓			
23	If no fencing, are components padlocked? (i.e., wet well lid, valve box lid and electric panels)?			✓	
24	Is there potable water available on the site?	✓			
25	Is there a back-flow preventer on the potable water?		✓		
26	Is there positive pressure ventilation for dry wells?	✓			Pump enclosure has power ventilation
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)	✓			
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?		✓		
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?		✓		
36	Is there a connection for back-up power?	✓			
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)	✓			Portable generator

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer			✓	
2	Model			✓	
3	Serial Number			✓	
4	Year Purchased			✓	
5	Fuel Tank Size			✓	
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?			✓	

Item		Yes	No	N/A	Comments
8	When was generator last load tested?			✓	
9	Was the last generator load test successful?			✓	
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?			✓	
11	Is the generator elevated? How far?			✓	
12	Is the generator well ventilated?			✓	

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?		✓		3” discharge
4	Is there an unusual amount of rust on the pumps?		✓		
5	Is the water seal working properly?			✓	
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?	✓			Pumps run hot when it rains or when other stations are pumping in to the same force main

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Gorman Rupp Manufactured: 05-25-2005
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T3A3S-B /F
4	Serial numbers?				1309440
5	Actual flow being produced. (GPM)				101.8 gpm @ 106.3 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter = Allen Bradley FVNR 509 C00 DIJ Voltage = 277/480 Phase = 3 RPM = 1950 Station Amps = 37.4 Pump HP = 15.0 FLA = 18.7
Pump 2					
1	Pump Manufacturer?				Gorman Rupp
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				T3A3S-B /F
4	Serial numbers?				Unknown
5	Actual flow being produced. (GPM)				113.6 gpm @ 99.3 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter = Allen Bradley FVNR 509 C00 DIJ Voltage = 277/480 Phase = 3 RPM = 1950 Station Amps = 37.4 Pump HP = 15.0 FLA = 18.7

Item		Yes	No	N/A	Comments
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				4, Stainless Steel
8	Are all electrical components protected from corrosive elements?	✓			Electrical components should be on one (1) hooded rack

Item		Yes	No	N/A	Comments
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110 volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms In addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless steel guide rail/cable system and lifting chain for pump removal?		✓		Pumps above ground

Item		Yes	No	N/A	Comments
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?	✓			
5	Do the suction shutoff valves work?	✓			
6	Do the discharge shutoff valves work?	✓			
7	Are there separate pump suction and discharge pipes?	✓			
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?			✓	
10	Are there pressure gauges in place and working?		✓		
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?		✓		
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?		✓		
17	If there is a sump pump and/or drainage pipe, is it functioning properly?			✓	

Item		Yes	No	N/A	Comments
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?			✓	
19	Is the discharge of the sump and/or drainage pipe above the high water alarm level in the wet well?			✓	
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?			✓	
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?			✓	
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)		✓		Minor buildup of solids
26	Is there a grease problem in the wet well?	✓			
27	Is there any excessive corrosion in the wet well?	✓			Manhole lid heavily corroded
28	Does the interior of the wet well need to be painted with a protective coating?	✓			Minor infiltration
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	
34	Is there a manual bar screen?		✓		

Item		Yes	No	N/A	Comments
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?			✓	
38	Is there any noticeable corrosion in the dry pit?			✓	
39	If there is a dry pit that has power ventilation, does it work?			✓	
40	Is there a dehumidifier in the dry pit?			✓	
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	
8	Is there a water seal failure sensor in the pump?			✓	
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#19
Station Address:	918A Eastman Creek Dr.

Date of Inspection:	1/19/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	3









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e., end of "road" In the woods)?				In a neighborhood
3	In what year was it constructed?				2005
4	What is the design capacity (permitted)?				80 gpm @ 20 ft 120 gpm @ 25 ft
5	What is the wet well diameter (feet)?				8 feet
6	What is the diameter of force main leaving the station?				4 inch
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				15 ft
	Depth to inlet?				11 ft
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e., wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			Check valve vault
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?	✓			
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100-year flood elevation?	✓			
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?	✓			
20	Is the general area around the pump station in a state of general cleanliness?		✓		Minor trash on the ground
21	Is the site fenced?	✓			
22	If the site is fenced, is it locked?	✓			
23	If no fencing, are components padlocked? (i.e., wet well lid, valve box lid and electric panels)?			✓	
24	Is there potable water available on the site?	✓			
25	Is there a back-flow preventer on the potable water?	✓			
26	Is there positive pressure ventilation for dry wells?		✓		
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)	✓			
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?	✓			Vents for the wet well and check valve vault need to be painted
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?	✓			
36	Is there a connection for back-up power?		✓		
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)	✓			Standby generator with transfer switch

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer				Cummins
2	Model				CPG-A045T332
3	Serial Number				Unknown
4	Year Purchased				2018
5	Fuel Tank Size				132 gallons
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?				Refer to Owner

Item		Yes	No	N/A	Comments
8	When was generator last load tested?				Refer to Owner
9	Was the last generator load test successful?				Refer to Owner
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?	✓			
11	Is the generator elevated? How far?	✓			3 Feet
12	Is the generator well ventilated?	✓			

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?			✓	
4	Is there an unusual amount of rust on the pumps?			✓	Submersible
5	Is the water seal working properly?	✓			
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?		✓		

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Zoeller
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				6122
4	Serial numbers?				Unknown
5	Actual flow being produced. (GPM)				74.4 gpm
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter = NEMA size 1 Voltage = 460 Phase = 3, 4 wire RPM = 1750 Station Amps = 13.8 Pump HP = 2.0 FLA = 3.4
Pump 2					
1	Pump Manufacturer?				Zoeller
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				6122
4	Serial numbers?				Unknown
5	Actual flow being produced. (GPM)				82.3gpm
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter = NEMA size 1 Voltage = 460 Phase = 3, 4 wire RPM = 1750 Station Amps = 13.8 Pump HP = 2.0 FLA = 3.4
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	

Item		Yes	No	N/A	Comments
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				4, 12 Carbon Steel (not SS)
8	Are all electrical components protected from corrosive elements?	✓			
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			

Item		Yes	No	N/A	Comments
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110-volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms in addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless-steel guide rail/cable system and lifting chain for pump removal?	✓			
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			

Item		Yes	No	N/A	Comments
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?	✓			
5	Do the suction shutoff valves work?			✓	None
6	Do the discharge shutoff valves work?		✓		No operating wheels
7	Are there separate pump suction and discharge pipes?		✓		
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?		✓		
10	Are there pressure gauges in place and working?		✓		In place but not working
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?		✓		
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?	✓			Drain pipe in check valve vault
17	If there is a sump pump and/or drainage pipe, is it functioning properly?	✓			

Item		Yes	No	N/A	Comments
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?	✓			
19	Is the discharge of the sump and/or drainage pipe above the high water alarm level in the wet well?	✓			
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?	✓			
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?	✓			
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)		✓		Minor buildup of grease
26	Is there a grease problem in the wet well?	✓			
27	Is there any excessive corrosion in the wet well?	✓			Pipes, check valve vault, and vents are corroded
28	Does the interior of the wet well need to be painted with a protective coating?		✓		
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	
34	Is there a manual bar screen?		✓		

Item		Yes	No	N/A	Comments
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?	✓			Check valve vault is holding water
38	Is there any noticeable corrosion in the dry pit?	✓			Check valve vault is heavily corroded.
39	If there is a dry pit that has power ventilation, does it work?			✓	
40	Is there a dehumidifier in the dry pit?			✓	
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	
8	Is there a water seal failure sensor in the pump?	✓			
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#21
Station Address:	300 Links Dr. (North River Club House)

Date of Inspection:	1/13/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	5









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?	✓			
2	What is the physical location (i.e., end of "road" In the woods)?				At neighborhood clubhouse
3	In what year was it constructed?				2017
4	What is the design capacity (permitted)?				Unknown
5	What is the wet well diameter (feet)?				6 feet
6	What is the diameter of force main leaving the station?				2 inch (Grinder Pump)
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				Not Measured
	Depth to inlet?				Not Measured
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?	✓			

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e., wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			Check valve vault
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?		✓		
17	Are there appropriate safety placards on all structures and equipment?	✓			
18	Are the wet/dry well vents above the 100-year flood elevation?	✓			
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?	✓			
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?		✓		
22	If the site is fenced, is it locked?			✓	
23	If no fencing, are components padlocked? (i.e. wet well lid, valve box lid and electric panels)?	✓			
24	Is there potable water available on the site?		✓		
25	Is there a back-flow preventer on the potable water?			✓	
26	Is there positive pressure ventilation for dry wells?			✓	
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)		✓		No lights
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?	✓			
33	Is the station in need of any exterior protective painting?		✓		
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?	✓			
36	Is there a connection for back-up power?	✓			Connection for portable generator
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)	✓			Standby generator with transfer switch

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer				Kohler – 20 kW
2	Model				20RE0ZK
3	Serial Number				SGM32J429
4	Year Purchased				2017
5	Fuel Tank Size				Unknown
6	If portable generator how many stations does it serve?			✓	

Item		Yes	No	N/A	Comments
7	How often is the generator load tested?				Refer to Owner
8	When was generator last load tested?				Refer to Owner
9	Was the last generator load test successful?				Refer to Owner
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?	✓			
11	Is the generator elevated? How far?	✓			3 feet
12	Is the generator well ventilated?	✓			

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?	✓			
4	Is there an unusual amount of rust on the pumps?			✓	Submersible
5	Is the water seal working properly?	✓			
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			

Item		Yes	No	N/A	Comments
10	Is there anything obvious about the pumps that might compromise their continued service?		✓		
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Unknown
2	Sales Representative to be contacted about this pump?				Unknown
3	Model numbers/ Catalog No.?				Unknown
4	Serial numbers?				Unknown
5	Actual flow being produced. (GPM)				52.9 gpm @ 96.4 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Solid state starters
Pump 2					
1	Pump Manufacturer?				Unknown
2	Sales Representative to be contacted about this pump?				Unknown
3	Model numbers/ Catalog No.?				Unknown
4	Serial numbers?				Unknown
5	Actual flow being produced. (GPM)				48.5 gpm @ 119.7 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Solid state starters
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	

Item		Yes	No	N/A	Comments
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				3, Fiberglass
8	Are all electrical components protected from corrosive elements?	✓			
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel	✓			

Item		Yes	No	N/A	Comments
	24-7-365 and has a back-up battery supply in addition to a power generator?				
13	Are there any 110-volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms In addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless-steel guide rail/cable system and lifting chain for pump removal?	✓			
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?	✓			

Item		Yes	No	N/A	Comments
5	Do the suction shutoff valves work?			✓	
6	Do the discharge shutoff valves work?	✓			
7	Are there separate pump suction and discharge pipes?			✓	No suction
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?			✓	
10	Are there pressure gauges in place and working?	✓			
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?		✓		
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?	✓			Drain pipe in check valve vault
17	If there is a sump pump and/or drainage pipe, is it functioning properly?	✓			
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?	✓			
19	Is the discharge of the sump and/or drainage pipe above the high water alarm level in the wet well?	✓			

Item		Yes	No	N/A	Comments
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?	✓			
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?			✓	
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)	✓			
26	Is there a grease problem in the wet well?		✓		
27	Is there any excessive corrosion in the wet well?		✓		
28	Does the interior of the wet well need to be painted with a protective coating?		✓		
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	
34	Is there a manual bar screen?		✓		
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown

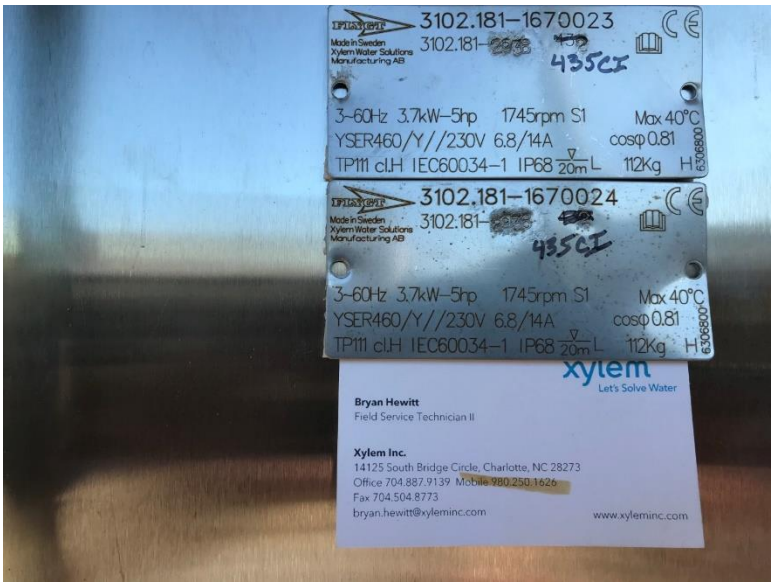
Item		Yes	No	N/A	Comments
37	Are there any leaks in the dry pit?	✓			Minor water in check valve vault
38	Is there any noticeable corrosion in the dry pit?		✓		
39	If there is a dry pit that has power ventilation, does it work?			✓	
40	Is there a dehumidifier in the dry pit?			✓	
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	
8	Is there a water seal failure sensor in the pump?	✓			
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#22
Station Address:	220 Shearwater Ln

Date of Inspection:	1/19/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	3









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?		✓		
2	What is the physical location (i.e., end of "road" In the woods)?				In a neighborhood
3	In what year was it constructed?				2016
4	What is the design capacity (permitted)?				307 gpm
5	What is the wet well diameter (feet)?				8 feet
6	What is the diameter of force main leaving the station?				
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				Not Measured
	Depth to inlet?				Not Measured
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?		✓		

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e., wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			Check valve vault
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?	✓			
17	Are there appropriate safety placards on all structures and equipment?		✓		
18	Are the wet/dry well vents above the 100-year flood elevation?	✓			
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?	✓			
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?	✓			
22	If the site is fenced, is it locked?	✓			
23	If no fencing, are components padlocked? (i.e., wet well lid, valve box lid and electric panels)?			✓	
24	Is there potable water available on the site?	✓			
25	Is there a back-flow preventer on the potable water?	✓			
26	Is there positive pressure ventilation for dry wells?			✓	
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)	✓			
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?		✓		
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?	✓			
36	Is there a connection for back-up power?		✓		
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)	✓			Standby generator with transfer switch

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer				Generac – 50 kW
2	Model				SD0050KG163.4D18HPSY3
3	Serial Number				3001453317
4	Year Purchased				2017
5	Fuel Tank Size				132 gallons
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?				Refer to Owner

Item		Yes	No	N/A	Comments
8	When was generator last load tested?				Refer to Owner
9	Was the last generator load test successful?				Refer to Owner
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?	✓			
11	Is the generator elevated? How far?	✓			3 Feet
12	Is the generator well ventilated?	✓			

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?			✓	
4	Is there an unusual amount of rust on the pumps?			✓	Submersible
5	Is the water seal working properly?	✓			
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?		✓		

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Flygt
2	Sales Representative to be contacted about this pump?				Bryan Hewitt Bryan.hewitt@xyleminc.com
3	Model numbers/ Catalog No.?				3102.181-2936
4	Serial numbers?				3102.181-1670023
5	Actual flow being produced. (GPM)				282.0 gpm @ 36.6 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter = NEMA size 1 Voltage = 277/480 Phase = 3 RPM = 1745 Station Amps = 22.3 Pump HP = 5.0 FLA = 9.6
Pump 2					
1	Pump Manufacturer?				Flygt
2	Sales Representative to be contacted about this pump?				Bryan Hewitt Bryan.hewitt@xyleminc.com
3	Model numbers/ Catalog No.?				3102.181-2936
4	Serial numbers?				3102.181-1670024
5	Actual flow being produced. (GPM)				250.7 gpm @ 37.2
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter = NEMA size 1 Voltage = 277/480 Phase = 3 RPM = 1745 Station Amps = 22.3 Pump HP = 5.0 FLA = 9.6
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	

Item		Yes	No	N/A	Comments
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				4x, Stainless Steel
8	Are all electrical components protected from corrosive elements?	✓			
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			

Item		Yes	No	N/A	Comments
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110-volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			Probe Rod with backup high and low floats
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms in addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless-steel guide rail/cable system and lifting chain for pump removal?	✓			
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			

Item		Yes	No	N/A	Comments
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?	✓			
5	Do the suction shutoff valves work?			✓	None
6	Do the discharge shutoff valves work?	✓			
7	Are there separate pump suction and discharge pipes?		✓		No suction
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?		✓		
10	Are there pressure gauges in place and working?	✓			
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?		✓		
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?	✓			Drain pipe in check valve vault
17	If there is a sump pump and/or drainage pipe, is it functioning properly?	✓			

Item		Yes	No	N/A	Comments
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?	✓			
19	Is the discharge of the sump and/or drainage pipe above the high water alarm level in the wet well?	✓			
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?	✓			
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?		✓		Trash basked is 80% full
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)	✓			Minor buildup of grease
26	Is there a grease problem in the wet well?	✓			
27	Is there any excessive corrosion in the wet well?	✓			Pipes are slightly corroded
28	Does the interior of the wet well need to be painted with a protective coating?		✓		
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	
34	Is there a manual bar screen?		✓		

Item		Yes	No	N/A	Comments
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?			✓	
38	Is there any noticeable corrosion in the dry pit?			✓	
39	If there is a dry pit that has power ventilation, does it work?			✓	
40	Is there a dehumidifier in the dry pit?			✓	
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	
8	Is there a water seal failure sensor in the pump?	✓			
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

Station Number:	#24
Station Address:	~ 2355 Lennoxville Rd

Date of Inspection:	1/19/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	3









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?		✓		
2	What is the physical location (i.e., end of "road" In the woods)?				Side of road
3	In what year was it constructed?				2018
4	What is the design capacity (permitted)?				135 gpm @ 56 ft
5	What is the wet well diameter (feet)?				8 feet
6	What is the diameter of force main leaving the station?				4-inch PVC
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				18.21 ft
	Depth to inlet?				13.39 ft
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?		✓		

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e., wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			Check valve vault
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?	✓			
17	Are there appropriate safety placards on all structures and equipment?		✓		
18	Are the wet/dry well vents above the 100-year flood elevation?	✓			
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?	✓			
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?	✓			
22	If the site is fenced, is it locked?	✓			
23	If no fencing, are components padlocked? (i.e., wet well lid, valve box lid and electric panels)?			✓	
24	Is there potable water available on the site?	✓			
25	Is there a back-flow preventer on the potable water?	✓			
26	Is there positive pressure ventilation for dry wells?			✓	
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)	✓			
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?		✓		
33	Is the station in need of any exterior protective painting?		✓		
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?	✓			
36	Is there a connection for back-up power?		✓		
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)	✓			Standby generator with transfer switch

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer				Generac – 30 kW
2	Model				SD0030KG162.4D18HPSY3
3	Serial Number				3004231847
4	Year Purchased				2019
5	Fuel Tank Size				132 gallons
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?				Refer to Owner

Item		Yes	No	N/A	Comments
8	When was generator last load tested?				Refer to Owner
9	Was the last generator load test successful?				Refer to Owner
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?	✓			
11	Is the generator elevated? How far?	✓			3 Feet
12	Is the generator well ventilated?	✓			

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?			✓	4-inch discharge
4	Is there an unusual amount of rust on the pumps?			✓	Submersible
5	Is the water seal working properly?	✓			
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Flow meter and pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?		✓		

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Flygt
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				CP3085.183 15-09-2AL
4	Serial numbers?				
5	Actual flow being produced. (GPM)				156.7 @ 68.1 ft
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter = NEMA B Voltage = 277/480 Phase = 3 RPM = 3430 Pump HP = 4 FLA = 4.9
Pump 2					
1	Pump Manufacturer?				Flygt
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				CP3085.183 15-09-2AL
4	Serial numbers?				
5	Actual flow being produced. (GPM)				156.7 @ 68.4
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter = NEMA B Voltage = 277/480 Phase = 3 RPM = 3430 Pump HP = 4 FLA = 4.9
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	

Item		Yes	No	N/A	Comments
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				4x, Stainless Steel
8	Are all electrical components protected from corrosive elements?	✓			
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			

Item		Yes	No	N/A	Comments
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110-volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			Probe Rod with backup high and low floats
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms in addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless-steel guide rail/cable system and lifting chain for pump removal?	✓			
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			

Item		Yes	No	N/A	Comments
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?	✓			
5	Do the suction shutoff valves work?			✓	None
6	Do the discharge shutoff valves work?	✓			
7	Are there separate pump suction and discharge pipes?		✓		No suction
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?		✓		
10	Are there pressure gauges in place and working?	✓			
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?		✓		
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?	✓			Drain pipe in check valve vault
17	If there is a sump pump and/or drainage pipe, is it functioning properly?	✓			

Item		Yes	No	N/A	Comments
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?	✓			
19	Is the discharge of the sump and/or drainage pipe above the high water alarm level in the wet well?	✓			
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?	✓			Gate valve
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?	✓			Trash basked is installed incorrectly
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)	✓			
26	Is there a grease problem in the wet well?		✓		
27	Is there any excessive corrosion in the wet well?		✓		
28	Does the interior of the wet well need to be painted with a protective coating?		✓		
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	

Item		Yes	No	N/A	Comments
34	Is there a manual bar screen?		✓		
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?			✓	
38	Is there any noticeable corrosion in the dry pit?			✓	
39	If there is a dry pit that has power ventilation, does it work?			✓	
40	Is there a dehumidifier in the dry pit?			✓	
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer and Crouzet PLC to operate pumps via Multitrode probe signals
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	
8	Is there a water seal failure sensor in the pump?	✓			
9	Is there a high/low current sensor?			✓	

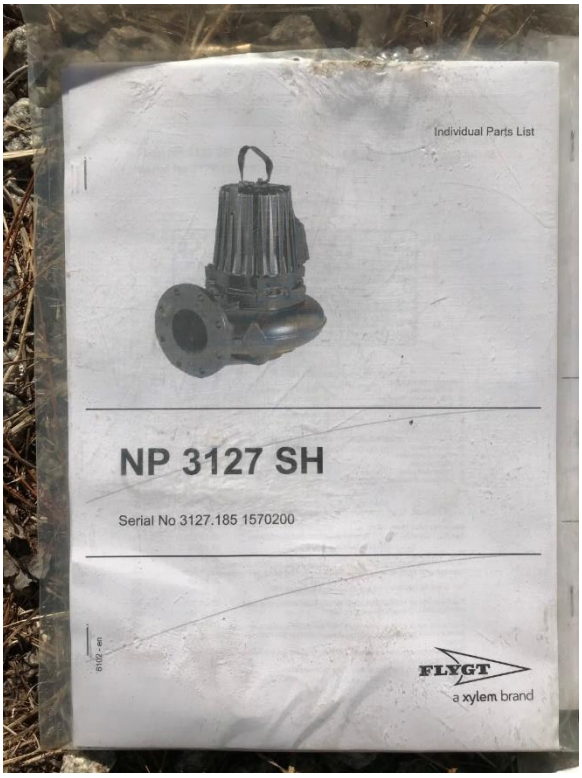
Item		Yes	No	N/A	Comments
10	Does the SCADA monitor the AC power status?			✓	

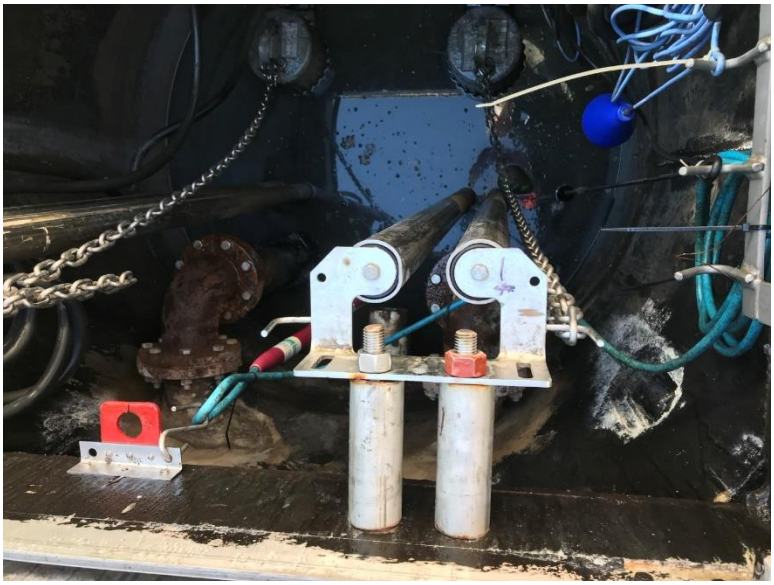
Station Number:	#25
Station Address:	~ 503 Russells Creek Road

Date of Inspection:	1/19/2021	Current Weather:	Clear
Inspection Completed by:	Stephen Reece Gary Stone Elbert Godette	Days since last significant rain:	3









Item		Yes	No	N/A	Comments
Part A: General Pump Station Information					
1	Is the Pump Station Identification present?		✓		
2	What is the physical location (i.e., end of "road" In the woods)?				Side of road
3	In what year was it constructed?				~ 2020
4	What is the design capacity (permitted)?				118 gpm @ 126 ft
5	What is the wet well diameter (feet)?				5 feet
6	What is the diameter of force main leaving the station?				4 inch
7	Are the As-builts available for this station?	✓			
	Depth of wet well?				7.27 feet
	Depth to inlet?				2.38 feet
8	How often is pump station inspected?				Everyday
9	Is the maintenance history available? (retrieve if available)	✓			
10	Is the accident history available? (retrieve if available)	✓			
11	Is the warranty information for all equipment and major components available? (retrieve if available)	✓			Refer to Owner
12	Is the test history for water tightness, leakage, instrumentation, pump, electrical components and controls made available? (retrieve if available)	✓			Refer to Owner
13	Are the shop drawings for all installed equipment and each major component and a pump curve/system curve analysis showing the design operating points made available?	✓			Refer to Owner
14	Are Emergency numbers posted at site?		✓		

Item		Yes	No	N/A	Comments
15	Are Pump Station structures separated (i.e., wet/dry well and generator building) (Only applicable if structures not gas and water tight)	✓			Check valve vault
16	Are all structures on site protected from damage due to vehicles entering the pump station facility?	✓			
17	Are there appropriate safety placards on all structures and equipment?		✓		
18	Are the wet/dry well vents above the 100-year flood elevation?	✓			
19	Are there corrosion resistant insect/bird screens on the wet/dry well vents?	✓			
20	Is the general area around the pump station in a state of general cleanliness?	✓			
21	Is the site fenced?	✓			
22	If the site is fenced, is it locked?	✓			
23	If no fencing, are components padlocked? (i.e., wet well lid, valve box lid and electric panels)?			✓	
24	Is there potable water available on the site?	✓			
25	Is there a back-flow preventer on the potable water?	✓			
26	Is there positive pressure ventilation for dry wells?			✓	
27	Do all lights work properly? (site lights on post, wet/dry well interior lights)		✓		No lights
28	Is the site in a remote location?		✓		
29	Is the station susceptible to flooding from a water source?		✓		

Item		Yes	No	N/A	Comments
30	Does the access road provide acceptable entry onto the site?	✓			
31	If the station is a pig launching or receiving station, is there adequate room for those operations and a way to properly remove and dispose of the waste material?			✓	
32	Is there excessive odor in the area of the pump station?	✓			
33	Is the station in need of any exterior protective painting?		✓		
34	Does the station have a history of power outage?		✓		
35	Is there standby power in place?	✓			
36	Is there a connection for back-up power?		✓		
37	If there is a back-up power source, what type is it? (portable generator/standby generator alternate power feed)	✓			Standby generator with transfer switch

If the back-up power source is a type of generator, fill out the information on the following page (Part B: Generator Information). If not a generator, describe the back-up power in the notes at the end of this check-list.

Item		Yes	No	N/A	Comments
Part B: Generator Information					
1	Make or manufacturer				Generac – 50 kW
2	Model				SD50
3	Serial Number				3002682173
4	Year Purchased				~2018
5	Fuel Tank Size				132 gallons
6	If portable generator how many stations does it serve?			✓	
7	How often is the generator load tested?				Refer to Owner

Item		Yes	No	N/A	Comments
8	When was generator last load tested?				Refer to Owner
9	Was the last generator load test successful?				Refer to Owner
10	Is the generator protected from the elements and corrosive effects of the waste in the collection system?	✓			
11	Is the generator elevated? How far?	✓			3 Feet
12	Is the generator well ventilated?	✓			

Item		Yes	No	N/A	Comments
Part C: Information on Pumps within the Pump Station					
General Information					
1	Pump No. 1 in service?	✓			
2	Pump No. 2 in service?	✓			
3	If the discharge pipes are less than 4” in diameter, are the pumps grinder pumps?			✓	4 inch discharge
4	Is there an unusual amount of rust on the pumps?			✓	Submersible
5	Is the water seal working properly?	✓			
6	Are the connections to the discharge pipe flush?	✓			
7	Is there a flow meter, pump counters or other means by which to measure flow?	✓			Pump counters
8	Pumps capable of keeping a cumulative operational run time log?	✓			
9	Are spare parts (or an adequate spare parts inventory) available to replace or rebuild pumps if needed?	✓			
10	Is there anything obvious about the pumps that might compromise their continued service?	✓			1 pump is seated incorrectly

Item		Yes	No	N/A	Comments
Name Plate Information					
Pump 1					
1	Pump Manufacturer?				Flygt
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				NP 3127 SH
4	Serial numbers?				3127.185 1570200
5	Actual flow being produced. (GPM)				208.1
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter = NEMA size 2 Voltage = 120/230 Phase = 3 Station Amps = 60.3 Pump HP = 11.0 RPM = 3495 FLA = 26
Pump 2					
1	Pump Manufacturer?				Flygt
2	Sales Representative to be contacted about this pump?	✓			
3	Model numbers/ Catalog No.?				NP 3127 SH
4	Serial numbers?				Unknown
5	Actual flow being produced. (GPM)				217.3
6	Hp/ rpm/ phase/ voltage/Total FLA?				Starter = NEMA size 2 Voltage = 120/230 Phase = 3 Station Amps = 60.3 Pump HP = 11.0 RPM = 3495 FLA = 26
Back-up Pump if Applicable					
1	Pump Manufacturer?			✓	

Item		Yes	No	N/A	Comments
2	Sales Representative to be contacted about this pump?			✓	
3	Model numbers/ Catalog No.?			✓	
4	Serial numbers?			✓	
5	Actual flow being produced. (GPM)			✓	
6	Hp/ rpm/ phase/ voltage/Total FLA?			✓	

Item		Yes	No	N/A	Comments
Part D: Control Panel and Electrical Components Information					
1	Is there an inventory, functional description and complete operating instructions available for the control panel?	✓			
2	Instructions for start-up/shut down, calibration and adjustment of all installed equipment and each major component made available?	✓			
3	Pump control panel easily accessible?	✓			
4	Control panel equipped with Hand-Off-Auto switch?	✓			
5	Each pump supplied with a separate power supply, motor starter, alarm sensors, electrical components and instrumentation, and control systems?	✓			
6	Electrical components and instrumentation capable of being disconnected from outside of the wet well?	✓			
7	NEMA rating of the control panel?				4x, Stainless Steel
8	Are all electrical components protected from corrosive elements?	✓			
9	Are all cables and conduits water/gas tight and corrosion resistant?	✓			

Item		Yes	No	N/A	Comments
10	Are all enclosures, switches and indicator lights equipped with UL approved label?	✓			
11	Is the station equipped with a telemetry system?	✓			Auto dialer
12	If the station is equipped with a telemetry system, is it capable of contacting personnel 24-7-365 and has a back-up battery supply in addition to a power generator?	✓			
13	Are there any 110-volt receptacles available on site?	✓			
14	Do the wet well level control floats work properly (i.e., pumps turn on when their floats are lifted above the switch point)?	✓			Probe Rod with backup high and low floats
15	High water audio alarm (does it work)? (found by lifting it above the switch point)	✓			
16	Does the high water alarm light work? (found by lifting it above the switch point)	✓			
17	Are the floats protected from the effects of inflow and pump turbulence?	✓			
18	Are the float switches the sealed mercury type?	✓			
19	Is there a back-up float at the high water alarm level if the switches are not the sealed mercury type?			✓	
20	Is there a back-up power source for all alarms in addition to a power generator?	✓			

Item		Yes	No	N/A	Comments
Part E: Wet/Dry Well and Valve Box Information					
1	Is there a stainless-steel guide rail/cable system and lifting chain for pump removal?	✓			
2	Is the wet well floor designed so as to direct flow towards pump inlet?	✓			

Item		Yes	No	N/A	Comments
3	Are there any protrusions from the inside wall of the wet well that might cause solids to accumulate?		✓		
4	Do the access hatches and ladders provide safe entry into the wet/dry well for regular maintenance?	✓			
5	Do the suction shutoff valves work?			✓	None
6	Do the discharge shutoff valves work?	✓			
7	Are there separate pump suction and discharge pipes?		✓		No suction
8	Do the check valves work properly?	✓			
9	If there are any limit switches on the check valves, do they work?		✓		
10	Are there pressure gauges in place and working?		✓		
11	Is there any evidence of overflows?		✓		
12	Is there evidence of high water within the wet well?		✓		
13	Is there a history of overflows at this station?		✓		
14	Are there any leaks around the inlet pipes or discharge pipe where it intersects the wall of the wet well?		✓		
15	Is there any sewage backed up into influent line?		✓		
16	Are the pump station structures other than the wet well equipped with a sump pump and/or drainage pipe?	✓			Drain pipe in check valve vault
17	If there is a sump pump and/or drainage pipe, is it functioning properly?	✓			

Item		Yes	No	N/A	Comments
18	If there is a sump pump and/or drainage pipe, does the drainage empty into the collection system only?	✓			
19	Is the discharge of the sump and/or drainage pipe above the high water alarm level in the wet well?	✓			
20	Are all of the sumps and/or drainage pipes equipped with back-flow valves for gases and liquids?	✓			
21	Proper buoyancy protection? (Found on As-Builts)				Unknown
22	Does the wet well have power ventilation?		✓		
23	If the wet well has power ventilation, does it work?			✓	
24	Is the trash basket clean?			✓	
25	Is the wet well in a relative state of cleanliness? (i.e., no excessive solids build up)	✓			
26	Is there a grease problem in the wet well?		✓		
27	Is there any excessive corrosion in the wet well?		✓		
28	Does the interior of the wet well need to be painted with a protective coating?		✓		
29	Does the influent sluice gate work properly?			✓	
30	Do the stop gates work properly?			✓	
31	Is there a mechanical bar screen?		✓		
32	Does the mechanical bar screen work properly?			✓	
33	Does the mechanical bar screen need replacing?			✓	
34	Is there a manual bar screen?		✓		

Item		Yes	No	N/A	Comments
35	Is the manual bar screen clean?			✓	
36	Are the system pipes sized so as to maintain a velocity of between 2 and 8 fps? (Found with information from as-Builts)				Unknown
37	Are there any leaks in the dry pit?		✓		Check valve vault
38	Is there any noticeable corrosion in the dry pit?	✓			Minor in check valve vault
39	If there is a dry pit that has power ventilation, does it work?			✓	
40	Is there a dehumidifier in the dry pit?			✓	
41	If there is a dehumidifier in the dry pit, is it working?			✓	

Item		Yes	No	N/A	Comments
Part F: SCADA System Information					
1	Is there a SCADA system in place?		✓		Auto dialer
2	If there is a SCADA system in place, is it working?			✓	
3	Is there a wet well, high level sensor?			✓	
4	Is there a wet well, low level sensor?			✓	
5	Is there a dry well, high level sensor?			✓	
6	Is there a high/low pH sensor?			✓	
7	Is there a high temperature sensor?			✓	
8	Is there a water seal failure sensor in the pump?	✓			
9	Is there a high/low current sensor?			✓	
10	Does the SCADA monitor the AC power status?			✓	

APPENDIX

E

Lift Station Electrical Inspection

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Town of Beaufort, North Carolina Wastewater System Assessment

March 2021

1.0 620 Front Street Lift Station # 1: This is a below ground lift station with a water proof hatch extending above grade.

a. **Pumps:** The pumps are Gorman Rupp T-3AB centrifugal 15 HP, 230 VAC, 3 Ø.

b. **Electrical Service:** The electrical service entrance extends underground at 120/230, VAC 3 Ø high leg delta. The feeder extends into a 100-ampere meter socket and into a 100 ampere 3 pole general duty safety switch which parallel feeds a Generac automatic transfer switch. This main safety switch also feeds a 100-ampere load center for low voltage power. The load side of the ATS feeds on the back side of the rack to a Flygt pump control panel. This panel has a 50-ampere three pole circuit breaker for each pump and a NEMA size 2 FVNR starter.

This is a 120/230 VAC high leg system. This panel has bubbler controls with backup floats via Gorman Rupp's "Integrinex" logic controller. The control panel was made in 1999 and is in a NEMA 4-X enclosure. All of the electrical gear is non stainless steel and is extremely rusty. The standby side of the Generac ATS feeds from a Generac 40 KW KW model 99A- 06010-S standby generator with a 150-ampere circuit breaker. This generator is in a non-sound attenuated enclosure. This generator is very old but still looks effective.

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The voltages measured were phase to phase 245,245, and 246.
The single phase to ground voltages were 123, 214, and 122.
High leg phase: B leg

Notes: A high leg is developed on a 120/230 VAC 3 Ø system because all the single-phase load is carried on one center tapped transformer. No single-phase load should be placed on that high leg phase. Per most electrical systems, the high leg should be on the B phase and identified. The tape color code for the high leg B indication is black, red, or blue and is not correct.

c. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Replace the existing pump control panel with a new pump control panel to include solid state soft start starters to ease the start-up load on the generator. The generator is old but appears in fair condition. Include pressure transducers with float backups to provide a continuous analog level signal. The electrical gear should be combined on one hooded rack and be housed in NEMA 4-X rated enclosures.

2.0 1114 Front Street Lift Station # 2: This is a below ground lift station with a water proof hatch extending above grade.

a. **Pumps:** The pumps are Gorman Rupp T-3AB centrifugal 15 HP, 230 VAC, 3 Ø.

b. **Electrical Service:** The electrical service entrance extends underground at 120/230 VAC, 3 Ø high leg delta. The feeder extends into a 100-ampere meter socket and into a 200-ampere 3-pole DPDT manual transfer switch and a quick connect receptacle. This switch on the load side feeds a Cummins Onan automatic transfer switch. The load side of the automatic transfer switch feeds a 200-ampere MCB panelboard. There is a 150-ampere circuit breaker to feed the pump control panel. This panelboard is in good shape. The MDP feeds a rack mounted "Myles Electrodynamics" pump control panel. This panel has a 70 ampere three pole circuit breaker for each pump and a NEMA size 2 FVNR starter.

This is a 120/230 VAC high leg system. This panel has bubbler controls with backup floats via Gorman Rupp's "Integrinex "logic controller. The control panel was made in 2001 and is in a NEMA 4-X enclosure. All of the electrical gear is non stainless steel and is extremely rusty. The standby side of the Cummins/Onan ATS feeds from a Cummins/Onan 50 KW model C50-D6C standby generator. This generator is in a non-sound attenuated enclosure. This generator is relatively new.

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The voltages measured were phase to phase 248, 248, and 247.
The single phase to ground voltages were 121, 213, and 122.
High leg phase: B leg

Notes: A high leg is developed on a 120/230 VAC three phase system because all the single-phase load is carried on one center tapped transformer. No single-phase load should be placed on that high leg phase. Per most electrical systems, the high leg should be on the B phase and identified. The tape color code for the high leg B is correct.

d. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Replace the existing pump control panel with a new pump control panel to include solid state soft start starters to ease the start-up load on the generator. The generator is in good condition. Include pressure transducers with float backups to provide a continuous analog level signal. The electrical gear should be combined on one hooded rack and be housed in NEMA 4-X rated enclosures.

3.0 1710 Front Street Lift Station # 3: This is a below ground lift station with a water proof hatch extending above grade.

a. **Pumps:** The pumps are Gorman Rupp T-3AB centrifugal 7.5 HP, 230 VAC, 3 Ø.

b. **Electrical Service:** The electrical service entrance extends underground at 120/230 VAC, 3 Ø high leg delta. The feeder extends into a 100-ampere meter socket and into a 100-ampere 3-pole general duty safety switch which parallel feeds a Generac automatic transfer switch. This main safety switch also feeds a 100-ampere loadcenter for low voltage power. The load side of the ATS feeds on the separate rack to a Flygt pump

control panel. This panel has a 70-ampere three pole circuit breaker for each pump and a NEMA size 2 FVNR starter.

This is a 120/230 VAC high leg system. This panel has bubbler controls with backup floats via Gorman Rupp's "Integrinex" logic controller. The control panel was made in 2000 and is in a NEMA 4-X enclosure. All of the electrical gear is non stainless steel and is extremely rusty. The standby side of the Generac ATS feeds from a Generac 25 KW model 99A- 06013-S standby generator with an 80-ampere circuit breaker. This generator is in a non-sound attenuated enclosure. This generator is very old but still looks effective.

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The voltages measured were phase to phase as 245,243, and 241.
The single phase to ground voltages were 119, 214, and 119.
High leg phase: B leg

Notes: A high leg is developed on a 120/230 VAC 3 Ø system because all the single-phase load is carried on one center tapped transformer. No single-phase load should be placed on that high leg phase. Per most electrical systems, the high leg should be on the B phase and so identified. The tape color code for the high leg B indication is black, red, or blue and is not correct.

c. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Replace the existing pump control panel with a new pump control panel to include solid state soft start starters to ease the start-up load on the generator. The generator is old but appears in fair condition. Include pressure transducers with float backups to provide a continuous analog level signal. The electrical gear should be combined on one hooded rack and be housed in NEMA 4-X rated enclosures.

4.0 2214 Front Street Lift Station # 4: This is a submersible lift station with pumps in a below ground wet well.

a. **Pumps:** The pumps are 3.0 HP rated 230 VAC, 3 Ø.

b. **Electrical Service:** The electrical service entrance extends from an overhead service drop at 120/230 VAC, 3 Ø. The service feeds down a pole into a 100-ampere meter socket. The electrical service has a 100-ampere 3-pole fused safety switch as the main overcurrent protection. The switch is fused at 100-amperes. This breaker feeds a 100-ampere Generac automatic transfer switch. The transfer switch enclosure is NEMA 4X stainless steel. The load side of this ATS feeds a Flygt Pump Control Panel. The Pump Control Panel is a relay-based Pump Control Panel with two NEMA size 0 FVNR motor starters. The Control Panel has 20 ampere circuit breaker for each pump. The controls are float based.

The voltages measured were phase to phase as 242, 243, 246.
The single phase to ground voltages were 119, 123, 219
High leg phase: C leg

Notes: A high leg is developed on a 120/230 VAC, 3 Ø system because all the single-phase load is carried on one center tapped transformer. No single-phase load should be placed on that high leg phase. Per most electrical systems, the high leg should be on the

B phase and identified. The tape color code for the high leg C indication is black, red, or blue and is not correct.

The auto-dialer is a "Raco Guard it" which is integral to the pump control panel and handles the discrete inputs. This dialer is in the stainless-steel enclosure and is programmable.

The generator is a Generac SD0025JG 25 KW 120/230 VAC 3 Ø. It is relatively new and in good shape.

c. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Replace the existing pump control panel with a new pump control panel to include solid state soft start starters to ease the start-up load on the generator. Include pressure transducers with float backups to provide a continuous analog level signal. The electrical gear should be combined on one hooded rack and be housed in NEMA 4-X rated enclosures.

5.0 334 Front Street Lift Station # 5: This is a below ground lift station with a water proof hatch extending above grade.

a. **Pumps:** The pumps are Gorman Rupp T-3AB centrifugal 5 HP, 230 VAC, 3 Ø.

b. **Electrical Service:** The electrical service entrance extends underground at 120/230 VAC, 3 Ø high leg delta. The feeder extends into a 200-ampere meter socket and into a 200-main circuit breaker panelboard. The panelboard is very old and rusty. Two dock receptacles are also fed from this panelboard. From the Panel the feeder extends into a Generac automatic transfer switch. The load side feeds to a rack mounted "Myles Electrodynamics" pump control panel. This panel has a 20-ampere three pole circuit breaker for each pump and a NEMA size 1 FVNR starter.

This is a 120/230 VAC high leg system. This panel has bubbler controls with backup floats via Gorman Rupp's "Integrinex" logic controller. The control panel was made in 2002 and is in a NEMA 4-X enclosure.

The voltages measured were phase to phase as 245,248, and 249.
The single phase to ground voltages were 120, 123, and 215.
High leg phase: C leg

Notes: A high leg is developed on a 120/230 VAC 3 Ø system because all the single-phase load is carried on one center tapped transformer. No single-phase load should be placed on that high leg phase. Per most electrical systems, the high leg should be on the B phase and identified. The tape color code for the high leg B indication is orange and is C phase and is not the correct color.

The standby side of the Generac ATS feeds from a Generac 25 KW model 99A- 06026 standby generator. This generator is in a non-sound attenuated enclosure.

c. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Replace the existing pump control panel with a new pump control panel to include solid state soft start starters to

ease the start-up load on the generator. Include pressure transducers with float backups to provide a continuous analog level signal. The electrical gear should be combined on one hooded rack and be housed in NEMA 4-X rated enclosures. Typically, the Town's electrical equipment cannot but mounted to a privately owned building hence the need for a hooded rack at the site. A NEMA 4-X panelboard can be installed as the new service entrance.

6.0 101B Cedar Street Lift Station # 6: This is an above ground suction lift station in a masonry building.

a. **Pumps:** The pumps are centrifugal Gorman Rupp 30-HP pumps rated for 230 VAC, 3 Ø with a FLA of 80-amperes each.

b. **Electrical Service:** The electrical service entrance is a 200-ampere 120-230 VAC, 3 Ø, 4 wire high leg. The MDP is a very old fusible disconnect panel. This panel also violates the National Electric Code for clearance and mounting height. The panel feeds a relatively new Sun State Systems pump control again mounted without proper clearances and mounting heights. The PCP line lugs feed two 125-ampere circuit breakers for each pump. The 125-ampere breakers feed ABB FVNR IEC contactors. These devices are not NEMA rated starters but actually contactors which are not as heavy duty when starting and stopping frequently. The controls are bubbler with backup floats.

The auto-dialer is a Raco "Guard It" which handles the discrete inputs. This dialer is in a metal enclosure and is programmable.

There is an exterior Generac 99A automatic transfer switch which intercepts the electrical service input. This switch has a maximum input of 300-amperes for 120/230 VAC, 3 Ø. The Generator is a Generac 99A 06027-S, 100 KW, 120/230 VAC, 3 Ø with a rating for 240-amperes.

The voltages measured were phase to phase 247,247, and 248.
The single phase to ground voltages were 216, 118, and 219.
High leg phase: A leg.

Notes: A high leg is developed on a 120/230 VAC 3 Ø system because all the single-phase load is carried on one center tapped transformer. No single-phase load should be placed on that high leg phase. Per most electrical systems, the high leg should be on the B phase and identified. The tape color code for the high leg A indication is not correct as they are taped black, red and blue respectively.

c. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Replace the existing pump control panel with a new pump control panel to include solid state soft start starters to ease the start-up load on the generator. As there is insufficient clearance within the building for code clearances, a hooded rack should be mounted outside the building for a new MDP and pump control panel. The Auto transfer switch is in fair condition and could be located to the new rack.

7.0 559 Mulberry St. Lift Station # 7: This is a below ground lift station with a water proof hatch extending above grade.

a. **Pumps:** The pumps are Gorman Rupp T-3AB centrifugal 15-HP.

b. **Electrical Service:** The electrical service entrance extends underground from a drop pole at 120/230 VAC, 3 Ø, high leg delta. The feeder extends into a 100-ampere meter socket and into a 100-ampere general duty fusible safety switch. This safety switch is very rusty. From the safety switch the feeder extends into a Generac automatic transfer switch. The load side feeds inside a fenced area to a rack mounted Myles Electrodynamics pump control panel. This panel has a 70-ampere three pole circuit breaker for each pump and a NEMA size 2 FVNR starter. The voltage color coding is completely wrong in this panel as the ungrounded conductors are taped black, red, and blue. This is a 120/230 VAC, high leg system. This panel has bubbler controls with backup floats via Gorman Rupp's "Integrinex" controller. The control panel was made in 2001 and is in a NEMA 4-X enclosure.

The voltages measured were phase to phase 248, 248, and 250.
The single phase to ground voltages were 122, 123, and 215.
High leg phase: C leg

Notes: A high leg is developed on a 120/230 VAC, 3 Ø system because all the single-phase load is carried on one center tapped transformer. No single-phase load should be placed on that high leg phase. Per most electrical systems, the high leg should be on the B phase and identified. The tape color code for the high leg B indication is orange and is C phase and is not the correct color.

The standby side of the Generac ATS feeds from a Generac 25 KW model 20A- 03959 standby generator. This generator is in a non-sound attenuated enclosure.

c. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Replace the existing pump control panel with a new pump control panel to include solid state soft start starters to ease the start-up load on the generator. The generator only has an 80-ampere breaker. The FLA of each pump is 41 amperes. Therefore, it is doubtful that both pumps can be run on standby power. Include pressure transducers with float backups to provide a continuous analog level signal. The electrical gear should be combined on one hooded rack and be housed in NEMA 4-X rated enclosures. The 100-ampere fusible disconnect is rusty and should be replaced.

8.0 314 Craven Avenue Lift Pump Station # 8: This is an above ground suction lift station in a masonry building.

a. **Pumps:** The pumps are centrifugal Gorman Rupp 20-HP pumps rated for 230 VAC, 3 Ø, with a FLA of 49-amperes each.

b. **Electrical Service:** The electrical service entrance is a 200-ampere 120-230 VAC, 3 Ø, 4 wire high leg. The MDP is a very old fusible disconnect panel. This panel also violates the National Electric Code for clearance and mounting height. The panel feeds a relatively new Sun State Systems pump control again mounted without proper clearances and mounting heights. The PCP line lugs feed two 100-ampere circuit breakers for each pump. The 100-ampere breakers feed ABB FVNR IEC contactors. These devices are not

NEMA rated starters but actually contactors which are not as heavy duty when starting and stopping frequently. The controls are bubbler with backup floats.

The auto-dialer is a Raco "Guard It" which handles the discrete inputs. This dialer is in a metal enclosure and is programmable.

There is an exterior Generac 99A automatic transfer switch which intercepts the electrical service input. This switch has a maximum input of 157 amperes for 120/230 VAC 3 Ø. The Generator is a Generac 99A 06028-S 50 KW 120/230 VAC 3 Ø with a rating for 240 amperes.

The voltages measured were phase to phase 248, 249, and 250.
The single phase to ground voltages were 124, 213, and 123.
High leg phase: B leg

Notes: A high leg is developed on a 120/230 VAC 3 Ø system because all the single-phase load is carried on one center tapped transformer. No single-phase load should be placed on that high leg phase. Per most electrical systems, the high leg should be on the B phase and identified. The tape color code for the high leg B indication is correct they are taped black, red and blue respectively.

c. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Replace the existing pump control panel with a new pump control panel to include solid state soft start starters to ease the start-up load on the generator. As there is insufficient clearance within the building for code clearances, a hooded rack should be mounted outside the building for a new MDP and pump control panel. The Auto transfer switch is in fair condition and could be located to the new rack.

9.0 1512 Live Oak Street Lift Pump Station # 9 (Piggly Wiggly):

a. **Electrical Service:** This lift station was upgraded in 2008 with a new 200-ampere service entrance with a new 200-ampere, 3-pole enclosed circuit breaker. The new voltage was established as 277/480 VAC, 3 Ø, which at that time fed a generator quick connect receptacle. Subsequently a Generac 100-KW generator was added, model SD 0100. There is an automatic transfer switch added to the expanded wood rack. There is a Square D NF 277/480 VAC panelboard rated 200-ampere main lug only with separate 100/3-pole breakers for each pump. These breakers feed independently into NEMA Size 3 FVNR motor starters. These starters are not integral to the pump control panel but are rack mounted. The pump control panel handles all the control functions. This control panel is a Myles Electrodynamic panel dating to 2007. All the old starters were left in the panel and are confusing to the new operations.

There is a separate dry type transformer480 to 120/230 VAC 1 Ø and a low voltage panel rated 60 ampere 120/230 VAC for those loads. All of this gear is NEMA 4X stainless steel and in good shape. The upgraded pumps are 40 HP.

The voltages measured were phase to phase as 499, 500, and 501.
The single phase to ground voltages were 288, 288, 289 thus indicating the 277/480 VAC system rating.

b. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Include pressure transducers with float backups to provide a continuous analog level signal. The electrical gear should be combined on one hooded rack. The rack should be hooded even if the hood is also made of wood. The motor starters and electrical gear are NEMA 4-X and could be relocated to a new rack. All the unused gear and equipment should be removed. The transfer switch and generator are in fair shape and could be maintained.

10.0 599 Turner Street Lift Pump Station # 10: This is submersible lift station with Flygt pumps in a below ground wet well.

a. **Pumps:** The pumps are Flygt 3-HP rated 230 VAC, 3 Ø.

b. **Electrical Service:** The electrical service entrance extends underground from an open delta 120/230 VAC, 3 Ø underground to a wooden rack near the pump station. There is a meter socket on the rack for the electrical service with a 100-ampere 3 pole enclosed circuit breaker as the main overcurrent protection. This breaker feeds a Cummins/Onan 225 ampere 120/230 VAC automatic transfer switch. This enclosure is stainless steel. The load side of this ATS feeds a 100-ampere MLO panelboard. This panel has s a 50/3 breaker for the pump control panel. There are various other breakers for the single-phase load. This panel also is NEMA 4X stainless steel. The panel is a General Electric" A" series and is in good shape. The Pump Control Panel is a relay based R.S. Integrators Pump Control Panel with two NEMA size 1 FVNR motor starters. These pumps use float controls. This pump control panel is in good shape.

The voltages measured were phase to phase as 248,246,248. The single phase to ground voltages were 124,216,122. High leg phase: B leg

Notes: A high leg is developed on a 120/230 VAC 3 Ø system because all the single-phase load is carried on one center tapped transformer. No single-phase load should be placed on that high leg phase. Per most electrical systems, the high leg should be on the B phase and identified. The tape color code for the high leg B indication is orange and is correct.

The auto-dialer is a Raco "Verbatim" which handles the discrete inputs. This dialer is in a fiberglass enclosure and is programmable.

There is a Cummins/Onan 25 KW 120/230 VAC three phase generator Serial # M120D160775. The nameplate states it as 480 VAC, however it must be an error. This voltage should be confirmed as 230 VAC. The generator is in a non- sound attenuated enclosure. Therefor the generator noise is probably loud.

c. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Include pressure transducers with float backups to provide a continuous analog level signal. The electrical gear should be combined on one hooded rack. The gear is housed in NEMA 4-X rated enclosure and is in good shape. The generator and ATS are in good shape.

11.0 104 Earl Avenue Lift Pump Station # 11: This is an above ground lift station with Gorman Rupp centrifugal pumps within a fiberglass Gorman Rupp enclosure.

a. **Pumps:** It appears the pumps were changed out to 7.5 Hp as the pumps were originally installed as 5 HP. Within the Gorman Rupp enclosure is a junction box with two 40/3 breakers for each pump motor.

b. **Electrical Service:** The electrical service entrance extends to a drop pole near the pump station. There is a meter socket on the pole for the electrical service with a main circuit breaker panelboard mounted on the same pole. This main breaker is a Square D Powerpact QDL 32230 molded case 200-ampere, 3 Ø circuit breaker. The distribution panel is an QO loadcenter more designed for residential installations than exterior pump station locations. There is a 60-ampere 3-pole breaker that feeds the pump control panel and 15/1 breakers for the generator battery charger and jacket heater. The system voltage is 120/230 VAC. 3 Ø.

The voltages measured were phase to phase as 255, 252, 255. The single phase to ground voltages were 124, 222, 127. High leg phase: B leg

Notes: A high leg is developed on a 120/230 VAC, 3 Ø system because all the single-phase load is carried on one center tapped transformer. No single-phase load should be placed on that high leg phase. Per most electrical systems, the high leg should be on the B phase and identified.

On a separate wooden rack is a Generac Automatic transfer switch which is rated for 100-amperes, 3 Ø. It is a Generac model GTS 010-W3J2LDNFY. The switch is rated for 120/230 VAC, 3 Ø.

Adjacent to the Automatic Transfer Switch is a "Raco" Guard-it auto-dialer. This auto-dialer has up to 4 input channels for discrete signals and can call up to 8 telephone numbers. The unit is mounted in a fiberglass enclosure.

On the opposite side of the wooden rack is a pump control panel. This control panel is relay based and is within a NEMA 4-X stainless steel enclosure. The control panel has two NEMA size 2 Cutler Hammer across the line FVNR (full voltage non-reversing starters to energize the pump motors. The starters are float controlled. The panel door is not grounded to the grounding system and a bonding jumper should be installed.

There is a Generac 30 KW, 120/230 VAC, 3 Ø generator with a 132-gallon sub-base diesel fuel tank. The Generac model number is SD30 and rated for 3 Ø delta windings. The generator is in a steel non-sound attenuated enclosure. Therefore, it is loud when it is running.

c. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Include pressure transducers with float backups to provide a continuous analog level signal. The electrical gear should be combined on one hooded rack. The gear should be replaced with NEMA 4-x rated enclosures to protect against corrosion. The Generator is not old and is in fair condition. The control also is not old and is in a stainless-steel enclosure.

12.0 320 Wellons Drive Lift Pump Station # 12 (behind Roses): This is an above ground lift station with Gorman Rupp centrifugal pumps within a fiberglass Gorman Rupp enclosure.

a. **Pumps:** The pump motors are 5-HP and are rated for 208 VAC, 3 Ø.

b. **Electrical Service:** The electrical service entrance extends at 480 VAC, 3 Ø into a dry type transformer that converts the voltage to 120/208 VAC 3 Ø. The dry type transformer is 30 KVA with low voltage amperes of 83.3. The primary side has a 30-ampere fusible safety switch with a 100-ampere enclosed circuit breaker on the secondary side. This breaker feeds a Gorman Rupp pump control panel which is relay based. This pump control panel as 20-ampere circuit breakers and NEMA 1 FVNR motor starters. This control is a probe rod system. The pump panel is made by Myles Electrodynamics of Cummings Georgia.

The voltages measured were phase to phase as 215, 216, 215.
The single phase to ground voltages were 123, 123, 125.
Indicating this is a wye connected system voltage with no high leg.

There is a Generac 20 KW generator rated for 120.240 VAC three phase. This is a Generac 99A06029-S generator model. This generator was made in 1999 and is rather old, however it appears in fair shape. The 120/240 VAC rating for standby power would make the 208 VAC pumps pull more amperes when on standby power to reach the 5-HP.

c. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Include pressure transducers with float backups to provide a continuous analog level signal. The electrical gear should be combined on one hooded rack. The gear should be replaced with NEMA 4-x rated enclosures to protect against corrosion. The pump control panel is old and should be replaced. The generator and ATS are in fair shape. If the dry type transformer is to be maintained, some resistance heater should be added to keep moisture out of the windings. An area light should be included as there is none presently.

13.0 1899 Live Oak Street Lift Pump Station # 13 (Food Lion): This is a submersible lift station with Flygt pumps in a below ground wet well.

a. **Pumps:** The pumps are 5-HP rated 230 VAC, 3 Ø.

b. **Electrical Service:** The electrical service entrance extends from an open delta 120/230 VAC, 3 Ø underground service to a wooden rack near the pump station. There is a meter socket on the rack for the electrical service with a 100-ampere, 3-pole enclosed circuit breaker as the main overcurrent protection. This breaker feeds a double manual transfer switch system. One transfer switch is for the generator and one is for the main service. This switch arrangement is not an effective system as one switch has to be closed and one energized. There is a quick connect receptacle for a mobile generator that is also old. This enclosure is not stainless steel. The load side of this ATS feeds a Stacon Inc. Pump Control panel with two NEMA size 1 FVNR motor starters. The pumps use float controls. This pump control panel is somewhat old and should be replaced. The pump control panel has a 60-ampere main breaker with two 30-ampere three pole breakers for the motor starters.

The voltages measured were phase to phase as 255, 255, 253.
The single phase to ground voltages were 125, 218, 125.
High leg phase: B leg

Notes: A high leg is developed on a 120/230 VAC, 3 Ø system because all the single-phase load is carried on one center tapped transformer. No single-phase load should be placed on that high leg phase. Per most electrical systems, the high leg should be on the B phase and so identified. The tape color code for the high leg B indication is orange and is correct.

c. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Include pressure transducers with float backups to provide a continuous analog level signal. The electrical gear should be combined on one hooded rack. The gear should be replaced with NEMA 4-x rated enclosures to protect against corrosion. The pump control panel is old and should be replaced and a new service breaker with a DPDT manual transfer switch and quick connect receptacle added. An area light should be included as there is none presently.

14.0 Jarrett Bay Marina Lift Pump Station # 14: This lift station is also a pig launching station. The pig launcher or launching station, inserts the pig into the pipeline, where it is either pushed along by line pressure or pulled through the pipe by a cable. The receiver, also called a pig catcher, acts as a point to remove the pig from the line as well as any debris the pig has knocked loose. The station also has a US Filter chemical injection system with a tank for odor control which apparently is not presently used.

a. **Pumps:** The pumps motors are 27-Hp centrifugal pumps in a fiberglass above ground enclosure.

b. **Electrical Service:** Jarrett Bay Marina is fed with 277/480 VAC from a service within the marina. There is a separate meter for this station. This service feeds a 150-ampere 3-pole enclosed circuit breaker mounted on a wooden rack. This is a NEMA 3R beaker and the enclosure is somewhat rusted. The breaker feeds into a Zenith automatic transfer switch for normal power. The ATS enclosure is NEMA 4 stainless steel in good condition. The load side of the ATS feeds a Gorman Rupp Pump Control Panel rated 480 VAC, 3 Ø. The level controls are floats which were replaced in 2000.

A 30 ampere 2 pole breaker feeds a 7.5 KVA, 480 VAC to 120/230 VAC transformer which feeds a low voltage 120/230 VAC single phase loadcenter. This loadcenter has a 50/2 main and two 20/1 breakers for low voltage control power and miscellaneous requirements. A lot of this wiring is hanging loose and is in bad condition.

The standby power side of the automatic transfer switch is fed to a Kohler 80-KW 277/480 VAC, 3 Ø generator. This generator is a Kohler model 80 ROZJ. This generator has a 260-gallon diesel fuel tank. There is a 150-ampere 3-pole 480 VAC breaker within the generator. This generator is an older generator but is in fair condition.

Voltages measured at the site were the following:

Phase to Phase 512, 512, 512
Phase to neutral 294, 294, 294

There is a Verbatim auto-dialer by Raco model VSS. This auto-dialer has up to 4 input channels for discrete signals and can call up to 8 telephone numbers. The unit is mounted in a fiberglass enclosure.

c. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Include pressure transducers with float backups to provide a continuous analog level signal. The electrical gear should be combined on one hooded rack. The gear should be replaced with NEMA 4-x rated enclosures to protect against corrosion. The pump control panel is old but in fair condition within the GR enclosure.

15.0 Plantation Circle Lift Pump Station # 15: This is a submersible lift station with pumps in a below ground wet well.

a. **Pumps:** The pumps are 6-HP rated 230 VAC, 3 Ø.

b. **Electrical Service:** The electrical service entrance extends underground from an 129/230 VAC, 3 Ø underground to a wooden rack near the pump station. There is a meter socket on the rack for the electrical service with a 100-ampere 3-pole fused safety switch as the main overcurrent protection. This breaker feeds a 200-ampere manual transfer switch. This enclosure is stainless steel. The load side of this ATS feeds a pump control panel. The Pump Control Panel is a relay-based Myles Electrodynamics Pump Control Panel with two NEMA size 1 solid state FVNR motor starters. The pumps use float controls. This pump control panel is in good shape.

The voltages measured were phase to phase as 242,248,242.
The single phase to ground voltages were 122, 209, 123.
High leg phase: B leg

Notes: A high leg is developed on a 120/230 VAC 3 Ø system because all the single-phase load is carried on one center tapped transformer. No single-phase load should be placed on that high leg phase. Per most electrical systems, the high leg should be on the B phase and so identified. The tape color code for the high leg B indication is orange and is correct.

The auto-dialer is a Raco which handles the discrete inputs. This dialer is in a fiberglass enclosure and is programmable.

There is a quick connect receptacles from the MTS for a mobile generator.

c. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Include pressure transducers with float backups to provide a continuous analog level signal. The electrical gear should be combined on one hooded rack. The gear is in NEMA 4-X rated enclosures is in good shape. However, the 100-ampere fusible disconnect is not and is rusty and should be replaced.

16.0 Professional Park Lift Pump Station # 16: This is a submersible lift station with Hydromatic pumps in a below ground wet well.

a. **Pumps:** The pumps are 5-HP rated 230 VAC, 3 Ø.

b. **Electrical Service:** The electrical service entrance extends from an open delta 120/230 VAC, 3 Ø underground to a wooden rack near the pump station. There is a meter socket on the rack for the electrical service with a 100-ampere 3-pole enclosed circuit breaker as the main overcurrent protection. This breaker feeds a Generac 100-ampere 120/230 VAC automatic transfer switch. This enclosure is stainless steel. The load side of this ATS feeds an E.G. Controls Pump Control panel with two NEMA size 1 FVNR motor starters. The pumps use float controls. This pump control panel is somewhat old and should be replaced.

The voltages measured were phase to phase as 252, 252, 248. The single phase to ground voltages were 123, 216, 123. High leg phase: B leg

Notes: A high leg is developed on a 120/230 VAC 3 Ø system because all the single-phase load is carried on one center tapped transformer. No single-phase load should be placed on that high leg phase. Per most electrical systems, the high leg should be on the B phase and so identified. The tape color code for the high leg B indication is orange and is correct.

The auto-dialer is a Raco "Guard It" which handles the discrete inputs. This dialer is in a fiberglass enclosure and is programmable.

There is a Generac 40-KW 120/230 VAC, 3 Ø generator model SD0040JG rated for 3 Ø delta windings. The generator is in a sound attenuated enclosure. Therefor the generator noise is lessened.

c. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Include pressure transducers with float backups to provide a continuous analog level signal. The electrical gear should be combined on one hooded rack. The gear should be replaced with NEMA 4-x rated enclosures to protect against corrosion. The pump control panel is old and should be replaced. The generator and ATS are in good shape.

17.0 Parker Boats Lift Pump Station #17: This is a submersible grinder pump station**.**

a. **Pumps:** The pumps are 5-HP and equipped with 1750 RPM grinder pump motors.

b. **Electrical Service:** The station is powered from an open delta transformer arrangement at the road. The feeder is underground over to a wooden rack structure at 120/230 VAC, 3 Ø. The wooden rack has a 100-ampere, 3 Ø meter socket that feeds a 60-ampere enclosed circuit breaker. This breaker is in a NEMA 3R enclosure and is very rusted.

Power feeds directly from the 60-ampere enclosed circuit breaker to the pump control panel. The pump control panel is an EG Controls of Jacksonville, Florida. The panel was built in March of 2000 and is therefore 20 years old.

The This panel is relay based with 2-30/3 breakers feeding Allen Bradley AE16DNC solid state motor starters for each pump. These starters are controlled by floats.

There is a Verbatim auto-dialer by Raco model VSS. This auto-dialer has up to 4 input channels for discrete signals and can call up to 8 telephone numbers. The unit is mounted in a fiberglass enclosure.

The voltages measured were phase to phase 251, 252, and 251.
The single phase to neutral voltages were 124, 125, 333.
High leg phase: C leg

This lift station does not have a DPDT switch and quick connect receptacle for the Town's mobile generator.

The pump control panel door has no ground wire and should be bonded to the ground bus in the panel.

c. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Include pressure transducers with float backups to provide a continuous analog level signal. The electrical gear should be combined on one hooded rack. The gear should be replaced with NEMA 4-x rated enclosures to protect against corrosion. The pump control panel is old and should be replaced with one in a stainless-steel enclosure.

18.0 Eastman Creek Lift Pump Station # 18: This is an above ground lift station with Gorman Rupp centrifugal pumps. The pumps are within a fiberglass Gorman Rupp enclosure.

a. **Pumps:** The pump motors are 15-HP rated 480 VAC with an 18.7 ampere FLA with circuit breakers set for 40-amperes.

b. **Electrical Service:** The electrical service entrance extends from a Duke Energy 277/480 VAC pad mount transformer to a wooden electrical service rack. The meter is mounted on the electrical service rack and feeds into a 200-ampere rated fusible safety switch. The switch is a Square D H364NRB NEMA 3R rated. This switch is fused at 100-amperes. The color coding in this switch is wrong on the conductors. Conductors were taped black, red, and blue. They should be brown, orange, and yellow for 480 VAC. There is a Midwest DPDT manual transfer switch and a quick connect pin and sleeve receptacle for a mobile generator hookup. There is also a driven ground rod available to connect with a ground clamp. The load side of this DPDT switch feeds into the fiberglass enclosure to a Gorman Rupp Control Panel. This control panel has a step-down transformer and feeds receptacles and an exhaust fan in the enclosure. There is a Raco auto-dialer integral to the GR panel. This auto-dialer has up to 4 input channels for discrete signals and can call up to 8 telephone numbers. This panel is relay based and has two Allen Bradley FVNR starters 509 C00 DIJ. Control is float based.

Voltages measured were as follows:

Phase to Phase 510, 509, and 506.
Phase to ground 290, 289, and 289.

c. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Include pressure transducers with float backups to provide a continuous analog level signal. The electrical gear should be combined on one hooded rack. The gear should be replaced with NEMA 4-x rated enclosures to protect against corrosion. The pump control panel is old but in fair condition within the GR enclosure.

19.0 Eastman Creek Lift Pump Station # 19: This is a submersible lift station with Zoeller pumps in a below ground wet well.

a. **Pumps:** The pumps are 2-HP at 480 VAC.

b. **Electrical Service:** The Eastman Creek second Lift Station is fed from a Duke Energy pad mount transformer at 27/480 VAC, 3 Ø, 4 wire. The electrical service entrance extends from the 277/480 VAC 3 Ø transformer to a metal hooded rack. There is a meter socket on the metal rack for the electrical service with a 100-ampere enclosed circuit breaker as the main overcurrent protection. This main breaker feeds a Cummins/Onan 125 ampere 277/480 VAC automatic transfer switch. The switch is a Cummins/Onan Power Command. This enclosure is stainless steel and in good condition. The load side of this ATS feeds the pump control panel.

The pump control panel is a CSI Controls panel with relay based controls. The controls are floats. The control panel has 2-15/3 ampere breakers for each pump and NEMA size 1 FVNR starters. This panel is in a steel enclosure that is beginning to show signs of rust.

The voltages measured were phase to phase as 510, 508, and 510.
The single phase to ground voltages were 292, 290, and 289.
The color-coding tape is correct as brown, orange, and yellow.

The generator is a 25- or 30-KW Cummins/Onan unit (the generator was locked and could not be verified). However, the generator appears to be in good condition. The generator has a 132-gallon subbase fuel tank.

c. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Include pressure transducers with float backups to provide a continuous analog level signal. There is already a hooded metal rack. The pump control panel is fairly new.

20.0 North River Club Vacuum, Lift Station # 20: This is a vacuum pumping station with vacuum tank and multiple vacuum pumps.

a. **Pumps:** The vacuum pumps are 25-HP at 480 VAC, 3 Ø. The dry pit lift pumps are 40-HP at 480 VAC, 3 Ø.

b. **Electrical Service:** The electrical power comes into a vacuum pump control panel at 277/480 VAC. This vacuum pump control panel is by “Bristol Babcock” for 3 vacuum pumps and 2 sewage lift pumps in a dry pit area. There is an old Cummins/Onan Standby Generator that is in fair condition.

Although the electrical and vacuum pump power and control equipment is old, it still appears in fair shape and works effectively.

21.0 North River Clubhouse Lift Station # 21: This is a below ground submersible grinder pump station.

a. **Electrical Service:** The electrical service extends into a 200-ampere meter socket on a wooden rack at 120/230 VAC, single-phase. The feeder goes directly into a Kohler automatic transfer switch. This transfer switch is rated 200-amperes at 230 VAC. From the load side of the ATS the feeder goes into a pump control panel with an integral manual transfer switch and an exterior quick connect receptacle. There are 50/2 circuit breaker and solid-state starters for each pump. There is a "Sensaphone" autodialer also integral to the pump control panel. The panel pumps are float controlled This panel is relatively old and should be replaced. The generator is a 20-KW Kohler model 20RE0ZX 120/230 VAC. There does not appear to be a main circuit breaker to provide overcurrent protection. A new main circuit breaker is recommended. The generator is in good condition.

b. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. A new pump control panel with solid state soft start starters to ease the start- up load on the generator. Pressure transducers should be included with float backups to provide a continuous analog level signal. The electrical gear should be combined on one hooded rack. The gear should be replaced with NEMA 4-x rated enclosures to protect against corrosion. The gear is in not NEMA 4-X rated enclosures should be replaced.

22.0 Beau Coast 1 Lift Station # 22: This is a submersible lift station with pumps in a below ground wet well.

a. **Electrical Service:** The electrical service entrance extends from a pad mounted 75-KVA transformer underground from an 277/480 VAC, 3 Ø underground to a Metal hooded rack near the pump station. There is a meter socket on the transformer. The electrical service has a 200-ampere 3-pole fused safety switch as the main overcurrent protection. The switch is fused at 150-amperes. This breaker feeds a 150-ampere Generac automatic transfer switch. All the enclosures are NEMA 4X stainless steel. The load side of this ATS feeds a 150-ampere panel MDP rated 277/480 VAC. This MDP feeds an R.S. Integrators Pump Control Panel. The Pump Control Panel is a PLC based Pump Control Panel with two NEMA size 1 solid state FVNR motor starters. The Control Panel has a 60-ampere main breaker. The controls are sensor probes. The pumps are 7.5-HP rated 480 VAC, 3 Ø. There is a "Duplexor "controller which again is a low-end PLC. The motor starters are NEMA size 1 FVNR starters.

The voltages measured were phase to phase as 494, 494,493.
The single phase to ground voltages were 288, 288, 287.
Indicating the 277/480 VAC system rating.

The auto-dialer is a "Dialog Scout" which handles the discrete inputs. This dialer is in a fiberglass enclosure and is programmable.

The generator is a Generac SD0050KG163 50-KW 277/480 VAC, 3 Ø. It is relatively new and in good shape. All the gear is NEMA 4X stainless steel and is acceptable.

b. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Pressure transducers should be included with float backups to provide a continuous analog level signal. These could be added to the existing structures.

23.0 Beau Coast Lift Station # 23: This station is not on-line.

24.0 Lennoxville Road Lift Pump Station # 24: This lift station is submersible lift station with pumps in a below ground wet well.

a. **Pumps:** The pumps are both 4-HP and 480 VAC.

b. **Electrical Service:** The electrical service entrance extends underground from an 277/480 VAC, 3 Ø underground to a metal hooded rack near the pump station. There is a meter socket on one side of the rack for the electrical service with a 100-ampere 3-pole enclosed circuit breaker as the main overcurrent protection. This breaker feeds a Generac 200-ampere 277/480 VAC automatic transfer switch. This enclosure is not stainless steel. The load side of this ATS feeds a Pump Control Panel on the other side of the rack. This pump control panel has a MCB (Main Circuit Breaker) and an ECB (Emergency Circuit breaker). These breakers are rated 60-amperes. The ECB is in the off position and only powers up its pump motor when the generator is running. The Control Panel is relatively new. However, the arrangement of one pump on normal power and one pump on standby power is strange. The pumps are on a "multirode" level control probe.

The voltages measured were phase to phase as 494, 494, 493.
The single phase to ground voltages were 288, 288, 287.
Indicating the correct voltages for a 277/480 VAC system.

The electrical gear is on a metal hooded rack and is protected, however all the gear is NEMA 1 rated except the Pump Control Panel.

There is a "Crouzet" logic controller which is a low-end PLC to operate the pumps via the "Multitrode" probe signals.

The auto-dialer is rack mounted which handles the discrete inputs. This dialer is in a fiberglass enclosure and is programmable.

There is a Generac 30-KW 277/480 VAC, 3 Ø generator Model SD30. The generator is in a non- sound attenuated enclosure. Therefor the generator noise is probably loud.

c. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Pressure transducers should be included with float backups to provide a continuous analog level signal. The enclosures although not NEMA 4X are in good condition. The generator also is in good condition.

25.0 Deerfield Shores Lift Pump Station # 25: This is a submersible lift station in a below ground wet well.

a. **Pumps:** The submersible pumps are 11-HP Flygt Pumps at 230 VAC, 3 Ø.

b. **Electrical Service:** The electrical service entrance extends from an open delta 120/230 VAC, 3 Ø transformer pole near the pump station to a wooden rack. There is a meter socket on the rack for the electrical service with a 200-ampere general duty safety switch as the main overcurrent protection. This fusible safety switch feeds a Generac 200 ampere 120/230 VAC automatic transfer switch. The switch is a Generac model GTSO20W. This enclosure is not stainless steel. The load side of this ATS feeds a 60-ampere 120/230 VAC single phase panelboard. The panelboard is a Square D NQ panel and is NEMA 3R painted steel in good condition. The load side feeders from the ATS were spliced to feed the single-phase panelboard. There are one set of feeders into the pump control panel from the tap splice.

The voltages measured were phase to phase 251, 252, 251.
The single phase to ground voltages were 124, 125, 222.
High leg phase: C leg

Notes: A high leg is developed on a 120/230 VAC three phase system because all the single-phase load is carried on one center tapped transformer. No single-phase load should be placed on that high leg phase. Per most electrical systems, the high leg should be on the B phase and identified. The tape color code for the high leg C indication is red where it should be orange and on the C leg.

The Square D NQ panelboard has breakers for an area light, auto-dialer, generator battery charger, jacket heater and convenience receptacles. These are all 20/1.

The auto-dialer is a "Dialog Scout" which handles the discrete inputs. This dialer is in a fiberglass enclosure and is programmable.

The pump control panel is a R. S. Integrators panel with relay-based controls. The control is a probe rod with backup floats. The control panel has a 100-ampere, 3 Ø main breaker and 2-60 ampere sub breakers for each pump. There are two NEMA size 2 across the line FVNR starters. This panel is NEMA 4-X stainless steel in good condition.

There is a Generac 50-KW 120/230 VAC, 3 Ø generator with a 132-gallon sub-base diesel fuel tank. The Generac model number is SD50 and rated for 3 Ø delta windings. The generator is in a sound attenuated enclosure. Therefor the generator noise is lessened.

c. **Recommendations:** Replace the auto-dialer system with a radio telemetry system to provide a monitoring system which would provide more data. Pressure transducers should be included with float backups to provide a continuous analog level signal. The existing rack does have a hood. The gear should be replaced with NEMA 4-x rated enclosures to protect against corrosion. The Generator is not old and is in fair condition. The control panel also is not old and is in a stainless-steel enclosure.

APPENDIX

F

Collection System Inventory

Town of Beaufort

Sub-Basin 1: Gravity Sewer Lines Asset Inventory

Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
1-1	LS 1	12	64	CIPP	2008	0.15
1-2	1-1	8	275	VC	1969	0.42
1-3	1-2	6	50	VC	1969	0.06
1-4	1-2	8	325	VC	1969	0.49
1-5	1-1	8	246	CIPP	2008	0.37
1-6	1-5	8	200	VC	1969	0.30
1-7	1-6	8	75	VC	1969	0.11
1-8	1-7	8	230	CIPP	2008	0.35
1-9	1-8	8	240	DIP	2008	0.36
1-10	1-9	8	50	PVC	1969	0.08
1-11	1-10	8	50	PVC	1969	0.08
1-12	1-11	8	277	PVC	1969	0.42
1-13	1-12	8	200	PVC	1969	0.30
1-14	1-30	8	180	DIP	2008	0.27
1-14	1-30	8	162	PVC	2008	0.25
1-15	1-1	12	276	CIPP	2008	0.63
1-16	1-15	12	306	CIPP	2008	0.70
1-17	1-22	8	240	PVC	2008	0.36
1-18	1-16	8	450	CIPP	2008	0.68
1-19	1-18	10	325	VC	1969	0.62
1-20	1-18	8	352	CIPP	2008	0.53
1-21	1-16	10	145	CIPP	2008	0.27
1-22	1-16	8	190	CIPP	2008	0.29
1-23	1-21	10	291	PVC	2008	0.55
1-30	1-6	8	221	CIPP	2008	0.33
1-24	1-25	8	200	PVC	1969	0.30
1-25	1-23	10	373	PVC	2008	0.71
1-26	1-24	8	225	PVC	1969	0.34
1-27	1-25	8	363	CIPP	2008	0.55
1-28	1-27	8	273	CIPP	2008	0.41
1-29	1-28	8	496	CIPP	2008	0.75
1-31	1-9	8	250	PVC	1969	0.38
1-32	1-31	8	225	PVC	1969	0.34
Stub-out	1-18	8	400	PVC	1969	0.61
2-35	1-28	8	100	VC	1969	0.15

Total Collection System:	8325	feet	
	1.58	miles	
	13.51	inch-miles	
Material Type:	VC	16.2	%
	CIPP	43.4	%
	Truss	0.0	%
	PVC	35.4	%
	DIP	5.0	%

Town of Beaufort
Sub-Basin 2: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
2-1	LS 2	8	50	VC	1969	0.08
2-2	2-1	8	64	VC	1969	0.10
2-3	2-2	8	15	VC	1969	0.02
2-4	2-3	8	125	VC	1969	0.19
2-5	2-4	8	100	VC	1969	0.15
2-6	2-5	6	250	VC	1969	0.28
2-7	2-2	8	150	VC	1969	0.23
2-8	2-1	8	250	VC	1969	0.38
2-9	2-8	8	326	CIPP	2008	0.49
2-10	2-9	8	165	CIPP	2008	0.25
2-11	2-10	8	135	CIPP	2008	0.20
2-12	2-11	8	97	CIPP	2008	0.15
2-13	2-12	8	183	CIPP	2008	0.28
2-14	2-13	8	118	CIPP	2008	0.18
2-15	2-14	8	50	VC	1969	0.08
2-16	2-14	8	350	VC	1969	0.53
2-17	2-16	8	300	VC	1969	0.45
2-18	2-17	8	300	VC	1969	0.45
2-19	2-18	8	139	CIPP	2008	0.21
2-20	2-26	8	217	VC	1969	0.33
2-21	2-20	8	225	VC	1969	0.34
2-22	2-20	8	374	CIPP	2008	0.57
2-23	2-20	8	245	CIPP	2008	0.37
2-24	2-23	8	245	CIPP	2008	0.37
2-25	2-24	8	312	CIPP	2008	0.47
2-27	2-12	8	400	VC	1969	0.61
2-28	2-9	8	291	CIPP	2008	0.44
2-30	2-8	8	242	VC	1969	0.37
2-31	2-30	8	231	CIPP	2008	0.35
2-29	2-28	8	175	CIPP	2008	0.27
2-32	2-31	10	65	VC	1969	0.12
2-34	2-33	6	36	VC	1969	0.04
Stub-out	2-33	8	275	PVC	1969	0.42
2-33	2-32	6	175	VC	1969	0.20
2-35	2-34	6	117	VC	1969	0.13
Stub-out	2-5	8	300	VC	1969	0.45
2-36	2-7	8	75	VC	1969	0.11
2-26	2-15	8	161	VC	1969	0.24
Stub-out	2-15	8	350	VC	1969	0.53

Total Collection System:	7678	feet	
	1.45	miles	
	11.44	inch-miles	
Material Type:	VC	56.0	%
	CIPP	39.5	%
	Truss	0.0	%
	PVC	4.4	%
	DIP	0.0	%

Town of Beaufort

Sub-Basin 3: Gravity Sewer Lines Asset Inventory

Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
3-1	LS 3	8	50	VC	1969	0.08
3-2	3-1	8	278	CIPP	2008	0.42
3-3	3-2	8	339	CIPP	2008	0.51
3-4	3-3	8	348	VC	1969	0.53
3-5	3-4	8	198	VC	1969	0.30
3-6	3-5	8	225	VC	1969	0.34
3-8	3-1	8	100	VC	1969	0.15
3-9	3-8	8	194	CIPP	2008	0.29
3-10	3-9	8	135	CIPP	2008	0.20
3-11	3-10	8	239	CIPP	2008	0.36
3-12	3-11	8	100	VC	1969	0.15
3-13	3-12	8	200	VC	1969	0.30
3-14	3-13	8	100	VC	1969	0.15
3-15	3-14	8	150	VC	1969	0.23
3-16	3-15	8	242	CIPP	2008	0.37
3-17	3-16	8	238	CIPP	2008	0.36
3-18	3-17	8	334	VC	1969	0.51
3-19	3-17	8	225	VC	1969	0.34
3-20	3-19	8	150	VC	1969	0.23
3-21	3-11	8	134	CIPP	2008	0.20
3-22	3-21	8	400	PVC	1969	0.61
3-23	3-10	8	325	VC	1969	0.49
3-24	3-8	8	75	VC	1969	0.11
3-25	3-24	8	75	VC	1969	0.11
3-26	3-25	8	200	VC	1969	0.30
3-27	3-26	8	200	VC	1969	0.30
3-28	3-27	8	150	VC	1969	0.23
3-29	3-28	8	300	VC	1969	0.45
3-30	3-29	8	300	VC	1969	0.45
3-31	3-30	8	350	Truss	1969	0.53
3-38	3-37	8	225	Truss	1969	0.34
3-40	3-37	8	250	Truss	1969	0.38
3-39	3-38	8	150	Truss	1969	0.23
3-34	3-32	8	350	Truss	1969	0.53
3-32	3-31	8	100	Truss	1969	0.15
3-44	3-43	8	150	Truss	1969	0.23
3-36	3-35	8	100	PVC	1969	0.15
Stub-out	3-20	6	125	VC	1969	0.14
Stub-out	3-20	6	125	VC	1969	0.14
Stub-out	3-23	8	300	VC	1969	0.45
3-35	3-27	8	187	PVC	1969	0.28
Stub-out	3-27	6	400	PVC	1969	0.45
3-33	3-31	8	300	Truss	1969	0.45

Town of Beaufort
Sub-Basin 3: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
3-41	3-40	8	250	Truss	1969	0.38
3-43	3-40	8	150	Truss	1969	0.23
3-42	3-41	8	150	Truss	1969	0.23
3-37	3-36	8	143	CIPP	2008	0.22
Stub-out	Ann St. (Between 3-17 & 3-19)	6	300	VC	1969	0.34

Total Collection System:	10109	feet	
	1.91	miles	
	14.96	inch-miles	
Material Type:	VC	46.0	%
	CIPP	19.2	%
	Truss	24.0	%
	PVC	10.8	%
	DIP	0.0	%

Town of Beaufort
Sub-Basin 4: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
4-1	LS 4	8	50	VC	1969	0.08
4-2	4-1	8	250	VC	1969	0.38
4-3	4-2	8	250	VC	1969	0.38
4-4	4-1	8	147	CIPP	2008	0.22
4-5	4-4	8	200	VC	1969	0.30
4-6	4-5	8	75	VC	1969	0.11
4-7	4-6	8	250	Truss	1969	0.38
4-8	4-7	8	176	Truss	1969	0.27
4-9	4-8	8	186	Truss	1969	0.28
4-10	4-9	8	275	Truss	1969	0.42
4-11	4-10	8	50	Truss	1969	0.08
4-12	4-7	8	148	Truss	1969	0.22
4-13	4-12	8	147	Truss	1969	0.22
4-14	4-5	8	279	Truss	1969	0.42
4-15	4-14	8	126	Truss	1969	0.19
4-16	4-1	8	275	VC	1969	0.42
4-17	4-16	8	245	VC	1969	0.37
4-18	4-17	8	334	PVC	1969	0.51
4-19	4-25	8	50	VC	1969	0.08
4-20	4-19	8	325	VC	1969	0.49
4-21	4-20	8	350	VC	1969	0.53
4-22	4-21	8	375	VC	1969	0.57
4-23	4-18	8	184	DIP	2017	0.28
4-23	4-24	8	128	DIP	2017	0.19
4-24	4-23	8	225	DIP	2017	0.34
4-24	4-25	8	59	DIP	2017	0.09
4-25	4-24	8	234	DIP	2017	0.35
4-25	4-17	8	175	VC	1969	0.27
4-26	4-25	8	204	DIP	2017	0.31
4-27	4-26	8	88	DIP	2017	0.13
4-28	4-27	8	114	DIP	2017	0.17
4-29	4-26	8	147	DIP	2017	0.22
4-30	4-29	8	67	DIP	2017	0.10

Total Collection System:	6188	feet	
	1.17	miles	
	9.38	inch-miles	
Material Type:	VC	42.3	%
	CIPP	2.4	%
	Truss	26.5	%
	PVC	5.4	%
	DIP	23.4	%

Town of Beaufort
Sub-Basin 5: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
5-1	LS 5	8	50	DIP	1969	0.08
5-2	5-1	8	50	VC	1969	0.08
5-3	5-2	8	7	DIP	1969	0.01
5-4	5-2	8	221	Truss	1969	0.33
5-5	5-4	8	217	Truss	1969	0.33
5-6	5-13	8	178	DIP	1969	0.27
5-7	5-6	8	150	Truss	1969	0.23
5-8	5-7	8	200	Truss	1969	0.30
5-9	5-8	8	200	Truss	1969	0.30
5-10	5-5	8	125	Truss	1969	0.19
5-11	5-10	8	151	CIPP	2008	0.23
5-12	5-8	8	100	Truss	1969	0.15
5-13	5-5	8	181	Truss	1969	0.27
5-14	5-11	8	244	PVC	2008	0.37
5-15	5-3	8	450	CIPP	2008	0.68
5-16	5-15	8	50	Truss	1969	0.08
5-17	5-15	8	219	PVC	2021	0.33
5-18	5-17	8	258	PVC	2021	0.39
5-20	5-15	8	450	VC	1969	0.68
5-21	5-20	8	337	Truss	1969	0.51
5-22	5-20	8	75	VC	1969	0.11
5-23	5-22	8	203	VC	1969	0.31
5-24	5-23	8	67	VC	1969	0.10
5-25	5-23	8	350	VC	1969	0.53
Stub-out	5-3	8	150	PVC	1969	0.23
Stub-out	5-16	8	200	Truss	1969	0.30
Stub-out	5-21	8	150	Truss	1969	0.23
5-17	5-15	8	40	DIP	2021	0.06

Total Collection System:	5073	feet	
	0.96	miles	
	7.69	inch-miles	
Material Type:	VC	23.6	%
	CIPP	11.8	%
	Truss	39.5	%
	PVC	19.6	%
	DIP	5.4	%

Town of Beaufort
Sub-Basin 6: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
6-1	LS 6	15	50	VC	1969	0.14
6-2	6-1	15	50	VC	1969	0.14
6-3	6-2	10	100	VC	1969	0.19
6-4	6-3	8	50	DIP	1969	0.08
6-4	6-3	8	150	VC	1969	0.23
6-5	6-4	6	300	VC	1969	0.34
6-6	6-76	8	80	CIPP	2008	0.12
6-7	6-6	8	150	PVC	1969	0.23
6-8	6-7	8	50	PVC	1969	0.08
6-9	6-8	8	150	PVC	1969	0.23
6-10	6-9	8	120	Truss	1969	0.18
6-11	6-10	8	175	VC	1969	0.27
6-12	6-11	8	5	VC	1969	0.01
6-13	6-12	8	250	CIPP	2008	0.38
6-14	6-13	6	27	VC	1969	0.03
6-15	6-14	6	150	VC	1969	0.17
6-16	6-87	8	100	VC	1969	0.15
6-17	6-16	8	250	VC	1969	0.38
6-18	6-8	8	225	PVC	1969	0.34
6-19	6-18	8	100	PVC	1969	0.15
6-20	6-2	15	32	PVC	2008	0.09
6-21	6-20	15	115	CIPP	2008	0.33
6-22	6-21	15	245	CIPP	2008	0.70
6-23	6-81	12	320	CIPP	2008	0.73
6-24	6-23	12	438	CIPP	2008	1.00
6-25	6-24	12	373	CIPP	2008	0.85
6-26	6-25	10	451	CIPP	2008	0.85
6-26	6-38	8	19	CIPP	2008	0.03
6-27	6-26	10	451	CIPP	2008	0.85
6-28	6-27	10	443	CIPP	2008	0.84
6-29	6-32	8	168	PVC	2008	0.25
6-30	6-28	8	500	VC	1969	0.76
6-62	6-63	12	492	CIPP	2008	1.12
6-64	6-63	8	200	VC	1969	0.30
6-67	6-63	8	455	PVC	2008	0.69
6-93	6-92	8	18	DIP	2013	0.03
6-51	6-50	12	189	CIPP	2008	0.43
6-36	6-35	8	412	Truss	1969	0.62
6-82	6-38	8	150	PVC	2021	0.23
6-83	6-38	8	36	PVC	2021	0.05
6-44	6-91	10	250	VC	1969	0.47
6-94	6-93	8	154	DIP	2013	0.23
6-43	6-42	8	75	VC	1969	0.11

Town of Beaufort
Sub-Basin 6: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
6-91	6-43	10	202	VC	1969	0.38
6-80	6-1	8	175	CIPP	2021	0.27
6-76	6-5	8	225	CIPP	2008	0.34
6-87	6-13	8	235	CIPP	2008	0.36
6-85	6-20	15	65	CIPP	2008	0.18
6-72	6-22	12	245	CIPP	2008	0.56
6-81	6-22	12	138	CIPP	2008	0.31
6-71	6-23	8	415	VC	1969	0.63
6-92	6-23	8	246	DIP	2013	0.37
6-70	6-24	8	375	VC	1969	0.57
6-48	6-25	8	164	PVC	2021	0.25
6-49	6-25	10	49	CIPP	2021	0.09
6-41	6-26	8	252	CIPP	2008	0.38
6-35	6-27	8	58	PVC	2021	0.09
6-33	6-28	8	393	CIPP	2008	0.60
6-32	6-28	8	51	PVC	2008	0.08
6-68	6-77	8	306	PVC	2008	0.46
6-46	6-45	8	305	VC	1969	0.46
6-34	6-33	6	212	VC	1969	0.24
6-52	6-51	12	212	Truss	1969	0.48
6-53	6-79	8	45	VC	1969	0.07
6-42	6-41	8	204	CIPP	2008	0.31
6-31	6-30	8	273	VC	1969	0.41
6-31	6-30	8	139	PVC	1969	0.21
6-69	6-67	8	393	PVC	2008	0.60
6-54	6-53	8	300	VC	1969	0.45
6-58	6-53	8	250	PVC	1969	0.38
6-78	6-53	8	373	DIP	2008	0.57
6-45	6-44	8	328	VC	1969	0.50
6-39	6-46	8	100	PVC	1969	0.15
6-47	6-46	8	510	VC	1969	0.77
6-55	6-56	10	363	VC	1969	0.69
6-56	6-60	10	450	VC	1969	0.85
6-50	6-49	12	8	Truss	1969	0.02
6-57	6-56	8	373	PVC	1969	0.57
6-37	6-36	8	238	Truss	1969	0.36
6-88	6-39	8	250	PVC	1969	0.38
6-60	6-62	10	453	CIPP	2008	0.86
6-65	6-64	8	225	VC	1969	0.34
6-66	6-65	8	353	VC	1969	0.53
6-40	6-65	6	235	VC	1969	0.27
6-61	6-60	8	400	VC	1969	0.61
6-77	6-67	8	30	PVC	2008	0.05

Town of Beaufort
Sub-Basin 6: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
6-84	6-83	8	332	PVC	2021	0.50
6-91	6-58	8	100	PVC	1969	0.15
6-63	6-72	12	261	CIPP	2008	0.59
6-74	6-73	8	202	CIPP	2021	0.31
6-75	6-74	8	250	VC	1969	0.38
6-73	6-80	8	147	VC	1969	0.22
6-86	6-85	8	350	CIPP	2008	0.53
8-59	6-29	8	220	PVC	2008	0.33
6-79	6-52	10	8	Truss	1969	0.02
Stub-out	6-87	8	100	PVC	1969	0.15

Total Collection System:	21104	feet	
	4.00	miles	
	35.61	inch-miles	
Material Type:	VC	36.8	%
	CIPP	33.7	%
	Truss	4.7	%
	PVC	20.8	%
	DIP	4.0	%

Town of Beaufort
Sub-Basin 7: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
7-1	LS 7	8	50	VC	1969	0.08
7-2	7-1	8	23	PVC	1969	0.03
7-3	7-2	8	214	PVC	1969	0.32
7-4	7-3	8	195	VC	1969	0.30
7-5	7-4	8	225	VC	1969	0.34
7-6	7-1	8	50	VC	1969	0.08
7-7	7-6	8	334	PVC	2008	0.51
7-8	7-7	8	340	CIPP	2008	0.52
7-9	7-8	8	11	CIPP	2008	0.02
7-10	7-9	8	493	CIPP	2008	0.75
7-10	6-24	8	500	Truss	1969	0.76
7-11	7-12	8	200	VC	1969	0.30
7-11	7-10	8	243	Truss	1969	0.37
7-12	6-92	8	248	DIP	2013	0.38
7-13	7-10	10	370	CIPP	2008	0.70
7-14	7-15	8	255	Truss	1969	0.39
7-14	7-13	8	448	CIPP	2008	0.68
7-15	6-38	8	216	CIPP	2008	0.33
7-16	7-14	8	452	CIPP	2008	0.68
7-17	7-16	8	424	Truss	1969	0.64
7-18	7-16	8	343	CIPP	2008	0.52
7-19	7-9	8	239	VC	1969	0.36
7-20	7-34	8	194	CIPP	2008	0.29
7-21	7-20	8	142	CIPP	2008	0.22
7-22	7-21	8	298	CIPP	2008	0.45
7-22	7-35	8	271	CIPP	2008	0.41
7-23	7-22	8	400	Truss	1969	0.61
7-24	7-23	8	50	VC	1969	0.08
7-25	7-24	8	225	VC	1969	0.34
7-26	7-16	8	395	Truss	1969	0.60
7-27	7-8	8	288	VC	1969	0.44
7-28	7-27	8	181	VC	1969	0.27
7-31	7-28	8	92	DIP	2013	0.14
7-33	7-32	8	200	DIP	2013	0.30
7-34	7-6	8	174	CIPP	2008	0.26
Stub-out	7-9	4	200	VC	1969	0.15
7-36	7-13	8	30	Truss	1969	0.05
7-37	7-36	8	366	Truss	1969	0.55
7-35	7-14	8	223	CIPP	2008	0.34
7-32	7-31	8	110	DIP	2013	0.17
6-48	7-13	8	332	Truss	1969	0.50

Town of Beaufort
Sub-Basin 7: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

	10044	feet	
Total Collection System:	1.90	miles	
	15.21	inch-miles	
	VC	18.9	%
	CIPP	39.6	%
Material Type:	Truss	29.3	%
	PVC	5.7	%
	DIP	6.5	%

Town of Beaufort
Sub-Basin 8: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
8-98	8-97	8	100	Truss	1969	0.15
8-99	8-98	8	150	Truss	1969	0.23
8-1	LS 8	12	50	VC	1969	0.11
8-2	8-1	12	60	PVC	2008	0.14
8-3	8-2	8	307	CIPP	2008	0.47
8-4	8-3	8	175	Truss	1969	0.27
8-5	8-4	8	141	Truss	1969	0.21
8-6	8-3	8	289	CIPP	2008	0.44
8-7	8-6	8	277	CIPP	2008	0.42
8-8	8-7	8	248	VC	1969	0.38
8-9	8-8	8	242	VC	1969	0.37
8-10	8-7	8	237	VC	1969	0.36
8-11	8-10	8	137	VC	1969	0.21
8-12	8-102	8	43	CIPP	2008	0.07
8-13	8-12	8	191	CIPP	2008	0.29
8-14	8-13	8	153	CIPP	2008	0.23
8-15	8-14	8	144	CIPP	2008	0.22
8-16	8-15	8	220	CIPP	2008	0.33
8-17	8-16	8	294	VC	1969	0.45
8-18	8-17	8	27	VC	1969	0.04
8-19	8-16	8	250	VC	1969	0.38
8-20	8-19	8	150	VC	1969	0.23
8-21	8-14	8	40	VC	1969	0.06
8-22	8-21	8	156	VC	1969	0.24
8-23	8-1	10	250	PVC	1969	0.47
8-24	8-23	10	250	PVC	1969	0.47
8-25	8-24	10	350	PVC	1969	0.66
8-26	8-25	8	150	VC	1969	0.23
Stub-out	8-26	8	135	VC	1969	0.20
8-28	8-25	8	200	VC	1969	0.30
8-29	8-28	8	275	VC	1969	0.42
8-30	8-29	8	236	CIPP	2008	0.36
8-31	8-30	8	250	VC	1969	0.38
8-59	8-58	8	499	CIPP	2008	0.76
8-60	8-59	8	150	PVC	1969	0.23
8-100	8-59	8	300	PVC	1969	0.45
8-39	8-38	12	171	CIPP	2008	0.39
8-64	8-38	8	250	VC	1969	0.38
8-86	8-85	8	75	PVC	1990	0.11
8-88	8-85	8	75	PVC	1990	0.11
8-87	8-86	8	150	PVC	1990	0.23
8-89	8-88	8	50	PVC	1990	0.08
8-90	8-89	8	100	PVC	1990	0.15
8-49	8-41	8	266	PVC	2008	0.40
8-101	8-60	8	150	PVC	1969	0.23
8-47	8-41	8	300	VC	1969	0.45
8-34	8-33	8	307	CIPP	2008	0.47
8-37	8-33	8	100	CIPP	2008	0.15

Town of Beaufort
Sub-Basin 8: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
8-43	8-42	8	350	VC	1969	0.53
8-44	8-42	8	363	CIPP	2008	0.55
8-45	8-42	8	273	CIPP	2008	0.41
8-78	8-77	8	82	PVC	1969	0.12
8-80	8-77	10	375	VC	1969	0.71
8-81	8-80	8	50	PVC	1990	0.08
8-91	8-80	8	355	VC	1969	0.54
8-82	8-81	8	200	PVC	1990	0.30
8-77	8-76	10	356	CIPP	2008	0.67
8-58	8-32	8	25	CIPP	2008	0.04
8-42	8-49	8	264	CIPP	2008	0.40
8-56	8-50	8	91	CIPP	2008	0.14
8-33	8-25	8	287	CIPP	2008	0.43
8-95	8-94	8	300	Truss	1969	0.45
8-96	8-94	6	75	Truss	1969	0.09
8-92	8-91	8	350	Truss	1969	0.53
8-94	8-91	8	300	Truss	1969	0.45
8-70	8-69	8	200	VC	1969	0.30
8-35	8-34	8	300	CIPP	2008	0.45
8-41	8-40	12	292	CIPP	2008	0.66
8-50	8-40	8	467	CIPP	2008	0.71
8-76	8-41	8	350	VC	1969	0.53
8-54	8-53	8	100	VC	1969	0.15
8-53	8-52	8	189	CIPP	2008	0.29
8-46	8-45	8	250	VC	1969	0.38
8-48	8-47	8	300	VC	1969	0.45
8-93	8-92	8	250	Truss	1969	0.38
8-97	8-96	6	150	Truss	1969	0.17
8-55	8-54	8	225	VC	1969	0.34
8-51	8-50	8	374	CIPP	2008	0.57
8-52	8-50	8	55	PVC	2008	0.08
8-66	8-65	8	200	VC	1969	0.30
8-67	8-66	8	50	VC	1969	0.08
8-40	8-39	12	241	CIPP	2008	0.55
8-61	8-39	8	195	VC	1969	0.30
8-71	8-39	8	66	CIPP	2008	0.10
8-36	8-35	8	200	PVC	1969	0.30
8-62	8-61	8	250	Truss	1969	0.38
8-65	8-64	8	325	VC	1969	0.49
8-38	8-1	12	237	CIPP	2008	0.54
8-63	8-2	8	350	VC	1969	0.53
8-83	8-82	8	300	PVC	1990	0.45
Stub-out	8-32	8	77	Truss	1969	0.12
8-32	8-57	8	466	CIPP	2008	0.71
8-57	8-56	8	290	CIPP	2008	0.44
8-68	8-67	8	200	VC	1969	0.30
8-73	8-72	8	175	VC	1969	0.27
8-74	8-72	8	150	VC	1969	0.23

Town of Beaufort
Sub-Basin 8: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
8-85	8-84	8	110	PVC	1990	0.17
8-69	8-68	8	200	VC	1969	0.30
8-72	8-71	8	338	CIPP	2008	0.51
8-75	8-74	8	200	VC	1969	0.30
8-79	8-78	8	118	PVC	1969	0.18
8-84	8-83	8	250	PVC	1990	0.38
Stub-out	Between 8-59 and 8-100	8	200	PVC	1969	0.30
9-95	8-11	8	212	VC	1969	0.32
6-30	Stub-out	6	280	VC	1969	0.32
8-102	8-3	8	202	CIPP	2008	0.31
8-103	8-102	8	170	PVC	2020	0.26
8-104	8-27	8	368	PVC	2011	0.56
8-27	8-24	8	118	PVC	2011	0.18
8-105	8-60	8	160	VC	1969	0.24

Total Collection System:	23416	feet	
	4.43	miles	
	36.68	inch-miles	
Material Type:	VC	36.7	%
	CIPP	34.4	%
	Truss	9.9	%
	PVC	19.0	%
	DIP	0.0	%

Town of Beaufort
Sub-Basin 9: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
9-97	9-63	8	100	Truss	1969	0.15
9-1	LS 9	10	50	VC	1969	0.09
9-2	9-1	8	75	VC	1969	0.11
9-3	9-2	8	163	CIPP	2008	0.25
9-4	9-3	8	250	VC	1969	0.38
9-5	9-4	8	200	VC	1969	0.30
9-6	9-5	8	363	CIPP	2008	0.55
9-7	9-6	8	366	CIPP	2008	0.55
9-8	9-7	8	125	Truss	1969	0.19
9-9	9-8	8	260	Truss	1969	0.39
9-9	9-8	8	40	DIP	1969	0.06
9-10	9-3	8	241	CIPP	2008	0.37
9-11	9-10	8	189	CIPP	2008	0.29
9-12	9-11	8	331	CIPP	2008	0.50
9-13	9-12	8	321	CIPP	2008	0.49
9-14	9-13	8	326	CIPP	2008	0.49
9-15	9-14	8	336	CIPP	2008	0.51
9-16	9-15	8	207	VC	1969	0.31
9-17	9-15	8	295	VC	1969	0.45
9-18	9-17	8	207	VC	1969	0.31
9-19	9-18	8	300	PVC	1969	0.45
9-20	9-19	8	200	PVC	1969	0.30
9-21	9-1	8	197	CIPP	2008	0.30
9-22	9-21	8	223	CIPP	2008	0.34
9-23	9-22	8	38	PVC	1969	0.06
9-24	9-23	8	238	CIPP	2008	0.36
9-25	9-24	8	282	VC	1969	0.43
9-26	9-25	8	30	DIP	1969	0.05
9-26	9-25	8	252	VC	1969	0.38
9-27	9-26	8	317	CIPP	2008	0.48
9-28	9-27	8	150	VC	1969	0.23
9-29	9-27	8	275	VC	1969	0.42
9-30	9-26	8	169	VC	1969	0.26
9-63	9-62	10	238	Truss	1969	0.45
9-64	9-63	8	50	Truss	1969	0.08
9-66	9-63	10	320	Truss	1969	0.61
9-32	9-31	8	291	PVC	1969	0.44
9-31	9-30	8	301	PVC	1969	0.46
9-37	9-36	8	211	VC	1969	0.32
9-38	9-36	8	275	PVC	1969	0.42
9-50	9-2	8	322	CIPP	2008	0.49
9-33	9-22	8	244	CIPP	2008	0.37
9-40	9-22	8	300	Truss	1969	0.45

Town of Beaufort
Sub-Basin 9: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
9-86	9-85	8	100	Truss	1969	0.15
9-88	9-85	8	125	Truss	1969	0.19
9-89	9-85	8	100	Truss	1969	0.15
9-36	9-35	8	50	PVC	1969	0.08
9-39	9-35	8	275	PVC	1969	0.42
9-43	9-42	8	316	CIPP	2008	0.48
9-47	9-42	8	366	CIPP	2008	0.55
9-42	9-41	8	97	CIPP	2008	0.15
9-44	9-43	8	296	CIPP	2008	0.45
9-82	9-81	8	150	Truss	1969	0.23
9-83	9-81	8	100	Truss	1969	0.15
9-75	9-74	8	169	VC	1969	0.26
9-81	9-74	8	200	Truss	1969	0.30
9-76	9-75	8	82	VC	1969	0.12
9-79	9-75	10	275	Truss	1969	0.52
9-77	9-76	8	331	VC	1969	0.50
9-58	9-47	8	147	CIPP	2008	0.22
9-48	9-58	8	16	PVC	1969	0.02
9-49	9-48	8	212	PVC	1969	0.32
9-41	9-40	8	195	CIPP	2008	0.30
9-93	9-92	8	305	VC	1969	0.46
9-94	9-93	8	344	VC	1969	0.52
9-95	9-94	8	342	VC	1969	0.52
9-61	9-96	8	350	VC	1969	0.53
9-65	9-97	8	150	Truss	1969	0.23
9-69	9-68	8	50	Truss	1969	0.08
9-70	9-57	8	369	Truss	1969	0.56
9-34	9-33	8	247	CIPP	2008	0.37
9-35	9-34	8	213	CIPP	2008	0.32
9-51	9-50	8	296	CIPP	2008	0.45
9-52	9-50	10	324	VC	1969	0.61
9-53	9-52	10	92	VC	1969	0.17
9-55	9-54	8	98	PVC	2008	0.15
9-91	9-54	8	50	VC	1969	0.08
9-62	9-46	12	30	PVC	2007	0.07
9-62	9-46	12	20	DIP	2007	0.05
9-87	9-86	8	50	Truss	1969	0.08
9-90	9-89	8	125	Truss	1969	0.19
9-92	9-91	8	250	VC	1969	0.38
9-45	9-44	8	281	VC	1969	0.43
9-46	9-59	12	281	PVC	2007	0.64
9-54	9-53	10	241	VC	1969	0.46
9-56	9-55	8	265	VC	1969	0.40

Town of Beaufort
Sub-Basin 9: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
9-96	9-60	8	183	PVC	2007	0.28
9-67	9-66	8	50	Truss	1969	0.08
9-57	9-56	8	294	PVC	2007	0.45
9-73	9-55	8	381	CIPP	2008	0.58
9-59	9-57	8	179	PVC	2007	0.27
9-60	9-59	8	331	PVC	2007	0.50
9-71	9-70	8	100	Truss	1969	0.15
9-72	9-70	8	125	Truss	1969	0.19
9-80	9-79	10	100	Truss	1969	0.19
9-68	9-67	8	100	Truss	1969	0.15
9-74	9-73	8	118	CIPP	2008	0.18
9-78	9-77	8	314	VC	1969	0.48
9-84	9-83	8	50	Truss	1969	0.08
9-85	9-84	8	75	Truss	1969	0.11

Total Collection System:	20443	feet	
	3.87	miles	
	31.85	inch-miles	
Material Type:	VC	31.1	%
	CIPP	33.5	%
	Truss	18.5	%
	PVC	16.4	%
	DIP	0.4	%

Town of Beaufort

Sub-Basin 10: Gravity Sewer Lines Asset Inventory

Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
10-1	LS 10	8	33	PVC	2013	0.05
10-2	10-1	8	38	PVC	2013	0.06
10-3	10-2	8	145	PVC	2013	0.22
10-4	10-3	8	319	PVC	2013	0.48
10-5	10-4	8	104	PVC	2013	0.16
10-6	10-37	8	28	PVC	2013	0.04
10-7	10-38	8	252	PVC	2013	0.38
10-8	10-7	8	36	PVC	2008	0.05
10-9	10-8	8	262	PVC	2008	0.40
10-10	10-9	8	277	PVC	2008	0.42
10-11	10-10	8	298	CIPP	2008	0.45
10-12	10-33	8	339	CIPP	2008	0.51
10-13	10-12	8	263	VC	1969	0.40
10-14	10-13	8	280	VC	1969	0.42
10-15	10-12	8	264	PVC	2008	0.40
10-16	10-15	8	41	VC	1969	0.06
10-17	10-15	8	349	VC	1969	0.53
10-18	10-16	8	253	CIPP	2008	0.38
10-19	10-18	8	162	PVC	2008	0.25
10-20	10-19	8	143	PVC	2008	0.22
10-21	10-20	8	11	PVC	2008	0.02
10-22	10-21	8	214	VC	1969	0.32
10-23	10-22	8	253	VC	1969	0.38
10-24	10-21	8	250	PVC	1969	0.38
10-25	10-10	8	200	VC	1969	0.30
10-26	10-10	6	200	PVC	1969	0.23
10-27	10-7	8	20	PVC	2008	0.03
10-28	10-27	8	140	PVC	2008	0.21
10-29	10-28	8	142	PVC	2008	0.22
10-30	10-29	8	125	PVC	2008	0.19
10-31	10-29	8	290	PVC	2008	0.44
10-33	10-11	8	295	CIPP	2008	0.45
10-37	10-2	8	140	DIP	2013	0.21
10-34	10-5	8	91	PVC	2013	0.14
10-36	10-5	8	278	PVC	2013	0.42
10-38	10-6	8	99	PVC	2013	0.15
Stub-out	10-23	8	200	VC	1969	0.30
Stub-out	10-24	8	300	PVC	1969	0.45
Stub-out	10-25	8	50	VC	1969	0.08
10-32	10-31	8	298	PVC	2008	0.45
10-35	10-34	8	119	DIP	2013	0.18

Town of Beaufort
Sub-Basin 10: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

	7601	feet	
Total Collection System:	1.44	miles	
	11.44	inch-miles	
	VC	24.3	%
	CIPP	15.6	%
Material Type:	Truss	0.0	%
	PVC	56.7	%
	DIP	3.4	%

Town of Beaufort
Sub-Basin 11: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
11-1	LS 11	8	36	PVC	1969	0.05
11-2	11-1	8	65	CIPP	2008	0.10
11-3	11-2	8	163	CIPP	2008	0.25
11-4	11-3	8	269	VC	1969	0.41
11-5	11-3	8	205	VC	1969	0.31
11-6	11-5	8	184	VC	1969	0.28
11-7	11-6	8	225	PVC	1969	0.34
11-8	11-7	8	225	PVC	1969	0.34
11-9	11-1	8	325	CIPP	2008	0.49
11-10	11-21	8	220	Truss	1969	0.33
11-9	11-21	8	18	DIP	2013	0.03
11-11	11-10	8	400	Truss	1969	0.61
11-12	11-11	8	375	Truss	1969	0.57
11-13	11-20	8	138	PVC	2013	0.21
11-14	11-13	8	208	PVC	2013	0.32
11-15	11-14	8	295	DIP	2013	0.45
11-16	11-15	8	356	DIP	2013	0.54
11-17	11-16	8	92	DIP	2013	0.14
11-18	11-13	8	116	DIP	2013	0.18
11-19	11-18	8	213	PVC	2013	0.32
11-21	11-20	8	47	DIP	2013	0.07
11-22	11-21	8	56	DIP	2013	0.08

Total Collection System:	4231	feet	
	0.80	miles	
	6.41	inch-miles	
Material Type:	VC	15.6	%
	CIPP	13.1	%
	Truss	23.5	%
	PVC	24.7	%
	DIP	23.2	%

Town of Beaufort
Sub-Basin 12: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
12-1	LS 12	8	50	Truss	1975	0.08
12-2	12-1	8	138	Truss	1975	0.21
12-3	12-1	8	425	Truss	1975	0.64
12-4	12-3	8	204	Truss	1975	0.31
12-5	12-4	8	248	Truss	1975	0.38
12-6	12-5	8	325	Truss	1975	0.49
12-7	12-6	8	125	Truss	1975	0.19
12-8	12-1	8	258	Truss	1975	0.39
12-9	12-8	8	214	Truss	1975	0.32
12-10	12-9	8	151	Truss	1975	0.23
12-11	12-10	8	104	Truss	1975	0.16
12-12	12-33	8	327	Truss	1975	0.50
12-13	12-12	8	50	Truss	1975	0.08
12-14	12-12	8	335	Truss	1975	0.51
12-15	12-14	8	319	Truss	1975	0.48
12-16	12-15	8	300	Truss	1975	0.45
12-17	12-11	10	295	PVC	1975	0.56
12-18	12-9	8	234	Truss	1975	0.35
12-19	12-18	8	53	Truss	1975	0.08
12-20	12-19	8	100	PVC	1975	0.15
12-21	12-20	8	100	Truss	1975	0.15
12-22	12-21	8	109	Truss	1975	0.17
12-23	12-22	8	189	Truss	1975	0.29
12-24	12-23	8	240	Truss	1975	0.36
12-25	12-21	8	44	Truss	1975	0.07
12-25	12-21	6	23	Truss	1975	0.03
12-26	12-25	6	75	Truss	1975	0.09
12-27	12-19	8	122	Truss	1975	0.18
12-27	12-19	8	22	DIP	1975	0.03
12-28	12-27	8	100	Truss	1975	0.15
12-29	12-18	8	284	Truss	1975	0.43
12-30	12-29	8	246	Truss	1975	0.37
12-31	12-30	8	183	Truss	1975	0.28
12-33	12-11	8	50	Truss	1975	0.08
12-32	12-31	8	205	Truss	1975	0.31

Total Collection System:	6247	feet	
	1.18	miles	
	9.54	inch-miles	
Material Type:	VC	0.0	%
	CIPP	0.0	%
	Truss	93.3	%
	PVC	6.3	%
	DIP	0.4	%

Town of Beaufort
Sub-Basin 13: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
13-1	LS 13	8	18	Truss	1994	0.03
13-2	13-1	8	328	Truss	1994	0.50
13-3	13-2	8	189	Truss	1994	0.29

Total Collection System:	535	feet	
	0.10	miles	
	0.81	inch-miles	
Material Type:	VC	0.0	%
	CIPP	0.0	%
	Truss	100.0	%
	PVC	0.0	%
	DIP	0.0	%

Town of Beaufort
Sub-Basin 14: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
14-2	14-1	10	100	PVC	1998	0.19
14-9	14-1	10	209	PVC	1998	0.40
14-11	14-10	10	240	PVC	1998	0.45
14-12	14-11	10	240	PVC	1998	0.45
14-13	14-12	10	180	PVC	1998	0.34
14-15	14-14	8	224	PVC	1998	0.34
14-16	14-15	8	187	PVC	1998	0.28
14-18	14-17	8	265	PVC	1998	0.40
Stub-out	14-18	10	75	PVC	1998	0.14
14-3	14-2	10	400	PVC	1998	0.76
14-17	14-3	8	130	PVC	1998	0.20
14-4	14-3	10	245	PVC	1998	0.46
14-5	14-4	10	400	PVC	1998	0.76
14-6	14-5	10	391	PVC	1998	0.74
14-7	14-6	10	91	PVC	1998	0.17
14-8	14-7	10	400	PVC	1998	0.76
14-10	14-9	10	210	PVC	1998	0.40
14-14	14-9	8	401	PVC	1998	0.61
14-1	LS 14	10	50	PVC	1998	0.09

Total Collection System:	4438	feet	
	0.84	miles	
	7.95	inch-miles	
Material Type:	VC	0.0	%
	CIPP	0.0	%
	Truss	0.0	%
	PVC	100.0	%
	DIP	0.0	%

Town of Beaufort
Sub-Basin 15: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
15-2	15-1	8	100	PVC	2001	0.15
15-5	15-1	8	350	PVC	2001	0.53
15-11	15-10	8	200	PVC	2001	0.30
15-3	15-2	8	250	PVC	2001	0.38
15-4	15-3	8	200	PVC	2001	0.30
15-6	15-5	8	250	PVC	2001	0.38
15-8	15-5	8	250	PVC	2001	0.38
15-7	15-6	8	250	PVC	2001	0.38
15-10	15-8	8	250	PVC	2001	0.38
15-9	15-8	8	100	PVC	2001	0.15
15-1	LS 15	8	50	PVC	2001	0.08

Total Collection System:	2250	feet	
	0.43	miles	
	3.41	inch-miles	
Material Type:	VC	0.0	%
	CIPP	0.0	%
	Truss	0.0	%
	PVC	100.0	%
	DIP	0.0	%

Town of Beaufort
Sub-Basin 16: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
16-2	16-1	10	198	PVC	1999	0.38
16-31	16-1	10	150	PVC	1999	0.28
16-11	16-10	10	324	PVC	1999	0.61
16-13	16-12	10	300	PVC	1999	0.57
16-14	16-13	10	275	PVC	1999	0.52
16-16	16-15	10	300	PVC	1999	0.57
16-17	16-16	10	50	PVC	1999	0.09
16-19	16-18	10	400	PVC	1999	0.76
16-20	16-19	10	100	PVC	1999	0.19
16-18	16-2	10	125	PVC	1999	0.24
16-3	16-2	10	264	PVC	1999	0.50
16-21	16-20	10	109	PVC	1999	0.21
16-22	16-21	10	119	PVC	1999	0.23
16-23	16-22	10	350	PVC	1999	0.66
16-27	16-22	10	300	PVC	1999	0.57
16-24	16-23	10	325	PVC	1999	0.62
16-25	16-24	10	200	PVC	1999	0.38
16-26	16-24	10	250	PVC	1999	0.47
16-28	16-27	8	375	PVC	1999	0.57
16-29	16-27	10	396	PVC	1999	0.75
16-30	16-29	10	300	PVC	1999	0.57
16-15	16-3	10	100	PVC	1999	0.19
16-4	16-3	10	338	PVC	1999	0.64
16-32	16-31	8	150	PVC	1999	0.23
16-37	16-31	10	300	PVC	1999	0.57
16-33	16-32	8	350	PVC	1999	0.53
16-34	16-33	8	300	PVC	1999	0.45
16-36	16-33	8	300	PVC	1999	0.45
16-35	16-34	8	300	PVC	1999	0.45
16-38	16-37	10	400	PVC	1999	0.76
16-39	16-38	8	250	PVC	1999	0.38
16-42	16-38	8	76	PVC	1999	0.12
Stub-out	16-38	8	175	PVC	1999	0.27
16-40	16-39	8	100	PVC	1999	0.15
16-5	16-4	10	312	PVC	1999	0.59
16-9	16-4	10	175	PVC	1999	0.33
16-41	16-40	8	350	PVC	1999	0.53
16-43	16-42	8	126	PVC	2007	0.19
16-44	16-43	8	55	PVC	2007	0.08
16-48	16-43	8	110	PVC	2007	0.17
16-45	16-44	8	99	PVC	2007	0.15
16-46	16-45	8	215	PVC	2007	0.33
16-47	16-46	8	116	PVC	2007	0.18

Town of Beaufort
Sub-Basin 16: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
16-50	16-49	8	203	PVC	2007	0.31
16-6	16-5	10	234	PVC	1999	0.44
16-51	16-50	8	23	PVC	2007	0.03
16-52	16-50	8	180	PVC	2007	0.27
Stub-out	16-51	8	2	PVC	2007	0.00
16-53	16-52	8	180	PVC	2011	0.27
16-54	16-53	8	184	PVC	2011	0.28
16-7	16-6	10	299	PVC	1999	0.57
16-8	16-7	8	425	PVC	1999	0.64
16-10	16-9	10	295	PVC	1999	0.56
16-12	16-9	10	250	PVC	1999	0.47
16-1	LS 16	10	49	PVC	1999	0.09

Total Collection System:	12231	feet	
	2.32	miles	
	21.41	inch-miles	
Material Type:	VC	0.0	%
	CIPP	0.0	%
	Truss	0.0	%
	PVC	100.0	%
	DIP	0.0	%

Town of Beaufort
Sub-Basin 18: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
18-1	LS 18	10	50	PVC	2003	0.09
18-10	18-8	8	350	PVC	2003	0.53
18-11	18-10	8	200	PVC	2003	0.30
18-12	18-10	8	250	PVC	2003	0.38
18-13	18-12	8	350	PVC	2003	0.53
18-14	18-12	8	275	PVC	2003	0.42
18-15	18-14	8	250	PVC	2003	0.38
18-16	18-15	8	125	PVC	2003	0.19
18-2	18-1	10	387	PVC	2003	0.73
18-3	18-2	10	375	PVC	2003	0.71
18-4	18-3	8	150	PVC	2003	0.23
18-5	18-4	8	75	PVC	2003	0.11
18-6	18-3	8	250	PVC	2003	0.38
18-7	18-6	8	125	PVC	2003	0.19
18-8	18-1	10	200	PVC	2003	0.38
18-9	18-8	8	175	PVC	2003	0.27

Total Collection System:	3587	feet	
	0.68	miles	
	5.82	inch-miles	
Material Type:	VC	0.0	%
	CIPP	0.0	%
	Truss	0.0	%
	PVC	100.0	%
	DIP	0.0	%

Town of Beaufort
Sub-Basin 19: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
19-10	19-18	8	258	PVC	2005	0.39
19-11	19-1	10	286	PVC	2005	0.54
19-12	19-11	10	138	PVC	2005	0.26
19-13	19-12	10	237	PVC	2005	0.45
19-14	19-13	8	114	PVC	2005	0.17
19-15	19-13	8	211	PVC	2005	0.32
19-16	19-15	8	89	PVC	2005	0.13
19-17	19-16	8	181	PVC	2005	0.27
19-18	19-2	8	216	PVC	2005	0.33
19-2	19-1	10	44	PVC	2005	0.08
19-3	19-2	10	295	PVC	2005	0.56
19-4	19-3	10	264	PVC	2005	0.50
19-5	19-4	10	58	PVC	2005	0.11
19-6	19-4	8	411	PVC	2005	0.62
19-7	19-6	8	158	PVC	2005	0.24
19-8	19-3	8	250	PVC	2005	0.38
19-9	19-8	8	241	PVC	2005	0.37
19-1	LS 19	10	46	PVC	2005	0.09

Total Collection System:	3497	feet	
	0.66	miles	
	5.82	inch-miles	
Material Type:	VC	0.0	%
	CIPP	0.0	%
	Truss	0.0	%
	PVC	100.0	%
	DIP	0.0	%

Town of Beaufort
Sub-Basin 22: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
22-1	22-10	8	26	DIP	2019	0.04
22-1	LS 22	10	26	PVC	2019	0.05
22-10	LS 22	8	8	DIP	2019	0.01
22-11	22-1	8	180	DIP	2019	0.27
22-12	22-11	8	289	PVC	2019	0.44
22-13	22-12	8	412	PVC	2019	0.62
22-14	22-13	8	88	PVC	2019	0.13
22-15	22-14	8	60	DIP	2019	0.09
22-16	22-15	8	132	DIP	2019	0.20
22-17	22-9	N/A	300	N/A	Future	N/A
22-18	22-7	N/A	295	N/A	Future	N/A
22-19	22-6	N/A	205	N/A	Future	N/A
22-2	22-1	8	45	PVC	2019	0.07
22-20	22-11	8	305	PVC	2019	0.46
22-21	22-20	8	74	PVC	2019	0.11
22-22	22-21	8	153	PVC	2019	0.23
22-23	22-22	8	155	PVC	2019	0.23
22-24	22-19	N/A	48	N/A	Future	N/A
22-25	22-32	8	90	PVC	Future	0.14
22-26	22-25	8	205	PVC	Future	0.31
22-27	22-26	8	200	PVC	Future	0.30
22-28	22-27	8	200	PVC	Future	0.30
22-29	22-28	8	200	PVC	Future	0.30
22-3	22-2	8	63	PVC	2019	0.10
22-30	22-20	8	77	PVC	2019	0.12
22-31	22-30	8	225	PVC	2019	0.34
22-32	22-31	8	300	PVC	2019	0.45
22-33	22-32	8	289	PVC	2019	0.44
22-34	22-12	8	147	PVC	2019	0.22
22-35	22-29	8	280	PVC	Future	0.42
22-36	22-35	8	25	DIP	Future	0.04
22-37	22-36	8	130	DIP	Future	0.20
22-38	22-37	8	35	DIP	Future	0.05
22-39	22-38	8	165	DIP	Future	0.25
22-4	22-3	8	399	PVC	2019	0.60
22-40	22-31	8	253	PVC	2019	0.38
22-41	22-40	8	81	PVC	2019	0.12
22-42	22-41	8	76	PVC	2019	0.12
22-43	22-30	N/A	N/A	N/A	Future	N/A
22-44	22-43	N/A	N/A	N/A	Future	N/A
22-45	22-21	N/A	N/A	N/A	Future	N/A
22-46	22-45	N/A	N/A	N/A	Future	N/A
22-47	22-23	N/A	N/A	N/A	Future	N/A

Town of Beaufort
Sub-Basin 22: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
22-48	22-28	8	170	PVC	Future	0.26
22-49	22-48	8	220	PVC	Future	0.33
22-5	22-4	8	37	PVC	2019	0.06
22-5	22-4	8	20	DIP	2019	0.03
22-50	22-49	8	200	PVC	Future	0.30
22-51	22-38	8	50	DIP	Future	0.08
22-6	22-5	8	162	PVC	2019	0.25
22-7	22-6	8	116	PVC	2019	0.18
22-8	22-7	N/A	253	N/A	Future	N/A
22-9	22-8	N/A	316	N/A	Future	N/A

Total Collection System:	7785	feet	
	1.47	miles	
	9.66	inch-miles	
Material Type:	VC	0.0	%
	CIPP	0.0	%
	Truss	0.0	%
	PVC	71.1	%
	DIP	10.7	%

Town of Beaufort

Sub-Basin 23: Gravity Sewer Lines Asset Inventory

Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
23-1	LS 23	8	8	PVC	2021	0.01
23-10	23-9	8	134	PVC	2021	0.20
23-11	23-10	8	283	PVC	2021	0.43
23-12	23-11	8	265	PVC	2021	0.40
23-13	23-2	8	45	PVC	2021	0.07
23-14	23-13	8	339	PVC	2021	0.51
23-15	23-14	8	121	PVC	2021	0.18
23-16	23-15	8	182	PVC	2021	0.28
23-17	23-16	8	331	PVC	2021	0.50
23-18	23-17	8	243	PVC	2021	0.37
23-19	23-23	8	204	PVC	2021	0.31
23-2	23-1	8	28	PVC	2021	0.04
23-20	23-19	8	100	PVC	2021	0.15
23-21	23-20	8	110	PVC	2021	0.17
23-22	23-20	8	275	PVC	2021	0.42
23-23	23-7	8	252	PVC	2021	0.38
23-24	23-14	8	75	PVC	2021	0.11
23-25	23-24	8	237	PVC	2021	0.36
23-26	23-25	8	118	PVC	2021	0.18
23-27	23-26	8	133	PVC	2021	0.20
23-28	23-27	8	81	PVC	2021	0.12
23-29	23-28	8	28	PVC	2021	0.04
23-3	23-1	8	225	PVC	2021	0.34
23-30	23-29	8	31	PVC	2021	0.05
23-31	23-30	8	35	PVC	2021	0.05
23-32	23-24	8	269	PVC	2021	0.41
23-33	23-32	8	68	PVC	2021	0.10
23-34	23-32	8	67	PVC	2021	0.10
23-35	23-34	8	170	PVC	2021	0.26
23-36	23-34	8	108	PVC	2021	0.16
23-37	23-17	8	171	PVC	2021	0.26
23-38	23-4	8	158	PVC	2021	0.24
23-4	23-3	8	260	PVC	2021	0.39
23-5	23-4	8	153	PVC	2021	0.23
23-6	23-5	8	246	PVC	2021	0.37
23-7	23-6	8	48	PVC	2021	0.07
23-8	23-6	8	203	PVC	2021	0.31
23-9	23-4	8	216	PVC	2021	0.33
			6020	feet		
Total Collection System:			1.14	miles		
			9.12	inch-miles		

Town of Beaufort
Sub-Basin 23: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

	VC	0.0	%
	CIPP	0.0	%
Material Type:	Truss	0.0	%
	PVC	100.0	%
	DIP	0.0	%

Town of Beaufort
Sub-Basin 24: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
24-2	24-1	10	219	PVC	2014	0.41
24-3	24-2	10	218	PVC	2014	0.41
24-4	24-3	10	23	PVC	2014	0.04
24-5	24-4	10	291	PVC	2014	0.55
24-6	24-5	10	89	DIP	2019	0.17
24-7	24-6	10	116	PVC	2019	0.22
24-8	24-7	10	241	PVC	2019	0.46
24-9	24-7	10	59	PVC	2019	0.11
Stub-out	24-8	10	Unknown	PVC	2015	N/A

Total Collection System:	1256	feet	
	0.24	miles	
	2.38	inch-miles	
Material Type:	VC	0.0	%
	CIPP	0.0	%
	Truss	0.0	%
	PVC	92.9	%
	DIP	7.1	%

Town of Beaufort
Sub-Basin 26: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
26-2	26-1	8	99	PVC	2019	0.15
26-3	26-2	8	61	PVC	2019	0.09
26-1	LS 26	8	31	PVC	2019	0.05

Total Collection System:	191	feet	
	0.04	miles	
	0.29	inch-miles	
Material Type:	VC	0.0	%
	CIPP	0.0	%
	Truss	0.0	%
	PVC	100.0	%
	DIP	0.0	%

Town of Beaufort
WWTP: Gravity Sewer Lines Asset Inventory
Wastewater Asset Management Plan

Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Inch-miles
Secondary Treatment	WW-1	18	50	VC	1969	0.17
Stub-out	WW-16	8	2	DIP	1969	0.00
WW-1	WW-2	18	57	VC	1969	0.19
WW-10	WW-11	10	273	DIP	2007	0.52
WW-11	WW-12	10	230	DIP	2007	0.44
WW-12	Influent PS	10	14	DIP	2007	0.03
WW-13	WW-11	10	62	DIP	2007	0.12
WW-14	WW-15	8	101	DIP	2007	0.15
WW-15	WW-10	8	42	DIP	2007	0.06
WW-16	WW-17	8	91	DIP	2007	0.14
WW-17	WW-12	8	100	DIP	2007	0.15
WW-2	WW-3	18	166	VC	1969	0.57
WW-3	WWTP Outfall	24	2985	DIP	1986	13.57
WW-8	WW-9	8	101	DIP	2007	0.15
WW-9	WW-10	8	55	DIP	2007	0.08

Total Collection System:	4329	feet	
	0.82	miles	
	16.34	inch-miles	
Material Type:	VC	6.3	%
	CIPP	0.0	%
	Truss	0.0	%
	PVC	0.0	%
	DIP	93.7	%

APPENDIX

G

Collection System Assessment

RISK ASSESSMENT

Description: Assess a rating which is proportional to the likelihood that the pipe segment experiences failure.

Material Rating

Description: Based on type of material of the pipe segment.

Condition/Description	Rating
PVC or DIP Piping	0
CIPP/Lined Piping	2
Truss Piping	3
Vitrified Clay Piping	5

Service Life Rating

Description: The age of the pipe based on when it was originally built is a good indicator of the condition of the infrastructure. Infrastructure that is older is assumed to be in worse condition, and therefore assumed to be more likely to fail.

Age	Rating
< 10 Years	0
10 - 20 Years	1
20 - 30 Years	2
30 - 40 Years	3
40 - 50 Years	4
50+ Years	5

Condition Rating

Description: Based on general observations of the condition of the pipe segment based on CCTV review. Pipe segments in poor condition are more likely to experience failure.

Condition/Description	Rating
New/Excellent Condition	0
Minor Defects	1
Unknown/CCTV Needed	2
Significant Maintenance Required	4
Requires Major Renewal	5

CONSEQUENCE ASSESSMENT

Description: Evaluates the degree to which the asset exhibited infiltration completed as part of a Phase I SSES

Infiltration Rating

Description: Based on the degree to which the asset exhibited infiltration during instantaneous flow monitoring, completed as part of a 2010 Phase 1 SSES

Approximate I/I Measured (GPD/In-Mi)	Rating
Unknown/Not Measured	1
0 - 1,500	2
1,500 - 10,000	3
10,000 - 50,000	4
50,000+	5

Town of Beaufort
Gravity Sewer Lines Ranked by Criticality
Wastewater Asset Management Plan

								Risk Assessment			Consequence Assessment		
Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Age (Years)	Inch-miles	Material Rating	Service Life Rating	Condition Rating	GPD/In-Mi	Infiltration Rating	Total Ranking
2-33	2-32	6	175	VC	1969	52	0.20	5	5	5	108,705.88	5	75
2-32	2-31	10	65	VC	1969	52	0.12	5	5	4	108,705.88	5	70
2-5	2-4	8	100	VC	1969	52	0.15	5	5	2	56,100.00	5	60
2-6	2-5	6	250	VC	1969	52	0.28	5	5	5	17,600.00	4	60
2-16	2-14	8	350	VC	1969	52	0.53	5	5	5	38,076.92	4	60
2-27	2-12	8	400	VC	1969	52	0.61	5	5	5	18,645.00	4	60
2-34	2-33	6	36	VC	1969	52	0.04	5	5	5	28,758.17	4	60
2-35	2-34	6	117	VC	1969	52	0.13	5	5	5	28,758.17	4	60
3-24	3-8	8	75	VC	1969	52	0.11	5	5	2	97,724.00	5	60
3-25	3-24	8	75	VC	1969	52	0.11	5	5	2	97,724.00	5	60
6-11	6-10	8	175	VC	1969	52	0.27	5	5	5	20,742.86	4	60
6-30	Stub-out	6	280	VC	1969	52	0.32	5	5	5	15,714.29	4	60
7-19	7-9	8	239	VC	1969	52	0.36	5	5	5	16,569.04	4	60
8-26	8-25	8	150	VC	1969	52	0.23	5	5	5	11,578.95	4	60
Stub-out	8-26	8	135	VC	1969	52	0.20	5	5	5	11,578.95	4	60
8-28	8-25	8	200	VC	1969	52	0.30	5	5	5	11,949.47	4	60
8-29	8-28	8	275	VC	1969	52	0.42	5	5	5	11,949.47	4	60
8-61	8-39	8	195	VC	1969	52	0.30	5	5	5	10,830.77	4	60
9-25	9-24	8	282	VC	1969	52	0.43	5	5	5	16,500.00	4	60
9-26	9-25	8	252	VC	1969	52	0.38	5	5	5	16,500.00	4	60
9-30	9-26	8	169	VC	1969	52	0.26	5	5	5	11,708.28	4	60
9-93	9-92	8	305	VC	1969	52	0.46	5	5	5	10,036.36	4	60
9-56	9-55	8	265	VC	1969	52	0.40	5	5	5	13,813.95	4	60

Town of Beaufort
Gravity Sewer Lines Ranked by Criticality
Wastewater Asset Management Plan

								Risk Assessment			Consequence Assessment		
Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Age (Years)	Inch-miles	Material Rating	Service Life Rating	Condition Rating	GPD/In-Mi	Infiltration Rating	Total Ranking
2-2	2-1	8	64	VC	1969	52	0.10	5	5	4	21,029.41	4	56
2-3	2-2	8	15	VC	1969	52	0.02	5	5	4	21,029.41	4	56
2-17	2-16	8	300	VC	1969	52	0.45	5	5	4	38,076.92	4	56
2-18	2-17	8	300	VC	1969	52	0.45	5	5	4	20,296.13	4	56
2-21	2-20	8	225	VC	1969	52	0.34	5	5	4	10,560.00	4	56
10-13	10-12	8	263	VC	1969	52	0.40	5	5	4	11,182.32	4	56
10-14	10-13	8	280	VC	1969	52	0.42	5	5	4	11,182.32	4	56
10-22	10-21	8	214	VC	1969	52	0.32	5	5	4	13,807.53	4	56
9-9	9-8	8	260	Truss	1969	52	0.39	3	5	5	17,729.64	4	52
1-6	1-5	8	200	VC	1969	52	0.30	5	5	2	18,941.70	4	48
2-35	1-28	8	100	VC	1969	52	0.15	5	5	2	12,554.35	4	48
2-4	2-3	8	125	VC	1969	52	0.19	5	5	2	21,029.41	4	48
3-18	3-17	8	334	VC	1969	52	0.51	5	5	2	33,592.81	4	48
3-23	3-10	8	325	VC	1969	52	0.49	5	5	2	14,824.62	4	48
3-26	3-25	8	200	VC	1969	52	0.30	5	5	2	20,625.00	4	48
3-27	3-26	8	200	VC	1969	52	0.30	5	5	2	20,625.00	4	48
4-19	4-25	8	50	VC	1969	52	0.08	5	5	2	10,800.00	4	48
4-20	4-19	8	325	VC	1969	52	0.49	5	5	2	10,800.00	4	48
4-22	4-21	8	375	VC	1969	52	0.57	5	5	2	28,160.00	4	48
4-25	4-17	8	175	VC	1969	52	0.27	5	5	2	10,800.00	4	48
5-2	5-1	8	50	VC	1969	52	0.08	5	5	2	26,400.00	4	48
6-56	6-60	10	450	VC	1969	52	0.85	5	5	2	10,090.67	4	48
6-61	6-60	8	400	VC	1969	52	0.61	5	5	2	15,675.00	4	48

Town of Beaufort
Gravity Sewer Lines Ranked by Criticality
Wastewater Asset Management Plan

								Risk Assessment			Consequence Assessment		
Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Age (Years)	Inch-miles	Material Rating	Service Life Rating	Condition Rating	GPD/In-Mi	Infiltration Rating	Total Ranking
7-6	7-1	8	50	VC	1969	52	0.08	5	5	2	27,720.00	4	48
7-27	7-8	8	250	VC	1969	52	0.38	5	5	2	33,689.10	4	48
7-28	7-27	8	181	VC	1969	52	0.27	5	5	2	33,689.10	4	48
8-76	8-41	8	350	VC	1969	52	0.53	5	5	2	11,954.72	4	48
9-8	9-7	8	125	Truss	1969	52	0.19	3	5	4	17,729.64	4	48
9-61	9-96	8	350	VC	1969	52	0.53	5	5	2	10,312.50	4	48
9-91	9-54	8	50	VC	1969	52	0.08	5	5	2	10,036.36	4	48
9-92	9-91	8	250	VC	1969	52	0.38	5	5	2	10,036.36	4	48
12-25	12-21	6	23	Truss	1975	46	0.03	3	4	5	14,367.35	4	48
12-26	12-25	6	75	Truss	1975	46	0.09	3	4	5	14,367.35	4	48
1-2	1-1	8	275	VC	1969	52	0.42	5	5	5	1,650.00	3	45
1-7	1-6	8	75	VC	1969	52	0.11	5	5	5	2,785.32	3	45
6-4	6-3	8	150	VC	1969	52	0.23	5	5	5	3,105.88	3	45
6-10	6-9	8	120	Truss	1969	52	0.18	3	5	1	79,750.00	5	45
6-46	6-45	8	305	VC	1969	52	0.46	5	5	5	9,383.89	3	45
6-31	6-30	8	273	VC	1969	52	0.41	5	5	5	4,645.55	3	45
6-45	6-44	8	328	VC	1969	52	0.50	5	5	5	9,383.89	3	45
6-40	6-65	6	235	VC	1969	52	0.27	5	5	5	5,617.02	3	45
8-17	8-16	8	294	VC	1969	52	0.45	5	5	5	8,224.30	3	45
8-18	8-17	8	27	VC	1969	52	0.04	5	5	5	8,224.30	3	45
8-19	8-16	8	250	VC	1969	52	0.38	5	5	5	3,300.00	3	45
8-20	8-19	8	150	VC	1969	52	0.23	5	5	5	3,300.00	3	45
8-31	8-30	8	250	VC	1969	52	0.38	5	5	5	2,580.25	3	45

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Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Age (Years)	Inch-miles	Material Rating	Service Life Rating	Condition Rating	GPD/In-Mi	Infiltration Rating	Total Ranking
8-80	8-77	10	375	VC	1969	52	0.71	5	5	5	2,403.64	3	45
8-63	8-2	8	350	VC	1969	52	0.53	5	5	5	5,845.71	3	45
9-16	9-15	8	207	VC	1969	52	0.31	5	5	1	19,130.43	4	44
10-23	10-22	8	253	VC	1969	52	0.38	5	5	1	13,807.53	4	44
8-21	8-14	8	40	VC	1969	52	0.06	5	5	4	6,397.96	3	42
8-22	8-21	8	156	VC	1969	52	0.24	5	5	4	6,397.96	3	42
8-91	8-80	8	355	VC	1969	52	0.54	5	5	4	2,403.64	3	42
9-18	9-17	8	207	VC	1969	52	0.31	5	5	4	5,258.96	3	42
9-26	9-25	8	30	DIP	1969	52	0.05	0	5	5	16,500.00	4	40
4-15	4-14	8	126	Truss	1969	52	0.19	3	5	5	8,962.96	3	39
9-70	9-57	8	369	Truss	1969	52	0.56	3	5	5	4,008.10	3	39
1-4	1-2	8	325	VC	1969	52	0.49	5	5	2	1,650.00	3	36
1-19	1-18	10	325	VC	1969	52	0.62	5	5	2	8,935.38	3	36
3-12	3-11	8	100	VC	1969	52	0.15	5	5	2	3,764.26	3	36
3-13	3-12	8	200	VC	1969	52	0.30	5	5	2	3,764.26	3	36
3-14	3-13	8	100	VC	1969	52	0.15	5	5	2	3,764.26	3	36
3-15	3-14	8	150	VC	1969	52	0.23	5	5	2	3,764.26	3	36
3-19	3-17	8	225	VC	1969	52	0.34	5	5	2	4,400.00	3	36
3-28	3-27	8	150	VC	1969	52	0.23	5	5	2	8,800.00	3	36
3-29	3-28	8	300	VC	1969	52	0.45	5	5	2	4,400.00	3	36
4-14	4-5	8	279	Truss	1969	52	0.42	3	5	4	8,962.96	3	36
5-20	5-15	8	450	VC	1969	52	0.68	5	5	2	1,660.38	3	36
5-22	5-20	8	75	VC	1969	52	0.11	5	5	2	1,660.38	3	36

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5-23	5-22	8	203	VC	1969	52	0.31	5	5	2	1,660.38	3	36
5-24	5-23	8	67	VC	1969	52	0.10	5	5	2	1,660.38	3	36
6-5	6-4	6	300	VC	1969	52	0.34	5	5	2	3,105.88	3	36
6-64	6-63	8	200	VC	1969	52	0.30	5	5	2	2,174.12	3	36
6-54	6-53	8	300	VC	1969	52	0.45	5	5	2	2,200.00	3	36
6-47	6-46	8	510	VC	1969	52	0.77	5	5	2	9,058.82	3	36
6-65	6-64	8	225	VC	1969	52	0.34	5	5	2	2,053.33	3	36
8-64	8-38	8	250	VC	1969	52	0.38	5	5	2	6,427.83	3	36
8-47	8-41	8	300	VC	1969	52	0.45	5	5	2	3,300.00	3	36
8-43	8-42	8	350	VC	1969	52	0.53	5	5	2	1,508.57	3	36
8-46	8-45	8	250	VC	1969	52	0.38	5	5	2	3,785.85	3	36
8-48	8-47	8	300	VC	1969	52	0.45	5	5	2	3,300.00	3	36
8-65	8-64	8	325	VC	1969	52	0.49	5	5	2	6,427.83	3	36
9-9	9-8	8	40	DIP	1969	52	0.06	0	5	4	17,729.64	4	36
9-32	9-31	8	291	PVC	1969	52	0.44	0	5	4	11,708.28	4	36
9-31	9-30	8	301	PVC	1969	52	0.46	0	5	4	11,708.28	4	36
9-72	9-70	8	125	Truss	1969	52	0.19	3	5	4	4,008.10	3	36
10-25	10-10	8	200	VC	1969	52	0.30	5	5	2	4,224.00	3	36
Stub-out	10-25	8	50	VC	1969	52	0.08	5	5	2	4,224.00	3	36
12-22	12-21	8	109	Truss	1975	46	0.17	3	4	5	9,200.74	3	36
12-23	12-22	8	189	Truss	1975	46	0.29	3	4	5	9,200.74	3	36
12-24	12-23	8	240	Truss	1975	46	0.36	3	4	5	9,200.74	3	36
Stub-out	5-3	8	150	PVC	1969	52	0.23	0	5	2	61,600.00	5	35

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8-8	8-7	8	248	VC	1969	52	0.38	5	5	1	2,559.18	3	33
8-9	8-8	8	242	VC	1969	52	0.37	5	5	1	2,559.18	3	33
9-17	9-15	8	295	VC	1969	52	0.45	5	5	1	5,258.96	3	33
9-37	9-36	8	211	VC	1969	52	0.32	5	5	1	2,528.74	3	33
10-16	10-15	8	41	VC	1969	52	0.06	5	5	1	2,171.05	3	33
10-17	10-15	8	349	VC	1969	52	0.53	5	5	1	8,888.25	3	33
12-3	12-1	8	425	Truss	1975	46	0.64	3	4	4	1,993.64	3	33
12-8	12-1	8	258	Truss	1975	46	0.39	3	4	4	2,097.46	3	33
12-27	12-19	8	122	Truss	1975	46	0.18	3	4	1	25,208.33	4	32
3-5	3-4	8	198	VC	1969	52	0.30	5	5	5	604.40	2	30
6-4	6-3	8	50	DIP	1969	52	0.08	0	5	5	3,105.88	3	30
6-44	6-91	10	250	VC	1969	52	0.47	5	5	5	584.07	2	30
6-91	6-43	10	202	VC	1969	52	0.38	5	5	5	584.07	2	30
6-34	6-33	6	212	VC	1969	52	0.24	5	5	5	1,195.65	2	30
6-52	6-51	12	212	Truss	1969	52	0.48	3	5	2	9,156.63	3	30
6-31	6-30	6	139	PVC	1969	52	0.16	0	5	5	4,645.55	3	30
6-55	6-56	10	363	VC	1969	52	0.69	5	5	5	1,454.55	2	30
6-50	6-49	12	8	Truss	1969	52	0.02	3	5	2	9,156.63	3	30
9-77	9-76	8	331	VC	1969	52	0.50	5	5	5	1,361.76	2	30
2-19	2-18	8	139	CIPP	2008	13	0.21	2	1	4	20,296.13	4	28
3-4	3-3	8	348	VC	1969	52	0.53	5	5	4	604.40	2	28
6-66	6-65	8	353	VC	1969	52	0.53	5	5	4	186.97	2	28
8-10	8-7	8	237	VC	1969	52	0.36	5	5	4	1,411.76	2	28

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8-11	8-10	8	137	VC	1969	52	0.21	5	5	4	1,411.76	2	28
8-102	8-3	8	202	CIPP	2008	13	0.31	2	1	4	11,655.96	4	28
8-100	8-59	8	300	PVC	1969	52	0.45	0	5	2	16,060.00	4	28
8-33	8-25	8	287	CIPP	2008	13	0.43	2	1	4	18,857.14	4	28
9-6	9-5	8	363	CIPP	2008	13	0.55	2	1	4	17,729.64	4	28
9-7	9-6	8	366	CIPP	2008	13	0.55	2	1	4	17,729.64	4	28
9-75	9-74	8	169	VC	1969	52	0.26	5	5	4	1,482.04	2	28
9-45	9-44	8	281	VC	1969	52	0.43	5	5	4	886.90	2	28
9-78	9-77	8	314	VC	1969	52	0.48	5	5	4	1,361.76	2	28
11-4	11-3	8	269	VC	1969	52	0.41	5	5	4	122.68	2	28
11-5	11-3	8	205	VC	1969	52	0.31	5	5	4	169.67	2	28
5-4	5-2	8	221	Truss	1969	52	0.33	3	5	1	9,041.10	3	27
5-5	5-4	8	217	Truss	1969	52	0.33	3	5	1	9,041.10	3	27
5-13	5-5	8	181	Truss	1969	52	0.27	3	5	1	2,757.66	3	27
5-10	5-5	8	125	Truss	1969	52	0.19	3	5	1	7,615.38	3	27
6-37	6-36	8	238	Truss	1969	52	0.36	3	5	5	138.66	2	26
7-36	7-13	8	30	Truss	1969	52	0.05	3	5	5	1,000.00	2	26
Stub-out	2-15	8	350	VC	1969	52	0.53	5	5	2	1,131.43	2	24
6-79	6-52	10	8	Truss	1969	52	0.02	3	5	0	9,156.63	3	24
7-14	7-15	8	255	Truss	1969	52	0.39	3	5	4	517.65	2	24
8-5	8-4	8	141	Truss	1969	52	0.21	3	5	4	417.72	2	24
9-11	9-10	8	189	CIPP	2008	13	0.29	2	1	5	8,595.35	3	24
9-66	9-63	10	320	Truss	1969	52	0.61	3	5	4	330.00	2	24

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12-2	12-1	8	138	Truss	1975	46	0.21	3	4	1	6,217.39	3	24
12-5	12-4	8	248	Truss	1975	46	0.38	3	4	1	1,596.77	3	24
12-9	12-8	8	214	Truss	1975	46	0.32	3	4	1	2,097.46	3	24
12-10	12-9	8	151	Truss	1975	46	0.23	3	4	1	4,529.41	3	24
12-11	12-10	8	104	Truss	1975	46	0.16	3	4	1	4,529.41	3	24
12-14	12-12	8	335	Truss	1975	46	0.51	3	4	5	100.92	2	24
12-27	12-19	8	22	DIP	1975	46	0.03	0	4	2	25,208.33	4	24
1-31	1-9	8	250	PVC	1969	52	0.38	0	5	2	9,726.32	3	21
1-32	1-31	8	225	PVC	1969	52	0.34	0	5	2	9,726.32	3	21
9-14	9-13	8	326	CIPP	2008	13	0.49	2	1	4	4,984.89	3	21
9-15	9-14	8	336	CIPP	2008	13	0.51	2	1	4	4,984.89	3	21
9-47	9-42	8	366	CIPP	2008	13	0.55	2	1	4	5,165.99	3	21
9-58	9-47	8	147	CIPP	2008	13	0.22	2	1	4	5,165.99	3	21
10-18	10-16	8	253	CIPP	2008	13	0.38	2	1	4	2,171.05	3	21
12-4	12-3	8	204	Truss	1975	46	0.31	3	4	0	1,993.64	3	21
1-5	1-1	8	246	CIPP	2008	13	0.37	2	1	2	18,941.70	4	20
1-11	1-10	8	50	PVC	1969	52	0.08	0	5	5	1,225.46	2	20
1-22	1-16	8	190	CIPP	2008	13	0.29	2	1	2	17,651.16	4	20
1-27	1-25	8	363	CIPP	2008	13	0.55	2	1	2	12,554.35	4	20
1-28	1-27	8	273	CIPP	2008	13	0.41	2	1	2	12,554.35	4	20
2-23	2-20	8	245	CIPP	2008	13	0.37	2	1	2	18,722.45	4	20
2-24	2-23	8	245	CIPP	2008	13	0.37	2	1	2	18,722.45	4	20
5-15	5-3	8	450	CIPP	2008	13	0.68	2	1	2	29,186.67	4	20

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6-26	6-25	10	451	CIPP	2008	13	0.85	2	1	2	19,200.00	4	20
7-2	7-1	8	23	PVC	1969	52	0.03	0	5	0	12,531.65	4	20
7-3	7-2	8	214	PVC	1969	52	0.32	0	5	0	12,531.65	4	20
8-77	8-76	10	356	CIPP	2008	13	0.67	2	1	2	11,954.72	4	20
8-42	8-49	8	264	CIPP	2008	13	0.40	2	1	2	17,558.49	4	20
9-97	9-63	8	100	Truss	1969	52	0.15	3	5	2	264.00	2	20
9-23	9-22	8	38	PVC	1969	52	0.06	0	5	0	16,500.00	4	20
9-76	9-75	8	82	VC	1969	52	0.12	5	5	0	1,361.76	2	20
9-65	9-97	8	150	Truss	1969	52	0.23	3	5	2	264.00	2	20
11-6	11-5	8	184	VC	1969	52	0.28	5	5	0	169.67	2	20
4-13	4-12	8	147	Truss	1969	52	0.22	3	5	1	447.46	2	18
9-63	9-62	10	238	Truss	1969	52	0.45	3	5	1	1,123.04	2	18
9-36	9-35	8	50	PVC	1969	52	0.08	0	5	1	2,528.74	3	18
9-49	9-48	8	212	PVC	1969	52	0.32	0	5	1	5,165.99	3	18
9-48	9-58	8	16	PVC	1969	52	0.02	0	5	1	5,165.99	3	18
4-8	4-7	8	176	Truss	1969	52	0.27	3	5	0	364.64	2	16
4-9	4-8	8	186	Truss	1969	52	0.28	3	5	0	364.64	2	16
4-12	4-7	8	148	Truss	1969	52	0.22	3	5	0	447.46	2	16
7-17	7-16	8	424	Truss	1969	52	0.64	3	5	0	466.98	2	16
7-26	7-16	8	395	Truss	1969	52	0.60	3	5	0	334.18	2	16
7-37	7-36	8	366	Truss	1969	52	0.55	3	5	0	1,000.00	2	16
8-4	8-3	8	175	Truss	1969	52	0.27	3	5	0	417.72	2	16
8-12	8-102	8	43	CIPP	2008	13	0.07	2	1	1	11,655.96	4	16

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8-13	8-12	8	191	CIPP	2008	13	0.29	2	1	1	11,655.96	4	16
8-51	8-50	8	374	CIPP	2008	13	0.57	2	1	5	352.94	2	16
9-24	9-23	8	238	CIPP	2008	13	0.36	2	1	1	16,500.00	4	16
9-33	9-22	8	244	CIPP	2008	13	0.37	2	1	1	27,187.50	4	16
9-34	9-33	8	247	CIPP	2008	13	0.37	2	1	1	27,187.50	4	16
9-35	9-34	8	213	CIPP	2008	13	0.32	2	1	1	27,187.50	4	16
10-11	10-10	8	298	CIPP	2008	13	0.45	2	1	5	212.45	2	16
10-12	10-33	8	339	CIPP	2008	13	0.51	2	1	5	212.45	2	16
11-9	11-1	8	325	CIPP	2008	13	0.49	2	1	1	11,778.46	4	16
12-15	12-14	8	319	Truss	1975	46	0.48	3	4	1	100.92	2	16
1-21	1-16	10	145	CIPP	2008	13	0.27	2	1	2	3,633.03	3	15
2-30	2-8	8	242	VC	1969	52	0.37	5	5	5	0.00	1	15
3-11	3-10	8	239	CIPP	2008	13	0.36	2	1	2	3,764.26	3	15
5-6	5-13	8	178	DIP	1969	52	0.27	0	5	0	2,757.66	3	15
6-51	6-50	12	189	CIPP	2008	13	0.43	2	1	2	9,156.63	3	15
6-71	6-23	8	415	VC	1969	52	0.63	5	5	5	0.00	1	15
7-10	7-9	8	493	CIPP	2008	13	0.75	2	1	2	7,363.08	3	15
7-13	7-10	10	370	CIPP	2008	13	0.70	2	1	2	1,997.84	3	15
7-14	7-13	8	448	CIPP	2008	13	0.68	2	1	2	9,281.25	3	15
7-21	7-20	8	142	CIPP	2008	13	0.22	2	1	2	2,323.94	3	15
8-59	8-58	8	499	CIPP	2008	13	0.76	2	1	2	1,666.67	3	15
8-45	8-42	8	273	CIPP	2008	13	0.41	2	1	2	3,785.85	3	15
8-78	8-77	8	82	PVC	1969	52	0.12	0	5	0	1,980.00	3	15

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8-58	8-32	8	25	CIPP	2008	13	0.04	2	1	2	1,666.67	3	15
8-32	8-57	8	466	CIPP	2008	13	0.71	2	1	2	1,666.67	3	15
8-79	8-78	8	118	PVC	1969	52	0.18	0	5	0	1,980.00	3	15
9-95	8-11	8	212	VC	1969	52	0.32	5	5	5	0.00	1	15
9-94	9-93	8	344	VC	1969	52	0.52	5	5	5	0.00	1	15
9-52	9-50	10	324	VC	1969	52	0.61	5	5	5	0.00	1	15
9-54	9-53	10	241	VC	1969	52	0.46	5	5	5	0.00	1	15
16-9	16-4	10	175	PVC	1999	22	0.33	0	2	1	59,739.43	5	15
1-10	1-9	8	50	PVC	1969	52	0.08	0	5	2	1,225.46	2	14
2-20	2-26	8	217	VC	1969	52	0.33	5	5	4	0.00	1	14
2-26	2-15	8	161	VC	1969	52	0.24	5	5	4	0.00	1	14
4-17	4-16	8	245	VC	1969	52	0.37	5	5	4	0.00	1	14
6-30	6-28	8	500	VC	1969	52	0.76	5	5	4	0.00	1	14
7-22	7-35	8	271	CIPP	2008	13	0.41	2	1	4	1,336.03	2	14
7-34	7-6	8	174	CIPP	2008	13	0.26	2	1	4	717.39	2	14
8-35	8-34	8	300	CIPP	2008	13	0.45	2	1	4	869.85	2	14
8-72	8-71	8	338	CIPP	2008	13	0.51	2	1	4	1,306.93	2	14
9-95	9-94	8	342	VC	1969	52	0.52	5	5	4	0.00	1	14
12-12	12-33	8	327	Truss	1975	46	0.50	3	4	0	175.07	2	14
12-29	12-18	8	284	Truss	1975	46	0.43	3	4	0	124.53	2	14
12-30	12-29	8	246	Truss	1975	46	0.37	3	4	0	124.53	2	14
12-33	12-11	8	50	Truss	1975	46	0.08	3	4	0	175.07	2	14
Stub-out	8-32	8	77	Truss	1969	52	0.12	3	5	5	0.00	1	13

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								Risk Assessment			Consequence Assessment		
Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Age (Years)	Inch-miles	Material Rating	Service Life Rating	Condition Rating	GPD/In-Mi	Infiltration Rating	Total Ranking
11-10	11-21	8	220	Truss	1969	52	0.33	3	5	5	0.00	1	13
1-3	1-2	6	50	VC	1969	52	0.06	5	5	2	0.00	1	12
1-17	1-22	8	240	PVC	2008	13	0.36	0	1	2	17,651.16	4	12
1-30	1-6	8	221	CIPP	2008	13	0.33	2	1	1	2,579.04	3	12
2-1	LS 2	8	50	VC	1969	52	0.08	5	5	2	0.00	1	12
2-7	2-2	8	150	VC	1969	52	0.23	5	5	2	0.00	1	12
2-8	2-1	8	250	VC	1969	52	0.38	5	5	2	0.00	1	12
2-15	2-14	8	50	VC	1969	52	0.08	5	5	2	0.00	1	12
Stub-out	2-5	8	300	VC	1969	52	0.45	5	5	2	0.00	1	12
2-36	2-7	8	75	VC	1969	52	0.11	5	5	2	0.00	1	12
3-1	LS 3	8	50	VC	1969	52	0.08	5	5	2	0.00	1	12
3-6	3-5	8	225	VC	1969	52	0.34	5	5	2	0.00	1	12
3-8	3-1	8	100	VC	1969	52	0.15	5	5	2	0.00	1	12
3-20	3-19	8	150	VC	1969	52	0.23	5	5	2	0.00	1	12
3-30	3-29	8	300	VC	1969	52	0.45	5	5	2	0.00	1	12
Stub-out	3-20	6	125	VC	1969	52	0.14	5	5	2	0.00	1	12
Stub-out	3-20	6	125	VC	1969	52	0.14	5	5	2	0.00	1	12
Stub-out	3-23	8	300	VC	1969	52	0.45	5	5	2	0.00	1	12
Stub-out	Ann St. (Between 3-17 & 3-19)	6	300	VC	1969	52	0.34	5	5	2	0.00	1	12
4-1	LS 4	8	50	VC	1969	52	0.08	5	5	2	0.00	1	12
4-2	4-1	8	250	VC	1969	52	0.38	5	5	2	0.00	1	12
4-3	4-2	8	250	VC	1969	52	0.38	5	5	2	0.00	1	12
4-5	4-4	8	200	VC	1969	52	0.30	5	5	2	0.00	1	12

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Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Age (Years)	Inch-miles	Material Rating	Service Life Rating	Condition Rating	GPD/In-Mi	Infiltration Rating	Total Ranking
4-6	4-5	8	75	VC	1969	52	0.11	5	5	2	0.00	1	12
4-16	4-1	8	275	VC	1969	52	0.42	5	5	2	0.00	1	12
4-21	4-20	8	350	VC	1969	52	0.53	5	5	2	0.00	1	12
5-11	5-10	8	151	CIPP	2008	13	0.23	2	1	1	7,615.38	3	12
5-25	5-23	8	350	VC	1969	52	0.53	5	5	2	0.00	1	12
6-1	LS 6	15	50	VC	1969	52	0.14	5	5	2	0.00	1	12
6-2	6-1	15	50	VC	1969	52	0.14	5	5	2	0.00	1	12
6-3	6-2	10	100	VC	1969	52	0.19	5	5	2	0.00	1	12
6-12	6-11	8	5	VC	1969	52	0.01	5	5	2	0.00	1	12
6-14	6-13	6	27	VC	1969	52	0.03	5	5	2	0.00	1	12
6-15	6-14	6	150	VC	1969	52	0.17	5	5	2	0.00	1	12
6-16	6-87	8	100	VC	1969	52	0.15	5	5	2	0.00	1	12
6-17	6-16	8	250	VC	1969	52	0.38	5	5	2	0.00	1	12
6-36	6-35	8	412	Truss	1969	52	0.62	3	5	4	0.00	1	12
6-43	6-42	8	75	VC	1969	52	0.11	5	5	2	0.00	1	12
6-70	6-24	8	375	VC	1969	52	0.57	5	5	2	0.00	1	12
6-53	6-79	8	45	VC	1969	52	0.07	5	5	2	0.00	1	12
6-75	6-74	8	250	VC	1969	52	0.38	5	5	2	0.00	1	12
6-73	6-80	8	147	VC	1969	52	0.22	5	5	2	0.00	1	12
7-1	LS 7	8	50	VC	1969	52	0.08	5	5	2	0.00	1	12
7-4	7-3	8	195	VC	1969	52	0.30	5	5	2	0.00	1	12
7-5	7-4	8	225	VC	1969	52	0.34	5	5	2	0.00	1	12
7-11	7-12	8	200	VC	1969	52	0.30	5	5	2	0.00	1	12

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Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Age (Years)	Inch-miles	Material Rating	Service Life Rating	Condition Rating	GPD/In-Mi	Infiltration Rating	Total Ranking
7-24	7-23	8	50	VC	1969	52	0.08	5	5	2	0.00	1	12
7-25	7-24	8	225	VC	1969	52	0.34	5	5	2	0.00	1	12
Stub-out	7-9	4	200	VC	1969	52	0.15	5	5	2	0.00	1	12
8-1	LS 8	12	50	VC	1969	52	0.11	5	5	2	0.00	1	12
8-30	8-29	8	236	CIPP	2008	13	0.36	2	1	1	2,580.25	3	12
8-49	8-41	8	266	PVC	2008	13	0.40	0	1	2	17,558.49	4	12
8-37	8-33	8	100	CIPP	2008	13	0.15	2	1	1	6,600.00	3	12
8-70	8-69	8	200	VC	1969	52	0.30	5	5	2	0.00	1	12
8-54	8-53	8	100	VC	1969	52	0.15	5	5	2	0.00	1	12
8-55	8-54	8	225	VC	1969	52	0.34	5	5	2	0.00	1	12
8-66	8-65	8	200	VC	1969	52	0.30	5	5	2	0.00	1	12
8-67	8-66	8	50	VC	1969	52	0.08	5	5	2	0.00	1	12
8-68	8-67	8	200	VC	1969	52	0.30	5	5	2	0.00	1	12
8-73	8-72	8	175	VC	1969	52	0.27	5	5	2	0.00	1	12
8-74	8-72	8	150	VC	1969	52	0.23	5	5	2	0.00	1	12
8-69	8-68	8	200	VC	1969	52	0.30	5	5	2	0.00	1	12
8-75	8-74	8	200	VC	1969	52	0.30	5	5	2	0.00	1	12
9-1	LS 9	10	50	VC	1969	52	0.09	5	5	2	0.00	1	12
9-2	9-1	8	75	VC	1969	52	0.11	5	5	2	0.00	1	12
9-4	9-3	8	250	VC	1969	52	0.38	5	5	2	0.00	1	12
9-5	9-4	8	200	VC	1969	52	0.30	5	5	2	0.00	1	12
9-10	9-3	8	241	CIPP	2008	13	0.37	2	1	1	8,595.35	3	12
9-28	9-27	8	150	VC	1969	52	0.23	5	5	2	0.00	1	12

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Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Age (Years)	Inch-miles	Material Rating	Service Life Rating	Condition Rating	GPD/In-Mi	Infiltration Rating	Total Ranking
9-29	9-27	8	275	VC	1969	52	0.42	5	5	2	0.00	1	12
Stub-out	10-23	8	200	VC	1969	52	0.30	5	5	2	0.00	1	12
11-2	11-1	8	65	CIPP	2008	13	0.10	2	1	0	28,513.16	4	12
11-3	11-2	8	163	CIPP	2008	13	0.25	2	1	0	28,513.16	4	12
14-4	14-3	10	245	PVC	1998	23	0.46	0	2	2	1,639.75	3	12
14-5	14-4	10	400	PVC	1998	23	0.76	0	2	2	1,639.75	3	12
14-6	14-5	10	391	PVC	1998	23	0.74	0	2	2	1,639.75	3	12
14-7	14-6	10	91	PVC	1998	23	0.17	0	2	2	1,639.75	3	12
14-8	14-7	10	400	PVC	1998	23	0.76	0	2	2	2,640.00	3	12
16-21	16-20	10	109	PVC	1999	22	0.21	0	2	4	115.79	2	12
16-22	16-21	10	119	PVC	1999	22	0.23	0	2	4	115.79	2	12
16-10	16-9	10	295	PVC	1999	22	0.56	0	2	4	170.60	2	12
Secondary Treatment	WW-1	18	50	VC	1969	52	0.17	5	5	2	0.00	1	12
WW-1	WW-2	18	57	VC	1969	52	0.19	5	5	2	0.00	1	12
WW-2	WW-3	18	166	VC	1969	52	0.57	5	5	2	0.00	1	12
8-105	8-60	8	160	VC	1969	52	0.24	5	5	2	0.00	1	12
1-12	1-11	8	277	PVC	1969	52	0.42	0	5	0	1,225.46	2	10
3-31	3-30	8	350	Truss	1969	52	0.53	3	5	2	0.00	1	10
3-38	3-37	8	225	Truss	1969	52	0.34	3	5	2	0.00	1	10
3-40	3-37	8	250	Truss	1969	52	0.38	3	5	2	0.00	1	10
3-39	3-38	8	150	Truss	1969	52	0.23	3	5	2	0.00	1	10
3-34	3-32	8	350	Truss	1969	52	0.53	3	5	2	0.00	1	10
3-32	3-31	8	100	Truss	1969	52	0.15	3	5	2	0.00	1	10

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3-44	3-43	8	150	Truss	1969	52	0.23	3	5	2	0.00	1	10
3-33	3-31	8	300	Truss	1969	52	0.45	3	5	2	0.00	1	10
3-41	3-40	8	250	Truss	1969	52	0.38	3	5	2	0.00	1	10
3-43	3-40	8	150	Truss	1969	52	0.23	3	5	2	0.00	1	10
3-42	3-41	8	150	Truss	1969	52	0.23	3	5	2	0.00	1	10
4-7	4-6	8	250	Truss	1969	52	0.38	3	5	2	0.00	1	10
4-10	4-9	8	275	Truss	1969	52	0.42	3	5	2	0.00	1	10
4-11	4-10	8	50	Truss	1969	52	0.08	3	5	2	0.00	1	10
5-7	5-6	8	150	Truss	1969	52	0.23	3	5	2	0.00	1	10
5-8	5-7	8	200	Truss	1969	52	0.30	3	5	2	0.00	1	10
5-9	5-8	8	200	Truss	1969	52	0.30	3	5	2	0.00	1	10
5-12	5-8	8	100	Truss	1969	52	0.15	3	5	2	0.00	1	10
5-16	5-15	8	50	Truss	1969	52	0.08	3	5	2	0.00	1	10
5-21	5-20	8	337	Truss	1969	52	0.51	3	5	2	0.00	1	10
Stub-out	5-16	8	200	Truss	1969	52	0.30	3	5	2	0.00	1	10
Stub-out	5-21	8	150	Truss	1969	52	0.23	3	5	2	0.00	1	10
6-57	6-56	8	373	PVC	1969	52	0.57	0	5	0	707.77	2	10
7-10	6-24	8	500	Truss	1969	52	0.76	3	5	2	0.00	1	10
7-11	7-10	8	243	Truss	1969	52	0.37	3	5	2	0.00	1	10
7-23	7-22	8	400	Truss	1969	52	0.61	3	5	2	0.00	1	10
6-48	7-13	8	332	Truss	1969	52	0.50	3	5	2	0.00	1	10
8-98	8-97	8	100	Truss	1969	52	0.15	3	5	2	0.00	1	10
8-99	8-98	8	150	Truss	1969	52	0.23	3	5	2	0.00	1	10

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8-95	8-94	8	300	Truss	1969	52	0.45	3	5	2	0.00	1	10
8-96	8-94	6	75	Truss	1969	52	0.09	3	5	2	0.00	1	10
8-92	8-91	8	350	Truss	1969	52	0.53	3	5	2	0.00	1	10
8-94	8-91	8	300	Truss	1969	52	0.45	3	5	2	0.00	1	10
8-93	8-92	8	250	Truss	1969	52	0.38	3	5	2	0.00	1	10
8-97	8-96	6	150	Truss	1969	52	0.17	3	5	2	0.00	1	10
8-62	8-61	8	250	Truss	1969	52	0.38	3	5	2	0.00	1	10
9-64	9-63	8	50	Truss	1969	52	0.08	3	5	2	0.00	1	10
9-40	9-22	8	300	Truss	1969	52	0.45	3	5	2	0.00	1	10
9-86	9-85	8	100	Truss	1969	52	0.15	3	5	2	0.00	1	10
9-88	9-85	8	125	Truss	1969	52	0.19	3	5	2	0.00	1	10
9-89	9-85	8	100	Truss	1969	52	0.15	3	5	2	0.00	1	10
9-82	9-81	8	150	Truss	1969	52	0.23	3	5	2	0.00	1	10
9-83	9-81	8	100	Truss	1969	52	0.15	3	5	2	0.00	1	10
9-81	9-74	8	200	Truss	1969	52	0.30	3	5	2	0.00	1	10
9-79	9-75	10	275	Truss	1969	52	0.52	3	5	2	0.00	1	10
9-69	9-68	8	50	Truss	1969	52	0.08	3	5	2	0.00	1	10
9-53	9-52	10	92	VC	1969	52	0.17	5	5	0	0.00	1	10
9-87	9-86	8	50	Truss	1969	52	0.08	3	5	2	0.00	1	10
9-90	9-89	8	125	Truss	1969	52	0.19	3	5	2	0.00	1	10
9-67	9-66	8	50	Truss	1969	52	0.08	3	5	2	0.00	1	10
9-73	9-55	8	381	CIPP	2008	13	0.58	2	1	2	1,482.04	2	10
9-71	9-70	8	100	Truss	1969	52	0.15	3	5	2	0.00	1	10

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9-80	9-79	10	100	Truss	1969	52	0.19	3	5	2	0.00	1	10
9-68	9-67	8	100	Truss	1969	52	0.15	3	5	2	0.00	1	10
9-84	9-83	8	50	Truss	1969	52	0.08	3	5	2	0.00	1	10
9-85	9-84	8	75	Truss	1969	52	0.11	3	5	2	0.00	1	10
11-11	11-10	8	400	Truss	1969	52	0.61	3	5	2	0.00	1	10
11-12	11-11	8	375	Truss	1969	52	0.57	3	5	2	0.00	1	10
19-13	19-12	10	237	PVC	2005	16	0.45	0	1	4	639.03	2	10
1-8	1-7	8	230	CIPP	2008	13	0.35	2	1	0	2,785.32	3	9
1-20	1-18	8	352	CIPP	2008	13	0.53	2	1	0	2,812.50	3	9
1-23	1-21	10	291	PVC	2008	13	0.55	0	1	2	3,633.03	3	9
2-28	2-9	8	291	CIPP	2008	13	0.44	2	1	0	2,832.62	3	9
2-29	2-28	8	175	CIPP	2008	13	0.27	2	1	0	2,832.62	3	9
6-78	6-53	8	373	DIP	2008	13	0.57	0	1	2	1,769.44	3	9
12-1	LS 12	8	50	Truss	1975	46	0.08	3	4	2	0.00	1	9
12-6	12-5	8	325	Truss	1975	46	0.49	3	4	2	0.00	1	9
12-7	12-6	8	125	Truss	1975	46	0.19	3	4	2	0.00	1	9
12-13	12-12	8	50	Truss	1975	46	0.08	3	4	2	0.00	1	9
12-16	12-15	8	300	Truss	1975	46	0.45	3	4	2	0.00	1	9
12-19	12-18	8	53	Truss	1975	46	0.08	3	4	2	0.00	1	9
12-21	12-20	8	100	Truss	1975	46	0.15	3	4	2	0.00	1	9
12-25	12-21	8	44	Truss	1975	46	0.07	3	4	2	0.00	1	9
12-28	12-27	8	100	Truss	1975	46	0.15	3	4	2	0.00	1	9
12-31	12-30	8	183	Truss	1975	46	0.28	3	4	2	0.00	1	9

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12-32	12-31	8	205	Truss	1975	46	0.31	3	4	2	0.00	1	9
16-2	16-1	10	198	PVC	1999	22	0.38	0	2	1	2,400.00	3	9
2-25	2-24	8	312	CIPP	2008	13	0.47	2	1	1	1,057.69	2	8
3-2	3-1	8	278	CIPP	2008	13	0.42	2	1	1	534.85	2	8
3-3	3-2	8	339	CIPP	2008	13	0.51	2	1	1	534.85	2	8
6-33	6-28	8	393	CIPP	2008	13	0.60	2	1	1	1,195.65	2	8
7-35	7-14	8	223	CIPP	2008	13	0.34	2	1	1	1,336.03	2	8
8-34	8-33	8	307	CIPP	2008	13	0.47	2	1	1	869.85	2	8
8-44	8-42	8	363	CIPP	2008	13	0.55	2	1	1	363.64	2	8
9-43	9-42	8	316	CIPP	2008	13	0.48	2	1	1	886.90	2	8
9-44	9-43	8	296	CIPP	2008	13	0.45	2	1	1	886.90	2	8
9-74	9-73	8	118	CIPP	2008	13	0.18	2	1	1	1,482.04	2	8
10-33	10-11	8	295	CIPP	2008	13	0.45	2	1	1	212.45	2	8
12-17	12-11	10	295	PVC	1975	46	0.56	0	4	0	89.49	2	8
12-18	12-9	8	234	Truss	1975	46	0.35	3	4	1	0.00	1	8
14-14	14-9	8	401	PVC	1998	23	0.61	0	2	2	398.64	2	8
1-13	1-12	8	200	PVC	1969	52	0.30	0	5	2	0.00	1	7
1-24	1-25	8	200	PVC	1969	52	0.30	0	5	2	0.00	1	7
1-26	1-24	8	225	PVC	1969	52	0.34	0	5	2	0.00	1	7
Stub-out	1-18	8	400	PVC	1969	52	0.61	0	5	2	0.00	1	7
Stub-out	2-33	8	275	PVC	1969	52	0.42	0	5	2	0.00	1	7
3-22	3-21	8	400	PVC	1969	52	0.61	0	5	2	0.00	1	7
3-36	3-35	8	100	PVC	1969	52	0.15	0	5	2	0.00	1	7

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Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Age (Years)	Inch-miles	Material Rating	Service Life Rating	Condition Rating	GPD/In-Mi	Infiltration Rating	Total Ranking
3-35	3-27	8	187	PVC	1969	52	0.28	0	5	2	0.00	1	7
Stub-out	3-27	6	400	PVC	1969	52	0.45	0	5	2	0.00	1	7
4-18	4-17	8	334	PVC	1969	52	0.51	0	5	2	0.00	1	7
5-1	LS 5	8	50	DIP	1969	52	0.08	0	5	2	0.00	1	7
6-7	6-6	8	150	PVC	1969	52	0.23	0	5	2	0.00	1	7
6-8	6-7	8	50	PVC	1969	52	0.08	0	5	2	0.00	1	7
6-9	6-8	8	150	PVC	1969	52	0.23	0	5	2	0.00	1	7
6-18	6-8	8	225	PVC	1969	52	0.34	0	5	2	0.00	1	7
6-19	6-18	8	100	PVC	1969	52	0.15	0	5	2	0.00	1	7
6-58	6-53	8	250	PVC	1969	52	0.38	0	5	2	0.00	1	7
6-39	6-46	8	100	PVC	1969	52	0.15	0	5	2	0.00	1	7
6-88	6-39	8	250	PVC	1969	52	0.38	0	5	2	0.00	1	7
6-91	6-58	8	100	PVC	1969	52	0.15	0	5	2	0.00	1	7
Stub-out	6-87	8	100	PVC	1969	52	0.15	0	5	2	0.00	1	7
8-23	8-1	10	250	PVC	1969	52	0.47	0	5	2	0.00	1	7
8-24	8-23	10	250	PVC	1969	52	0.47	0	5	2	0.00	1	7
8-25	8-24	10	350	PVC	1969	52	0.66	0	5	2	0.00	1	7
8-60	8-59	8	150	PVC	1969	52	0.23	0	5	2	0.00	1	7
8-101	8-60	8	150	PVC	1969	52	0.23	0	5	2	0.00	1	7
8-36	8-35	8	200	PVC	1969	52	0.30	0	5	2	0.00	1	7
Stub-out	Between 8-59 and 8-100	8	200	PVC	1969	52	0.30	0	5	2	0.00	1	7
9-19	9-18	8	300	PVC	1969	52	0.45	0	5	2	0.00	1	7
9-20	9-19	8	200	PVC	1969	52	0.30	0	5	2	0.00	1	7

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Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Age (Years)	Inch-miles	Material Rating	Service Life Rating	Condition Rating	GPD/In-Mi	Infiltration Rating	Total Ranking
9-38	9-36	8	275	PVC	1969	52	0.42	0	5	2	0.00	1	7
9-50	9-2	8	322	CIPP	2008	13	0.49	2	1	4	0.00	1	7
9-39	9-35	8	275	PVC	1969	52	0.42	0	5	2	0.00	1	7
10-24	10-21	8	250	PVC	1969	52	0.38	0	5	2	0.00	1	7
10-26	10-10	6	200	PVC	1969	52	0.23	0	5	2	0.00	1	7
Stub-out	10-24	8	300	PVC	1969	52	0.45	0	5	2	0.00	1	7
11-1	LS 11	8	36	PVC	1969	52	0.05	0	5	2	0.00	1	7
11-7	11-6	8	225	PVC	1969	52	0.34	0	5	2	0.00	1	7
11-8	11-7	8	225	PVC	1969	52	0.34	0	5	2	0.00	1	7
13-1	LS 13	8	18	Truss	1994	27	0.03	3	2	2	0.00	1	7
13-2	13-1	8	328	Truss	1994	27	0.50	3	2	2	0.00	1	7
13-3	13-2	8	189	Truss	1994	27	0.29	3	2	2	0.00	1	7
Stub-out	WW-16	8	2	DIP	1969	52	0.00	0	5	2	0.00	1	7
5-3	5-2	8	7	DIP	1969	52	0.01	0	5	1	0.00	1	6
5-14	5-11	8	244	PVC	2008	13	0.37	0	1	1	7,615.38	3	6
7-18	7-16	8	343	CIPP	2008	13	0.52	2	1	0	962.10	2	6
7-20	7-34	8	194	CIPP	2008	13	0.29	2	1	0	717.39	2	6
8-71	8-39	8	66	CIPP	2008	13	0.10	2	1	0	1,306.93	2	6
9-62	9-46	12	30	PVC	2007	14	0.07	0	1	2	1,123.04	2	6
9-46	9-59	12	281	PVC	2007	14	0.64	0	1	2	1,123.04	2	6
10-19	10-18	8	162	PVC	2008	13	0.25	0	1	1	2,171.05	3	6
12-20	12-19	8	100	PVC	1975	46	0.15	0	4	2	0.00	1	6
14-9	14-1	10	209	PVC	1998	23	0.40	0	2	1	398.64	2	6

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1-1	LS 1	12	64	CIPP	2008	13	0.15	2	1	2	0.00	1	5
1-15	1-1	12	276	CIPP	2008	13	0.63	2	1	2	0.00	1	5
1-16	1-15	12	306	CIPP	2008	13	0.70	2	1	2	0.00	1	5
1-18	1-16	8	450	CIPP	2008	13	0.68	2	1	2	0.00	1	5
1-29	1-28	8	496	CIPP	2008	13	0.75	2	1	2	0.00	1	5
2-9	2-8	8	326	CIPP	2008	13	0.49	2	1	2	0.00	1	5
2-10	2-9	8	165	CIPP	2008	13	0.25	2	1	2	0.00	1	5
2-11	2-10	8	135	CIPP	2008	13	0.20	2	1	2	0.00	1	5
2-12	2-11	8	97	CIPP	2008	13	0.15	2	1	2	0.00	1	5
2-13	2-12	8	183	CIPP	2008	13	0.28	2	1	2	0.00	1	5
2-14	2-13	8	118	CIPP	2008	13	0.18	2	1	2	0.00	1	5
2-22	2-20	8	374	CIPP	2008	13	0.57	2	1	2	0.00	1	5
3-9	3-8	8	194	CIPP	2008	13	0.29	2	1	2	0.00	1	5
3-10	3-9	8	135	CIPP	2008	13	0.20	2	1	2	0.00	1	5
3-16	3-15	8	242	CIPP	2008	13	0.37	2	1	2	0.00	1	5
3-17	3-16	8	238	CIPP	2008	13	0.36	2	1	2	0.00	1	5
3-21	3-11	8	134	CIPP	2008	13	0.20	2	1	2	0.00	1	5
3-37	3-36	8	143	CIPP	2008	13	0.22	2	1	2	0.00	1	5
4-4	4-1	8	147	CIPP	2008	13	0.22	2	1	2	0.00	1	5
6-6	6-76	8	80	CIPP	2008	13	0.12	2	1	2	0.00	1	5
6-13	6-12	8	250	CIPP	2008	13	0.38	2	1	2	0.00	1	5
6-21	6-20	15	115	CIPP	2008	13	0.33	2	1	2	0.00	1	5
6-22	6-21	15	245	CIPP	2008	13	0.70	2	1	2	0.00	1	5

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6-23	6-81	12	320	CIPP	2008	13	0.73	2	1	2	0.00	1	5
6-24	6-23	12	438	CIPP	2008	13	1.00	2	1	2	0.00	1	5
6-25	6-24	12	373	CIPP	2008	13	0.85	2	1	2	0.00	1	5
6-26	6-38	8	19	CIPP	2008	13	0.03	2	1	2	0.00	1	5
6-27	6-26	10	451	CIPP	2008	13	0.85	2	1	2	0.00	1	5
6-28	6-27	10	443	CIPP	2008	13	0.84	2	1	2	0.00	1	5
6-62	6-63	12	492	CIPP	2008	13	1.12	2	1	2	0.00	1	5
6-87	6-13	8	235	CIPP	2008	13	0.36	2	1	2	0.00	1	5
6-85	6-20	15	65	CIPP	2008	13	0.18	2	1	2	0.00	1	5
6-81	6-22	12	138	CIPP	2008	13	0.31	2	1	2	0.00	1	5
6-41	6-26	8	252	CIPP	2008	13	0.38	2	1	2	0.00	1	5
6-42	6-41	8	204	CIPP	2008	13	0.31	2	1	2	0.00	1	5
6-60	6-62	10	453	CIPP	2008	13	0.86	2	1	2	0.00	1	5
6-63	6-72	12	261	CIPP	2008	13	0.59	2	1	2	0.00	1	5
6-86	6-85	8	350	CIPP	2008	13	0.53	2	1	2	0.00	1	5
7-8	7-7	8	340	CIPP	2008	13	0.52	2	1	2	0.00	1	5
7-9	7-8	8	11	CIPP	2008	13	0.02	2	1	2	0.00	1	5
7-15	6-38	8	216	CIPP	2008	13	0.33	2	1	2	0.00	1	5
7-16	7-14	8	452	CIPP	2008	13	0.68	2	1	2	0.00	1	5
7-22	7-21	8	298	CIPP	2008	13	0.45	2	1	2	0.00	1	5
8-3	8-2	8	307	CIPP	2008	13	0.47	2	1	2	0.00	1	5
8-6	8-3	8	289	CIPP	2008	13	0.44	2	1	2	0.00	1	5
8-7	8-6	8	277	CIPP	2008	13	0.42	2	1	2	0.00	1	5

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8-14	8-13	8	153	CIPP	2008	13	0.23	2	1	2	0.00	1	5
8-15	8-14	8	144	CIPP	2008	13	0.22	2	1	2	0.00	1	5
8-16	8-15	8	220	CIPP	2008	13	0.33	2	1	2	0.00	1	5
8-39	8-38	12	171	CIPP	2008	13	0.39	2	1	2	0.00	1	5
8-86	8-85	8	75	PVC	1990	31	0.11	0	3	2	0.00	1	5
8-88	8-85	8	75	PVC	1990	31	0.11	0	3	2	0.00	1	5
8-87	8-86	8	150	PVC	1990	31	0.23	0	3	2	0.00	1	5
8-89	8-88	8	50	PVC	1990	31	0.08	0	3	2	0.00	1	5
8-90	8-89	8	100	PVC	1990	31	0.15	0	3	2	0.00	1	5
8-81	8-80	8	50	PVC	1990	31	0.08	0	3	2	0.00	1	5
8-82	8-81	8	200	PVC	1990	31	0.30	0	3	2	0.00	1	5
8-56	8-50	8	91	CIPP	2008	13	0.14	2	1	2	0.00	1	5
8-41	8-40	12	292	CIPP	2008	13	0.66	2	1	2	0.00	1	5
8-50	8-40	8	467	CIPP	2008	13	0.71	2	1	2	0.00	1	5
8-53	8-52	8	189	CIPP	2008	13	0.29	2	1	2	0.00	1	5
8-40	8-39	12	241	CIPP	2008	13	0.55	2	1	2	0.00	1	5
8-38	8-1	12	237	CIPP	2008	13	0.54	2	1	2	0.00	1	5
8-83	8-82	8	300	PVC	1990	31	0.45	0	3	2	0.00	1	5
8-57	8-56	8	290	CIPP	2008	13	0.44	2	1	2	0.00	1	5
8-85	8-84	8	110	PVC	1990	31	0.17	0	3	2	0.00	1	5
8-84	8-83	8	250	PVC	1990	31	0.38	0	3	2	0.00	1	5
9-3	9-2	8	163	CIPP	2008	13	0.25	2	1	2	0.00	1	5
9-12	9-11	8	331	CIPP	2008	13	0.50	2	1	2	0.00	1	5

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9-13	9-12	8	321	CIPP	2008	13	0.49	2	1	2	0.00	1	5
9-21	9-1	8	197	CIPP	2008	13	0.30	2	1	2	0.00	1	5
9-22	9-21	8	223	CIPP	2008	13	0.34	2	1	2	0.00	1	5
9-27	9-26	8	317	CIPP	2008	13	0.48	2	1	2	0.00	1	5
9-42	9-41	8	97	CIPP	2008	13	0.15	2	1	2	0.00	1	5
9-41	9-40	8	195	CIPP	2008	13	0.30	2	1	2	0.00	1	5
9-51	9-50	8	296	CIPP	2008	13	0.45	2	1	2	0.00	1	5
WW-3	WWTP Outfall	24	2985	DIP	1986	35	13.57	0	3	2	0.00	1	5
6-76	6-5	8	225	CIPP	2008	13	0.34	2	1	1	0.00	1	4
6-72	6-22	12	245	CIPP	2008	13	0.56	2	1	1	0.00	1	4
9-96	9-60	8	183	PVC	2007	14	0.28	0	1	0	10,312.50	4	4
9-57	9-56	8	294	PVC	2007	14	0.45	0	1	0	13,813.95	4	4
9-60	9-59	8	331	PVC	2007	14	0.50	0	1	0	10,312.50	4	4
10-15	10-12	8	264	PVC	2008	13	0.40	0	1	1	750.00	2	4
10-21	10-20	8	11	PVC	2008	13	0.02	0	1	0	13,807.53	4	4
14-2	14-1	10	100	PVC	1998	23	0.19	0	2	2	0.00	1	4
14-11	14-10	10	240	PVC	1998	23	0.45	0	2	2	0.00	1	4
14-12	14-11	10	240	PVC	1998	23	0.45	0	2	2	0.00	1	4
14-13	14-12	10	180	PVC	1998	23	0.34	0	2	2	0.00	1	4
14-15	14-14	8	224	PVC	1998	23	0.34	0	2	2	0.00	1	4
14-16	14-15	8	187	PVC	1998	23	0.28	0	2	2	0.00	1	4
14-18	14-17	8	265	PVC	1998	23	0.40	0	2	2	0.00	1	4
Stub-out	14-18	10	75	PVC	1998	23	0.14	0	2	2	0.00	1	4

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14-3	14-2	10	400	PVC	1998	23	0.76	0	2	2	0.00	1	4
14-17	14-3	8	130	PVC	1998	23	0.20	0	2	2	0.00	1	4
14-1	LS 14	10	50	PVC	1998	23	0.09	0	2	2	0.00	1	4
16-31	16-1	10	150	PVC	1999	22	0.28	0	2	2	0.00	1	4
16-11	16-10	10	324	PVC	1999	22	0.61	0	2	0	170.60	2	4
16-13	16-12	10	300	PVC	1999	22	0.57	0	2	2	0.00	1	4
16-14	16-13	10	275	PVC	1999	22	0.52	0	2	2	0.00	1	4
16-16	16-15	10	300	PVC	1999	22	0.57	0	2	2	0.00	1	4
16-17	16-16	10	50	PVC	1999	22	0.09	0	2	2	0.00	1	4
16-19	16-18	10	400	PVC	1999	22	0.76	0	2	2	0.00	1	4
16-20	16-19	10	100	PVC	1999	22	0.19	0	2	2	0.00	1	4
16-18	16-2	10	125	PVC	1999	22	0.24	0	2	2	0.00	1	4
16-3	16-2	10	264	PVC	1999	22	0.50	0	2	2	0.00	1	4
16-23	16-22	10	350	PVC	1999	22	0.66	0	2	2	0.00	1	4
16-27	16-22	10	300	PVC	1999	22	0.57	0	2	2	0.00	1	4
16-24	16-23	10	325	PVC	1999	22	0.62	0	2	2	0.00	1	4
16-25	16-24	10	200	PVC	1999	22	0.38	0	2	2	0.00	1	4
16-26	16-24	10	250	PVC	1999	22	0.47	0	2	2	0.00	1	4
16-28	16-27	8	375	PVC	1999	22	0.57	0	2	2	0.00	1	4
16-29	16-27	10	396	PVC	1999	22	0.75	0	2	0	66.67	2	4
16-30	16-29	10	300	PVC	1999	22	0.57	0	2	2	0.00	1	4
16-15	16-3	10	100	PVC	1999	22	0.19	0	2	2	0.00	1	4
16-4	16-3	10	338	PVC	1999	22	0.64	0	2	2	0.00	1	4

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16-32	16-31	8	150	PVC	1999	22	0.23	0	2	2	0.00	1	4
16-37	16-31	10	300	PVC	1999	22	0.57	0	2	2	0.00	1	4
16-33	16-32	8	350	PVC	1999	22	0.53	0	2	2	0.00	1	4
16-34	16-33	8	300	PVC	1999	22	0.45	0	2	2	0.00	1	4
16-36	16-33	8	300	PVC	1999	22	0.45	0	2	2	0.00	1	4
16-35	16-34	8	300	PVC	1999	22	0.45	0	2	2	0.00	1	4
16-38	16-37	10	400	PVC	1999	22	0.76	0	2	2	0.00	1	4
16-39	16-38	8	250	PVC	1999	22	0.38	0	2	2	0.00	1	4
16-42	16-38	8	76	PVC	1999	22	0.12	0	2	2	0.00	1	4
Stub-out	16-38	8	175	PVC	1999	22	0.27	0	2	2	0.00	1	4
16-40	16-39	8	100	PVC	1999	22	0.15	0	2	2	0.00	1	4
16-5	16-4	10	312	PVC	1999	22	0.59	0	2	2	0.00	1	4
16-41	16-40	8	350	PVC	1999	22	0.53	0	2	2	0.00	1	4
16-6	16-5	10	234	PVC	1999	22	0.44	0	2	2	0.00	1	4
16-7	16-6	10	299	PVC	1999	22	0.57	0	2	2	0.00	1	4
16-8	16-7	8	425	PVC	1999	22	0.64	0	2	2	0.00	1	4
16-12	16-9	10	250	PVC	1999	22	0.47	0	2	2	0.00	1	4
16-1	LS 16	10	49	PVC	1999	22	0.09	0	2	2	0.00	1	4
19-11	19-1	10	286	PVC	2005	16	0.54	0	1	1	639.03	2	4
19-12	19-11	10	138	PVC	2005	16	0.26	0	1	1	639.03	2	4
1-9	1-8	8	240	DIP	2008	13	0.36	0	1	0	2,785.32	3	3
1-14	1-30	8	180	DIP	2008	13	0.27	0	1	0	2,579.04	3	3
1-14	1-30	8	162	PVC	2008	13	0.25	0	1	0	2,579.04	3	3

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Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Age (Years)	Inch-miles	Material Rating	Service Life Rating	Condition Rating	GPD/In-Mi	Infiltration Rating	Total Ranking
1-25	1-23	10	373	PVC	2008	13	0.71	0	1	2	0.00	1	3
2-31	2-30	8	231	CIPP	2008	13	0.35	2	1	0	0.00	1	3
6-20	6-2	15	32	PVC	2008	13	0.09	0	1	2	0.00	1	3
6-69	6-67	8	393	PVC	2008	13	0.60	0	1	2	0.00	1	3
6-77	6-67	8	30	PVC	2008	13	0.05	0	1	2	0.00	1	3
8-59	6-29	8	220	PVC	2008	13	0.33	0	1	2	0.00	1	3
7-7	7-6	8	334	PVC	2008	13	0.51	0	1	2	0.00	1	3
8-2	8-1	12	60	PVC	2008	13	0.14	0	1	2	0.00	1	3
8-52	8-50	8	55	PVC	2008	13	0.08	0	1	2	0.00	1	3
9-62	9-46	12	20	DIP	2007	14	0.05	0	1	2	0.00	1	3
9-59	9-57	8	179	PVC	2007	14	0.27	0	1	2	0.00	1	3
10-8	10-7	8	36	PVC	2008	13	0.05	0	1	2	0.00	1	3
10-9	10-8	8	262	PVC	2008	13	0.40	0	1	2	0.00	1	3
10-10	10-9	8	277	PVC	2008	13	0.42	0	1	2	0.00	1	3
15-2	15-1	8	100	PVC	2001	20	0.15	0	1	2	0.00	1	3
15-5	15-1	8	350	PVC	2001	20	0.53	0	1	2	0.00	1	3
15-11	15-10	8	200	PVC	2001	20	0.30	0	1	2	0.00	1	3
15-3	15-2	8	250	PVC	2001	20	0.38	0	1	2	0.00	1	3
15-4	15-3	8	200	PVC	2001	20	0.30	0	1	2	0.00	1	3
15-6	15-5	8	250	PVC	2001	20	0.38	0	1	2	0.00	1	3
15-8	15-5	8	250	PVC	2001	20	0.38	0	1	2	0.00	1	3
15-7	15-6	8	250	PVC	2001	20	0.38	0	1	2	0.00	1	3
15-10	15-8	8	250	PVC	2001	20	0.38	0	1	2	0.00	1	3

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15-9	15-8	8	100	PVC	2001	20	0.15	0	1	2	0.00	1	3
15-1	LS 15	8	50	PVC	2001	20	0.08	0	1	2	0.00	1	3
16-43	16-42	8	126	PVC	2007	14	0.19	0	1	2	0.00	1	3
16-44	16-43	8	55	PVC	2007	14	0.08	0	1	2	0.00	1	3
16-48	16-43	8	110	PVC	2007	14	0.17	0	1	2	0.00	1	3
16-45	16-44	8	99	PVC	2007	14	0.15	0	1	2	0.00	1	3
16-46	16-45	8	215	PVC	2007	14	0.33	0	1	2	0.00	1	3
16-47	16-46	8	116	PVC	2007	14	0.18	0	1	2	0.00	1	3
16-50	16-49	8	203	PVC	2007	14	0.31	0	1	2	0.00	1	3
16-51	16-50	8	23	PVC	2007	14	0.03	0	1	2	0.00	1	3
16-52	16-50	8	180	PVC	2007	14	0.27	0	1	2	0.00	1	3
Stub-out	16-51	8	2	PVC	2007	14	0.00	0	1	2	0.00	1	3
18-1	LS 18	10	50	PVC	2003	18	0.09	0	1	2	0.00	1	3
18-10	18-8	8	350	PVC	2003	18	0.53	0	1	2	0.00	1	3
18-11	18-10	8	200	PVC	2003	18	0.30	0	1	2	0.00	1	3
18-12	18-10	8	250	PVC	2003	18	0.38	0	1	2	0.00	1	3
18-13	18-12	8	350	PVC	2003	18	0.53	0	1	2	0.00	1	3
18-14	18-12	8	275	PVC	2003	18	0.42	0	1	2	0.00	1	3
18-15	18-14	8	250	PVC	2003	18	0.38	0	1	2	0.00	1	3
18-16	18-15	8	125	PVC	2003	18	0.19	0	1	2	0.00	1	3
18-3	18-2	10	375	PVC	2003	18	0.71	0	1	2	0.00	1	3
18-4	18-3	8	150	PVC	2003	18	0.23	0	1	2	0.00	1	3
18-5	18-4	8	75	PVC	2003	18	0.11	0	1	2	0.00	1	3

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18-6	18-3	8	250	PVC	2003	18	0.38	0	1	2	0.00	1	3
18-7	18-6	8	125	PVC	2003	18	0.19	0	1	2	0.00	1	3
18-8	18-1	10	200	PVC	2003	18	0.38	0	1	2	0.00	1	3
18-9	18-8	8	175	PVC	2003	18	0.27	0	1	2	0.00	1	3
19-10	19-18	8	258	PVC	2005	16	0.39	0	1	2	0.00	1	3
19-14	19-13	8	114	PVC	2005	16	0.17	0	1	2	0.00	1	3
19-15	19-13	8	211	PVC	2005	16	0.32	0	1	2	0.00	1	3
19-16	19-15	8	89	PVC	2005	16	0.13	0	1	2	0.00	1	3
19-17	19-16	8	181	PVC	2005	16	0.27	0	1	2	0.00	1	3
19-18	19-2	8	216	PVC	2005	16	0.33	0	1	2	0.00	1	3
19-4	19-3	10	264	PVC	2005	16	0.50	0	1	2	0.00	1	3
19-5	19-4	10	58	PVC	2005	16	0.11	0	1	2	0.00	1	3
19-6	19-4	8	411	PVC	2005	16	0.62	0	1	2	0.00	1	3
19-7	19-6	8	158	PVC	2005	16	0.24	0	1	2	0.00	1	3
19-8	19-3	8	250	PVC	2005	16	0.38	0	1	2	0.00	1	3
19-9	19-8	8	241	PVC	2005	16	0.37	0	1	2	0.00	1	3
19-1	LS 19	10	46	PVC	2005	16	0.09	0	1	2	0.00	1	3
WW-10	WW-11	10	273	DIP	2007	14	0.52	0	1	2	0.00	1	3
WW-11	WW-12	10	230	DIP	2007	14	0.44	0	1	2	0.00	1	3
WW-12	Influent PS	10	14	DIP	2007	14	0.03	0	1	2	0.00	1	3
WW-13	WW-11	10	62	DIP	2007	14	0.12	0	1	2	0.00	1	3
WW-14	WW-15	8	101	DIP	2007	14	0.15	0	1	2	0.00	1	3
WW-15	WW-10	8	42	DIP	2007	14	0.06	0	1	2	0.00	1	3

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WW-16	WW-17	8	91	DIP	2007	14	0.14	0	1	2	0.00	1	3
WW-17	WW-12	8	100	DIP	2007	14	0.15	0	1	2	0.00	1	3
WW-8	WW-9	8	101	DIP	2007	14	0.15	0	1	2	0.00	1	3
WW-9	WW-10	8	55	DIP	2007	14	0.08	0	1	2	0.00	1	3
4-23	4-18	8	184	DIP	2017	4	0.28	0	0	2	0.00	1	2
4-23	4-24	8	128	DIP	2017	4	0.19	0	0	2	0.00	1	2
4-24	4-23	8	225	DIP	2017	4	0.34	0	0	2	0.00	1	2
4-24	4-25	8	59	DIP	2017	4	0.09	0	0	2	0.00	1	2
4-25	4-24	8	234	DIP	2017	4	0.35	0	0	2	0.00	1	2
4-26	4-25	8	204	DIP	2017	4	0.31	0	0	2	0.00	1	2
4-27	4-26	8	88	DIP	2017	4	0.13	0	0	2	0.00	1	2
4-28	4-27	8	114	DIP	2017	4	0.17	0	0	2	0.00	1	2
4-29	4-26	8	147	DIP	2017	4	0.22	0	0	2	0.00	1	2
4-30	4-29	8	67	DIP	2017	4	0.10	0	0	2	0.00	1	2
6-29	6-32	8	168	PVC	2008	13	0.25	0	1	0	904.11	2	2
6-67	6-63	8	455	PVC	2008	13	0.69	0	1	0	145.05	2	2
6-93	6-92	8	18	DIP	2013	8	0.03	0	0	2	0.00	1	2
6-94	6-93	8	154	DIP	2013	8	0.23	0	0	2	0.00	1	2
6-92	6-23	8	246	DIP	2013	8	0.37	0	0	2	0.00	1	2
6-32	6-28	8	51	PVC	2008	13	0.08	0	1	0	904.11	2	2
7-12	6-92	8	248	DIP	2013	8	0.38	0	0	2	0.00	1	2
7-31	7-28	8	92	DIP	2013	8	0.14	0	0	2	0.00	1	2
7-32	7-31	8	110	DIP	2013	8	0.17	0	0	2	0.00	1	2

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9-55	9-54	8	98	PVC	2008	13	0.15	0	1	1	0.00	1	2
10-1	LS 10	8	33	PVC	2013	8	0.05	0	0	2	0.00	1	2
10-3	10-2	8	145	PVC	2013	8	0.22	0	0	2	0.00	1	2
10-4	10-3	8	319	PVC	2013	8	0.48	0	0	2	0.00	1	2
10-5	10-4	8	104	PVC	2013	8	0.16	0	0	2	0.00	1	2
10-6	10-37	8	28	PVC	2013	8	0.04	0	0	2	0.00	1	2
10-37	10-2	8	140	DIP	2013	8	0.21	0	0	2	0.00	1	2
10-34	10-5	8	91	PVC	2013	8	0.14	0	0	2	0.00	1	2
10-36	10-5	8	278	PVC	2013	8	0.42	0	0	2	0.00	1	2
10-35	10-34	8	119	DIP	2013	8	0.18	0	0	2	0.00	1	2
11-9	11-21	8	18	DIP	2013	8	0.03	0	0	2	0.00	1	2
11-13	11-20	8	138	PVC	2013	8	0.21	0	0	2	0.00	1	2
11-14	11-13	8	208	PVC	2013	8	0.32	0	0	2	0.00	1	2
11-17	11-16	8	92	DIP	2013	8	0.14	0	0	2	0.00	1	2
11-18	11-13	8	116	DIP	2013	8	0.18	0	0	2	0.00	1	2
11-19	11-18	8	213	PVC	2013	8	0.32	0	0	2	0.00	1	2
11-21	11-20	8	47	DIP	2013	8	0.07	0	0	2	0.00	1	2
11-22	11-21	8	56	DIP	2013	8	0.08	0	0	2	0.00	1	2
14-10	14-9	10	210	PVC	1998	23	0.40	0	2	0	0.00	1	2
16-53	16-52	8	180	PVC	2011	10	0.27	0	0	2	0.00	1	2
16-54	16-53	8	184	PVC	2011	10	0.28	0	0	2	0.00	1	2
18-2	18-1	10	387	PVC	2003	18	0.73	0	1	0	682.17	2	2
19-3	19-2	10	295	PVC	2005	16	0.56	0	1	0	89.49	2	2

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22-1	22-10	8	26	DIP	2019	2	0.04	0	0	2	0.00	1	2
22-1	LS 22	10	26	PVC	2019	2	0.05	0	0	2	0.00	1	2
22-10	LS 22	8	8	DIP	2019	2	0.01	0	0	2	0.00	1	2
22-11	22-1	8	180	DIP	2019	2	0.27	0	0	2	0.00	1	2
22-12	22-11	8	289	PVC	2019	2	0.44	0	0	2	0.00	1	2
22-13	22-12	8	412	PVC	2019	2	0.62	0	0	2	0.00	1	2
22-14	22-13	8	88	PVC	2019	2	0.13	0	0	2	0.00	1	2
22-15	22-14	8	60	DIP	2019	2	0.09	0	0	2	0.00	1	2
22-16	22-15	8	132	DIP	2019	2	0.20	0	0	2	0.00	1	2
22-2	22-1	8	45	PVC	2019	2	0.07	0	0	2	0.00	1	2
22-20	22-11	8	305	PVC	2019	2	0.46	0	0	2	0.00	1	2
22-21	22-20	8	74	PVC	2019	2	0.11	0	0	2	0.00	1	2
22-22	22-21	8	153	PVC	2019	2	0.23	0	0	2	0.00	1	2
22-23	22-22	8	155	PVC	2019	2	0.23	0	0	2	0.00	1	2
22-3	22-2	8	63	PVC	2019	2	0.10	0	0	2	0.00	1	2
22-30	22-20	8	77	PVC	2019	2	0.12	0	0	2	0.00	1	2
22-31	22-30	8	225	PVC	2019	2	0.34	0	0	2	0.00	1	2
22-32	22-31	8	300	PVC	2019	2	0.45	0	0	2	0.00	1	2
22-33	22-32	8	289	PVC	2019	2	0.44	0	0	2	0.00	1	2
22-34	22-12	8	147	PVC	2019	2	0.22	0	0	2	0.00	1	2
22-4	22-3	8	399	PVC	2019	2	0.60	0	0	2	0.00	1	2
22-40	22-31	8	253	PVC	2019	2	0.38	0	0	2	0.00	1	2
22-41	22-40	8	81	PVC	2019	2	0.12	0	0	2	0.00	1	2

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22-42	22-41	8	76	PVC	2019	2	0.12	0	0	2	0.00	1	2
22-5	22-4	8	37	PVC	2019	2	0.06	0	0	2	0.00	1	2
22-5	22-4	8	20	DIP	2019	2	0.03	0	0	2	0.00	1	2
22-6	22-5	8	162	PVC	2019	2	0.25	0	0	2	0.00	1	2
22-7	22-6	8	116	PVC	2019	2	0.18	0	0	2	0.00	1	2
24-2	24-1	10	219	PVC	2014	7	0.41	0	0	2	0.00	1	2
24-3	24-2	10	218	PVC	2014	7	0.41	0	0	2	0.00	1	2
24-4	24-3	10	23	PVC	2014	7	0.04	0	0	2	0.00	1	2
24-5	24-4	10	291	PVC	2014	7	0.55	0	0	2	0.00	1	2
24-6	24-5	10	89	DIP	2019	2	0.17	0	0	2	0.00	1	2
24-7	24-6	10	116	PVC	2019	2	0.22	0	0	2	0.00	1	2
24-8	24-7	10	241	PVC	2019	2	0.46	0	0	2	0.00	1	2
24-9	24-7	10	59	PVC	2019	2	0.11	0	0	2	0.00	1	2
26-2	26-1	8	99	PVC	2019	2	0.15	0	0	2	0.00	1	2
26-3	26-2	8	61	PVC	2019	2	0.09	0	0	2	0.00	1	2
26-1	LS 26	8	31	PVC	2019	2	0.05	0	0	2	0.00	1	2
8-104	8-27	8	368	PVC	2011	10	0.56	0	0	2	0.00	1	2
8-27	8-24	8	118	PVC	2011	10	0.18	0	0	2	0.00	1	2
6-68	6-77	8	306	PVC	2008	13	0.46	0	1	0	0.00	1	1
10-20	10-19	8	143	PVC	2008	13	0.22	0	1	0	0.00	1	1
10-27	10-7	8	20	PVC	2008	13	0.03	0	1	0	0.00	1	1
10-28	10-27	8	140	PVC	2008	13	0.21	0	1	0	0.00	1	1
10-29	10-28	8	142	PVC	2008	13	0.22	0	1	0	0.00	1	1

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10-30	10-29	8	125	PVC	2008	13	0.19	0	1	0	0.00	1	1
10-31	10-29	8	290	PVC	2008	13	0.44	0	1	0	0.00	1	1
10-32	10-31	8	298	PVC	2008	13	0.45	0	1	0	0.00	1	1
19-2	19-1	10	44	PVC	2005	16	0.08	0	1	0	0.00	1	1
5-17	5-15	8	219	PVC	2021	0	0.33	0	0	0	0.00	0	0
5-17	5-15	8	40	DIP	2021	0	0.06	0	0	0	0.00	0	0
5-18	5-17	8	258	PVC	2021	0	0.39	0	0	0	0.00	0	0
6-82	6-38	8	150	PVC	2021	0	0.23	0	0	0	0.00	0	0
6-83	6-38	8	36	PVC	2021	0	0.05	0	0	0	0.00	0	0
6-80	6-1	8	175	CIPP	2021	0	0.27	2	0	0	0.00	0	0
6-48	6-25	8	164	PVC	2021	0	0.25	0	0	0	0.00	0	0
6-49	6-25	10	49	CIPP	2021	0	0.09	2	0	0	0.00	0	0
6-35	6-27	8	58	PVC	2021	0	0.09	0	0	0	0.00	0	0
6-84	6-83	8	332	PVC	2021	0	0.50	0	0	0	0.00	0	0
6-74	6-73	8	202	CIPP	2021	0	0.31	2	0	0	0.00	0	0
7-33	7-32	8	200	DIP	2013	8	0.30	0	0	0	0.00	1	0
8-103	8-102	8	170	PVC	2020	1	0.26	0	0	0	0.00	1	0
10-2	10-1	8	38	PVC	2013	8	0.06	0	0	0	0.00	1	0
10-7	10-38	8	252	PVC	2013	8	0.38	0	0	0	0.00	1	0
10-38	10-6	8	99	PVC	2013	8	0.15	0	0	0	0.00	1	0
11-15	11-14	8	295	DIP	2013	8	0.45	0	0	0	0.00	1	0
11-16	11-15	8	356	DIP	2013	8	0.54	0	0	0	0.00	1	0
23-1	LS 23	8	8	PVC	2021	0	0.01	0	0	2	0.00	0	0

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23-10	23-9	8	134	PVC	2021	0	0.20	0	0	2	0.00	0	0
23-11	23-10	8	283	PVC	2021	0	0.43	0	0	2	0.00	0	0
23-12	23-11	8	265	PVC	2021	0	0.40	0	0	2	0.00	0	0
23-13	23-2	8	45	PVC	2021	0	0.07	0	0	2	0.00	0	0
23-14	23-13	8	339	PVC	2021	0	0.51	0	0	2	0.00	0	0
23-15	23-14	8	121	PVC	2021	0	0.18	0	0	2	0.00	0	0
23-16	23-15	8	182	PVC	2021	0	0.28	0	0	2	0.00	0	0
23-17	23-16	8	331	PVC	2021	0	0.50	0	0	2	0.00	0	0
23-18	23-17	8	243	PVC	2021	0	0.37	0	0	2	0.00	0	0
23-19	23-23	8	204	PVC	2021	0	0.31	0	0	2	0.00	0	0
23-2	23-1	8	28	PVC	2021	0	0.04	0	0	2	0.00	0	0
23-20	23-19	8	100	PVC	2021	0	0.15	0	0	2	0.00	0	0
23-21	23-20	8	110	PVC	2021	0	0.17	0	0	2	0.00	0	0
23-22	23-20	8	275	PVC	2021	0	0.42	0	0	2	0.00	0	0
23-23	23-7	8	252	PVC	2021	0	0.38	0	0	2	0.00	0	0
23-24	23-14	8	75	PVC	2021	0	0.11	0	0	2	0.00	0	0
23-25	23-24	8	237	PVC	2021	0	0.36	0	0	2	0.00	0	0
23-26	23-25	8	118	PVC	2021	0	0.18	0	0	2	0.00	0	0
23-27	23-26	8	133	PVC	2021	0	0.20	0	0	2	0.00	0	0
23-28	23-27	8	81	PVC	2021	0	0.12	0	0	2	0.00	0	0
23-29	23-28	8	28	PVC	2021	0	0.04	0	0	2	0.00	0	0
23-3	23-1	8	225	PVC	2021	0	0.34	0	0	2	0.00	0	0
23-30	23-29	8	31	PVC	2021	0	0.05	0	0	2	0.00	0	0

Town of Beaufort
Gravity Sewer Lines Ranked by Criticality
Wastewater Asset Management Plan

								Risk Assessment			Consequence Assessment		
Upstream Manhole	Downstream Manhole	Diameter (in)	Length (ft)	Material	Installation Date	Age (Years)	Inch-miles	Material Rating	Service Life Rating	Condition Rating	GPD/In-Mi	Infiltration Rating	Total Ranking
23-31	23-30	8	35	PVC	2021	0	0.05	0	0	2	0.00	0	0
23-32	23-24	8	269	PVC	2021	0	0.41	0	0	2	0.00	0	0
23-33	23-32	8	68	PVC	2021	0	0.10	0	0	2	0.00	0	0
23-34	23-32	8	67	PVC	2021	0	0.10	0	0	2	0.00	0	0
23-35	23-34	8	170	PVC	2021	0	0.26	0	0	2	0.00	0	0
23-36	23-34	8	108	PVC	2021	0	0.16	0	0	2	0.00	0	0
23-37	23-17	8	171	PVC	2021	0	0.26	0	0	2	0.00	0	0
23-38	23-4	8	158	PVC	2021	0	0.24	0	0	2	0.00	0	0
23-4	23-3	8	260	PVC	2021	0	0.39	0	0	2	0.00	0	0
23-5	23-4	8	153	PVC	2021	0	0.23	0	0	2	0.00	0	0
23-6	23-5	8	246	PVC	2021	0	0.37	0	0	2	0.00	0	0
23-7	23-6	8	48	PVC	2021	0	0.07	0	0	2	0.00	0	0
23-8	23-6	8	203	PVC	2021	0	0.31	0	0	2	0.00	0	0
23-9	23-4	8	216	PVC	2021	0	0.33	0	0	2	0.00	0	0

APPENDIX

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Force Main Inventory & Assessment

Town of Beaufort
Force Main Inventory
Wastewater Asset Management Plan

Force Main Location	Diameter (in)	Approximate Length (ft)	Material	Approximate Date	Approximate Age	Service Life Rating [Risk]	Capacity Rating [Consequence]	Total Rating
LS 1	6	2779	DIP	1969	52	5	2	10
LS 2	6	2114	DIP	1969	52	5	2	10
LS 3	6	2425	DIP	1969	52	5	3	15
LS 4	4	782	DIP	1969	52	5	2	10
LS 5	4	329	DIP	1969	52	5	2	10
LS 6	10	3561	DIP	1969	52	5	3	15
LS 7	6	952	DIP	1969	52	5	3	15
LS 8	8	966	DIP	1969	52	5	3	15
LS 9	6	1437	DIP	1969	52	5	3	15
LS 10	6	1248	DIP/HDPE	2013	8	1	2	2
LS 11	4	480	DIP	1969	52	5	2	10
LS 12	4	899	DIP	1975	46	5	2	10
LS 13	6	10	DIP	1975	46	5	2	10
LS 14	8	35451	DIP/PVC	1969	52	5	5	25
LS 15	4	980	DIP	2001	20	2	2	4
LS 16	6	950	PVC	1999	22	3	2	6
LS 17	2	535	DIP	1999	22	3	2	6
LS 18	4	2000	PVC	2003	18	2	3	6
LS 19	4	1180	PVC	2005	16	2	2	4
LS 20 (Vacuum Station)	8	3715	PVC	2007	14	2	3	6
LS 21	2	1900	PVC	2017	4	1	2	2
LS 22	6	1946	PVC	2016	5	1	3	3
LS 23	6	2100	PVC	2018	3	1	2	2
LS 24	4	1390	PVC	2018	3	1	3	3
LS 25	4	1660	PVC	2020	1	1	2	2
LS 26	2.5	165	PVC	2019	2	1	2	2
WWTP	12	6179	DIP	1969	52	5	4	20
WWTP	16	3047	DIP	2005	16	2	4	8
WWTP	18	6145	DIP	2010	11	2	4	8
East Carteret HS	8	13200	PVC	1992	29	3	4	12
US Highway 70	12	4500	PVC	2010	11	2	4	8
US Highway 70 Utility Relocation	14	2250	DIP	2013	8	1	5	5
Live Oak St	8	6520	PVC	1992	29	3	4	12
Live Oak St	12	6350	PVC	2010	11	2	4	8
Live Oak 12" to WWTP 18" Connector	16	3480	DIP	2010	11	2	5	10
Vacuum Station to 12" Tie-In	8	23	PVC	2010	11	2	4	8
East Carteret HS to 12" Tie-In	8	3	PVC	2010	11	2	4	8
8" to 12" Tie-In Live Oak St @ LS 13	8	17	PVC	2010	11	2	4	8
8" to 16" Tie-In Live Oak St	8	27	PVC	2010	11	2	4	8
LS 12 to 16" WWTP Tie-In	6	27	PVC	2010	11	2	2	4

Town of Beaufort
Force Main Inventory
Wastewater Asset Management Plan

Force Main Location	Diameter (in)	Approximate Length (ft)	Material	Approximate Date	Approximate Age	Service Life Rating [Risk]	Capacity Rating [Consequence]	Total Rating
LS 15 to 16" WWTP Tie-In	6	25	PVC	2010	11	2	2	4
Lennoxville Rd 12" to 16" WWTP	12	1650	DIP	2005	16	2	4	8
Lennoxville Rd 12" to 18" WWTP Tie-In	12	25	PVC	2010	11	2	4	8
Lennoxville Rd 12" to 12" WWTP Tie-In	12	15	DIP	2005	16	2	4	8
LS 9 to 12" WWTP	12	2405	DIP	2002	19	2	4	8
LS 9 to 12" WWTP Tie-In	8	250	DIP	2002	19	2	4	8
Russells Creek	2	4435	PVC	2020	1	1	2	2
Dancer Ct. (Deerfield Shores)	1.5	650	PVC	1992	29	3	1	3
Rudolph Dr. (Deerfield Shores)	1.5	510	PVC	1992	29	3	1	3
Front St Village LS	2	515	PVC	2019	2	1	2	2
Marina Pumpout	2	300	PVC	2019	2	1	1	1
Piver's Island	6	1000	HDPE	1996	25	3	2	6
Aqua 10	2	2604	PVC	2017	4	1	1	1
Aqua 10	4	20	PVC	2017	4	1	1	1
Grinder Pump (7-22)	2	200	PVC	1969	52	5	1	5
Grinder Pump (4-23)	2	150	PVC	1969	52	5	1	5
Sump Pump (5-25)	4	165	DIP	1969	52	5	1	5
Sump Pump (6-12)	2	270	PVC	1969	52	5	1	5

RISK ASSESSMENT

Description: Assess a rating which is proportional to the likelihood that the force main experiences failure.

Service Life Rating

Description: The age of the force main is assumed to be approximately proportional to the condition. Infrastructure that is older is assumed to be in worse condition and therefore assumed to be more likely to fail.

Age	Rating
0-10	1
11-20	2
21-30	3
31-40	4
40+	5

CONSEQUENCE ASSESSMENT

Description: Assess a rating which is proportional to the severity of consequences if the force main experiences failure.

Capacity Rating

Description: Based on the number of pump stations dependent on the force main to continue to be operational. Common force mains that receive flow from multiple pump stations are considered more consequential than force

Type of Force Main	Rating
Individual Residence	1
Single pump station	2
Multiple pump stations	3
Common force main with backup	4
Common force main; no backup	5

Town of Beaufort

Force Main Inventory Sorted By Total Rating

Wastewater Asset Management Plan

Force Main Location	Diameter (in)	Approximate Length (ft)	Material	Approximate Date	Approximate Age	Service Life Rating [Risk]	Capacity Rating [Consequence]	Total Rating
LS 14	8	35451	DIP/PVC	1969	52	5	5	25
WWTP	12	6179	DIP	1969	52	5	4	20
LS 3	6	2425	DIP	1969	52	5	3	15
LS 6	10	3561	DIP	1969	52	5	3	15
LS 7	6	952	DIP	1969	52	5	3	15
LS 8	8	966	DIP	1969	52	5	3	15
LS 9	6	1437	DIP	1969	52	5	3	15
East Carteret HS	8	13200	PVC	1992	29	3	4	12
Live Oak St	8	6520	PVC	1992	29	3	4	12
LS 1	6	2779	DIP	1969	52	5	2	10
LS 2	6	2114	DIP	1969	52	5	2	10
LS 4	4	782	DIP	1969	52	5	2	10
LS 5	4	329	DIP	1969	52	5	2	10
LS 11	4	480	DIP	1969	52	5	2	10
LS 12	4	899	DIP	1975	46	5	2	10
LS 13	6	10	DIP	1975	46	5	2	10
Live Oak 12" to WWTP 18" Connector	16	3480	DIP	2010	11	2	5	10
WWTP	16	3047	DIP	2005	16	2	4	8
WWTP	18	6145	DIP	2010	11	2	4	8
US Highway 70	12	4500	PVC	2010	11	2	4	8
Live Oak St	12	6350	PVC	2010	11	2	4	8
Vacuum Station to 12" Tie-In	8	23	PVC	2010	11	2	4	8
East Carteret HS to 12" Tie-In	8	3	PVC	2010	11	2	4	8
8" to 12" Tie-In Live Oak St @ LS 13	8	17	PVC	2010	11	2	4	8
8" to 16" Tie-In Live Oak St	8	27	PVC	2010	11	2	4	8
Lennoxville Rd 12" to 16" WWTP	12	1650	DIP	2005	16	2	4	8
Lennoxville Rd 12" to 18" WWTP Tie-In	12	25	PVC	2010	11	2	4	8
Lennoxville Rd 12" to 12" WWTP Tie-In	12	15	DIP	2005	16	2	4	8
LS 9 to 12" WWTP	12	2405	DIP	2002	19	2	4	8
LS 9 to 12" WWTP Tie-In	8	250	DIP	2002	19	2	4	8
LS 16	6	950	PVC	1999	22	3	2	6
LS 17	2	535	DIP	1999	22	3	2	6
LS 18	4	2000	PVC	2003	18	2	3	6
LS 20 (Vacuum Station)	8	3715	PVC	2007	14	2	3	6
Piver's Island	6	1000	HDPE	1996	25	3	2	6
US Highway 70 Utility Relocation	14	2250	DIP	2013	8	1	5	5
Grinder Pump (7-22)	2	200	PVC	1969	52	5	1	5
Grinder Pump (4-23)	2	150	PVC	1969	52	5	1	5
Sump Pump (5-25)	4	165	DIP	1969	52	5	1	5
Sump Pump (6-12)	2	270	PVC	1969	52	5	1	5

Town of Beaufort

Force Main Inventory Sorted By Total Rating

Wastewater Asset Management Plan

Force Main Location	Diameter (in)	Approximate Length (ft)	Material	Approximate Date	Approximate Age	Service Life Rating [Risk]	Capacity Rating [Consequence]	Total Rating
LS 15	4	980	DIP	2001	20	2	2	4
LS 19	4	1180	PVC	2005	16	2	2	4
LS 12 to 16" WWTP Tie-In	6	27	PVC	2010	11	2	2	4
LS 15 to 16" WWTP Tie-In	6	25	PVC	2010	11	2	2	4
LS 22	6	1946	PVC	2016	5	1	3	3
LS 24	4	1390	PVC	2018	3	1	3	3
Dancer Ct. (Deerfield Shores)	1.5	650	PVC	1992	29	3	1	3
Rudolph Dr. (Deerfield Shores)	1.5	510	PVC	1992	29	3	1	3
LS 10	6	1248	DIP/HDPE	2013	8	1	2	2
LS 21	2	1900	PVC	2017	4	1	2	2
LS 23	6	2100	PVC	2018	3	1	2	2
LS 25	4	1660	PVC	2020	1	1	2	2
LS 26	2.5	165	PVC	2019	2	1	2	2
Russells Creek	2	4435	PVC	2020	1	1	2	2
Front St Village LS	2	515	PVC	2019	2	1	2	2
Marina Pumpout	2	300	PVC	2019	2	1	1	1
Aqua 10	2	2604	PVC	2017	4	1	1	1
Aqua 10	4	20	PVC	2017	4	1	1	1

APPENDIX

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Manhole Assessment

RISK ASSESSMENT

Description: Assess a rating which is proportional to the likelihood that the pipe segment experiences failure.

Material Rating

Description: Based on type of material of the manhole.

Condition/Description	Rating
Precast	0
Lined	1
Unknown	2
Other	3
Brick	5

Service Life Rating

Description: The age of the manhole based on when it was originally built is a good indicator of the condition of the

Age	Rating
< 10 Years	0
10 - 20 Years	1
20 - 30 Years	2
30 - 40 Years	3
40 - 50 Years	4
50+ Years	5

CONSEQUENCE ASSESSMENT

Description: Evaluates the condition of the asset based on visual inspections

Condition Rating

Description: Based on general observations of the condition of the manhole. Manholes in poor condition have a greater consequence of failure.

Condition/Description	Rating
New/Excellent Condition	1
Good	2
Fair	3
Poor	4
Bad	5

Town of Beaufort
Manholes Ranked by Criticality
Wastewater Asset Management Plan

Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
6-44	Brick	2.71	4	1969	52	5	5	5	50
6-34	Brick	3.20	4	1969	52	5	5	5	50
8-20	Brick	3.65	4	1969	52	5	5	5	50
8-18	Brick	4.19	4	1969	52	5	5	5	50
9-32	Brick	3.00	4	1969	52	5	5	5	50
9-6	Brick	7.30	4	1969	52	5	5	5	50
9-36	Brick	6.25	4	1969	52	5	5	5	50
1-12	Brick	2.40	4	1969	52	5	5	4	40
6-45	Brick	3.73	4	1969	52	5	5	4	40
6-46	Brick	3.45	4	1969	52	5	5	4	40
2-15	Brick	5.80	4	1969	52	5	5	4	40
4-12	Brick	6.70	4	1969	52	5	5	4	40
6-55	Brick	3.40	4	1969	52	5	5	4	40
6-56	Brick	6.20	4	1969	52	5	5	4	40
6-66	Brick	3.60	4	1969	52	5	5	4	40
7-22	Brick	4.00	4	1969	52	5	5	4	40
8-26	Brick	5.00	4	1969	52	5	5	4	40
9-49	Brick	4.40	4	1969	52	5	5	4	40
10-17	Brick	3.76	4	1969	52	5	5	4	40
6-54	Brick	3.67	4	1969	52	5	5	4	40

Town of Beaufort
Manholes Ranked by Criticality
Wastewater Asset Management Plan

Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
2-35	Brick	2.80	4	1969	52	5	5	4	40
6-36	Concrete Block	3.12	4	1969	52	3	5	4	32
8-78	Brick	6.00	4	1969	52	5	5	3	30
9-8	Lined	5.50	4	1969	52	1	5	5	30
8-4	Precast	4.70	4	1969	52	0	5	5	25
8-5	Precast	5.20	4	1969	52	0	5	5	25
8-31	Precast	5.20	4	1969	52	0	5	5	25
9-92	Precast	8.37	4	1969	52	0	5	5	25
9-91	Precast	5.97	4	1969	52	0	5	5	25
9-56	Precast	6.50	4	1969	52	0	5	5	25
11-2	Precast	6.10	4	1969	52	0	5	5	25
8-17	Precast	4.42	4	1969	52	0	5	5	25
6-47	Precast	3.34	4	1969	52	0	5	5	25
6-31	Brick	1.09	6	1969	52	5	5	2	20
2-6	Brick	3.56	4	1969	52	5	5	2	20
12-25	Precast	3.80	4	1975	46	0	4	5	20
2-19	Precast	3.57	4	1969	52	0	5	4	20
9-43	Precast	6.00	4	1969	52	0	5	4	20
9-48	Precast	5.90	4	1969	52	0	5	4	20
9-63	Precast	5.10	4	1969	52	0	5	4	20

Town of Beaufort
Manholes Ranked by Criticality
Wastewater Asset Management Plan

Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
9-11	Precast	10.05	4	1969	52	0	5	4	20
9-18	Precast	3.30	4	1969	52	0	5	4	20
10-1	Precast	16.10	4	1969	52	0	5	4	20
8-46	Precast	5.25	4	1969	52	0	5	4	20
12-2	Precast	8.00	4	1975	46	0	4	4	16
12-21	Precast	4.60	4	1975	46	0	4	4	16
12-19	Precast	6.33	4	1975	46	0	4	4	16
12-24	Precast	4.30	4	1975	46	0	4	4	16
12-4	Precast	7.90	4	1975	46	0	4	4	16
2-21	Precast	4.20	4	1969	52	0	5	3	15
8-65	Precast	6.50	4	1969	52	0	5	3	15
8-64	Precast	8.00	4	1969	52	0	5	3	15
8-10	Precast	4.50	4	1969	52	0	5	3	15
8-11	Precast	5.80	4	1969	52	0	5	3	15
9-45	Precast	4.50	4	1969	52	0	5	3	15
9-25	Precast	8.36	4	1969	52	0	5	3	15
9-24	Precast	9.50	4	1969	52	0	5	3	15
9-93	Precast	4.70	4	1969	52	0	5	3	15
9-74	Precast	7.60	4	1969	52	0	5	3	15
9-75	Precast	7.00	4	1969	52	0	5	3	15

Town of Beaufort
Manholes Ranked by Criticality
Wastewater Asset Management Plan

Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
9-10	Precast	9.83	4	1969	52	0	5	3	15
9-16	Precast	4.28	4	1969	52	0	5	3	15
9-7	Precast	5.80	4	1969	52	0	5	3	15
10-13	Precast	5.22	4	1969	52	0	5	3	15
10-21	Precast	5.09	4	1969	52	0	5	3	15
10-23	Precast	3.56	4	1969	52	0	5	3	15
11-9	Precast	8.00	4	1969	52	0	5	3	15
12-11	Precast	7.00	4	1975	46	0	4	3	12
12-14	Precast	5.90	4	1975	46	0	4	3	12
3-15	Brick	4.00	4	1969	52	5	5	1	10
5-7	Brick	3.50	4	1969	52	5	5	1	10
6-65	Brick	5.40	4	1969	52	5	5	1	10
5-20	Brick	5.30	4	1969	52	5	5	1	10
5-23	Brick	3.20	4	1969	52	5	5	1	10
6-12	Brick	3.00	4	1969	52	5	5	1	10
7-28	Brick	4.90	4	1969	52	5	5	1	10
8-22	Brick	4.34	4	1969	52	5	5	1	10
11-11	Brick	5.00	4	1969	52	5	5	1	10
9-20	Brick	3.00	0	1969	52	5	5	1	10
9-31	Brick	4.22	4	1969	52	5	5	1	10

Town of Beaufort
Manholes Ranked by Criticality
Wastewater Asset Management Plan

Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
8-79	Brick	3.30	4	1969	52	5	5	1	10
2-5	Brick	3.10	4	1969	52	5	5	1	10
2-33	Brick	3.95	4	1969	52	5	5	1	10
3-14	Brick	2.70	4	1969	52	5	5	1	10
3-13	Brick	1.90	4	1969	52	5	5	1	10
3-12	Brick	1.92	4	1969	52	5	5	1	10
6-16	Brick	2.20	4	1969	52	5	5	1	10
9-26	Lined	7.17	4	2008	13	1	1	5	10
8-25	Precast	8.20	4	1969	52	0	5	2	10
8-37	Precast	5.70	4	1969	52	0	5	2	10
9-37	Precast	4.11	4	1969	52	0	5	2	10
9-5	Precast	7.80	4	1969	52	0	5	2	10
8-92	Concrete Block	4.00	4	1969	52	3	5	1	8
8-74	Concrete Block	5.20	4	1969	52	3	5	1	8
7-26	Concrete Block	2.50	4	1969	52	3	5	1	8
7-37	Concrete Block	2.30	4	1969	52	3	5	1	8
1-11	Lined	2.50	4	2008	13	1	1	4	8
10-18	Lined	5.47	4	2008	13	1	1	4	8
11-1	Lined	7.80	4	2008	13	1	1	4	8
1-26	Unknown		4	1969	52	2	5	1	7

Town of Beaufort
Manholes Ranked by Criticality
Wastewater Asset Management Plan

Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
1-13	Unknown		4	1969	52	2	5	1	7
2-7	Unknown		4	1969	52	2	5	1	7
2-22	Unknown		4	1969	52	2	5	1	7
3-20	Unknown	4.37	4	1969	52	2	5	1	7
3-32	Unknown		4	1969	52	2	5	1	7
3-34	Unknown		4	1969	52	2	5	1	7
3-33	Unknown		4	1969	52	2	5	1	7
3-35	Unknown		4	1969	52	2	5	1	7
3-36	Unknown		4	1969	52	2	5	1	7
3-37	Unknown		4	1969	52	2	5	1	7
3-43	Unknown		4	1969	52	2	5	1	7
3-44	Unknown		4	1969	52	2	5	1	7
3-42	Unknown		4	1969	52	2	5	1	7
3-41	Unknown		4	1969	52	2	5	1	7
3-39	Unknown		4	1969	52	2	5	1	7
WW-1	Unknown		4	1969	52	2	5	1	7
WW-2	Unknown		4	1969	52	2	5	1	7
WW-3	Unknown	4.75	4	1969	52	2	5	1	7
4-6	Unknown		4	1969	52	2	5	1	7
6-17	Unknown		4	1969	52	2	5	1	7

Town of Beaufort
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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
6-87	Unknown		4	1969	52	2	5	1	7
6-64	Unknown		4	1969	52	2	5	1	7
5-21	Unknown	4.26	4	1969	52	2	5	1	7
5-25	Unknown		4	1969	52	2	5	1	7
5-13	Unknown		4	1969	52	2	5	1	7
6-15	Unknown		4	1969	52	2	5	1	7
6-14	Unknown	2.53	4	1969	52	2	5	1	7
6-42	Unknown		4	1969	52	2	5	1	7
6-41	Unknown		4	1969	52	2	5	1	7
6-91	Unknown		4	1969	52	2	5	1	7
6-70	Unknown	4.76	4	1969	52	2	5	1	7
6-75	Unknown		4	1969	52	2	5	1	7
7-27	Unknown	6.09	4	1969	52	2	5	1	7
7-5	Unknown		4	1969	52	2	5	1	7
7-4	Unknown	7.65	4	1969	52	2	5	1	7
7-25	Unknown		4	1969	52	2	5	1	7
8-100	Unknown	2.92	4	1969	52	2	5	1	7
8-43	Unknown	6.20	4	1969	52	2	5	1	7
8-52	Unknown		4	1969	52	2	5	1	7
8-53	Unknown		4	1969	52	2	5	1	7

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
8-54	Unknown		4	1969	52	2	5	1	7
8-93	Unknown		4	1969	52	2	5	1	7
8-95	Unknown		4	1969	52	2	5	1	7
8-62	Unknown		4	1969	52	2	5	1	7
8-73	Unknown		4	1969	52	2	5	1	7
8-66	Unknown		4	1969	52	2	5	1	7
8-67	Unknown		4	1969	52	2	5	1	7
8-69	Unknown		4	1969	52	2	5	1	7
8-70	Unknown		4	1969	52	2	5	1	7
8-75	Unknown		4	1969	52	2	5	1	7
8-106	Unknown	5.75	4	1969	52	2	5	1	7
8-15	Unknown		4	1969	52	2	5	1	7
8-21	Unknown		4	1969	52	2	5	1	7
8-36	Unknown		4	1969	52	2	5	1	7
9-28	Unknown		4	1969	52	2	5	1	7
9-53	Unknown		4	1969	52	2	5	1	7
9-52	Unknown	10.30	4	1969	52	2	5	1	7
9-80	Unknown		4	1969	52	2	5	1	7
9-79	Unknown		4	1969	52	2	5	1	7
9-67	Unknown		4	1969	52	2	5	1	7

Town of Beaufort
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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
9-68	Unknown		4	1969	52	2	5	1	7
9-69	Unknown		4	1969	52	2	5	1	7
9-64	Unknown		4	1969	52	2	5	1	7
9-4	Unknown		4	1969	52	2	5	1	7
10-25	Unknown		4	1969	52	2	5	1	7
10-26	Unknown		4	1969	52	2	5	1	7
11-8	Unknown		4	1969	52	2	5	1	7
9-84	Unknown		4	1969	52	2	5	1	7
9-83	Unknown		4	1969	52	2	5	1	7
9-90	Unknown		4	1969	52	2	5	1	7
9-89	Unknown		4	1969	52	2	5	1	7
9-88	Unknown		4	1969	52	2	5	1	7
9-86	Unknown		4	1969	52	2	5	1	7
9-87	Unknown		4	1969	52	2	5	1	7
9-82	Unknown		4	1969	52	2	5	1	7
8-99	Unknown		4	1969	52	2	5	1	7
8-97	Unknown		4	1969	52	2	5	1	7
6-7	Unknown		4	1969	52	2	5	1	7
6-18	Unknown		4	1969	52	2	5	1	7
6-19	Unknown		4	1969	52	2	5	1	7

Town of Beaufort
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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
11-12	Unknown		4	1969	52	2	5	1	7
9-65	Unknown		4	1969	52	2	5	1	7
9-19	Unknown		4	1969	52	2	5	1	7
9-39	Unknown		4	1969	52	2	5	1	7
9-38	Unknown		4	1969	52	2	5	1	7
4-11	Unknown		4	1969	52	2	5	1	7
4-10	Unknown		4	1969	52	2	5	1	7
3-22	Unknown		4	1969	52	2	5	1	7
2-13	Unknown		4	1969	52	2	5	1	7
5-22	Unknown	4.56	4	1969	52	2	5	1	7
8-96	Unknown		4	1969	52	2	5	1	7
7-11	Unknown		4	1969	52	2	5	1	7
8-24	Unknown		4	1969	52	2	5	1	7
2-34	Unknown	3.58	4	1969	52	2	5	1	7
2-36	Unknown		4	1969	52	2	5	1	7
8-60	Unknown		4	1969	52	2	5	1	7
8-101	Unknown		4	1969	52	2	5	1	7
6-88	Unknown		4	1969	52	2	5	1	7
6-39	Unknown	3.06	4	1969	52	2	5	1	7
9-97	Unknown		4	1969	52	2	5	1	7

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
3-16	Unknown		4	1969	52	2	5	1	7
8-32	Unknown	6.68	4	1969	52	2	5	1	7
6-86	Unknown		4	1969	52	2	5	1	7
1-24	Unknown		4	1969	52	2	5	1	7
6-58	Unknown		4	1969	52	2	5	1	7
2-26	Unknown		4	1969	52	2	5	1	7
6-91	Unknown		4	1969	52	2	5	1	7
6-76	Unknown		4	1969	52	2	5	1	7
6-80	Unknown	11.60	4	1969	52	2	5	1	7
WW-16	Unknown	7.56	4	1969	52	2	5	1	7
6-79	Unknown	5.32	4	1969	52	2	5	1	7
6-40	Unknown	3.46	4	1969	52	2	5	1	7
8-107	Unknown	5.27	4	1969	52	2	5	1	7
2-3	Brick	2.58	4	2008	13	5	1	1	6
4-4	Brick	3.00	4	2008	13	5	1	1	6
5-6	Brick	3.50	4	2008	13	5	1	1	6
2-4	Brick	1.90	4	2008	13	5	1	1	6
9-33	Lined	6.23	4	2008	13	1	1	3	6
9-73	Lined	7.53	4	2008	13	1	1	3	6
9-2	Lined	12.20	4	2008	13	1	1	3	6

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Manholes Ranked by Criticality
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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
6-38	Lined	5.00	4	1969	52	1	5	1	6
14-1	Precast	11.10	4	1998	23	0	2	3	6
14-9	Precast	8.40	4	1998	23	0	2	3	6
14-10	Precast	8.70	4	1998	23	0	2	3	6
16-9	Precast	8.50	4	1999	22	0	2	3	6
16-10	Precast	8.30	4	1999	22	0	2	3	6
16-11	Precast	6.00	4	1999	22	0	2	3	6
12-13	Unknown		4	1975	46	2	4	1	6
12-6	Unknown		4	1975	46	2	4	1	6
12-7	Unknown		4	1975	46	2	4	1	6
12-20	Unknown		4	1975	46	2	4	1	6
12-15	Unknown		4	1975	46	2	4	1	6
12-16	Unknown		4	1975	46	2	4	1	6
8-105	Precast		4	1969	52	0	5	1	5
7-18	Precast	3.64	4	1969	52	0	5	1	5
8-16	Precast	6.30	4	2008	13	0	1	5	5
10-15	Precast	6.80	4	2008	13	0	1	5	5
6-77	Precast	6.60	4	1969	52	0	5	1	5
1-9	Precast	3.45	4	1969	52	0	5	1	5
1-25	Precast	8.00	4	1969	52	0	5	1	5

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
2-30	Precast	7.10	4	1969	52	0	5	1	5
1-19	Precast	2.05	4	1969	52	0	5	1	5
2-17	Precast	4.72	4	1969	52	0	5	1	5
2-18	Precast	5.00	4	1969	52	0	5	1	5
2-27	Precast	4.20	4	1969	52	0	5	1	5
2-20	Precast	5.00	4	1969	52	0	5	1	5
2-25	Precast	4.00	4	1969	52	0	5	1	5
3-18	Precast	3.96	4	1969	52	0	5	1	5
3-17	Precast	6.20	4	1969	52	0	5	1	5
3-10	Precast	4.17	4	1969	52	0	5	1	5
3-27	Precast	6.59	4	1969	52	0	5	1	5
3-28	Precast	5.40	4	1969	52	0	5	1	5
3-29	Precast	5.52	4	1969	52	0	5	1	5
3-30	Precast	5.60	4	1969	52	0	5	1	5
3-31	Precast	3.40	4	1969	52	0	5	1	5
3-4	Precast	5.30	4	1969	52	0	5	1	5
3-5	Precast	4.30	4	1969	52	0	5	1	5
3-6	Precast	4.20	4	1969	52	0	5	1	5
3-40	Precast	4.20	4	1969	52	0	5	1	5
3-38	Precast	2.60	4	1969	52	0	5	1	5

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
4-3	Precast	4.00	4	1969	52	0	5	1	5
4-2	Precast	4.30	4	1969	52	0	5	1	5
4-16	Precast	6.30	4	1969	52	0	5	1	5
4-17	Precast	4.12	4	1969	52	0	5	1	5
4-19	Precast	5.45	4	1969	52	0	5	1	5
4-20	Precast	4.75	4	1969	52	0	5	1	5
4-21	Precast	5.30	4	1969	52	0	5	1	5
4-22	Precast	4.80	4	1969	52	0	5	1	5
4-7	Precast	6.60	4	1969	52	0	5	1	5
4-13	Precast	6.50	4	1969	52	0	5	1	5
4-14	Precast	3.89	4	1969	52	0	5	1	5
4-15	Precast	5.15	4	1969	52	0	5	1	5
5-9	Precast	3.83	4	1969	52	0	5	1	5
5-8	Precast	4.60	4	1969	52	0	5	1	5
6-61	Precast	4.50	4	1969	52	0	5	1	5
6-13	Precast	2.10	4	1969	52	0	5	1	5
6-11	Precast	3.25	4	1969	52	0	5	1	5
6-37	Precast	2.20	4	1969	52	0	5	1	5
6-57	Precast	4.30	4	1969	52	0	5	1	5
6-43	Precast	3.40	4	1969	52	0	5	1	5

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
6-53	Precast	5.30	4	1969	52	0	5	1	5
6-2	Precast	13.00	4	1969	52	0	5	1	5
6-30	Precast	5.15	4	1969	52	0	5	1	5
7-3	Precast	7.92	4	1969	52	0	5	1	5
7-2	Precast	7.50	4	1969	52	0	5	1	5
7-19	Precast	3.79	4	1969	52	0	5	1	5
7-1	Precast	9.30	4	1969	52	0	5	1	5
7-23	Precast	4.50	4	1969	52	0	5	1	5
7-24	Precast	4.30	4	1969	52	0	5	1	5
8-42	Precast	6.10	4	1969	52	0	5	1	5
8-48	Precast	6.20	4	1969	52	0	5	1	5
8-47	Precast	6.21	4	1969	52	0	5	1	5
8-41	Precast	8.30	4	1969	52	0	5	1	5
8-55	Precast	4.50	4	1969	52	0	5	1	5
8-94	Precast	5.00	4	1969	52	0	5	1	5
8-91	Precast	5.50	4	1969	52	0	5	1	5
8-80	Precast	7.97	4	1969	52	0	5	1	5
8-51	Precast	4.60	4	1969	52	0	5	1	5
8-61	Precast	4.51	4	1969	52	0	5	1	5
8-72	Precast	5.30	4	1969	52	0	5	1	5

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
8-68	Precast	6.90	4	1969	52	0	5	1	5
8-1	Precast	12.30	4	1969	52	0	5	1	5
8-63	Precast	4.27	4	1969	52	0	5	1	5
8-19	Precast	5.13	4	1969	52	0	5	1	5
8-12	Precast	9.50	4	1969	52	0	5	1	5
8-23	Precast	8.50	4	1969	52	0	5	1	5
9-95	Precast	4.20	4	1969	52	0	5	1	5
8-8	Precast	4.60	4	1969	52	0	5	1	5
8-9	Precast	4.25	4	1969	52	0	5	1	5
9-29	Precast	4.00	4	1969	52	0	5	1	5
9-44	Precast	5.60	4	1969	52	0	5	1	5
9-23	Precast	9.87	4	1969	52	0	5	1	5
9-22	Precast	9.94	4	1969	52	0	5	1	5
9-34	Precast	5.50	4	1969	52	0	5	1	5
9-94	Precast	4.30	4	1969	52	0	5	1	5
9-76	Precast	6.20	4	1969	52	0	5	1	5
9-77	Precast	4.20	4	1969	52	0	5	1	5
9-78	Precast	3.50	4	1969	52	0	5	1	5
9-62	Precast	6.00	4	1969	52	0	5	1	5
9-66	Precast	4.70	4	1969	52	0	5	1	5

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
9-70	Precast	5.05	4	1969	52	0	5	1	5
9-71	Precast	4.82	4	1969	52	0	5	1	5
9-72	Precast	4.90	4	1969	52	0	5	1	5
9-50	Precast	11.80	4	1969	52	0	5	1	5
9-15	Precast	5.70	4	1969	52	0	5	1	5
9-17	Precast	3.95	4	1969	52	0	5	1	5
9-9	Precast	4.40	4	1969	52	0	5	1	5
10-14	Precast	3.97	4	1969	52	0	5	1	5
10-12	Precast	8.18	4	1969	52	0	5	1	5
10-10	Precast	7.30	4	1969	52	0	5	1	5
10-7	Precast	10.20	4	1969	52	0	5	1	5
10-22	Precast	4.60	4	1969	52	0	5	1	5
11-4	Precast	4.30	4	1969	52	0	5	1	5
11-3	Precast	5.30	4	1969	52	0	5	1	5
11-5	Precast	5.00	4	1969	52	0	5	1	5
11-6	Precast	5.10	4	1969	52	0	5	1	5
11-7	Precast	4.80	4	1969	52	0	5	1	5
9-81	Precast	7.00	4	1969	52	0	5	1	5
9-85	Precast	3.00	4	1969	52	0	5	1	5
3-23	Precast	5.31	4	1969	52	0	5	1	5

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
6-52	Precast	5.36	4	1969	52	0	5	1	5
9-61	Precast	4.23	4	1969	52	0	5	1	5
8-98	Precast	2.80	4	1969	52	0	5	1	5
6-8	Precast	7.40	4	1969	52	0	5	1	5
6-9	Precast	7.50	4	1969	52	0	5	1	5
6-10	Precast	8.00	4	1969	52	0	5	1	5
11-10	Precast	9.40	4	1969	52	0	5	1	5
9-30	Precast	4.90	4	1969	52	0	5	1	5
10-24	Precast	5.00	4	1969	52	0	5	1	5
10-20	Precast	5.50	4	1969	52	0	5	1	5
4-9	Precast	4.80	4	1969	52	0	5	1	5
4-18	Precast	2.43	4	1969	52	0	5	1	5
3-19	Precast	4.48	4	1969	52	0	5	1	5
2-14	Precast	6.00	4	1969	52	0	5	1	5
1-4	Precast	5.22	4	1969	52	0	5	1	5
6-71	Precast	4.30	4	1969	52	0	5	1	5
1-10	Precast	2.70	4	1969	52	0	5	1	5
4-8	Precast	6.50	4	1969	52	0	5	1	5
3-25	Precast	4.39	4	1969	52	0	5	1	5
3-26	Precast	5.87	4	1969	52	0	5	1	5

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
2-16	Precast	4.52	4	1969	52	0	5	1	5
6-3	Precast	10.20	4	1969	52	0	5	1	5
6-4	Precast	8.20	4	1969	52	0	5	1	5
8-28	Precast	7.80	4	1969	52	0	5	1	5
2-32	Precast	5.03	4	1969	52	0	5	1	5
5-11	Precast	6.44	4	1969	52	0	5	1	5
3-11	Precast	6.30	4	1969	52	0	5	1	5
5-12	Precast	4.67	4	1969	52	0	5	1	5
6-51	Precast	6.25	4	1969	52	0	5	1	5
7-34	Precast	9.50	4	1969	52	0	5	1	5
8-49	Precast	6.50	4	1969	52	0	5	1	5
1-31	Precast	4.42	4	1969	52	0	5	1	5
1-32	Precast	6.00	4	1969	52	0	5	1	5
6-74	Precast	9.00	4	1969	52	0	5	1	5
6-1	Precast	12.00	4	1969	52	0	5	1	5
6-35	Precast	6.78	4	1969	52	0	5	1	5
7-17	Precast	4.20	4	1969	52	0	5	1	5
7-36	Precast	6.80	4	1969	52	0	5	1	5
10-38	Precast	9.50	4	1969	52	0	5	1	5
9-58	Precast	6.30	4	1969	52	0	5	1	5

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
WW-6	Unknown		4	1986	35	2	3	1	5
8-81	Unknown		4	1990	31	2	3	1	5
8-83	Unknown		4	1990	31	2	3	1	5
8-84	Unknown		4	1990	31	2	3	1	5
8-88	Unknown		4	1990	31	2	3	1	5
8-89	Unknown		4	1990	31	2	3	1	5
8-90	Unknown		4	1990	31	2	3	1	5
8-86	Unknown		4	1990	31	2	3	1	5
8-87	Unknown		4	1990	31	2	3	1	5
WW-4	Unknown		4	1986	35	2	3	1	5
WW-5	Unknown		4	1986	35	2	3	1	5
WW-7	Unknown		4	1986	35	2	3	1	5
12-3	Precast	8.70	4	1975	46	0	4	1	4
9-57	Precast	8.10	4	2007	14	0	1	4	4
9-3	Precast	11.03	4	2008	13	0	1	4	4
12-1	Precast	9.40	4	2008	13	0	1	4	4
2-31	Precast	6.42	4	2008	13	0	1	4	4
12-8	Precast	8.30	4	1975	46	0	4	1	4
12-10	Precast	7.70	4	1975	46	0	4	1	4
12-5	Precast	6.80	4	1975	46	0	4	1	4

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
12-12	Precast	7.80	4	1975	46	0	4	1	4
12-27	Precast	5.30	4	1975	46	0	4	1	4
12-22	Precast	4.00	4	1975	46	0	4	1	4
12-23	Precast	3.80	4	1975	46	0	4	1	4
12-32	Precast	3.90	4	1975	46	0	4	1	4
12-31	Precast	4.40	4	1975	46	0	4	1	4
12-17	Precast	6.10	4	1975	46	0	4	1	4
12-26	Precast	4.10	4	1975	46	0	4	1	4
12-29	Precast	5.30	4	1975	46	0	4	1	4
12-30	Precast	4.90	4	1975	46	0	4	1	4
12-33	Precast	7.28	4	1975	46	0	4	1	4
16-8	Unknown	5.93	4	1999	22	2	2	1	4
16-7	Unknown	6.41	4	1999	22	2	2	1	4
16-16	Unknown		4	1999	22	2	2	1	4
16-17	Unknown		4	1999	22	2	2	1	4
16-26	Unknown		4	1999	22	2	2	1	4
16-28	Unknown		4	1999	22	2	2	1	4
16-25	Unknown		4	1999	22	2	2	1	4
16-23	Unknown		4	1999	22	2	2	1	4
16-30	Unknown		4	1999	22	2	2	1	4

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
16-18	Unknown		4	1999	22	2	2	1	4
16-12	Unknown		4	1999	22	2	2	1	4
16-14	Unknown		4	1999	22	2	2	1	4
13-3	Unknown		4	1994	27	2	2	1	4
13-2	Unknown		4	1994	27	2	2	1	4
10-16	Precast	6.10	4	2008	13	0	1	3	3
8-34	Precast	7.30	4	2008	13	0	1	3	3
19-13	Precast	6.30	4	2005	16	0	1	3	3
19-12	Precast	6.80	4	2005	16	0	1	3	3
19-11	Precast	7.30	4	2005	16	0	1	3	3
8-82	Precast	8.20	4	1990	31	0	3	1	3
8-85	Precast	4.40	4	1990	31	0	3	1	3
1-29	Unknown		4	2008	13	2	1	1	3
5-16	Unknown	4.14	4	2008	13	2	1	1	3
1-3	Unknown		4	2008	13	2	1	1	3
6-62	Lined	6.70	4	2008	13	1	1	1	2
1-15	Lined	5.72	4	2008	13	1	1	1	2
6-60	Lined	6.30	4	2008	13	1	1	1	2
6-63	Lined	7.20	4	2008	13	1	1	1	2
6-67	Lined	7.00	4	2008	13	1	1	1	2

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
6-5	Lined	10.20	4	2008	13	1	1	1	2
6-33	Lined	3.20	4	2008	13	1	1	1	2
6-28	Lined	5.20	4	2006	15	1	1	1	2
7-15	Lined	5.16	4	2008	13	1	1	1	2
6-24	Lined	5.86	4	2006	15	1	1	1	2
7-10	Lined	5.70	4	2008	13	1	1	1	2
6-72	Lined		4	2008	13	1	1	1	2
7-8	Lined	7.50	4	2008	13	1	1	1	2
7-7	Lined		4	2008	13	1	1	1	2
7-14	Lined	6.85	4	2008	13	1	1	1	2
7-13	Lined	6.80	4	2008	13	1	1	1	2
7-20	Lined	6.90	4	2008	13	1	1	1	2
8-56	Lined	3.82	4	2008	13	1	1	1	2
8-76	Lined	10.09	4	2008	13	1	1	1	2
8-13	Lined	8.20	4	2008	13	1	1	1	2
8-6	Lined	8.14	4	2008	13	1	1	1	2
9-41	Lined	8.44	4	2008	13	1	1	1	2
9-40	Lined	8.50	4	2008	13	1	1	1	2
9-35	Lined	5.80	4	2008	13	1	1	1	2
9-54	Lined	6.50	4	2008	13	1	1	1	2

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
9-1	Lined	11.50	4	2008	13	1	1	1	2
9-12	Lined	8.50	4	2008	13	1	1	1	2
9-13	Lined	7.50	4	2008	13	1	1	1	2
10-9	Lined	8.00	4	2008	13	1	1	1	2
10-8	Lined	8.60	4	2008	13	1	1	1	2
6-26	Lined	5.00	4	2006	15	1	1	1	2
6-25	Lined	6.56	4	2006	15	1	1	1	2
6-27	Lined	6.90	4	2006	15	1	1	1	2
6-22	Lined	8.70	4	2006	15	1	1	1	2
2-9	Precast	6.00	4	2008	13	0	1	2	2
14-2	Precast		4	1998	23	0	2	1	2
14-3	Precast	10.50	4	1998	23	0	2	1	2
14-11	Precast	20.00	4	1998	23	0	2	1	2
14-12	Precast		4	1998	23	0	2	1	2
14-13	Precast		4	1998	23	0	2	1	2
14-8	Precast	4.80	4	1998	23	0	2	1	2
14-7	Precast	5.30	4	1998	23	0	2	1	2
14-6	Precast		4	1998	23	0	2	1	2
14-5	Precast	8.00	4	1998	23	0	2	1	2
14-4	Precast	10.00	4	1998	23	0	2	1	2

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
14-16	Precast	4.80	4	1998	23	0	2	1	2
14-15	Precast		4	1998	23	0	2	1	2
14-14	Precast		4	1998	23	0	2	1	2
16-6	Precast	6.42	4	1999	22	0	2	1	2
16-5	Precast	6.74	4	1999	22	0	2	1	2
16-4	Precast	9.80	4	1999	22	0	2	1	2
16-3	Precast	11.00	4	1999	22	0	2	1	2
16-2	Precast	11.10	4	1999	22	0	2	1	2
16-1	Precast	12.00	4	1999	22	0	2	1	2
16-15	Precast	11.30	4	1999	22	0	2	1	2
16-24	Precast	4.90	4	1999	22	0	2	1	2
16-22	Precast	7.30	4	1999	22	0	2	1	2
16-27	Precast	8.40	4	1999	22	0	2	1	2
16-21	Precast	7.50	4	1999	22	0	2	1	2
16-20	Precast	7.60	4	1999	22	0	2	1	2
16-29	Precast	6.20	4	1999	22	0	2	1	2
16-13	Precast	7.00	4	1999	22	0	2	1	2
13-1	Precast	11.57	4	1994	27	0	2	1	2
16-31	Precast	12.00	4	1999	22	0	2	1	2
16-39	Precast	10.60	4	1999	22	0	2	1	2

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
16-32	Precast		4	1999	22	0	2	1	2
16-37	Precast	12.17	4	1999	22	0	2	1	2
16-38	Precast	10.15	4	1999	22	0	2	1	2
16-36	Precast		4	1999	22	0	2	1	2
16-40	Precast		4	1999	22	0	2	1	2
16-41	Precast		4	1999	22	0	2	1	2
16-35	Precast		4	1999	22	0	2	1	2
16-33	Precast	7.80	4	1999	22	0	2	1	2
16-34	Precast	5.50	4	1999	22	0	2	1	2
14-17	Precast		4	1998	23	0	2	1	2
14-18	Precast		4	1998	23	0	2	1	2
12-28	Unknown		4	2021	0	2	0	1	2
6-49	Lined	6.80	4	2021	0	1	0	1	1
6-23	Lined	7.81	4	2021	0	1	0	1	1
6-81	Lined	9.24	4	2021	0	1	0	1	1
2-28	Precast	5.00	4	2008	13	0	1	1	1
1-5	Precast	7.50	4	2008	13	0	1	1	1
1-1	Precast	7.50	4	2008	13	0	1	1	1
1-7	Precast	6.00	4	2008	13	0	1	1	1
1-8	Precast	4.99	4	2008	13	0	1	1	1

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
1-23	Precast	8.80	4	2008	13	0	1	1	1
2-2	Precast	7.00	4	2008	13	0	1	1	1
2-1	Precast	8.10	4	2008	13	0	1	1	1
2-8	Precast	6.20	4	2008	13	0	1	1	1
1-21	Precast	7.67	4	2008	13	0	1	1	1
1-16	Precast	6.80	4	2008	13	0	1	1	1
1-17	Precast	4.58	4	2008	13	0	1	1	1
1-18	Precast	5.00	4	2008	13	0	1	1	1
1-20	Precast	3.49	4	2008	13	0	1	1	1
2-29	Precast	5.08	4	2008	13	0	1	1	1
2-10	Precast	4.99	4	2008	13	0	1	1	1
2-11	Precast	4.22	4	2008	13	0	1	1	1
2-12	Precast	4.40	4	2008	13	0	1	1	1
2-23	Precast	4.27	4	2008	13	0	1	1	1
2-24	Precast	3.80	4	2008	13	0	1	1	1
3-9	Precast	4.84	4	2008	13	0	1	1	1
3-8	Precast	5.11	4	2008	13	0	1	1	1
3-1	Precast	5.60	4	2008	13	0	1	1	1
3-2	Precast	3.70	4	2008	13	0	1	1	1
3-3	Precast	3.60	4	2008	13	0	1	1	1

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
4-1	Precast	6.70	4	2008	13	0	1	1	1
4-5	Precast	3.13	4	2008	13	0	1	1	1
5-5	Precast	5.35	4	2008	13	0	1	1	1
5-10	Precast	5.47	4	2008	13	0	1	1	1
5-14	Precast	6.30	4	2008	13	0	1	1	1
5-4	Precast	6.33	4	2008	13	0	1	1	1
5-1	Precast	7.00	4	2008	13	0	1	1	1
5-2	Precast	7.20	4	2008	13	0	1	1	1
6-68	Precast	4.60	4	2008	13	0	1	1	1
5-24	Precast	2.43	4	2008	13	0	1	1	1
6-6	Precast	8.00	4	2008	13	0	1	1	1
5-3	Precast	7.00	4	2008	13	0	1	1	1
6-69	Precast		4	2008	13	0	1	1	1
6-20	Precast	9.27	4	2006	15	0	1	1	1
7-9	Precast	4.70	4	2008	13	0	1	1	1
7-6	Precast	7.90	4	2008	13	0	1	1	1
7-21	Precast	5.70	4	2008	13	0	1	1	1
8-59	Precast	4.90	4	2008	13	0	1	1	1
6-29	Precast	4.80	4	2008	13	0	1	1	1
8-45	Precast	4.67	4	2008	13	0	1	1	1

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
8-44	Precast	5.50	4	2008	13	0	1	1	1
8-58	Precast	6.11	4	2008	13	0	1	1	1
8-57	Precast	6.80	4	2008	13	0	1	1	1
8-50	Precast	4.30	4	2008	13	0	1	1	1
8-40	Precast	9.30	4	2008	13	0	1	1	1
8-77	Precast	10.40	4	2008	13	0	1	1	1
8-39	Precast	5.80	4	2008	13	0	1	1	1
8-71	Precast	5.20	4	2008	13	0	1	1	1
8-38	Precast	9.50	4	2008	13	0	1	1	1
8-2	Precast	12.20	4	2008	13	0	1	1	1
8-14	Precast	7.30	4	2008	13	0	1	1	1
8-3	Precast	11.40	4	2008	13	0	1	1	1
8-29	Precast	6.80	4	2008	13	0	1	1	1
8-30	Precast	5.50	4	2008	13	0	1	1	1
8-33	Precast	7.00	4	2008	13	0	1	1	1
8-35	Precast	5.80	4	2008	13	0	1	1	1
8-7	Precast	7.50	4	2008	13	0	1	1	1
9-42	Precast	9.10	4	2008	13	0	1	1	1
9-27	Precast	4.50	4	2008	13	0	1	1	1
9-47	Precast	5.52	4	2008	13	0	1	1	1

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
9-21	Precast	10.29	4	2008	13	0	1	1	1
9-55	Precast	6.50	4	2008	13	0	1	1	1
9-59	Precast	7.00	4	2007	14	0	1	1	1
9-60	Precast	5.70	4	2007	14	0	1	1	1
9-51	Precast	4.83	4	2008	13	0	1	1	1
9-14	Precast	7.50	4	2008	13	0	1	1	1
10-11	Precast	7.90	4	2008	13	0	1	1	1
10-29	Precast	7.70	4	2008	13	0	1	1	1
10-32	Precast	4.20	4	2008	13	0	1	1	1
10-19	Precast	5.80	4	2008	13	0	1	1	1
12-9	Precast	8.20	4	2008	13	0	1	1	1
12-18	Precast	6.30	4	2008	13	0	1	1	1
6-50	Precast		4	2008	13	0	1	1	1
16-19	Precast	7.69	4	2008	13	0	1	1	1
15-7	Precast		4	2001	20	0	1	1	1
15-3	Precast		4	2001	20	0	1	1	1
15-2	Precast	9.30	4	2001	20	0	1	1	1
15-6	Precast	8.20	4	2001	20	0	1	1	1
15-5	Precast		4	2001	20	0	1	1	1
15-11	Precast		4	2001	20	0	1	1	1

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
15-10	Precast		4	2001	20	0	1	1	1
15-8	Precast	9.50	4	2001	20	0	1	1	1
15-4	Precast		4	2001	20	0	1	1	1
15-1	Precast	14.00	4	2001	20	0	1	1	1
15-9	Precast		4	2001	20	0	1	1	1
3-21	Precast	5.40	4	2008	13	0	1	1	1
1-6	Precast	5.84	4	2008	13	0	1	1	1
1-2	Precast	5.50	4	2008	13	0	1	1	1
10-31	Precast	5.40	4	2008	13	0	1	1	1
3-24	Precast	4.04	4	2008	13	0	1	1	1
1-27	Precast	6.85	4	2008	13	0	1	1	1
1-28	Precast	5.00	4	2008	13	0	1	1	1
6-78	Precast		4	2008	13	0	1	1	1
19-14	Precast	6.00	4	2005	16	0	1	1	1
19-1	Precast	8.80	4	2005	16	0	1	1	1
19-2	Precast	8.70	4	2005	16	0	1	1	1
19-15	Precast	4.81	4	2005	16	0	1	1	1
19-16	Precast	4.13	4	2005	16	0	1	1	1
19-17	Precast	4.13	4	2005	16	0	1	1	1
19-10	Precast	4.40	4	2005	16	0	1	1	1

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
19-3	Precast	9.30	4	2005	16	0	1	1	1
19-4	Precast	8.80	4	2005	16	0	1	1	1
19-5	Precast	4.90	4	2005	16	0	1	1	1
19-8	Precast	5.80	4	2005	16	0	1	1	1
19-9	Precast	3.90	4	2005	16	0	1	1	1
19-7	Precast	3.90	4	2005	16	0	1	1	1
19-6	Precast	6.40	4	2005	16	0	1	1	1
18-7	Precast		4	2003	18	0	1	1	1
18-6	Precast		4	2003	18	0	1	1	1
18-3	Precast	4.80	4	2003	18	0	1	1	1
18-4	Precast		4	2003	18	0	1	1	1
18-5	Precast		4	2003	18	0	1	1	1
18-2	Precast	5.30	4	2003	18	0	1	1	1
18-1	Precast	5.60	4	2003	18	0	1	1	1
18-8	Precast	6.30	4	2003	18	0	1	1	1
18-9	Precast		4	2003	18	0	1	1	1
18-11	Precast		4	2003	18	0	1	1	1
18-10	Precast	5.90	4	2003	18	0	1	1	1
18-12	Precast	5.20	4	2003	18	0	1	1	1
18-14	Precast		4	2003	18	0	1	1	1

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
18-13	Precast		4	2003	18	0	1	1	1
18-16	Precast		4	2003	18	0	1	1	1
18-15	Precast	4.00	4	2003	18	0	1	1	1
1-22	Precast	4.86	4	2008	13	0	1	1	1
1-30	Precast	2.40	4	2008	13	0	1	1	1
1-14	Precast	3.70	4	2008	13	0	1	1	1
6-32	Precast	4.90	4	2008	13	0	1	1	1
7-35	Precast	6.40	4	2008	13	0	1	1	1
10-33	Precast	8.60	4	2008	13	0	1	1	1
6-85	Precast	9.41	4	2006	15	0	1	1	1
6-21	Precast	7.91	4	2006	15	0	1	1	1
7-16	Precast	8.80	4	2008	13	0	1	1	1
9-96	Precast	5.67	4	2007	14	0	1	1	1
9-46	Precast	5.90	4	2007	14	0	1	1	1
10-30	Precast	6.00	4	2008	13	0	1	1	1
10-27	Precast	10.10	4	2008	13	0	1	1	1
10-28	Precast	9.80	4	2008	13	0	1	1	1
19-18	Precast	4.92	4	2005	16	0	1	1	1
16-42	Precast	9.49	4	2007	14	0	1	1	1
16-45	Precast	7.24	4	2007	14	0	1	1	1

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Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
16-46	Precast	6.65	4	2007	14	0	1	1	1
16-47	Precast	5.63	4	2007	14	0	1	1	1
16-43	Precast	8.10	4	2007	14	0	1	1	1
16-44	Precast	7.98	4	2007	14	0	1	1	1
16-48	Precast	6.14	4	2007	14	0	1	1	1
16-49	Precast	9.26	4	2007	14	0	1	1	1
16-50	Precast	9.01	4	2007	14	0	1	1	1
16-51	Precast	9.29	4	2007	14	0	1	1	1
WW-8	Precast	4.55	4	2007	14	0	1	1	1
WW-9	Precast	5.29	4	2007	14	0	1	1	1
WW-10	Precast	7.00	4	2007	14	0	1	1	1
WW-15	Precast	6.14	4	2007	14	0	1	1	1
WW-14	Precast	3.92	4	2007	14	0	1	1	1
WW-11	Precast	8.10	4	2007	14	0	1	1	1
WW-13	Precast	5.94	4	2007	14	0	1	1	1
WW-12	Precast	9.57	4	2007	14	0	1	1	1
WW-17	Precast	8.04	4	2007	14	0	1	1	1
10-2	Precast	17.30	4	2013	8	0	0	4	0
11-14	Precast	8.80	4	2013	8	0	0	4	0
11-16	Precast	3.80	4	2013	8	0	0	4	0

Town of Beaufort
Manholes Ranked by Criticality
Wastewater Asset Management Plan

Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
5-18	Precast	4.00	4	2021	0	0	0	1	0
5-17	Precast	6.83	4	2021	0	0	0	1	0
5-15	Precast	5.43	4	2021	0	0	0	1	0
7-12	Precast	3.06	4	2013	8	0	0	1	0
7-31	Precast	5.46	4	2013	8	0	0	1	0
10-6	Precast	17.25	4	2013	8	0	0	1	0
10-5	Precast	11.06	4	2013	8	0	0	1	0
10-4	Precast	12.90	4	2013	8	0	0	1	0
10-3	Precast	12.90	4	2013	8	0	0	1	0
11-15	Precast	4.00	4	2013	8	0	0	1	0
11-13	Precast	7.00	4	2013	8	0	0	1	0
11-17	Precast	2.30	4	2013	8	0	0	1	0
6-84	Precast	4.29	4	2021	0	0	0	1	0
7-32	Precast	3.95	4	2013	8	0	0	1	0
7-33	Precast	3.56	4	2013	8	0	0	1	0
6-48	Precast	5.30	4	2021	0	0	0	1	0
6-73	Precast	11.40	4	2021	0	0	0	1	0
22-34	Precast	7.70	4	2019	2	0	0	1	0
22-12	Precast	9.60	4	2019	2	0	0	1	0
22-13	Precast	8.95	4	2019	2	0	0	1	0

Town of Beaufort
Manholes Ranked by Criticality
Wastewater Asset Management Plan

Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
22-14	Precast	7.30	4	2019	2	0	0	1	0
22-15	Precast	6.40	4	2019	2	0	0	1	0
22-16	Precast	6.12	4	2019	2	0	0	1	0
22-11	Precast	9.70	4	2019	2	0	0	1	0
22-20	Precast	13.70	4	2019	2	0	0	1	0
22-10	Precast	12.90	4	2019	2	0	0	1	0
22-22	Precast	10.50	4	2019	2	0	0	1	0
22-23	Precast	8.80	4	2019	2	0	0	1	0
22-21	Precast	12.60	4	2019	2	0	0	1	0
22-30	Precast	12.80	4	2019	2	0	0	1	0
22-31	Precast	10.40	4	2019	2	0	0	1	0
22-32	Precast	10.40	4	2019	2	0	0	1	0
22-40	Precast	7.50	4	2019	2	0	0	1	0
22-41	Precast	7.60	4	2019	2	0	0	1	0
22-42	Precast	7.70	4	2019	2	0	0	1	0
22-33	Precast	6.80	4	2019	2	0	0	1	0
22-7	Precast	7.90	4	2019	2	0	0	1	0
22-6	Precast	7.50	4	2019	2	0	0	1	0
22-5	Precast	9.20	4	2019	2	0	0	1	0
22-4	Precast	8.40	4	2019	2	0	0	1	0

Town of Beaufort
Manholes Ranked by Criticality
Wastewater Asset Management Plan

Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
22-3	Precast	11.90	4	2019	2	0	0	1	0
22-2	Precast	12.50	4	2019	2	0	0	1	0
24-1	Precast	11.23	4	2014	7	0	0	1	0
24-2	Precast	11.12	4	2014	7	0	0	1	0
24-3	Precast	10.00	4	2014	7	0	0	1	0
24-4	Precast	9.86	4	2014	7	0	0	1	0
24-5	Precast	8.25	4	2014	7	0	0	1	0
24-6	Precast	8.23	4	2019	2	0	0	1	0
24-7	Precast	7.22	4	2019	2	0	0	1	0
24-9	Precast	7.72	4	2019	2	0	0	1	0
24-8	Precast	4.54	4	2019	2	0	0	1	0
26-1	Precast	4.83	4	2019	2	0	0	1	0
26-2	Precast	4.34	4	2019	2	0	0	1	0
26-3	Precast	3.75	4	2019	2	0	0	1	0
4-24	Precast	5.57	4	2017	4	0	0	1	0
4-25	Precast	3.85	4	2017	4	0	0	1	0
4-26	Precast	3.70	4	2017	4	0	0	1	0
4-27	Precast	3.50	4	2017	4	0	0	1	0
4-28	Precast	3.30	4	2017	4	0	0	1	0
4-29	Precast	3.37	4	2017	4	0	0	1	0

Town of Beaufort
Manholes Ranked by Criticality
Wastewater Asset Management Plan

Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
4-30	Precast	3.00	4	2017	4	0	0	1	0
23-20	Precast		4	2021	0	0	0	1	0
23-21	Precast		4	2021	0	0	0	1	0
23-19	Precast		4	2021	0	0	0	1	0
23-23	Precast		4	2021	0	0	0	1	0
23-7	Precast		4	2021	0	0	0	1	0
23-6	Precast		4	2021	0	0	0	1	0
23-8	Precast		4	2021	0	0	0	1	0
23-5	Precast		4	2021	0	0	0	1	0
23-4	Precast		4	2021	0	0	0	1	0
23-3	Precast		4	2021	0	0	0	1	0
23-2	Precast		4	2021	0	0	0	1	0
23-13	Precast		4	2021	0	0	0	1	0
23-14	Precast		4	2021	0	0	0	1	0
23-15	Precast		4	2021	0	0	0	1	0
23-16	Precast		4	2021	0	0	0	1	0
23-17	Precast		4	2021	0	0	0	1	0
23-37	Precast		4	2021	0	0	0	1	0
23-36	Precast		4	2021	0	0	0	1	0
23-34	Precast		4	2021	0	0	0	1	0

Town of Beaufort
Manholes Ranked by Criticality
Wastewater Asset Management Plan

Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
23-35	Precast		4	2021	0	0	0	1	0
23-32	Precast		4	2021	0	0	0	1	0
23-33	Precast		4	2021	0	0	0	1	0
23-24	Precast		4	2021	0	0	0	1	0
23-25	Precast		4	2021	0	0	0	1	0
23-26	Precast		4	2021	0	0	0	1	0
23-27	Precast		4	2021	0	0	0	1	0
23-28	Precast		4	2021	0	0	0	1	0
23-29	Precast		4	2021	0	0	0	1	0
23-30	Precast		4	2021	0	0	0	1	0
23-31	Precast		4	2021	0	0	0	1	0
23.38	Precast		4	2021	0	0	0	1	0
23-9	Precast		4	2021	0	0	0	1	0
23-10	Precast		4	2021	0	0	0	1	0
23-11	Precast		4	2021	0	0	0	1	0
23-12	Precast		4	2021	0	0	0	1	0
23-22	Precast		4	2021	0	0	0	1	0
23-18	Precast		4	2021	0	0	0	1	0
10-35	Precast	11.05	4	2013	8	0	0	1	0
10-34	Precast	12.20	4	2013	8	0	0	1	0

Town of Beaufort
Manholes Ranked by Criticality
Wastewater Asset Management Plan

Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
6-83	Precast	4.26	4	2021	0	0	0	1	0
6-82	Precast	3.45	4	2021	0	0	0	1	0
22-1	Precast	13.20	4	2019	2	0	0	1	0
4-23	Precast	3.50	4	2017	4	0	0	1	0
10-36	Precast	11.20	4	2013	8	0	0	1	0
10-37	Precast	16.10	4	2013	8	0	0	1	0
6-92	Precast	6.55	4	2013	8	0	0	1	0
6-93	Precast	6.21	4	2013	8	0	0	1	0
6-94	Precast	3.32	4	2013	8	0	0	1	0
11-18	Precast	6.74	4	2013	8	0	0	1	0
11-19	Precast	4.69	4	2013	8	0	0	1	0
11-20	Precast	6.65	4	2013	8	0	0	1	0
11-22	Precast	5.43	4	2013	8	0	0	1	0
11-21	Precast	9.22	4	2013	8	0	0	1	0
4-23	Precast	5.36	4	2017	4	0	0	1	0
4-24	Precast	5.73	4	2017	4	0	0	1	0
4-25	Precast	5.42	4	2017	4	0	0	1	0
23-1	Precast		4	2021	0	0	0	1	0
16-52	Precast	7.01	4	2011	10	0	0	1	0
16-53	Precast	7.30	4	2011	10	0	0	1	0

Town of Beaufort
Manholes Ranked by Criticality
Wastewater Asset Management Plan

Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
16-54	Precast	6.43	4	2011	10	0	0	1	0
8-102	Precast	9.76	4	2020	1	0	0	1	0
8-103	Precast	5.50	4	2020	1	0	0	1	0
22-47	Precast		4	2021	0	0	0	1	0
22-46	Precast		4	2021	0	0	0	1	0
22-45	Precast		4	2021	0	0	0	1	0
22-43	Precast		4	2021	0	0	0	1	0
22-8	Precast		4	2021	0	0	0	1	0
22-19	Precast		4	2021	0	0	0	1	0
22-24	Precast		4	2021	0	0	0	1	0
22-9	Precast		4	2021	0	0	0	1	0
22-17	Precast		4	2021	0	0	0	1	0
22-44	Precast		4	2021	0	0	0	1	0
22-18	Precast		4	2021	0	0	0	1	0
22-25	Precast		4	2021	0	0	0	1	0
22-26	Precast		4	2021	0	0	0	1	0
22-27	Precast		4	2021	0	0	0	1	0
22-28	Precast		4	2021	0	0	0	1	0
22-29	Precast		4	2021	0	0	0	1	0
22-35	Precast		4	2021	0	0	0	1	0

Town of Beaufort
Manholes Ranked by Criticality
Wastewater Asset Management Plan

Label	Material	Depth (ft)	Diameter (ft)	Installation Date	Age (Years)	Risk Assessment		Consequence Assessment	Total Ranking
						Material Rating	Service Life Rating	Condition Rating	
22-36	Precast		4	2021	0	0	0	1	0
22-37	Precast		4	2021	0	0	0	1	0
22-38	Precast		4	2021	0	0	0	1	0
22-39	Precast		4	2021	0	0	0	1	0
22-48	Precast		4	2021	0	0	0	1	0
22-49	Precast		4	2021	0	0	0	1	0
22-50	Precast		4	2021	0	0	0	1	0
22-51	Precast		4	2021	0	0	0	1	0
8-104	Precast	5.00	4	2011	10	0	0	1	0
8-27	Precast	8.04	4	2011	10	0	0	1	0

APPENDIX

J

Preliminary Cost Opinions

Beaufort, NC
Wastewater Asset Management Plan
Replacement of Lift Station #7
Preliminary Opinion of Probable Cost
October 2021

Project Description: This project involves replacement of the existing wet pit/dry pit style lift station constructed in 1969 and operating in excess of the normal life expectancy. Replacement with a submersible lift station would minimize potential for life and safety issues for maintenance personnel by removing the need to enter the confined dry pit via tripod and metal cable to access pumps. Additionally, replacement pumps with higher pumping capacity would reduce average run time and extend the life of the pumps. Electrical upgrades would include a new generator sized to support both pumps on standby power, a new pump control panel with solid state soft start starters to ease the startup load on the generator, submersible pressure transducer with float backups to provide continuous analog level signal, and a new hooded rack to mount all NEMA 4-X stainless steel electrical gear.

ITEM NO.	QTY.	UNIT	DESCRIPTION	UNIT PRICE	TOTAL COST
1	1	LS	Full replacement with a submersible sewage lift station including all equipment and piping, controls, site improvements, and the demolition/abandonment of existing below ground wet pit/dry pit style lift station	$ 420,000.00	$ 420,000.00
2	1	LS	New Lift Station Electrical & Generator	$ 75,000.00	$ 75,000.00
3	1	LS	Submersible Transducer	$ 3,000.00	$ 3,000.00
4	1	LS	Stainless Steel Hooded Rack	$ 15,000.00	$ 15,000.00
5	1	LS	NEMA 4-X Stainless Steel Electrical Gear	$ 20,000.00	$ 20,000.00
6	1	LS	Pump Control Panel	$ 25,000.00	$ 25,000.00

Construction Subtotal	$ 558,000.00
Contingencies (10%)	$ 55,800.00
Legal & Administration	$ 2,500.00
Surveying, Engineering Design & Construction Administration	$ 90,000.00
Construction Observation	$ 50,000.00
Total Estimated Project Cost	$ 756,300.00

Beaufort, NC
Wastewater Asset Management Plan
Rehabilitate Lift Station #6
Preliminary Opinion of Probable Cost
October 2021

Project Description: This project involves rehabilitating the existing suction lift style lift station constructed in 1969 within a masonry building. Significant maintenance is required as this lift station is operating in excess of the normal life expectancy and many of the features no longer function such as the manual bar screen, stop gates, and power ventilation. As a result, the Town has to remove trash manually every other day. Additionally, the wet well is extremely pitted, the pumps are corroded, and the access ladder is severely corroded preventing safe access to the wet well for maintenance. Rehabilitation would include the installation of a dual auger system and mechanical bar screen to minimize trash accumulation. Electrical upgrades would include a new pump control panel with solid state soft start starters to ease the startup load on the generator, submersible pressure transducer with float backups to provide continuous analog level signal, and a new hooded rack to mount all NEMA 4-X stainless steel electrical gear outside the building to be in compliance with the National Electric Code for clearance and mounting height.

ITEM NO.	QTY.	UNIT	DESCRIPTION	UNIT PRICE	TOTAL COST
1	1	LS	Full rehabilitation of suction lift style lift station including all equipment and piping, controls, wet well, and site improvements	$ 220,000.00	$ 220,000.00
2	1	LS	Dual Auger System with Mechanical Bar Screen	$ 140,000.00	$ 140,000.00
3	1	LS	Submersible Transducer	$ 3,000.00	$ 3,000.00
4	1	LS	Stainless Steel Hooded Rack	$ 15,000.00	$ 15,000.00
5	1	LS	NEMA 4-X Stainless Steel Electrical Gear	$ 20,000.00	$ 20,000.00
6	1	LS	Pump Control Panel	$ 25,000.00	$ 25,000.00

Construction Subtotal	$ 423,000.00
Contingencies (10%)	$ 42,300.00
Legal & Administration	$ 2,500.00
Surveying, Engineering Design & Construction Administration	$ 75,000.00
Construction Observation	$ 30,000.00
Total Estimated Project Cost	$ 572,800.00

Beaufort, NC
Wastewater Asset Management Plan
Replacement of Lift Station #1
Preliminary Opinion of Probable Cost
October 2021

Project Description: This project involves replacement of the existing wet pit/dry pit style lift station constructed in 1969 and operating in excess of the normal life expectancy. Replacement with a submersible lift station would minimize potential for life and safety issues for maintenance personnel by removing the need to enter the confined dry pit via tripod and metal cable to access pumps. Electrical upgrades would include a new pump control panel with solid state soft start starters to ease the startup load on the generator, submersible pressure transducer with float backups to provide continuous analog level signal, and a new hooded rack to mount all NEMA 4-X stainless steel electrical gear.

ITEM NO.	QTY.	UNIT	DESCRIPTION	UNIT PRICE	TOTAL COST
1	1	LS	Full replacement with a submersible sewage lift station including all equipment and piping, controls, site improvements, and the demolition/abandonment of existing below ground wet pit/dry pit style lift station	$ 665,000.00	$ 665,000.00
2	1	LS	New Lift Station Electrical & Generator	$ 75,000.00	$ 75,000.00
3	1	LS	Submersible Transducer	$ 3,000.00	$ 3,000.00
4	1	LS	Stainless Steel Hooded Rack	$ 15,000.00	$ 15,000.00
5	1	LS	NEMA 4-X Stainless Steel Electrical Gear	$ 20,000.00	$ 20,000.00
6	1	LS	Pump Control Panel	$ 25,000.00	$ 25,000.00

Construction Subtotal	$ 803,000.00
Contingencies (10%)	$ 80,300.00
Legal & Administration	$ 2,500.00
Surveying, Engineering Design & Construction Administration	$ 120,000.00
Construction Observation	$ 65,000.00
Total Estimated Project Cost	$ 1,070,800.00

Beaufort, NC
Wastewater Asset Management Plan
Replacement of Lift Station #5
Preliminary Opinion of Probable Cost
October 2021

Project Description: This project involves replacement of the existing wet pit/dry pit style lift station constructed in 1969 and operating in excess of the normal life expectancy. Replacement with a submersible lift station would minimize potential for life and safety issues for maintenance personnel by removing the need to enter the confined dry pit via tripod and metal cable to access pumps. Electrical upgrades would include a new pump control panel with solid state soft start starters to ease the startup load on the generator, submersible pressure transducer with float backups to provide continuous analog level signal, and a new hooded rack to mount all NEMA 4-X stainless steel electrical gear.

ITEM NO.	QTY.	UNIT	DESCRIPTION	UNIT PRICE	TOTAL COST
1	1	LS	Full replacement with a submersible sewage lift station including all equipment and piping, controls, site improvements, and the demolition/abandonment of existing below ground wet pit/dry pit style lift station	$ 400,000.00	$ 400,000.00
2	1	LS	New Lift Station Electrical & Generator	$ 75,000.00	$ 75,000.00
3	1	LS	Submersible Transducer	$ 3,000.00	$ 3,000.00
4	1	LS	Stainless Steel Hooded Rack	$ 15,000.00	$ 15,000.00
5	1	LS	NEMA 4-X Stainless Steel Electrical Gear	$ 20,000.00	$ 20,000.00
6	1	LS	Pump Control Panel	$ 25,000.00	$ 25,000.00

Construction Subtotal	$ 538,000.00
Contingencies (10%)	$ 53,800.00
Legal & Administration	$ 2,500.00
Surveying, Engineering Design & Construction Administration	$ 80,000.00
Construction Observation	$ 40,000.00
Total Estimated Project Cost	$ 714,300.00

Beaufort, NC
Wastewater Asset Management Plan
Replacement of Lift Station #2
Preliminary Opinion of Probable Cost
October 2021

Project Description: This project involves replacement of the existing wet pit/dry pit style lift station constructed in 1969 and operating in excess of the normal life expectancy. Replacement with a submersible lift station would minimize potential for life and safety issues for maintenance personnel by removing the need to enter the confined dry pit via tripod and metal cable to access pumps. Electrical upgrades would include a new pump control panel with solid state soft start starters to ease the startup load on the generator, submersible pressure transducer with float backups to provide continuous analog level signal, and a new hooded rack to mount all NEMA 4-X stainless steel electrical gear.

ITEM NO.	QTY.	UNIT	DESCRIPTION	UNIT PRICE	TOTAL COST
1	1	LS	Full replacement with a submersible sewage lift station including all equipment and piping, controls, site improvements, and the demolition/abandonment of existing below ground wet pit/dry pit style lift station	$ 420,000.00	$ 420,000.00
2	1	LS	New Lift Station Electrical & Generator	$ 75,000.00	$ 75,000.00
3	1	LS	Submersible Transducer	$ 3,000.00	$ 3,000.00
4	1	LS	Stainless Steel Hooded Rack	$ 15,000.00	$ 15,000.00
5	1	LS	NEMA 4-X Stainless Steel Electrical Gear	$ 20,000.00	$ 20,000.00
6	1	LS	Pump Control Panel	$ 25,000.00	$ 25,000.00

Construction Subtotal	$ 558,000.00
Contingencies (10%)	$ 55,800.00
Legal & Administration	$ 2,500.00
Surveying, Engineering Design & Construction Administration	$ 90,000.00
Construction Observation	$ 50,000.00
Total Estimated Project Cost	$ 756,300.00

Beaufort, NC
Wastewater Asset Management Plan
Replacement of Lift Station #3
Preliminary Opinion of Probable Cost
October 2021

Project Description: This project involves replacement of the existing wet pit/dry pit style lift station constructed in 1969 and operating in excess of the normal life expectancy. Replacement with a submersible lift station would minimize potential for life and safety issues for maintenance personnel by removing the need to enter the confined dry pit via tripod and metal cable to access pumps. Electrical upgrades would include a new pump control panel with solid state soft start starters to ease the startup load on the generator, submersible pressure transducer with float backups to provide continuous analog level signal, and a new hooded rack to mount all NEMA 4-X stainless steel electrical gear.

ITEM NO.	QTY.	UNIT	DESCRIPTION	UNIT PRICE	TOTAL COST
1	1	LS	Full replacement with a submersible sewage lift station including all equipment and piping, controls, site improvements, and the demolition/abandonment of existing below ground wet pit/dry pit style lift station	$ 450,000.00	$ 450,000.00
2	1	LS	New Lift Station Electrical & Generator	$ 75,000.00	$ 75,000.00
3	1	LS	Submersible Transducer	$ 3,000.00	$ 3,000.00
4	1	LS	Stainless Steel Hooded Rack	$ 15,000.00	$ 15,000.00
5	1	LS	NEMA 4-X Stainless Steel Electrical Gear	$ 20,000.00	$ 20,000.00
6	1	LS	Pump Control Panel	$ 25,000.00	$ 25,000.00

Construction Subtotal	$ 588,000.00
Contingencies (10%)	$ 58,800.00
Legal & Administration	$ 2,500.00
Surveying, Engineering Design & Construction Administration	$ 110,000.00
Construction Observation	$ 55,000.00
Total Estimated Project Cost	$ 814,300.00

Beaufort, NC
Wastewater Asset Management Plan
Rehabilitate Lift Station #8
Preliminary Opinion of Probable Cost
October 2021

Project Description: This project involves rehabilitating the existing suction lift style lift station constructed in 1969 within a masonry building. Significant maintenance is required as this lift station is operating in excess of the normal life expectancy and many of the features no longer function such as the manual bar screen, stop gates, and power ventilation. As a result, the Town has to remove trash manually every other day. Additionally, the wet well is extremely pitted, the pumps are corroded, and the access ladder is severely corroded preventing safe access to the wet well for maintenance.Rehabilitation would include the installation of a dual auger system and mechanical bar screen to minimize trash accumulation. Electrical upgrades would include a new pump control panel with solid state soft start starters to ease the startup load on the generator, submersible pressure transducer with float backups to provide continuous analog level signal, and a new hooded rack to mount all NEMA 4-X stainless steel electrical gear outside the building to be in compliance with the National Electric Code for clearance and mounting height.

ITEM NO.	QTY.	UNIT	DESCRIPTION	UNIT PRICE	TOTAL COST
1	1	LS	Full rehabilitation of suction lift style lift station including all equipment and piping, controls, wet well, and site improvements	$ 220,000.00	$ 220,000.00
2	1	LS	Dual Auger System with Mechanical Bar Screen	$ 140,000.00	$ 140,000.00
3	1	LS	Submersible Transducer	$ 3,000.00	$ 3,000.00
4	1	LS	Stainless Steel Hooded Rack	$ 15,000.00	$ 15,000.00
5	1	LS	NEMA 4-X Stainless Steel Electrical Gear	$ 20,000.00	$ 20,000.00
6	1	LS	Pump Control Panel	$ 25,000.00	$ 25,000.00

Construction Subtotal	$ 423,000.00
Contingencies (10%)	$ 42,300.00
Legal & Administration	$ 2,500.00
Surveying, Engineering Design & Construction Administration	$ 75,000.00
Construction Observation	$ 30,000.00
Total Estimated Project Cost	$ 572,800.00

Beaufort, NC

Wastewater Asset Management Plan

Sanitary Sewer Rehabilitation

Preliminary Opinion of Probable Cost

October 2021

Description: The purpose of this project is to perform point repairs and apply CIPP to identified pipe segements to reduce inflow and infiltration. Services will be replaced for all sewer that is lined. Also manholes will either be replaced, rehabilitated, or have the ring and cover replaced.

ITEM NO.	QTY.	UNIT	DESCRIPTION	UNIT PRICE	TOTAL COST
1	1	LS	Mobilization (3%)	$ 76,797.90	$ 76,797.90
2	161	EA	4-inch Service Pipe, Fittings, Taps and Cleanouts	$ 4,000.00	$ 644,000.00
3	400	LF	Remove and Replace 6" Pipe with 8" Pipe	$ 300.00	$ 120,000.00
4	220	LF	Replace 8-inch Pipe	$ 300.00	$ 66,000.00
5	225	LF	Replace 10-inch Pipe	$ 320.00	$ 72,000.00
6	5675	LF	Line 8-inch Pipe	$ 50.00	$ 283,750.00
7	1628	LF	Line 10-inch Pipe	$ 60.00	$ 97,680.00
8	550	LF	Point Repair 8-inch Pipe	$ 1,200.00	$ 660,000.00
9	165	LF	Point Repair 10-inch Pipe	$ 1,500.00	$ 247,500.00
10	145	LF	Point Repair 12-inch Pipe	$ 1,800.00	$ 261,000.00
11	4	EA	Replace Manhole (0-6)	$ 7,000.00	$ 28,000.00
12	110	VF	Cementitous Manhole Liner	$ 500.00	$ 55,000.00
13	15	EA	Replace Manhole Ring and Cover	$ 1,000.00	$ 15,000.00
14	1	LS	Testing Allowance	$ 10,000.00	$ 10,000.00

ESTIMATED CONSTRUCTION COST	**$ 2,636,727.90**
CONTINGENCY @ 10%+/-	$ 263,672.79
TOTAL CONSTRUCTION	**$ 2,900,400.69**

Engineering (topo surveys, design, bid & construction phases)	$ 160,000.00
Inspection	$ 85,000.00
Perm./Temp. R/W Acquisition Allowance	$ 5,000.00
Grant/ Loan Adminstration	$ 28,000.00
TOTAL ESTIMATED PROJECT COST	**$ 3,178,400.69**

APPENDIX

K

10 Year CIP

Project Name	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	Total
1410 Front Street Stormwater Culvert	$ 28,000.00	181,000									$ 209,000.00
Boardwalk/Bulkhead Improvements		$ 35,000.00	$ 1,222,000.00								$ 1,257,000.00
Cedar Street Park	$ 542,000.00										$ 542,000.00
Cedar Street Utility Line Improvements											$ -
Fire Station 1 - Pumper Truck			$ 622,000.00								$ 622,000.00
Fire Station 2 - Living Quarters & Staffing	$ 180,000.00										$ 180,000.00
Fire Station 2 - Pumper Truck	$ 560,000.00										$ 560,000.00
Fire Watercraft				$ 200,000.00							$ 200,000.00
Police Department Bulding						$ 4,050,000.00					$ 4,050,000.00
Police Department Communications Upgrade	$ 180,000.00										$ 180,000.00
Public Works Facility							$ 2,077,000.00				$ 2,077,000.00
Public Works Sweeper Truck		$ 200,000.00									$ 200,000.00
Randolph Johnson Park								$ 3,005,000.00			$ 3,005,000.00
Sewer Lift Station #1 Replacement*			$ 120,000.00	$ 950,800.00							$ 1,070,800.00
Sewer Lift Station #7 Replacement*	$ 90,000.00	$ 666,300.00									$ 756,300.00
Street and Pedestrian Improvements											$ -
Utility Line, Stormwater, & Street Improvements	$ 1,602,070.00	$ 11,034,390.00	$ 11,228,590.00	$ 6,782,800.00							$ 30,647,850.00
Vehicle Replacement Program	$ 385,348.00	$ 200,000.00	$ 350,000.00	$ 200,000.00	$ 60,000.00						$ 1,195,348.00
Water Treatment Plant	$ 530,000.00										$ 530,000.00
Rehabilitate Sewer Lift Station #6		$ 75,000.00	$ 497,800.00								$ 572,800.00
Sewer Lift Station #5 Replacement				$ 80,000.00	$ 634,300.00						$ 714,300.00
Sewer Lift Station #2 Replacement						$ 90,000.00	$ 666,300.00				$ 756,300.00
Sewer Lift Station #3 Replacement							$ 110,000.00	$ 704,300.00			$ 814,300.00
Rehabilitate Sewer Lift Station #8								$ 75,000.00	$ 497,800.00		$ 572,800.00
SSES Phase 2 Rehabilitation										$ 3,178,400.69	$ 3,178,400.69
Total	**$ 4,097,418.00**	**$ 12,391,690.00**	**$ 14,040,390.00**	**$ 8,213,600.00**	**$ 694,300.00**	**$ 4,140,000.00**	**$ 2,853,300.00**	**$ 3,784,300.00**	**$ 497,800.00**	**$ 3,178,400.69**	**$ 53,891,198.69**

Note: Projects developed as a result of the AIA project are shown in **bold**, other projects are unchanged from most recent Town of Beaufort 2022 5-year CIP.
*: Indicates fiscal year and/or cost of project is different than the most recent Town of Beaufort 2022 5-year CIP

Town of Beaufort, NC

701 Front St. - P.O. Box 390 - Beaufort, N.C. 28516
252-728-2141 - 252-728-3982 fax - www.beaufortnc.org

Board of Commissioners
Virtual Work Session
4:00 PM – Monday, Jan. 24, 2022

AGENDA CATEGORY: Items for Discussion and Consideration

SUBJECT: Delinquent Utility Accounts

REQUESTED ACTION: Review account information and provide staff with direction on resuming late fees, cutoffs, and payment arrangements.

BRIEF SUMMARY:

On March 10, 2020, Governor Cooper signed Executive Order 124 prohibiting utility account cutoffs for non-payments. The Governor then signed Executive Order 142 on May 30, 2020, extending the moratorium on utility cutoffs which was later extended to July 31, 2020. Upon expiration of the moratorium on July 31, 2020, local governments were required to offer a six (6) month payment plan for past due balances before utility customers could be disconnected for non-payment.

The Town has continued to generate, post and mail utility bills as normal throughout the pandemic, without levying any late fees on past due amounts. Each utility bill shows the customers current amount due and the total past due amount. In order to encourage our customers to pay their utility bills, the staff has published several notices in the Town newsletter urging residents to call and setup payment plans. While the Town has also provided information to customers on the HOPE program and the Low Income Housing Water Assistance Program (LIHWAP) to those who may qualify for financial assistance, no one has been cutoff due to their failure to setup a payment plan or make a utility payment.

As of January 19, 2022 there are 160 accounts, totaling $118,309, on the cutoff list. See attached table.

This is an example of the usage and billing process/timeline.

- Water used in September
- Bill date is October
- Bill is received November 1st
- Bill is due November 20th
- Balances not paid by November 20th, receive a late fee (10% of the current bill amount)
- Account is subject to cutoff if payment isn't received before the December cutoff date (45 days after the billing cycle, last day of the month)

Account Balances on this report range from $25.00 to $5,939, average is $744.00

Staff suggest that the Board consider resuming late fees and cutoffs, after a 30-day notice is given on the bills and in the newsletter. The Finance Department will work with residents to

establish payment plans as requested. Payment plans will be over a 12-month period or less, as applicable.

EXPECTED LENGTH OF PRESENTATION: 5 mins

SUBMITTED BY: Christi Wood- Finance Director

BUDGET AMENDMENT REQUIRED: NO

Town of Beaufort Delinquent Utility Accounts as of January 19, 2022							
Last Payment Date	**# of Months in Arrears**	**# of Residential Accounts**	**Residential Delinquent Amount**	**# of Commercial Accounts**	**Commercial Delinquent Amount**	**Total # of Accounts**	**Total Delinquent Amount**
03/23/2020 or before	22	17	$42,936	1	$4,657	18	$47,593
06/01/20-12/31/20	12 to 18	12	$10,650	0	$0	12	$10,650
01/01/21-6/30/21	7 to 12	11	$14,710	0	$0	11	$14,710
07/01/21-12/30/21	1 to 6	105	$31,066	1	$5,940	106	$37,006
01/03/21-01/18/21	less than 1	13	$8,348	0	$0	13	$8,348
Total		**158**	**$107,710**	**2**	**$10,597**	**160**	**$118,307**

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TOWN OF BEAUFORT

Statement of Revenue and Expenditures - Operating

1/19/2022
10:20 AM

Revenue Account Range: First to Last *Include Non-Anticipated: Yes* *Year To Date As Of: 12/31/21*

Expend Account Range: First to Last *Include Non-Budget: No* *Current Period: 12/01/21 to 12/31/21*

Print Zero YTD Activity: No *Prior Year: 12/01/20 to 12/31/20*

Revenue Account	Description	Prior Yr Rev	Anticipated	Curr Rev	YTD Rev	Excess/Deficit	% Real
10-301-0000	AD VALOREM TAX - CURRENT YEAR	$4,708,340.17	$4,835,580.00	$0.00	$1,428,818.36	-$3,406,761.64	30%
10-301-0001	AD VALOREM TAX PRIOR YEAR	$76,907.28	$70,000.00	$0.00	$57,798.14	-$12,201.86	83%
10-301-0002	PENALTIES AND INTEREST	$21,993.56	$10,000.00	$0.00	$7,138.54	-$2,861.46	71%
10-301-0003	AD VALOREM TAX - CORP. TAX	$0.00	$0.00	$0.00	$547.48	$547.48	0%
10-301-0004	MOTOR VEHICLE TAX	$215,678.89	$200,000.00	$0.00	$117,539.97	-$82,460.03	59%
10-301-0006	PAYMENT IN LIEU OF TAXES	$5,903.86	$6,000.00	$0.00	$22,332.73	$16,332.73	372%
10-303-0001	LOCAL OPTION SALES TAX	$2,144,525.10	$1,742,200.00	$205,781.70	$651,274.68	-$1,090,925.32	37%
10-303-0002	UTILITIES FRANCHISE TAX	$380,180.52	$380,000.00	$120,255.95	$200,646.12	-$179,353.88	53%
10-303-0003	BEER AND WINE TAX	$17,879.79	$18,200.00	$0.00	$0.00	-$18,200.00	0%
10-303-0004	POWELL BILL	$113,553.99	$120,000.00	$79,209.97	$137,385.56	$17,385.56	114%
10-303-0012	GRANT FROM NC NATURAL & CULTURAL RES.	$0.00	$0.00	$0.00	$0.00	$0.00	0%
10-303-0014	FEMA MITIGATION GRANT	$0.00	$84,650.00	$0.00	$0.00	-$84,650.00	0%
10-303-0015	FEMA HURRICANE REIMBURSEMENT	$88,591.02	$0.00	$0.00	$0.00	$0.00	0%
10-303-0016	GRANTS - SRO, CAD, School Safety	$66,494.93	$168,000.00	$0.00	$21,649.98	-$146,350.02	13%
10-303-0019	CARES RELIEF FUNDS	$94,768.00	$0.00	$0.00	$0.00	$0.00	0%
10-304-0001	COUNTY ABC PROFIT DISTRIBUTION	$227,930.00	$171,700.00	$0.00	$76,063.00	-$95,637.00	44%
10-304-0002	FIRE DISTRICT AD VALOREM TAX	$334,081.08	$800,105.00	$50,015.83	$500,094.98	-$300,010.02	63%
10-304-0003	FIRE DISTRICT SALES TAX	$105,000.00	$130,000.00	$10,833.33	$64,999.98	-$65,000.02	50%
10-304-0004	HARLOWE DIST AD VALOREM TAX	$68,093.40	$67,954.00	$5,674.58	$34,047.48	-$33,906.52	50%
10-304-0005	HARLOWE FIRE DISTRCIT SALES TAX	$20,032.44	$20,033.00	$1,669.33	$10,015.98	-$10,017.02	50%
10-304-0020	MISC REVENUE-FIRE DEPARTMENT	$2,001.00	$0.00	$0.00	$600.00	$600.00	0%
10-305-0001	SOLID WASTE USER FEE (RES)	$556,677.80	$576,100.00	$49,507.42	$295,234.84	-$280,865.16	51%
10-305-0002	SOLID WASTE USER FEES (COMM)	$13,200.21	$13,770.00	$1,167.03	$6,912.20	-$6,857.80	50%
10-305-0003	STORMWATER RESIDENTIAL	$141,739.95	$136,000.00	$0.00	$39,859.81	-$96,140.19	29%
10-305-0004	SOLID WASTE USER FEE -WBD	$33,562.33	$35,700.00	$3,353.34	$19,368.91	-$16,331.09	54%

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TOWN OF BEAUFORT

Statement of Revenue and Expenditures - Operating

Revenue Account	Description	Prior Yr Rev	Anticipated	Curr Rev	YTD Rev	Excess/Deficit	% Real
10-305-0005	BUILDING PERMITS	$316,037.22	$180,000.00	$20,329.80	$144,243.44	-$35,756.56	80%
10-305-0006	PARKING METER	$90,710.39	$180,000.00	$0.00	$118,631.37	-$61,368.63	66%
10-305-0007	PARKING VIOLATIONS/PENALTIES	$4,135.95	$20,000.00	$1,080.00	$5,814.00	-$14,186.00	29%
10-305-0008	COURT COSTS, FEES, CHARGES	$843.00	$750.00	$172.00	$1,110.00	$360.00	148%
10-305-0009	ROAD RACE REGISTRATION	$0.00	$2,500.00	$0.00	$0.00	-$2,500.00	0%
10-305-0011	SPECIAL EVENT FEES	$4,450.00	$0.00	$0.00	$440.00	$440.00	0%
10-305-0012	SPECIAL EVENT PARKING FEES	$1,350.00	$0.00	$0.00	$0.00	$0.00	0%
10-305-0013	TRAIN DEPOT RENTAL	$10.00	$0.00	$0.00	$145.00	$145.00	0%
10-306-0001	PROPERTY LEASES	$225,536.98	$228,490.00	$20,698.80	$124,178.56	-$104,311.44	54%
10-306-0002	ANTENNA CONTRACT REVENUE	$68,876.90	$69,900.00	$0.00	$44,105.37	-$25,794.63	63%
)-306-0003	CEMETERY LOT SALES	$6,057.12	$3,500.00	-$1,450.00	$3,857.34	$357.34	110%
)-306-0005	SALE OF PROPERTY	$13,600.00	$0.00	$0.00	$0.00	$0.00	0%
10-306-0006	SALE OF SURPLUS PROPERTY	$2,915.00	$0.00	$0.00	$0.00	$0.00	0%
10-306-0010	SURETY BOND	-$7,840.00	$0.00	$0.00	$3,000.00	$3,000.00	0%
10-307-0001	INVESTMENT EARNINGS	$3,606.52	$10,000.00	$182.36	$964.15	-$9,035.85	10%
10-307-0002	MISCELLANEOUS REVENUE	$27,133.94	$2,700.00	$850.00	$4,810.00	$2,110.00	178%
10-307-0003	MISCELLANEOUS REVENUE - PD	$4,395.00	$0.00	$0.00	$3,289.00	$3,289.00	0%
10-307-0007	PROCEEDS FROM LOAN	$0.00	$360,000.00	$0.00	$360,000.00	$0.00	100%
10-307-0008	REIMBURSEMENT FROM INSURANCE	$2,817.34	$0.00	$0.00	$3,157.56	$3,157.56	0%
10-307-0009	APPROPRIATED FUND BALANCE	$0.00	$279,540.00	$0.00	$0.00	-$279,540.00	0%
10-307-0010	UTILITY FUND ADMIN EXPENSE ALLOCATION	$600,000.00	$624,000.00	$0.00	$0.00	-$624,000.00	0%
10-329-0065	TRANSFER FROM CRF	$0.00	$207,000.00	$0.00	$0.00	-$207,000.00	0%
10-900-9000	cancel revenue	$174.08	$0.00	$106.41	$106.41	$106.41	0%
	General Fund Revenue Total	**$10,801,944.76**	**$11,754,372.00**	**$569,437.85**	**$4,510,180.94**	**-$7,244,191.06**	**38%**

Expend Account	Description	Prior Yr Expd	Budgeted	Curr Expd	YTD Expd	Encumbered	Balance	% Expd
10-410-0000	GOVERNING BODY:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	0

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10-410-0200 SALARIES AND WAGES $47,226.00 $48,170.52 $4,066.22 $24,127.28 $0.00 $24,043.24 50%

TOWN OF BEAUFORT

Statement of Revenue and Expenditures - Operating

Expend Account	*Description*	*Prior Yr Expd*	*Budgeted*	*Curr Expd*	*YTD Expd*	*Encumbered*	*Balance*	*% Expd*
10-410-0500	FICA	$3,612.48	$3,853.64	$311.05	$1,846.40	$0.00	$2,007.24	48%
10-410-0800	WORKERS COMPENSATION	$142.00	$152.08	$0.00	$142.00	$0.00	$10.08	93%
10-410-1130	POSTAGE	$32.70	$0.00	$0.00	$0.00	$0.00	$0.00	0%
10-410-1140	PUBLIC NOTICES/ADVERTISING	$4,069.93	$4,590.00	$323.76	$1,573.45	$0.00	$3,016.55	34%
10-410-1141	NEWSLETTER	$4,061.99	$4,080.00	$0.00	$1,761.52	$0.00	$2,318.48	43%
10-410-1210	OFFICE SUPPLIES	$105.06	$1,020.00	$672.53	$706.73	$0.00	$313.27	69%
10-410-1250	DUES & SUBSCRIPTIONS	$9,978.71	$11,526.00	$0.00	$9,267.12	$0.00	$2,258.88	80%
10-410-1430	TRAINING- REGISTRATION & CLASS MAT	$8,291.25	$5,100.00	$0.00	$226.56	$0.00	$4,873.44	4%
10-410-1431	TRAVEL MILEAGE	$0.00	$765.00	$0.00	$0.00	$0.00	$765.00	0%
10-410-1432	MEALS	$0.00	$1,530.00	$0.00	$0.00	$0.00	$1,530.00	0%
10-410-1433	LODGING	$0.00	$2,040.00	$0.00	$0.00	$0.00	$2,040.00	0%
10-410-4520	CODIFICATION	$2,773.92	$2,550.00	$0.00	$2,518.80	$0.00	$31.20	99%
10-410-5400	INSURANCE	$3,500.00	$4,062.00	$0.00	$0.00	$0.00	$4,062.00	0%
10-410-5720	ELECTIONS	$0.00	$8,287.00	$0.00	$8,282.74	$0.00	$4.26	100%
	410 Total	**$83,794.04**	**$97,726.24**	**$5,373.57**	**$50,462.60**	**$0.00**	**$47,263.64**	**52%**
10-420-0000	ADMINISTRATION:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	0%
10-420-0200	SALARIES AND WAGES	$262,517.14	$358,232.00	$38,949.37	$175,569.74	$0.00	$182,662.26	49%
10-420-0500	FICA EXPENSE	$19,784.56	$28,659.00	$2,898.28	$12,970.20	$0.00	$15,688.80	45%
10-420-0600	GROUP INSURANCE EXPENSE	$19,919.46	$29,587.00	$1,757.58	$9,922.30	$0.00	$19,664.70	34%
10-420-0700	RETIREMENT EXPENSE	$40,384.81	$58,786.00	$5,999.93	$26,731.84	$0.00	$32,054.16	45%
10-420-0800	WORKERS COMPENSATION	$1,804.30	$2,301.00	$0.00	-$391.46	$0.00	$2,692.46	-17%
10-420-0900	UNEMPLOYMENT INSURANCE EXPENSE	$7,137.71	$7,140.00	$2,316.07	$2,316.07	$0.00	$4,823.93	32%
10-420-1110	TELEPHONE	$4,618.66	$7,524.00	$1,860.27	$4,758.89	$0.00	$2,765.11	63%
10-420-1120	INTERNET/CABLE	$6,883.46	$7,038.00	$570.44	$2,852.70	$0.00	$4,185.30	41%
10-420-1130	POSTAGE	$2,810.49	$3,060.00	$0.00	$1,557.46	$0.00	$1,502.54	51%
10-420-1210	OFFICE SUPPLIES	$12,545.86	$15,435.00	$276.25	$8,767.17	$0.00	$6,667.83	57%
10-420-1220	OFFICE EQUIPMENT (NON-CAPITAL)	$0.00		$21.35	$1,846.76	$0.00	$3,714.24	33%

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10-420-1221	OFFICE EQUIPMENT LEASES	$5,827.00	$7,956.00	$521.76	$3,243.01	$0.00	$4,712.99	41%

TOWN OF BEAUFORT

Statement of Revenue and Expenditures - Operating

Expend Account	*Description*	*Prior Yr Expd*	*Budgeted*	*Curr Expd*	*YTD Expd*	*Encumbered*	*Balance*	*% Expd*
10-420-1230	OFFICE CONTRACT SERVICES	$4,909.45	$6,120.00	$519.44	$2,859.35	$163.28	$3,097.37	49%
10-420-1250	DUES AND SUBSCRIPTIONS	$2,611.44	$4,400.00	$420.00	$1,543.65	$0.00	$2,856.35	35%
10-420-1310	ELECTRIC	$12,252.38	$17,136.00	$1,903.69	$6,733.85	$0.00	$10,402.15	39%
10-420-1330	WATER/SEWER/SOLID WASTE	$1,921.43	$3,264.00	$382.25	$1,979.07	$0.00	$1,284.93	61%
10-420-1430	TRAINING-REGISTRATION & CLASS MAT'	$3,089.62	$5,210.00	$0.00	$4,220.43	$0.00	$989.57	81%
10-420-1431	TRAVEL MILEAGE	$0.00	$2,470.00	$0.00	$0.00	$0.00	$2,470.00	0%
10-420-1432	MEALS	$0.00	$1,465.00	$0.00	$484.21	$0.00	$980.79	33%
10-420-1433	LODGING	$0.00	$4,750.00	$0.00	$0.00	$0.00	$4,750.00	0%
10-420-1630	EQUIPMENT MAINT. & REPAIRS	$0.00	$102.00	$0.00	$0.00	$0.00	$102.00	0%
10-420-5400	INSURANCE	$51,302.60	$59,988.00	$0.00	$59,987.60	$0.00	$0.40	100%
	420 Total	**$460,320.37**	**$636,184.00**	**$58,396.68**	**$327,952.84**	**$163.28**	**$308,067.88**	**52%**
10-430-0000	FINANCE:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	0%
10-430-0200	SALARIES AND WAGES	$259,623.71	$275,264.00	$33,026.06	$143,659.29	$0.00	$131,604.71	52%
10-430-0201	OVERTIME	$7.83	$0.00	$0.00	$0.00	$0.00	$0.00	0%
10-430-0500	FICA EXPENSE	$18,549.11	$22,023.00	$2,400.75	$10,347.60	$0.00	$11,675.40	47%
10-430-0600	GROUP INSURANCE EXPENSE	$32,055.81	$36,983.00	$2,932.22	$15,211.20	$0.00	$21,771.80	41%
10-430-0700	RETIREMENT EXPENSE	$39,292.98	$45,176.00	$5,409.74	$23,535.14	$0.00	$21,640.86	52%
10-430-0800	WORKERS COMPENSATION	$1,210.00	$1,213.00	$0.00	$1,110.00	$0.00	$103.00	92%
10-430-1230	OFFICE CONTRACT SERVICES	$29,028.50	$29,580.00	$823.00	$14,057.99	$36.27	$15,485.74	48%
10-430-1250	DUES & SUBSCRIPTIONS	$226.84	$408.00	$31.38	$130.39	$0.00	$277.61	32%
10-430-1430	TRAINING-REGISTRATION & CLASS MATE	$3,625.00	$2,000.00	$0.00	$20.00	$0.00	$1,980.00	1%
10-430-1431	TRAVEL MILEAGE	$0.00	$1,020.00	$0.00	$0.00	$0.00	$1,020.00	0%
10-430-1432	MEALS	$0.00	$612.00	$0.00	$0.00	$0.00	$612.00	0%
10-430-1433	LODGING	$0.00	$1,938.00	$0.00	$0.00	$0.00	$1,938.00	0%
10-430-1630	EQUIPMENT MAINT & REPAIRS	$0.00	$510.00	$0.00	$0.00	$0.00	$510.00	0%
10-430-4510	PROFESSIONAL SERVICES	$18,954.20	$20,400.00	$0.00	$14,000.00	$0.00	$6,400.00	69%

10-430-4520	TAX COLLECTION ADMIN EXPENSE PROP.	$98,659.86	$96,925.00	$0.00	$30,648.44	$0.00	$66,276.56	32%
10-430-4525	TAX COLLECTION ADMIN EXPENSE MVT	$11,445.01	$10,800.00	$0.00	$6,064.29	$0.00	$4,735.71	56%

TOWN OF BEAUFORT

Statement of Revenue and Expenditures - Operating

Expend Account	*Description*	*Prior Yr Expd*	*Budgeted*	*Curr Expd*	*YTD Expd*	*Encumbered*	*Balance*	*% Expd*
	430 Total	**$512,678.85**	**$544,852.00**	**$44,623.15**	**$258,784.34**	**$36.27**	**$286,031.39**	**48%**
10-450-0000	PARKING DEPARTMENT:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	0%
10-450-0200	SALARIES AND WAGES	$17,313.89	$37,467.00	$2,835.51	$29,187.06	$0.00	$8,279.94	78%
10-450-0201	OVERTIME	$498.75	$2,080.00	$90.63	$850.45	$0.00	$1,229.55	41%
10-450-0205	OTHER SALARIES - PART TIME	$0.00	$14,085.00	$0.00	$0.00	$0.00	$14,085.00	0%
10-450-0500	FICA EXPENSE	$1,095.49	$4,314.00	$223.86	$2,297.95	$0.00	$2,016.05	53%
10-450-0600	GROUP INSURANCE	$1,171.44	$7,397.00	$0.00	$0.00	$0.00	$7,397.00	0%
10-450-0700	RETIREMENT EXPENSE	$1,109.73	$6,503.00	$333.87	$333.87	$0.00	$6,169.13	5%
10-450-0800	WORKERS COMPENSATION	$1,343.00	$1,439.00	$0.00	$1,343.00	$0.00	$96.00	93%
10-450-1210	OFFICE SUPPLIES	$1,115.47	$2,040.00	$0.00	$180.00	$0.00	$1,860.00	9%
10-450-1230	OFFICE CONTRACT SERVICES - SOFTWARE	$10,944.00	$12,387.00	$6,642.70	$11,202.70	$0.00	$1,184.30	90%
10-450-1430	TRAINING -REGISTRATION AND CLASS MAT'L	$0.00	$1,071.00	$0.00	$0.00	$0.00	$1,071.00	0%
10-450-1431	TRAVEL MILEAGE	$0.00	$408.00	$0.00	$0.00	$0.00	$408.00	0%
10-450-1432	MEALS	$0.00	$306.00	$0.00	$0.00	$0.00	$306.00	0%
10-450-1433	LODGING	$0.00	$816.00	$0.00	$0.00	$0.00	$816.00	0%
10-450-1620	EQUIPMENT RENTAL - HANDHELDS	$440.00	$1,734.00	$100.00	$1,327.50	$0.00	$406.50	77%
10-450-1630	EQUIPMENT MAINTENANCE AND REPAIRS	$2,111.15	$3,060.00	$0.00	$1,414.48	$0.00	$1,645.52	46%
10-450-3901	PARKING METER CREDIT CARD PROCESSING	$2,132.77	$22,440.00	$34.99	$18,469.01	$0.00	$3,970.99	82%
10-450-3902	COLLECTION FEES	$0.00	$2,040.00	$0.00	$294.70	$0.00	$1,745.30	14%
10-450-4550	CONTRACT SERVICES	$0.00	$3,060.00	$0.00	$0.00	$0.00	$3,060.00	0%
10-450-5730	CONTINGENCY	$0.00	$13,260.00	$0.00	$0.00	$0.00	$13,260.00	0%
10-450-8010	DEBT SERVICE - PRINCIPAL	$7,640.04	$8,192.64	$0.00	$0.00	$0.00	$8,192.64	0%
10-450-8011	DEBT SERVICE - INTEREST	$1,163.32	$610.68	$0.00	$0.00	$0.00	$610.68	0%
	450 Total	**$48,079.05**	**$144,710.32**	**$10,261.56**	**$66,900.72**	**$0.00**	**$77,809.60**	**46%**
10-510-0000	POLICE DEPARTMENT:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	0%

10-510-0200	SALARIES AND WAGES	$1,031,915.43	$1,071,758.00	$128,951.71	$564,179.51	$0.00	$507,578.49	53%
10-510-0201	OVERTIME	$26,948.12	$30,600.00	$4,228.41	$17,422.14	$0.00	$13,177.86	57%
10-510-0203	SEPARATION PAY	$42,342.40	$41,400.00	$4,324.72	$23,944.43	$0.00	$17,455.57	58%

TOWN OF BEAUFORT

Statement of Revenue and Expenditures - Operating

Expend Account	*Description*	*Prior Yr Expd*	*Budgeted*	*Curr Expd*	*YTD Expd*	*Encumbered*	*Balance*	*% Expd*
10-510-0205	OTHER SALARIES-PARTTIME	$2,926.23	$16,830.00	$84.55	$992.51	$0.00	$15,837.49	6%
10-510-0500	FICA EXPENSE	$81,293.46	$92,944.00	$10,293.91	$45,067.24	$0.00	$47,876.76	48%
10-510-0600	GROUP INSURANCE EXPENSE	$130,043.91	$140,537.00	$11,139.12	$64,218.89	$0.00	$76,318.11	46%
10-510-0700	RETIREMENT EXPENSE	$165,591.85	$187,609.00	$22,383.76	$98,457.49	$0.00	$89,151.51	52%
10-510-0800	WORKERS COMPENSATION	$41,466.72	$42,776.00	$753.48	$42,553.48	$0.00	$222.52	99%
10-510-1110	TELEPHONE	$3,901.26	$6,500.00	$721.42	$3,176.37	$0.00	$3,323.63	49%
10-510-1111	TELEPHONE-CELLULAR	$9,846.76	$11,300.00	$1,697.73	$5,096.66	$0.00	$6,203.34	45%
10-510-1120	INTERNET/CABLE	$5,305.66	$6,200.00	$465.90	$2,328.63	$63.57	$3,807.80	39%
10-510-1130	POSTAGE	$603.15	$750.00	$12.00	$136.50	$0.00	$613.50	18%
10-510-1210	OFFICE SUPPLIES	$2,232.59	$2,500.00	$0.00	$1,339.58	$76.48	$1,083.94	57%
10-510-1220	OFFICE EQUIPMENT (NON-CAPITAL)	$1,424.99	$2,000.00	$0.00	$580.68	$0.00	$1,419.32	29%
10-510-1221	OFFICE EQUIPMENT LEASES	$5,706.55	$4,200.00	$349.25	$2,449.53	$0.00	$1,750.47	58%
10-510-1230	OFFICE CONTRACT SERVICES	$31,734.72	$31,870.00	$1,001.53	$17,813.38	$2,511.29	$11,545.33	64%
10-510-1250	DUES AND SUBSCRIPTIONS	$801.31	$2,500.00	$247.07	$431.88	$244.41	$1,823.71	27%
10-510-1260	MISC. ADMIN. EXPENSE	$20.50	$500.00	$0.00	$0.00	$0.00	$500.00	0%
10-510-1310	ELECTRIC	$6,730.00	$6,300.00	$924.10	$3,338.02	$0.00	$2,961.98	53%
10-510-1330	WATER/SEWER/SOLID WASTE	$3,353.36	$3,500.00	$239.36	$1,176.90	$0.00	$2,323.10	34%
10-510-1420	OSHA/SAFETY COMPLIANE	$625.02	$1,336.00	$0.00	$65.76	$0.00	$1,270.24	5%
10-510-1430	TRAINING- REGISTRATION &CLASS MAT'	$5,451.75	$12,000.00	$3,385.13	$4,120.59	$0.00	$7,879.41	34%
10-510-1431	TRAVEL MILEAGE	$0.00	$500.00	$0.00	$0.00	$0.00	$500.00	0%
10-510-1432	MEALS	$2,091.37	$3,500.00	$156.13	$1,471.26	$244.43	$1,784.31	49%
10-510-1433	LODGING	$2,026.07	$4,000.00	$0.00	$1,094.65	$0.00	$2,905.35	27%
10-510-1440	UNIFORMS	$7,624.90	$15,000.00	$237.66	$10,369.75	$333.05	$4,297.20	71%
10-510-1451	EMPLOYEE WELLNESS	$9,499.00	$11,800.00	$473.00	$3,328.00	$0.00	$8,472.00	28%

10-510-1610	NON-CAPITAL EQUIPMENT PURCHASE	$70,366.46	$25,000.00	$0.00	$9,160.27	$160.12	$15,679.61	37%
10-510-1630	EQUIPMENT MAINT. & REPAIRS	$4,054.69	$4,000.00	$0.00	$1,022.92	$0.00	$2,977.08	26%
10-510-1710	AUTO FUEL	$24,497.75	$37,000.00	$3,085.44	$16,683.99	$0.00	$20,316.01	45%
10-510-1730	VEHICLE MAINT. & REPAIRS	$8,737.26	$15,000.00	$1,138.49	$10,003.96	$1,964.59	$3,031.45	80%

TOWN OF BEAUFORT

Statement of Revenue and Expenditures - Operating

Expend Account	*Description*	*Prior Yr Expd*	*Budgeted*	*Curr Expd*	*YTD Expd*	*Encumbered*	*Balance*	*% Expd*
10-510-3310	DEPARTMENT SUPPLIES & MATERIALS	$8,169.99	$21,600.00	$407.55	$8,011.16	$6,998.33	$6,590.51	69%
10-510-4510	PROFESSIONAL SERVICES	$0.00	$2,000.00	$0.00	$0.00	$0.00	$2,000.00	0%
10-510-4560	ABANDONED AND DERELICT VESSEL REMOVA	$4,380.15	$12,000.00	$0.00	$2,350.00	$0.00	$9,650.00	20%
10-510-4570	MARINE OPERATIONS	$2,016.96	$4,000.00	$0.00	$1,723.42	$0.00	$2,276.58	43%
10-510-5400	INSURANCE AND BONDS	$25,136.27	$26,438.00	$0.00	$26,438.00	$0.00	$0.00	100%
10-510-5791	CRIMINAL INVESTIGATION	$3,516.70	$10,000.00	$0.00	$348.79	$6.39	$9,644.82	4%
10-510-5793	CRIME PREVENTION	$2,012.39	$5,000.00	$0.00	$25.73	$1,667.49	$3,306.78	34%
10-510-7430	CAPITAL OUTLAY - VEHICLES	$127,728.78	$107,231.00	$0.00	$0.00	$107,231.01	-$0.01	100%
10-510-8010	DEBT SERVICE - PRINCIPAL	$16,594.00	$16,594.37	$0.00	$16,594.00	$0.00	$0.37	100%
10-510-8011	DEBT SERVICE - INTEREST	$662.25	$626.11	$0.00	$662.25	$0.00	-$36.14	106%
10-510-9020	GRANT EXPENDITURES	$43,350.44	$180,000.00	$0.00	$10,575.00	$0.00	$169,425.00	6%
	510 Total	**$1,962,731.17**	**$2,217,199.48**	**$196,701.42**	**$1,018,753.32**	**$121,501.16**	**$1,076,945.00**	**51%**
10-531-0000	FIRE DEPARTMENT:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	0%
10-531-0200	SALARIES & WAGES	$924,032.70	$965,079.91	$117,337.55	$528,474.11	$0.00	$436,605.80	55%
10-531-0201	OVERTIME	$18,995.77	$36,553.13	$2,575.94	$14,241.41	$0.00	$22,311.72	39%
10-531-0205	SALARIES-PARTIME/PRN	$40,501.83	$43,942.00	$4,809.80	$13,092.33	$0.00	$30,849.67	30%
10-531-0500	FICA EXPENSE	$72,701.06	$83,664.41	$9,329.20	$41,246.68	$0.00	$42,417.73	49%
10-531-0600	GROUP INSURANCE	$117,239.19	$132,670.00	$10,011.40	$60,022.69	$0.00	$72,647.31	45%
10-531-0700	RETIREMENT EXPENSE	$141,917.89	$164,505.54	$19,614.53	$88,865.14	$0.00	$75,640.40	54%
10-531-0701	FIREMAN'S PENSION FUND	$1,920.00	$2,160.00	$0.00	$0.00	$0.00	$2,160.00	0%
10-531-0800	WORKERS COMPENSATION	$50,946.00	$54,650.00	$0.00	$54,300.00	$0.00	$350.00	99%
10-531-1110	TELEPHONE	$4,741.50	$7,440.00	$1,236.06	$3,936.70	$0.00	$3,503.30	53%
10-531-1111	TELEPHONE- CELLULAR	$1,480.39	$2,550.00	$215.41	$671.53	$0.00	$1,878.47	26%

10-531-1120	INTERNET/CABLE	$4,214.49	$4,508.00	$399.88	$1,998.90	$0.00	$2,509.10	44%
10-531-1130	POSTAGE	$101.60	$204.00	$0.00	$16.85	$0.00	$187.15	8%
10-531-1210	OFFICE SUPPLIES	$667.91	$1,224.00	$0.00	$474.13	$0.00	$749.87	39%
10-531-1220	OFFICE EQUIPMENT (NON-CAPITAL)	$1,076.98	$4,530.00	$3,253.17	$4,441.15	$0.00	$88.85	98%
10-531-1221	OFFICE EQUIPMENT LEASES	$2,996.57	$3,090.00	$239.94	$1,683.39	$0.00	$1,406.61	54%

TOWN OF BEAUFORT

Statement of Revenue and Expenditures - Operating

Expend Account	*Description*	*Prior Yr Expd*	*Budgeted*	*Curr Expd*	*YTD Expd*	*Encumbered*	*Balance*	*% Expd*
10-531-1230	OFFICE CONTRACT SERVICES	$1,420.00	$1,703.00	$0.00	$2,128.00	$0.00	-$425.00	125%
10-531-1250	DUES & SUBSCRIPTIONS	$1,688.82	$2,090.00	$109.16	$154.16	$8.32	$1,927.52	8%
10-531-1310	ELECTRIC	$19,456.86	$23,929.00	$2,813.11	$10,004.96	$0.00	$13,924.04	42%
10-531-1320	LP GAS	$237.04	$510.00	$0.00	$90.95	$159.35	$259.70	49%
10-531-1330	WATER/SEWER/SOLID WASTE	$4,200.53	$4,865.00	$347.34	$1,832.63	$0.00	$3,032.37	38%
10-531-1420	OSHA/ SAFETY COMPLIANCE	$4,550.24	$13,558.00	$860.00	$7,907.17	$293.00	$5,357.83	60%
10-531-1421	SAFETY EQUIPMENT	$26,656.23	$26,620.00	$0.00	$200.69	$15,636.00	$10,783.31	59%
10-531-1422	SAFETY SUPPLIES & MATERIALS	$13,497.41	$3,060.00	$127.14	$379.89	$58.33	$2,621.78	14%
10-531-1430	TRAINING- REGIST & CLASS MATERIAL	$2,992.54	$5,610.00	$0.00	$1,932.10	$0.00	$3,677.90	34%
10-531-1431	MILEAGE	$952.86	$816.00	$0.00	$651.59	$0.00	$164.41	80%
10-531-1432	MEALS	$1,676.62	$2,754.00	$350.00	$601.34	$0.00	$2,152.66	22%
10-531-1433	LODGING	$2,391.13	$3,060.00	$736.17	$1,043.97	$0.00	$2,016.03	34%
10-531-1440	UNIFORMS	$15,171.42	$14,780.00	$3,170.97	$5,390.74	$0.00	$9,389.26	36%
10-531-1510	BUILDING MAINTENANCE	$4,094.44	$4,662.00	$312.14	$1,722.06	$138.78	$2,801.16	40%
10-531-1511	GROUND MAINT	$133.91	$3,570.00	$0.00	$681.41	$0.00	$2,888.59	19%
10-531-1512	JANITORIAL SUPPLIES	$2,083.97	$1,836.00	$105.06	$972.53	$0.00	$863.47	53%
10-531-1513	CONTRACTED SERVICES	$6,455.78	$8,670.00	$712.00	$2,431.50	$0.00	$6,238.50	28%
10-531-1610	NON-CAPITAL EQUIPMENT PURCHASE	$8,158.49	$20,090.00	$0.00	$853.00	$0.00	$19,237.00	4%
10-531-1630	EQUIPMENT MAINT & REPAIRS	$2,584.00	$15,912.00	$199.09	$974.98	$0.00	$14,937.02	6%
10-531-1710	AUTO FUEL	$11,328.18	$23,460.00	$1,469.03	$8,463.95	$0.00	$14,996.05	36%
10-531-1730	VEHICLE MAINT & REPAIRS	$31,558.20	$29,500.00	$5,280.35	$13,367.80	$500.00	$15,632.20	47%
10-531-3310	DEPARTMENT SUPPLIES & MATERIALS	$3,601.21	$9,180.00	$410.07	$3,127.09	$74.55	$5,978.36	35%

10-531-5400	INSURANCE & BONDS	$36,681.00	$37,500.00	$0.00	$38,730.00	$0.00	-$1,230.00	103%
10-531-7410	CAPITAL OUTLAY - BUILDINGS	$0.00	$180,000.00	$0.00	$0.00	$0.00	$180,000.00	0%
10-531-7420	CAPITAL OUTLAY - EQUIPMENT	$0.00	$50,435.00	$0.00	$0.00	$50,430.74	$4.26	100%
10-531-7430	CAPITAL OUTLAY- VEHICLES	$0.00	$560,000.00	$0.00	$200,000.00	$359,998.00	$2.00	100%
10-531-8010	DEBT SERVICE - PRINCIPAL	$255,437.00	$326,287.11	$0.00	$200,000.00	$0.00	$126,287.11	61%
10-531-8011	DEBT SERVICE - INTEREST	$95,790.32	$96,847.87	$31,825.01	$65,325.01	$0.00	$31,522.86	67%

Expend Account	*Description*	*Prior Yr Expd*	*Budgeted*	*Curr Expd*	*YTD Expd*	*Encumbered*	*Balance*	*% Expd*
10-531-9003	HURRICANE SUPPLIES & MATERIALS	$0.00	$0.00	-$2,577.52	$326.74	$0.00	-$326.74	0%
10-531-9010	COVID-19 RESPONSE	$5,276.12	$0.00	$589.01	$2,063.31	$1,577.69	-$3,641.00	0%
	531 Total	**$1,941,608.20**	**$2,978,075.97**	**$215,861.01**	**$1,384,822.58**	**$428,874.76**	**$1,164,378.63**	**61%**
10-540-0000	PLANNING & INSPECTIONS:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	0%
10-540-0200	SALARIES AND WAGES	$324,814.43	$328,030.00	$38,869.04	$174,642.39	$0.00	$153,387.61	53%
10-540-0201	OVERTIME	$1,243.47	$0.00	$448.63	$855.76	$0.00	-$855.76	0%
10-540-0500	FICA EXPENSE	$24,334.19	$26,323.00	$2,989.99	$13,312.75	$0.00	$13,010.25	51%
10-540-0600	GROUP INSURANCE EXPENSE	$35,316.45	$36,983.00	$2,929.30	$15,786.62	$0.00	$21,196.38	43%
10-540-0700	RETIREMENT EXPENSE	$48,883.21	$53,995.00	$6,420.00	$28,624.51	$0.00	$25,370.49	53%
10-540-0800	WORKERS COMPENSATION	$5,682.79	$6,183.00	$0.00	$5,733.00	$0.00	$450.00	93%
10-540-1230	OFFICE CONTRACT SERVICES	$0.00	$1,000.00	$0.00	$1,000.00	$18.14	-$18.14	102%
10-540-1250	DUES & SUBSCRIPTIONS	$2,642.42	$2,500.00	$215.69	$1,933.93	$0.00	$566.07	77%
10-540-1420	OSHA/SAFETY COMPLIANCE	$0.00	$300.00	$0.00	$114.88	$0.00	$185.12	38%
10-540-1430	TRAINING-REGISTRATION & CLASS MAT'	$2,675.00	$3,400.00	$115.00	$542.00	$0.00	$2,858.00	16%
10-540-1431	TRAVEL MILEAGE	$0.00	$500.00	$0.00	$0.00	$0.00	$500.00	0%
10-540-1432	MEALS	$0.00	$800.00	$0.00	$0.00	$0.00	$800.00	0%
10-540-1433	LODGING	$0.00	$2,400.00	$0.00	$0.00	$0.00	$2,400.00	0%
10-540-1610	NON-CAPITAL EQUIPMENT PURCHASE	$744.41	$2,000.00	$0.00	$0.00	$0.00	$2,000.00	0%
10-540-1710	AUTO FUEL	$495.84	$1,000.00	$20.66	$370.84	$0.00	$629.16	37%
10-540-1730	VEHICLE MAINT & REPAIRS	$1,164.05	$500.00	$0.00	$0.00	$0.00	$500.00	0%
10-540-1810	PERMITS & FEES RECURRING	$1,390.00	$2,000.00	$0.00	$400.00	$0.00	$1,600.00	20%

10-540-3510	HISTORIC COMM.EXPENSE	$0.00	$1,000.00	$0.00	$0.00	$0.00	$1,000.00	0%
10-540-3512	HISTORIC COMM-TRAVEL	$0.00	$1,800.00	$0.00	$0.00	$0.00	$1,800.00	0%
10-540-4510	PROFESSIONAL SERVICES	$99,900.25	$7,500.00	-$15,000.00	-$7,500.00	$0.00	$15,000.00	-100%
10-540-7420	CAPITAL OUTLAY-PROFESSIONAL SERVICES	$0.00	$95,100.00	$0.00	$28,170.00	$66,929.75	$0.25	100%
10-540-8010	DEBT SERVICE - PRINCIPAL	$4,840.00	$4,840.44	$0.00	$4,840.00	$0.00	$0.44	100%
10-540-8011	DEBT SERVICE - INTEREST	$183.00	$182.20	$0.00	$183.00	$0.00	-$0.80	100%
	540 Total	**$554,309.51**	**$578,336.64**	**$37,008.31**	**$269,009.68**	**$66,947.89**	**$242,379.07**	**58%**

TOWN OF BEAUFORT

Statement of Revenue and Expenditures - Operating

Expend Account	*Description*	*Prior Yr Expd*	*Budgeted*	*Curr Expd*	*YTD Expd*	*Encumbered*	*Balance*	*% Expd*
10-550-0000	PUBLIC SERVICE ADMINISTRATION:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	0%
10-550-0200	SALARIES AND WAGES	$211,860.14	$207,535.00	$25,071.73	$115,726.17	$0.00	$91,808.83	56%
10-550-0500	FICA EXPENSE	$14,367.64	$16,603.00	$1,827.92	$8,344.97	$0.00	$8,258.03	50%
-550-0600	GROUP INSURANCE EXPENSE	$13,540.86	$14,793.00	$1,173.66	$7,043.54	$0.00	$7,749.46	48%
-550-0700	RETIREMENT	$30,078.22	$34,056.00	$4,096.20	$18,882.39	$0.00	$15,173.61	55%
10-550-1230	OFFICE CONTRACT SERVICES	$5,126.45	$8,200.00	$0.00	$0.00	$0.00	$8,200.00	0%
10-550-1250	DUES AND SUBSCRIPTIONS	$181.37	$800.00	$31.38	$816.67	$36.27	-$52.94	107%
10-550-1420	OSHA/SAFETY COMPLIANCE	$0.00	$250.00	$0.00	$0.00	$0.00	$250.00	0%
10-550-1430	TRAINING - REGISTRATION & CLASS MATERIAL	$255.00	$1,000.00	$0.00	$199.00	$0.00	$801.00	20%
10-550-1431	TRAVEL MILEAGE	$0.00	$230.00	$0.00	$0.00	$0.00	$230.00	0%
10-550-1432	MEALS	$0.00	$225.00	$0.00	$0.00	$0.00	$225.00	0%
10-550-1433	LODGING	$0.00	$900.00	$0.00	$0.00	$0.00	$900.00	0%
10-550-1440	UNIFORMS	$0.00	$300.00	$0.00	$0.00	$0.00	$300.00	0%
10-550-1610	NON-CAPITAL EQUIPMENT PURCHASE	$1,568.89	$2,000.00	$0.00	$56.29	$0.00	$1,943.71	3%
10-550-1710	AUTO FUEL	$210.67	$500.00	$36.39	$179.54	$0.00	$320.46	36%
10-550-1730	VEHICLE MAINT. & REPAIRS	$146.40	$500.00	$0.00	$0.00	$0.00	$500.00	0%
10-550-4510	PROFESSIONAL SERVICES	$7,780.37	$15,000.00	$0.00	$0.00	$0.00	$15,000.00	0%
10-550-5730	CONTINGENCY	$0.00	$250.00	$0.00	$0.00	$0.00	$250.00	0%
	550 Total	**$285,116.01**	**$303,142.00**	**$32,237.28**	**$151,248.57**	**$36.27**	**$151,857.16**	**50%**
10-560-0000	PUBLIC WORKS:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	0%

10-560-0200	SALARIES AND WAGES	$513,572.68	$608,513.00	$60,493.87	$264,104.00	$0.00	$344,409.00	43%
10-560-0201	OVERTIME	$9,386.63	$5,202.00	$855.46	$5,542.32	$0.00	-$340.32	107%
10-560-0500	FICA EXPENSE	$38,204.34	$49,131.00	$4,448.20	$19,485.75	$0.00	$29,645.25	40%
10-560-0600	GROUP INSURANCE EXPENSE	$83,578.14	$103,554.00	$7,625.18	$38,611.96	$0.00	$64,942.04	37%
10-560-0700	RETIREMENT EXPENSE	$77,723.07	$98,701.00	$10,014.92	$43,945.77	$0.00	$54,755.23	45%
10-560-0800	WORKERS COMPENSATION	$20,545.29	$25,880.00	$0.00	$25,864.73	$0.00	$15.27	100%
10-560-1110	TELEPHONE	$2,629.44	$2,500.00	$375.95	$1,489.31	$0.00	$1,010.69	60%
10-560-1111	TELEPHONE- CELLULAR	$979.79	$1,000.00	$161.74	$486.84	$0.00	$513.16	49%

TOWN OF BEAUFORT

Statement of Revenue and Expenditures - Operating

Expend Account	*Description*	*Prior Yr Expd*	*Budgeted*	*Curr Expd*	*YTD Expd*	*Encumbered*	*Balance*	*% Expd*
10-560-1120	INTERNET\CABLE	$5,396.84	$4,900.00	$450.16	$2,250.80	$0.00	$2,649.20	46%
10-560-1130	POSTAGE	$5,269.71	$4,500.00	$0.00	$2,318.72	$0.00	$2,181.28	52%
10-560-1210	OFFICE SUPPLIES	$2,140.49	$2,100.00	$0.00	$677.04	$0.00	$1,422.96	32%
10-560-1220	OFFICE EQUIPMENT (NON-CAPITAL)	$53.73	$2,000.00	$0.00	$0.00	$0.00	$2,000.00	0%
10-560-1221	OFFICE EQUIPMENT LEASE	$3,338.47	$3,350.00	$266.30	$1,868.88	$0.00	$1,481.12	56%
10-560-1230	OFFICE CONTRACT SERVICES	$2,671.47	$2,421.69	$0.00	$954.94	$121.69	$1,345.06	44%
10-560-1250	DUES AND SUBSCRIPTIONS	$663.39	$800.00	$15.69	$245.99	$18.14	$535.87	33%
10-560-1310	ELECTRIC	$6,032.75	$7,000.00	$1,102.58	$3,913.32	$0.00	$3,086.68	56%
10-560-1320	LP GAS	$3,446.06	$3,000.00	$0.00	$299.85	$1,019.30	$1,680.85	44%
10-560-1330	WATER/SEWER/SOLID WASTE	$1,875.39	$2,727.61	$191.57	$1,148.40	$0.00	$1,579.21	42%
10-560-1420	OSHA/SAFETY COMPLIANCE	$3,170.84	$5,750.00	$0.00	$849.47	$235.16	$4,665.37	19%
10-560-1430	TRAINING -REGISTRATION & CLASS	$1,168.54	$3,250.00	$0.00	$482.50	$107.50	$2,660.00	18%
10-560-1431	TRAVEL MILEAGE	$0.00	$500.00	$0.00	$0.00	$0.00	$500.00	0%
10-560-1432	MEALS	$417.39	$750.00	$0.00	$399.07	$0.00	$350.93	53%
10-560-1433	LODGING	$0.00	$750.00	$0.00	$0.00	$0.00	$750.00	0%
10-560-1440	UNIFORMS	$5,970.87	$7,250.00	$508.49	$4,261.11	$0.00	$2,988.89	59%
10-560-1610	NON-CAPITAL EQUIPMENT PURCHASE	$18,167.92	$8,500.00	$0.00	$4,730.77	$0.00	$3,769.23	56%
10-560-1630	EQUIPMENT MAINT. & REPAIRS	$5,296.99	$10,500.00	$529.63	$1,327.52	$0.00	$9,172.48	13%
10-560-1710	AUTO FUEL	$11,623.96	$15,500.00	$1,386.53	$8,609.43	$0.00	$6,890.57	56%
10-560-1730	VEHICLE MAINT. & REPAIRS	$9,365.95		$439.59	$8,810.00	$0.00	$8,190.00	52%

10-560-1820	PERMITS & FEES - ONE TIME	$202.65	$500.00	$0.00	$0.00	$0.00	$500.00	0%
10-560-3310	DEPARTMENT SUPPLIES & MATERIAL	$3,306.31	$8,000.00	$175.97	$1,439.29	$0.00	$6,560.71	18%
10-560-3320	STREETSCAPING MATERIALS	$0.00	$74.58	$0.00	$0.00	$74.58	$0.00	100%
10-560-3811	STREET CONT. SERVICES	$0.00	$8,000.00	$0.00	$0.00	$0.00	$8,000.00	0%
10-560-3812	STREET SUPPLIES & MAT'L	$4,180.20	$10,500.00	$1,443.53	$6,034.27	$639.71	$3,826.02	64%
10-560-3814	SIDEWALKS & MULTI-MODAL	$8,927.53	$19,080.00	$16,240.00	$16,240.00	$0.00	$2,840.00	85%
10-560-4550	CONTRACT SERVICES	$5,743.52	$12,000.00	$0.00	$1,296.00	$5,200.00	$5,504.00	54%
10-560-4590	DREDGING EXPENSE	$0.00	$171,700.00	$0.00	$54,734.28	$0.00	$116,965.72	32%

TOWN OF BEAUFORT

Statement of Revenue and Expenditures - Operating

Expend Account	*Description*	*Prior Yr Expd*	*Budgeted*	*Curr Expd*	*YTD Expd*	*Encumbered*	*Balance*	*% Expd*
10-560-5400	INSURANCE	$14,342.56	$18,935.00	$0.00	$18,613.48	$0.00	$321.52	98%
10-560-5900	STREET LIGHTS	$140,819.19	$146,880.00	$17,819.90	$64,384.55	$0.00	$82,495.45	44%
10-560-7420	CAPITAL OUTLAY - EQUIPMENT	$91,635.10	$0.00	$0.00	$0.00	$0.00	$0.00	0%
10-560-7430	CAPITAL OUTLAY - VEHICLES	$103,580.39	$255,000.00	$0.00	$192,050.38	$55,294.67	$7,654.95	97%
10-560-8010	DEBT SERVICES-PRINCIPAL	$245,000.00	$253,452.18	$0.00	$0.00	$0.00	$253,452.18	0%
10-560-8011	DEBT SERVICES-INTEREST	$85,933.74	$83,850.06	$0.00	$41,846.00	$0.00	$42,004.06	50%
	560 Total	**$1,536,361.33**	**$1,985,002.12**	**$124,545.26**	**$839,316.74**	**$62,710.75**	**$1,082,974.63**	**45%**
10-570-0000	SANITATION:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	0%
10-570-1310	ELECTRIC FOR COMPACTOR	$632.52	$1,000.00	$90.10	$265.51	$0.00	$734.49	27%
10-570-1630	EQUIPMENT MAINT.	$1,736.10	$1,500.00	$0.00	$0.00	$0.00	$1,500.00	0%
10-570-1710	AUTO FUEL	$7,712.17	$15,000.00	$649.40	$4,300.29	$0.00	$10,699.71	29%
10-570-1730	VEHICLE MAINTENANCE	$1,230.05	$1,000.00	$42.98	$91.95	$0.00	$908.05	9%
10-570-4520	COLLECTION CONTRACTED SV WBD ROLLOUT	$23,836.36	$24,000.00	$2,028.89	$10,112.15	$2,028.89	$11,858.96	51%
10-570-4521	COLLECTION CONTRACTSVC RESROLLOUT SV	$448,835.45	$464,400.00	$37,423.88	$195,991.21	$37,951.65	$230,457.14	50%
10-570-4560	RECYCLING DISPOSAL WBD CARDBOARD ONL	$7,507.14	$7,500.00	$636.72	$3,173.55	$636.72	$3,689.73	51%
10-570-4561	SOLID WASTE DISPOSAL RES BULK SERVICE	$33,969.13	$36,000.00	$3,846.64	$17,966.23	$3,163.54	$14,870.23	59%
10-570-4562	YARD DEBRIS DISPOSAL FEE DEE GARNER	$38,060.00	$38,000.00	$4,650.00	$30,490.00	$0.00	$7,510.00	80%
10-570-4563	SOLID WASTE DISPOSAL WBD COMPACTOR FE	$29,589.66	$31,200.00	$2,826.68	$20,127.08	$1,997.96	$9,074.96	71%
10-570-8010	DEBT SERVICES- PRINCIPAL (GRAPPLE TRUCK	$38,028.00	$38,086.99	$0.00	$38,028.00	$0.00	$58.99	100%

10-570-8011	DEBT SERVICES - INTEREST (GRAPPLE TRUCK	$1,436.00	$1,386.37	$0.00	$1,385.90	$0.00	$0.47	100%
	570 Total	**$632,572.58**	**$659,073.36**	**$52,195.29**	**$321,931.87**	**$45,778.76**	**$291,362.73**	**56%**
10-580-0000	STORMWATER	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	0%
10-580-1610	NON-CAPITAL EQUIPMENT PURCHASES	$5,293.77	$25,200.00	$342.16	$2,245.89	$0.00	$22,954.11	9%
10-580-1710	DEPARTMENT SUPPLIES AND MATERIALS	$14,950.32	$10,800.00	$648.00	$5,358.39	$0.00	$5,441.61	50%
10-580-4550	CONTRACT SERVICES	$55,036.48	$42,200.00	$0.00	$2,812.04	$0.00	$39,387.96	7%
	580 Total	**$75,280.57**	**$78,200.00**	**$990.16**	**$10,416.32**	**$0.00**	**$67,783.68**	**13%**
10-620-0000	FACILITIES & GROUND MAIN:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	0%
10-620-1330	WATER\SEWER\SOLID WASTE	$637.07	$0.00	$0.00	$0.00	$0.00	$0.00	0%

Expend Account	*Description*	*Prior Yr Expd*	*Budgeted*	*Curr Expd*	*YTD Expd*	*Encumbered*	*Balance*	*% Expd*
10-620-1510	TOWN HALL BLDG MAINT	$86,693.85	$87,600.00	$2,042.77	$19,039.84	$503.00	$68,057.16	22%
10-620-1511	TOWN HALL GROUND MAINT	$488.77	$500.00	$0.00	$0.00	$0.00	$500.00	0%
10-620-1512	TOWN HALL JANITORIAL SUPPLIES	$1,132.95	$1,500.00	$0.00	$343.61	$0.00	$1,156.39	23%
10-620-1513	TOWN HALL CONTRACTED SERVICES	$0.00	$2,000.00	$135.00	$135.00	$0.00	$1,865.00	7%
10-620-1520	TRAIN DEPOT BLDG MAINT	$951.87	$28,060.00	$0.00	$751.96	$0.00	$27,308.04	3%
10-620-1522	TRAIN DEPOT JANITORIAL SUPPLIES	$722.43	$1,000.00	$41.99	$41.99	$0.00	$958.01	4%
10-620-1530	POLICE DEPT BLDG MAINT	$23,286.96	$18,000.00	$3,499.48	$13,100.93	$0.00	$4,899.07	73%
10-620-1532	POLICE DEPT JANITORIAL SUPPLIES	$89.68	$1,500.00	$0.00	$0.00	$0.00	$1,500.00	0%
10-620-1533	POLICE DEPT CONTRACTED SERVICES	$0.00	$2,000.00	$210.00	$540.05	$0.00	$1,459.95	27%
10-620-1540	PUBLIC WORKS BLDG MAINT	$15,536.96	$11,000.00	$0.00	$3,382.32	$0.00	$7,617.68	31%
10-620-1541	PUBLIC WORKS GROUND MAINT	$0.00	$750.00	$64.04	$179.24	$0.00	$570.76	24%
10-620-1542	PUBLIC WORKS JANITORIAL SUPPLIES	$232.64	$500.00	$0.00	$20.97	$0.00	$479.03	4%
10-620-1550	CEMETERY MAINTENANCE	$9,910.99	$19,646.18	$952.79	$8,327.27	$870.00	$10,448.91	47%
10-620-1560	PUBLIC RESTROOM BLDG MAINT	$6,017.43	$6,000.00	$288.10	$2,665.12	$0.00	$3,334.88	44%
10-620-1562	PUBLIC RESTROOM JANITORIAL SUPPLY	$8,786.07	$8,000.00	$311.60	$6,776.36	$0.00	$1,223.64	85%
10-620-1570	PARKS MAINTENANCE	$12,503.84	$10,000.00	$2,051.90	$8,883.99	$0.00	$1,116.01	89%
10-620-1571	RJP PARK MAINTENANCE	$12,275.49	$14,000.00	$65.23	$4,713.18	$0.00	$9,286.82	34%
10-620-1572	TOPSAIL PARK IMPROVEMENTS	$45,354.01	$9,040.00	$0.00	$7,539.79	$0.00	$1,500.21	83%

10-620-1573	PARKS CONTRACTED SERVICE	$1,244.49	$26,000.00	$596.00	$1,025.35	$0.00	$24,974.65	4%
10-620-1580	DOCKS AND BOARDWALK MAINT	$2,633.99	$5,500.00	$0.00	$732.15	$0.00	$4,767.85	13%
10-620-1590	PUBLIC R.O.W. MAINT	$20,351.45	$15,500.00	$1,000.00	$6,593.90	$0.00	$8,906.10	43%
10-620-1591	TREES	$5,535.00	$15,000.00	$0.00	$0.00	$0.00	$15,000.00	0%
10-620-1610	NON CAPITAL EQUIPMENT PURCHASE	$1,461.05	$2,500.00	$50.56	$1,548.89	$0.00	$951.11	62%
10-620-1630	EQUIPMENT MAINT & REPAIRS	$3,209.03	$2,500.00	$0.00	$766.22	$0.00	$1,733.78	31%
10-620-3310	DEPARTMENTAL SUPPLIES & MATERIALS	$1,607.66	$4,200.00	$0.00	$235.10	$0.00	$3,964.90	6%
10-620-4550	CONTRACT SERVICES	$0.00	$1,000.00	$0.00	$0.00	$0.00	$1,000.00	0%
10-620-7420	CAPITAL OUTLAY/EQUIPMENT	$0.00	$112,950.00	$0.00	$0.00	$18,344.50	$94,605.50	16%
	620 Total	**$260,663.68**	**$406,246.18**	**$11,309.46**	**$87,343.23**	**$19,717.50**	**$299,185.45**	**26%**

TOWN OF BEAUFORT

Statement of Revenue and Expenditures - Operating

Expend Account	*Description*	*Prior Yr Expd*	*Budgeted*	*Curr Expd*	*YTD Expd*	*Encumbered*	*Balance*	*% Expd*
777 -700-0000	NON-DEPARTMENTAL:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	0%
-700-0206	MERIT AWARDS	$0.00	$60,337.00	$0.00	$0.00	$0.00	$60,337.00	0%
10-700-1120	INTERNET- FIBER HUB CONNECTION	$11,715.13	$8,000.00	$606.23	$3,031.08	$0.00	$4,968.92	38%
10-700-1130	INFORMATION TECHNOLOGY SERVICES	$53,709.17	$87,220.00	$9,218.01	$36,446.23	$0.00	$50,773.77	42%
10-700-1250	EURY'S LANDING CONDOMINIUM ANNUAL DUE	$800.00	$820.00	$0.00	$0.00	$0.00	$820.00	0%
10-700-1410	HUMAN RESOURCES - EMPLOYMENT	$8,014.45	$35,760.00	$3,317.55	$36,857.98	$0.00	-$1,097.98	103%
10-700-1420	HUMAN RESOURCES - TRAINING	$2,000.00	$20,400.00	$833.83	$1,833.83	$4,716.13	$13,850.04	32%
10-700-1450	EMPLOYEE ENGAGEMENT	$3,180.48	$22,240.00	$7,168.73	$21,146.27	$0.00	$1,093.73	95%
10-700-1592	WBD PROJECTS	$17,542.32	$55,289.00	$1,287.20	$12,190.17	$0.00	$43,098.83	22%
10-700-4510	PROFESSIONAL SERVICES	$46,161.44	$190,930.00	$22,042.90	$47,962.77	$56,239.77	$86,727.46	55%
10-700-4530	LEGAL SERVICES	$153,967.28	$135,000.00	$16,762.50	$88,619.22	$25,380.78	$21,000.00	84%
10-700-5600	CONTRIBUTIONS TO OTHER AGENCIES	$2,100.00	$4,600.00	$0.00	$2,100.00	$0.00	$2,500.00	46%
10-700-5730	CONTINGENCY	$0.00	$67,071.89	$0.00	$0.00	$0.00	$67,071.89	0%
10-700-7430	CAPITAL OUTLAY - VEHICLES	$0.00	$36,714.00	$0.00	$0.00	$0.00	$36,714.00	0%
10-700-8010	DEBT SERVICE - PRINCIPAL	$100,000.00	$100,000.00	$0.00	$100,000.00	$0.00	$0.00	100%
10-700-8011	DEBT SERVICE - INTEREST	$19,485.38	$16,438.06	$0.00	$8,898.02	$7,538.89	$1.15	100%
10-700-9010	COVID-19 RESPONSE	$8,675.00	$0.00	$0.00	$0.00	$0.00	$0.00	0%

10-700-9020	CARES RELIEF FUNDS	$93,117.13	$0.00	$0.00	$1,493.23	$0.00	-$1,493.23	0%
	700 Total	**$520,467.78**	**$840,819.95**	**$61,236.95**	**$360,578.80**	**$93,875.57**	**$386,365.58**	**54%**
10-800-0000	GENERAL FUND TRANSFERS:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	0%
10-800-0064	TRANSFER TO CAPITAL PROJECTS	$0.00	$100,000.00	$0.00	$0.00	$0.00	$100,000.00	0%
10-800-8000	TRANSFER TO CAPITAL RESERVE	$185,000.00	$185,000.00	$0.00	$0.00	$0.00	$185,000.00	0%
	800 Total	**$185,000.00**	**$285,000.00**	**$0.00**	**$0.00**	**$0.00**	**$285,000.00**	**0%**
	General Fund Expend Total	**$9,058,983.14**	**$11,754,568.26**	**$850,740.10**	**$5,147,521.61**	**$839,642.21**	**$5,767,404.44**	**51%**

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xpend Account *Description* *Prior Yr Expd* *Budgeted* *Curr Expd* *YTD Expd* *Encumbered* *Balance* *% Expd*

General Fund

	Prior	Current	YTD
Revenue:	**$10,801,944.76**	**$569,437.85**	**$4,510,180.94**
Expended:	**$9,058,983.14**	**$850,740.10**	**$5,147,521.61**
Net Income:	**$1,742,961.62**	**-$281,302.25**	**-$637,340.67**

Revenue Account	*Description*	*Prior Yr Rev*	*Anticipated*	*Curr Rev*	*YTD Rev*	*Excess/Deficit*	*% Real*
40-303-0009	GRANTS NC	$127,750.00	$0.00	$0.00	$0.00	$0.00	0%
40-305-0001	REVENUE ACCOUNT REGULAR - WATER USAG	$1,269,581.09	$1,240,000.00	$93,227.01	$717,344.42	-$522,655.58	58%
40-305-0002	REVENUE ACCOUNT REGULAR - SEWER USAG	$3,042,081.46	$3,150,000.00	$234,285.58	$1,644,394.46	-$1,505,605.54	52%
40-305-0003	WATER TAP IN FEES	$98,500.00	$44,750.00	$9,100.00	$58,175.00	$13,425.00	130%
40-305-0004	SEWER TAP IN FEE	$68,250.00	$41,250.00	$7,500.00	$43,500.00	$2,250.00	105%
40-305-0005	ACCOUNT SERVICE CHARGES	$6,050.00	$10,000.00	$400.00	$2,490.00	-$7,510.00	25%
40-305-0006	WATER SERVICE CHARGES	$77.64	$0.00	$0.00	$0.00	$0.00	0%
40-305-0007	SEWER SERVICE CHARGES	-$9,399.89	$0.00	$0.00	$0.00	$0.00	0%
40-305-0008	LATE FEES - WATER	-$95.08	$40,000.00	$0.00	$0.00	-$40,000.00	0%
40-305-0009	LATE FEES - SEWER/GREASE	-$3.80	$0.00	$0.00	$0.00	$0.00	0%

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40-305-0010	RETURNED CHECK FEES - WATER	$300.00	$0.00	$25.00	$50.00	$50.00	0%
40-305-0012	TEMPORARY UTILITY USE CHARGE	$1,950.00	$1,000.00	$0.00	$1,200.00	$200.00	120%
40-305-0013	SPRINKLER FEES	$4,375.00	$3,000.00	$0.00	$0.00	-$3,000.00	0%
40-305-0014	SEWER ALLOCATION REQUEST FEE	$250.00	$0.00	$0.00	$0.00	$0.00	0%
40-307-0001	INVESTMENT EARNINGS-WATER	$1,176.34	$0.00	$0.00	$0.00	$0.00	0%
40-307-0011	APP.UNRESTRICTED FUND BALANCE	$0.00	$144,236.00	$0.00	$0.00	-$144,236.00	0%
40-329-0065	TRANSFER FROM CRF	$33,000.00	$90,000.00	$0.00	$0.00	-$90,000.00	0%
40-900-9000	cancel revenue	$300.00	$0.00	$0.00	$0.00	$0.00	0%
	Utility Fund Revenue Total	**$4,644,142.76**	**$4,764,236.00**	**$344,537.59**	**$2,467,153.88**	**-$2,297,082.12**	**52%**

Expend Account	*Description*	*Prior Yr Expd*	*Budgeted*	*Curr Expd*	*YTD Expd*	*Encumbered*	*Balance*	*% Expd*
40-800-0206	MERIT AWARDS	$0.00	$16,000.00	$0.00	$0.00	$0.00	$16,000.00	0%

Expend Account	*Description*	*Prior Yr Expd*	*Budgeted*	*Curr Expd*	*YTD Expd*	*Encumbered*	*Balance*	*% Expd*
40-800-1240	CONTRIBUTION TO GF FOR ADMIN SERVICES	$600,000.00	$624,000.00	$0.00	$0.00	$0.00	$624,000.00	0%
40-800-8000	TRANSFER TO CAPITAL RESERVE	$350,000.00	$350,000.00	$0.00	$0.00	$0.00	$350,000.00	0%
	800 Total	**$950,000.00**	**$990,000.00**	**$0.00**	**$0.00**	**$0.00**	**$990,000.00**	**0%**
40-810-0000	SEWER DEPARTMENT	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	0%
40-810-0200	SALARIES AND WAGES	$446,907.05	$430,499.00	$64,812.27	$252,348.17	$0.00	$178,150.83	59%
40-810-0201	OVERTIME	$46,248.29	$49,159.00	$4,823.37	$24,006.05	$0.00	$25,152.95	49%
40-810-0500	FICA EXPENSE	$36,493.28	$38,391.00	$5,160.98	$20,432.19	$0.00	$17,958.81	53%
40-810-0600	GROUP INSURANCE EXPENSE	$55,580.73	$59,173.00	$4,686.88	$26,370.02	$0.00	$32,802.98	45%
40-810-0700	RETIREMENT EXPENSE	$74,227.88	$79,105.00	$11,402.60	$45,202.09	$0.00	$33,902.91	57%
40-810-0800	WORKERS COMPENSATION	$7,216.79	$18,981.00	$0.00	$10,634.66	$0.00	$8,346.34	56%
40-810-1110	TELEPHONE	$10,502.45	$9,300.00	$1,208.59	$5,612.74	$0.00	$3,687.26	60%
40-810-1111	TELEPHONE-CELLULAR	$775.63	$741.00	$117.88	$355.88	$0.00	$385.12	48%
40-810-1120	INTERNET/CABLE	$4,495.74	$5,200.00	$374.87	$1,874.35	$0.00	$3,325.65	36%
40-810-1130	POSTAGE	$6,304.97	$4,800.00	$417.31	$2,994.98	$0.00	$1,805.02	62%
40-810-1210	OFFICE SUPPLIES	$1,074.34	$1,951.88	$0.00	$211.67	$0.00	$1,740.21	11%

40-810-1230	OFFICE CONTRACT SERVICES	$2,068.96	$2,000.00	$56.00	$870.05	$0.00	$1,129.95	44%
40-810-1250	DUES & SUBSCRIPTIONS	$1,430.66	$1,300.00	$41.84	$240.22	-$31.86	$1,091.64	16%
40-810-1310	ELECTRIC	$180,428.74	$199,800.00	$27,649.79	$89,524.92	$1,659.55	$108,615.53	46%
40-810-1330	WATER/SEWER/SOLID WASTE	$839.79	$1,000.00	$68.44	$354.19	$0.00	$645.81	35%
40-810-1420	OSHA/SAFETY COMPLIANCE	$2,036.98	$3,100.00	$151.16	$1,594.95	$0.00	$1,505.05	51%
40-810-1422	SAFETY SUPPLIES & MATERIALS	$91.38	$0.00	$0.00	$0.00	$0.00	$0.00	0%
40-810-1430	TRAINING - REGISTRATION & CLASS MA	$1,342.09	$2,000.00	$0.00	$1,160.00	$0.00	$840.00	58%
40-810-1431	TRAVEL MILEAGE	$117.16	$200.00	$0.00	$0.00	$0.00	$200.00	0%
40-810-1432	MEALS	$0.00	$500.00	$0.00	$0.00	$0.00	$500.00	0%
40-810-1433	LODGING	$0.00	$1,000.00	$0.00	$0.00	$0.00	$1,000.00	0%
40-810-1434	EMPLOYEE DEVELOPMENT	$0.00	$2,500.00	$0.00	$0.00	$0.00	$2,500.00	0%
40-810-1440	UNIFORMS	$5,341.15	$5,100.00	$320.21	$2,579.32	$62.67	$2,458.01	52%
40-810-1510	BUILDING MAINT	$3,438.91	$8,000.00	$0.00	$7,035.21	$0.00	$964.79	88%

Expend Account	*Description*	*Prior Yr Expd*	*Budgeted*	*Curr Expd*	*YTD Expd*	*Encumbered*	*Balance*	*% Expd*
40-810-1512	JANITORIAL SUPPLIES	$666.82	$1,000.00	$139.44	$446.65	$0.00	$553.35	45%
40-810-1610	NON-CAPITAL EQUIPMENT PURCHASE	$0.00	$52,300.00	$18,583.20	$18,583.20	$13,942.00	$19,774.80	62%
40-810-1620	EQUIPMENT LEASE	-$38.14	$0.00	$0.00	$0.00	$0.00	$0.00	0%
40-810-1630	EQUIPMENT MAINT & REPAIRS	$71,645.34	$100,000.00	$4,214.01	$28,197.70	$15,068.80	$56,733.50	43%
40-810-1710	AUTO FUEL	$13,260.05	$16,000.00	$2,938.04	$7,791.71	$0.00	$8,208.29	49%
40-810-1730	VEHICLE MAINT & REPAIRS	$2,998.39	$6,000.00	$834.56	$3,316.33	$0.00	$2,683.67	55%
40-810-1810	PERMITS & FEES - RECCURING	$7,907.75	$8,620.00	$0.00	$6,000.00	$0.00	$2,620.00	70%
40-810-1830	COMPLIANCE TESTING	$8,069.92	$15,000.00	$557.00	$4,542.00	$0.00	$10,458.00	30%
40-810-3310	DEPARTMENT SUPPLIES & MATERIALS - SEWE	$10,801.19	$19,000.00	$1,477.72	$21,915.94	$0.00	-$2,915.94	115%
40-810-3311	DEPARTMENT SUPPLIES & MATERIALS -WWTP	$42,742.11	$44,500.00	$3,064.86	$23,630.20	$0.00	$20,869.80	53%
40-810-4510	PROFESSIONAL SERVICES	$65,168.82	$100,000.00	$0.00	$36,452.04	$9,999.00	$53,548.96	46%
40-810-4550	CONTRACT SERVICES	$240,276.11	$73,965.00	$1,635.24	$11,660.96	$20,387.83	$41,916.21	43%
40-810-4560	STREET PATCHING FOR UTILITY REPAIRS	$5,967.50	$9,000.00	$0.00	$0.00	$0.00	$9,000.00	0%
40-810-5400	INSURANCE	$43,933.70	$64,000.00	$0.00	$52,176.86	$0.00	$11,823.14	82%

40-810-5730	CONTINGENCIES	$0.00	$7,455.27	$0.00	$0.00	$0.00	$7,455.27	0%
40-810-7420	CAPITAL OUTLAY - EQUIPMENT	$142,075.57	$9,565.00	$0.00	$887.00	$0.00	$8,678.00	9%
40-810-7430	CAPITAL OUTLAY - VEHICLES	$0.00	$113,889.00	$0.00	$79,533.10	$34,355.83	$0.07	100%
40-810-8010	DEBT SERVICE-PRINCIPAL	$1,034,364.67	$1,034,455.11	$0.00	$4,840.00	$0.00	$1,029,615.11	0%
40-810-8011	DEBT SERVICE-INTEREST	$186,403.06	$168,408.36	$0.00	$84,341.08	$0.00	$84,067.28	50%
	810 Total	**$2,763,205.83**	**$2,766,958.62**	**$154,736.26**	**$877,716.43**	**$95,443.82**	**$1,793,798.37**	**35%**
40-812-0000	WATER DEPARTMENT	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	0%
40-812-0200	SALARIES AND WAGES	$215,175.53	$204,069.00	$39,205.88	$136,006.32	$0.00	$68,062.68	67%
40-812-0201	OVERTIME	$7,403.09	$16,647.00	$0.00	$0.00	$0.00	$16,647.00	0%
40-812-0500	FICA EXPENSE	$16,726.89	$17,670.00	$2,992.87	$10,366.17	$0.00	$7,303.83	59%
40-812-0600	GROUP INSURANCE EXPENSE	$28,253.16	$29,587.00	$2,343.44	$14,066.96	$0.00	$15,520.04	48%
40-812-0700	RETIREMENT EXPENSE	$33,196.11	$36,397.00	$6,415.67	$22,210.36	$0.00	$14,186.64	61%
40-812-0800	WORKERS COMPENSATION	$7,892.00	$8,627.00	$0.00	$8,400.00	$0.00	$227.00	97%
40-812-1110	TELEPHONE	$1,187.83	$2,040.00	$291.36	$897.85	$0.00	$1,142.15	44%

Expend Account	*Description*	*Prior Yr Expd*	*Budgeted*	*Curr Expd*	*YTD Expd*	*Encumbered*	*Balance*	*% Expd*
40-812-1111	TELEPHONE-CELLULAR	$723.66	$800.00	$131.40	$395.26	$0.00	$404.74	49%
40-812-1120	INTERNET/CABLE	$3,895.86	$3,700.00	$324.88	$1,624.40	$0.00	$2,075.60	44%
40-812-1130	POSTAGE	$5,258.72	$4,600.00	$0.00	$2,318.70	$0.00	$2,281.30	50%
40-812-1210	OFFICE SUPPLIES	$246.24	$1,000.00	$0.00	$56.66	$0.00	$943.34	6%
40-812-1230	OFFICE CONTRACT SERVICES	$3,829.85	$3,000.00	$0.00	$1,196.84	$0.00	$1,803.16	40%
40-812-1250	DUES AND SUBSCRIPTIONS	$738.59	$2,500.00	$26.14	$751.87	$0.00	$1,748.13	30%
40-812-1310	ELECTRIC	$42,830.97	$46,000.00	$7,375.27	$24,085.23	$0.00	$21,914.77	52%
40-812-1320	LP GAS	$656.51	$1,500.00	$0.00	$0.00	$0.00	$1,500.00	0%
40-812-1330	WATER/SEWER/SOLID WASTE	$771.40	$750.00	$60.63	$304.85	$0.00	$445.15	41%
40-812-1420	OSHA/SAFETY COMPLIANCE	$660.40	$1,519.99	$0.00	$611.88	$19.99	$888.12	42%
40-812-1430	TRAINING -REGISTRATION&CLASS MAT'L	$255.00	$1,500.00	$180.00	$265.00	$0.00	$1,235.00	18%
40-812-1431	TRAVEL MILEAGE	$0.00	$100.00	$0.00	$0.00	$0.00	$100.00	0%
40-812-1432	MEALS	$0.00	$400.00	$0.00	$0.00	$0.00	$400.00	0%

40-812-1433	LODGING	$0.00	$1,000.00	$0.00	$0.00	$0.00	$1,000.00	0%
40-812-1434	EMPLOYEE DEVELOPMENT	$0.00	$3,000.00	$0.00	$0.00	$0.00	$3,000.00	0%
40-812-1440	UNIFORMS	$1,723.29	$2,600.00	$134.80	$991.12	$0.00	$1,608.88	38%
40-812-1510	BUILDING MAINT	$1,171.70	$2,000.00	$0.00	$2,150.00	$0.00	-$150.00	108%
40-812-1512	JANITORIAL SUPPLIES	$0.00	$500.00	$0.00	$0.00	$0.00	$500.00	0%
40-812-1610	NON-CAPITAL EQUIPMENT PURCHASES	$4,091.25	$9,000.00	$0.00	$0.00	$0.00	$9,000.00	0%
40-812-1630	EQUIPMENT MAINT. & REPAIRS	$18,363.09	$20,000.00	$0.00	$0.00	$0.00	$20,000.00	0%
40-812-1710	AUTO FUEL	$4,260.56	$5,000.00	$644.07	$3,104.85	$0.00	$1,895.15	62%
40-812-1730	VEHICLE MAINT. & REPAIRS	$3,510.13	$4,000.00	$252.51	$590.66	$0.00	$3,409.34	15%
40-812-1810	PERMITS & FEES - REOCCURING	$4,575.00	$4,575.00	$0.00	$1,845.00	$0.00	$2,730.00	40%
40-812-1830	COMPLIANCE TESTING	$6,300.54	$13,000.00	$450.00	$2,450.00	$0.00	$10,550.00	19%
40-812-3310	DEPARTMENT SUPPLIES & MATERIALS - METEI	$52,465.37	$50,020.97	$191.20	$39,992.95	$20.97	$10,007.05	80%
40-812-3311	DEPARTMENT SUPPLIES & MATERIALS -PLANT	$84,247.35	$70,000.00	$434.68	$41,937.65	$3,704.44	$24,357.91	65%
40-812-4550	CONTRACT SERVICES	$60,781.74	$62,000.00	$2,437.44	$29,001.91	$45.82	$32,952.27	47%
40-812-4560	STREET PATCHING FOR UTILITY REPAIRS	$12,256.24	$25,000.00	$0.00	$0.00	$17,250.00	$7,750.00	69%

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TOWN OF BEAUFORT

Statement of Revenue and Expenditures - Operating

Expend Account	*Description*	*Prior Yr Expd*	*Budgeted*	*Curr Expd*	*YTD Expd*	*Encumbered*	*Balance*	*% Expd*
40-812-4570	COUNTY WATER PURCHASE	$37,167.13	$38,500.00	$3,915.32	$28,520.98	$0.00	$9,979.02	74%
40-812-5400	INSURANCE	$17,200.00	$20,700.00	$0.00	$18,217.47	$0.00	$2,482.53	88%
40-812-5730	CONTINGENCIES	$0.00	$12,863.00	$0.00	$0.00	$0.00	$12,863.00	0%
40-812-7420	CAPITAL OUTLAY - EQUIPMENT	$0.00	$10,000.00	$0.00	$0.00	$0.00	$10,000.00	0%
40-812-7430	CAPITAL OUTLAY-VEHICLES	$0.00	$50,000.00	$0.00	$0.00	$41,059.09	$8,940.91	82%
40-812-7440	CAPITAL OUTLAY - CONT. SERVICES	$0.00	$90,000.00	$0.00	$72,540.92	$17,352.50	$106.58	100%
40-812-8010	DEBT SERVICE - PRINCIPAL	$102,150.40	$102,240.84	$0.00	$4,840.00	$0.00	$97,400.84	5%
40-812-8011	DEBT SERVICE - INTEREST	$26,962.08	$28,911.54	$0.00	$14,592.67	$0.00	$14,318.87	50%
	812 Total	**$806,927.68**	**$1,007,318.34**	**$67,807.56**	**$484,334.53**	**$79,452.81**	**$443,531.00**	**56%**
	Utility Fund Expend Total	**$4,520,133.51**	**$4,764,276.96**	**$222,543.82**	**$1,362,050.96**	**$174,896.63**	**$3,227,329.37**	**32%**

40 **Utility Fund** **Prior** **Current** **YTD**

Expended:	**$4,520,133.51**	**$222,543.82**	**$1,362,050.96**
Net Income:	**$124,009.25**	**$121,993.77**	**$1,105,102.92**

Revenue Account	*Description*	*Prior Yr Rev*	*Anticipated*	*Curr Rev*	*YTD Rev*	*Excess/Deficit*	*% Real*
60-305-0000	WATER CAPACITY FEES	$10,948.00	$0.00	$476.00	$8,568.00	$8,568.00	0%
60-305-0001	SEWER CAPACITY FEES	$249,261.60	$0.00	$5,524.00	$99,432.00	$99,432.00	0%
60-307-0001	INVESTMENT EARNINGS	$107.86	$0.00	$0.00	$0.00	$0.00	0%
	Impact Fee Fund Revenue Total	**$260,317.46**	**$0.00**	**$6,000.00**	**$108,000.00**	**$108,000.00**	**0%**

60 **Impact Fee Fund**

	Prior	**Current**	**YTD**
Revenue:	**$260,317.46**	**$6,000.00**	**$108,000.00**
Expended:	**$0.00**	**$0.00**	**$0.00**
Net Income:	**$260,317.46**	**$6,000.00**	**$108,000.00**

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Grand Totals

784

Town of Beaufort

Statement of Revenue and Expenditures

Key for Column Headings

Revenues and Expenditures are presented by Fund. Revenues for each Fund are presented first, expenditures by department follow. The funds are as follows:

10- General Fund, 11-Fire Fund, 40- Utility Fund

Below is a description of the headings for each column.

Revenue Account- revenue account number used in the accounting software system

Description – account title and description in the software system. Additional details for each account are found in the Chart of Account handout/file.

Prior Yr. Rev - total revenue collected for the prior fiscal year

Anticipated – amount of revenues anticipated to be collected this year (budgeted amount)

Current Rev – amount of revenue collected for the current period
(current period refer to date range on report header)

YTD Rev – total revenue collected to date

Excess/Deficit – Anticipated (budgeted amount) less YTD Rev (collected revenue)

% Real – YTD Revenue (collected revenue) divided by Anticipated (budgeted amount) expressed as a percentage

Expend Account – expenditure account number used in the accounting software system

Description - account title and description in the software system. Additional details for each account are found in the Chart of Account handout/file.

Prior Yr. Expd – total expenditure for the prior fiscal year

Budgeted – amount of expenditures to be incurred this fiscal year (budgeted amount)

Current Expd – current amount of expenditures incurred for the current period
(current period – refer to date range on report header)

YTD Expended – total expenditures incurred to date

Encumbered – Purchase orders for goods or services that have not been received to date

Balance – Budgeted less YTD Expended, balance remaining in the account

% Used – YTD Expended divided by Budgeted expressed as a percentage

Town of Beaufort, NC

701 Front St. - P.O. Box 390 - Beaufort, N.C. 28516 252-728-2141 - 252-728-3982 fax - www.beaufortnc.org

Board of CommissionersVirtual
Work Session
4:00 PM – Monday, January 24, 2022

AGENDA CATEGORY: Items for Discussion and Consideration

SUBJECT: Financial Notes

BRIEF SUMMARY:

- Tax balances remaining are listed for November and December.

November		
Tax Year	Balance Remaining	Collection Rate to Date
2014	$1,613	99.94%
2015	$4,395	99.83%
2016	$12,103	99.54%
2017	$16,012	99.46%
2018	$16,852	99.49%
2019	$32,721	99.15%
2020	$67,005	98.60%
2021	$2,502,757	49.26%
December		
Tax Year	Balance Remaining	Collection Rate to Date
2014	$1,613	99.94%
2015	$4,008	99.84%
2016	$12,007	99.54%
2017	$15,605	99.47%
2018	$16,109	99.51%
2019	$31,574	99.18%
2020	$64,651	98.65%
2021	$1,018,199	79.35%

- Sales and Use tax distribution for January is $194,343 (October sales)
- The Town received notification in late December that the premium cost for BCBS employee coverage would increase in January. This increase is more than the increase that was budgeted for this year. The increase amount is being reviewed and will likely result in a request for a budget amendment at your next meeting.

- A 6-month review is being completed of the trash costs for the Waterfront Business District (WBD) to ensure the costs of collections are being covered by the fees charged.

REQUESTED ACTION:

No action requested/ review

EXPECTED LENGTH OF PRESENTATION: 5 minutes

5 minutes

SUBMITTED BY:

Christi Wood – Finance Director

BUDGET AMENDMENT REQUIRED:

No

Comparison of FY 19,20,21,22 Sales and Use Tax Distributions							
Sales Month	Collection Month	Distribution Month	Distribution Amount FY 2019	Distribution Amount FY 2020	Distribution Amount FY 2021	Distribution Amount FY 2022	% change from PY
July	August	October	$102,279	$154,624	$198,338	$228,391	15%
August	September	November	$118,261	$147,895	$158,529	$217,102	37%
September	October	December	$104,910	$132,455	$173,832	$205,782	18%
October	November	January	$113,279	$130,905	$162,919	$194,343	19%
November	December	February	$118,047	$116,991	$155,965		
December	January	March	$112,470	$133,544	$177,189		
January	February	April	$91,523	$110,330	$137,779		
February	March	May	$96,640	$96,305	$136,463		
March	April	June	$127,685	$127,868	$191,746		
April	May	July	$123,099	$110,588	$190,518		
May	June	August	$145,214	$158,801	$210,430		
June	July	September	$150,652	$202,009	$250,816		
Total			$1,404,059	$1,622,314	$2,144,525		

Town of Beaufort - Chart of Accounts

Account #	Account Name	Account Description
	GENERAL FUND REVENUE:	
10-301-0000	AD VALOREM TAX - CURRENT YEAR	Calculated from the Property Valuation determined by Carteret County multiplied by the tax rate set by the Beaufort Board of Commissioners multiplied by the percentage the Town anticipates collecting. Town receives a monthly check from the county for the previous months collections. Revenue is booked when received.
10-301-0001	AD VALOREM TAX PRIOR YEAR	Amount of outstanding Ad Valorem taxes anticipated to be collected from previous years. Town receives a monthly check from the county for the previous months collections. Revenue is booked when received.
10-301-0002	PENALTIES AND INTEREST	Late Listing and Interest collected on Ad Valorem and Motor Vehicle taxes for current and prior years. Town receives a monthly check from the county for the previous months collections. Revenue is booked when received.
10-301-0004	MOTOR VEHICLE TAX	Town portion of Motor Vehicle Taxes collected by the NCDMV through the Tax and Tag program. Town receives a monthly check from the county for the previous months collections. Revenue is booked when received.
10-301-0006	PAYMENT IN LIEU OF TAXES	Payments made by Beaufort Housing Authority and Inlet Inn "PILOT". An annual check is received.
10-303-0001	LOCAL OPTION SALES TAX	Sales Tax (2%) collected by the state and distributed based on ad valorem tax base "LOST". Town receives a monthly electronic distribution from NCDOR. The month of distribution is 3 months in arrears of the month the sales took place. Ex. Distribution in December is for September sales. Revenue is booked when received.
10-303-0002	UTILITIES FRANCHISE TAX	Utilities Tax collected by the state. Town receives a quarterly electronic credit from NCDOR.
10-303-0003	BEER AND WINE TAX	Beer and Wine Tax collected by the state. Town received an annual electronic credit from NCDOR.
10-303-0004	POWELL BILL	Funds received from the state restricted for street maintenance. Town received a semi-annual distribution from the State.
10-303-0008	EASTMAN'S CREEK COUNTY ASSESSMENT FEE	Assessment Fee for new development at Eastman's Creek
10-303-0014	FEMA PD BOAT GRANT	Grant received from FEMA Homeland Security for boat and lift
10-303-0015	FEMA HURRICANE FLORENCE	Reimbursement for hurricane expenses
10-303-0016	GCC GRANT	Governor's Crime Commission Grant
10-303-0017	NOAA GRANT	Taylor's Creek Grant

Account #	Account Name	Account Description
10-304-0001	COUNTY ABC PROFIT DISTRIBUTION	Town's portion of county ABC profit. Town receives a check quarterly from the ABC Board.
10-304-0002	FIRE DISTRICT AD VALOREM TAX	Ad Valorem tax received from Carteret County for the fire district. Town received a monthly electronic payment from the county.
10-304-0003	FIRE DISTRICT SALES TAX	Sales tax received from Carteret County for the fire district
10-304-0004	HARLOWE DIST. AD VALOREM TAX	Ad Valorem tax received from Carteret County for the Harlowe district
10-304-0005	HARLOWE FIRE DISTRICT SALES TAX	Sales tax received from Carteret County for the Harlowe district
10-304-0020	MISC REVENUE- FIRE DEPARTMENT	Revenue received from tent inspections, etc.
10-305-0004	SOLID WASTE USER FEE -WBD	"WBD" Waterfront Business District - solid Waste User Fee billed monthly on the water bill
10-305-0005	BUILDING PERMITS	Revenue from building permits
10-305-0006	PARKING METER	Revenue collected from the Pay-To-Park Season. Credit Card and cash collections/weekly during the season.
10-305-0007	PARKING VIOLATIONS/PENALTIES	Paid Parking Violations
10-305-0008	COURT COSTS, FEES, CHARGES	Officer Fees. Town receives a monthly check from the county.
10-305-0010	LATE FEES - SOLID WASTE	Late Fees of 10% are added after the 20th of the month
10-305-0011	SPECIAL EVENT FEES	Fees associated with Special Events
10-306-0001	PROPERTY LEASES	Revenue received from annual leases approved by the BOC
10-306-0002	ANTENNA CONTRACT REVENUE	Revenue received from tower space leased to Sprint, AT&T and T-Mobile
10-306-0003	CEMETERY LOT SALES	Receipts from the sale of lots at Oceanview Cemetery
10-306-0004	SALE OF FIXED ASSETS	FY18 - Sale of Fire Station and land at Fulford and Broad
10-306-0009	SETTLEMENTS	FY18 - Settlement received from Inlet Inn on PILOT for previous years
10-307-0001	INVESTMENT EARNINGS	Interest
10-307-0002	MISCELLANEOUS REVENUE	Revenue received from Golf Cart Registrations
10-307-0003	MISCELLANEOUS REVENUE - PD	Revenue received from Police-For-Hire and various fundraisers
10-307-0007	PROCEEDS FROM LOAN	Revenue received from a loan closing, usually offset by an expenditure of Capital Outlay.
10-307-0008	REIMBURSEMENT FROM INSURANCE	Receipts from insurance reimbursement
10-307-0009	APPROPRIATED FUND BALANCE	Appropriated fund balance
10-307-0010	UTILITY FUND ADMIN EXPENSE ALLOCATION	Allocation for administrative services provided to the Utility Fund
10-410-0000	**GOVERNING BODY:**	
10-410-0200	SALARIES AND WAGES	Salaries paid bi-weekly (26 periods per year)
10-410-0500	FICA	[illegible]ral Taxes for Social Security and Medicare withheld each pay period

Account #	Account Name	Account Description
10-410-0800	WORKERS COMPENSATION	Allocation by department for Workers Comp premiums for the year, additional premiums may be paid during the year if a department has a claim
10-410-1140	PUBLIC NOTICES/ADVERTISING	Public Notices, Job Vacancies, Board Vacancies
10-410-1141	NEWSLETTER	Mailed monthly with the water bill
10-410-1210	OFFICE SUPPLIES	Business cards, supplies for retreat
10-410-1250	DUES & SUBSCRIPTIONS	Board member dues to professional organizations
10-410-1430	TRAINING- REGISTRATION & CLASS MAT	Board member conference and class registration and materials
10-410-1431	TRAVEL MILEAGE	Board member mileage for conferences and training
10-410-1432	MEALS	Board member meals for conferences and training
10-410-1433	LODGING	Board member lodging for conferences and training
10-410-4520	CODIFICATION	Codification of Town ordinances
10-410-5400	INSURANCE	Public Officials liability insurance
10-410-5720	ELECTIONS	Payment to the county for 2017 Municipal Elections
10-410-5800	LAND PURCHASE	Budgeted for the purchase of land associated with access to the compactor
10-420-0000	**ADMINISTRATION:**	
10-420-0200	SALARIES AND WAGES	Salaries paid bi-weekly (26 periods per year)
10-420-0201	OVERTIME	Overtime wages paid
10-420-0205	OTHER SALARIES-PART TIME	Salaries paid to part-time employees- Seasonal Tourist Ambassadors
10-420-0500	FICA EXPENSE	Federal Taxes for Social Security and Medicare withheld each pay period
10-420-0600	GROUP INSURANCE EXPENSE	Allocation by department for employee medical insurance - Town pays 100% of employee medical insurance
10-420-0700	RETIREMENT EXPENSE	Contribution by the Town to employees 401k (5%) and Town portion of NC Retirement (~7.5%)
10-420-0800	WORKERS COMPENSATION	Allocation by department for Workers Comp premiums for the year, additional premiums may be paid during the year if a department has a claim
10-420-0900	UNEMPLOYMENT INSURANCE EXPENSE	Amount paid to reimburse the Town's Unemployment Insurance account - required by the state to maintain the balance determined by the state
10-420-1110	TELEPHONE	Telephone service for Town Hall
10-420-1120	INTERNET/CABLE	Internet service for Town Hall and Train Dept
10-420-1130	POSTAGE	[illegible]age for Town business

Account #	Account Name	Account Description
10-420-1150	MARKETING	Marketing events as needed
10-420-1210	OFFICE SUPPLIES	Town Hall office supplies
10-420-1220	OFFICE EQUIPMENT (NON-CAPITAL)	Office furniture, computers, computer equipment, camera
10-420-1221	OFFICE EQUIPMENT LEASES	Copier lease
10-420-1230	OFFICE CONTRACT SERVICES	Shredding service, IT support, website support, water cooler
10-420-1250	DUES AND SUBSCRIPTIONS	Staff dues to professional organizations
10-420-1310	ELECTRIC	Electricity for Town Hall and Train Depot
10-420-1330	WATER/SEWER/SOLID WASTE	Water and Trash Service for Town Hall
10-420-1420	OSHA/SAFETY COMPLIANCE	Required items for OSHA compliance
10-420-1422	SAFETY SUPPLIES & MATERIALS	First Aid kit at Town Hall
10-420-1430	TRAINING-REGISTRATION & CLASS MAT'	Staff conference and class registration and materials
10-420-1431	TRAVEL MILEAGE	Staff mileage for conferences and training
10-420-1432	MEALS	Staff meals for conferences and training
10-420-1433	LODGING	Staff lodging for conferences and training
10-420-1630	EQUIPMENT MAINT. & REPAIRS	Repairs to office equipment
10-420-1710	AUTO FUEL	Fuel for Admin vehicles
10-420-1730	VEHICLE MAINT & REPAIRS	Maintenance and Repair for Admin vehicles
10-420-4550	CONTRACT SERVICES	Moving services, other outsourced services
10-420-5400	INSURANCE	Administrative property and liability insurance
10-430-0000	**FINANCE:**	
10-430-0200	SALARIES AND WAGES	Salaries paid bi-weekly (26 periods per year)
10-430-0500	FICA EXPENSE	Federal Taxes for Social Security and Medicare withheld each pay period
10-430-0600	GROUP INSURANCE EXPENSE	Allocation by department for employee medical insurance - Town pays 100% of employee medical insurance
10-430-0700	RETIREMENT EXPENSE	Contribution by the Town to employees 401k (5%) and Town portion of NC Retirement (~7.5%)
10-430-0800	WORKERS COMPENSATION	Allocation by department for Workers Comp premiums for the year, additional premiums may be paid during the year if a department has a claim
10-430-1230	OFFICE CONTRACT SERVICES	Support agreement for financial software, monthly bank fees, fees for payroll service
10-430-1250	DUES & SUBSCRIPTIONS	Staff dues to professional organizations
10-430-1270	TAX REFUND	Tax refunds due prior to 2014 when Carteret County began collections
10-430-1430	TRAINING-REGISTRATION & CLASS MATE	conference and class registration and materials

Account #	Account Name	Account Description
10-430-1431	TRAVEL MILEAGE	Staff mileage for conferences and training
10-430-1432	MEALS	Staff meals for conferences and training
10-430-1433	LODGING	Staff lodging for conferences and training
10-430-1630	EQUIPMENT MAINT & REPAIRS	Repairs to office equipment
10-430-3901	PARKING METER PROCESSING FEES	Credit card processing fees for parking meters
10-430-4510	PROFESSIONAL SERVICES	Consulting services for year end audit prep
10-430-4520	TAX COLLECTION ADMIN EXPENSE PROP.	2% Collection fee charged by the county for property tax collection
10-430-4525	TAX COLLECTION ADMIN EXPENSE MVT	Credit card and billing fees for the Tax and Tag MVT program
10-510-0000	**POLICE DEPARTMENT:**	
10-510-0200	SALARIES AND WAGES	Salaries paid bi-weekly (26 periods per year)
10-510-0201	OVERTIME	Overtime wages paid
10-510-0203	SEPARATION PAY	Paid to retired Officers , who meet the state requirements
10-510-0205	OTHER SALARIES-PARTTIME	Salaries paid to part-time employees- Reserve Officers
10-510-0500	FICA EXPENSE	Federal Taxes for Social Security and Medicare withheld each pay period
10-510-0600	GROUP INSURANCE EXPENSE	Allocation by department for employee medical insurance - Town pays 100% of employee medical insurance
10-510-0700	RETIREMENT EXPENSE	Contribution by the Town to employees 401k (5%) and Town portion of NC Retirement (~7.5%)
10-510-0800	WORKERS COMPENSATION	Allocation by department for Workers Comp premiums for the year, additional premiums may be paid during the year if a department has a claim
10-510-1110	TELEPHONE	Telephone service for Police Department
10-510-1111	TELEPHONE-CELLULAR	Cell phones for on duty officers
10-510-1120	INTERNET/CABLE	Internet and cable service for the Police Department
10-510-1130	POSTAGE	Postage for Police mail
10-510-1210	OFFICE SUPPLIES	Police Department office supplies
10-510-1220	OFFICE EQUIPMENT (NON-CAPITAL)	Office furniture, computers
10-510-1221	OFFICE EQUIPMENT LEASES	Copier lease
10-510-1230	OFFICE CONTRACT SERVICES	Police software contracts, IT support, water service
10-510-1250	DUES AND SUBSCRIPTIONS	Staff dues to professional organizations
10-510-1260	MISC. ADMIN. EXPENSE	Notary fee, Register if Deeds fee
10-510-1310	ELECTRIC	Electricity for Police Department and Evidence/Storage Building
10-510-1330	WATER/SEWER/SOLID WASTE	Water and Trash Service for Police Department (Water for Train Depot is on meter)

Account #	Account Name	Account Description
10-510-1420	OSHA/SAFETY COMPLIANCE	Required items for OSHA compliance
10-510-1422	SAFETY SUPPLIES & MATERIALS	Safety and First Aid kits
10-510-1430	TRAINING- REGISTRATION &CLASS MAT'	Staff conference and class registration and materials
10-510-1431	TRAVEL MILEAGE	Staff mileage for conferences and training
10-510-1432	MEALS	Staff meals for conferences and training
10-510-1433	LODGING	Staff lodging for conferences and training
10-510-1440	UNIFORMS	Police Officer uniforms
10-510-1451	EMPLOYEE WELLNESS	Employee fitness program
10-510-1610	NON-CAPITAL EQUIPMENT PURCHASE	Holsters, shields, service weapons
10-510-1630	EQUIPMENT MAINT. & REPAIRS	In Car equipment repairs
10-510-1710	AUTO FUEL	Fuel for fleet vehicles
10-510-1730	VEHICLE MAINT. & REPAIRS	Maintenance and Repair for Fleet Vehicles
10-510-3310	DEPARTMENT SUPPLIES & MATERIALS	Narcan Kits, ammunition
10-510-5400	INSURANCE AND BONDS	Police Department property and liability insurance
10-510-5793	CRIME PREVENTION	Community awareness programs
10-510-7420	CAPITAL OUTLAY - EQUIPMENT	New capital equipment purchases
10-510-7430	CAPITAL OUTLAY - VEHICLES	New capital vehicle purchases
10-510-8010	DEBT SERVICE - PRINCIPAL	Debt service on vehicles- principal
10-510-8011	DEBT SERVICE - INTEREST	Debt service on vehicles- interest
10-531-0000	**FIRE DEPARTMENT:**	
10-531-0200	SALARIES & WAGES	Salaries paid bi-weekly (26 periods per year)- Public Works employees
100-531-0201	OVERTIME	Overtime wages paid
10-531-0205	SALARIES-PARTIME/PRN	Salaries paid to Part-time employees
10-531-0206	MERIT AWARDS	2.5% of Fire Fund salaries to be distributed based on employee evaluations
10-531-0500	FICA EXPENSE	Federal Taxes for Social Security and Medicare withheld each pay period
10-531-0600	GROUP INSURANCE	Allocation by department for employee medical insurance - Town pays 100% of employee medical insurance
10-531-0700	RETIREMENT EXPENSE	Contribution by the Town to employees 401k (5%) and Town portion of NC Retirement (~7.5%)
10-531-0701	FIREMAN'S PENSION FUND	Contribution to the Fireman's Pension Fund
10-531-0800	WORKERS COMPENSATION	Allocation by department for Workers Comp premiums for the year, additional premiums may be paid during the year if a department has a claim

Town of Beaufort - Chart of Accounts

Account #	Account Name	Account Description
10-531-1110	TELEPHONE	Landline service at Fire Station and Station 2
10-531-1111	TELEPHONE - CELLULAR	Cellular service for department
10-531-1120	INTERNET / CABLE	Internet and Cable service for Fire Station and Station 2
10-531-1130	POSTAGE	Postage to mail outgoing mail
10-531-1210	OFFICE SUPPLIES	Fire Department office supplies
10-531-1220	OFFICE EQUIPMENT (NON-CAPITAL)	Computers
10-531-1221	OFFICE EQUIPMENT LEASES	Copier Lease
10-531-1230	OFFICE CONTRACT SERVICES	IT support, reporting software
10-531-1250	DUES & SUBSCRIPTIONS	Staff dues to professional organizations
10-531-1260	MISC ADMIN EXPENSE	Parking and toll fees
10-531-1310	ELECTRIC	Electricity for Fire Station and Station 2
10-531-1320	LP GAS	Propane to heat Station 2 and fuel for generator
10-531-1330	WATER / SEWER / SOLID WASTE	Water and Trash Service for Fire Station and Station 2
10-531-1410	HUMAN RESOURCE	Background checks, pre-employment physicals, drug screens, tuition reimbursements, employee assistance programs, employment ads
10-531-1420	OSHA / SAFETY COMPLIANCE	Ladder testing, SCBA Flow test, boiler inspection, compressor air samples
10-531-1421	SAFETY EQUIPMENT	PPE -SCBAs, turnout gear
10-531-1422	SAFETY SUPPLIES & MATERIALS	water, batteries, and other supplies
10-531-1430	TRAINING - REGIST & CLASS MATERIAL	Staff and employee conference and class registration and materials
10-531-1432	MEALS	Staff and employee meals for conferences and training
10-531-1433	LODGING	Staff and employee lodging for conference and training
10-531-1440	UNIFORMS	Uniforms for Fire Department employees
10-531-1510	BUILDING MAINTENANCE	Paint, Generator repairs, salt for water softener
10-531-1511	GROUND MAINT	Insecticides, ice melt
10-531-1512	JANITORIAL SUPPLIES	Toilet paper, paper towels, cleaning supplies
10-531-1513	FIRE DEPT CONTRACTED SERVICES	Pest control, alarm control service
10-531-1610	NON-CAPITAL EQUIPMENT PURCHASE	Radios, Computers
10-531-1630	EQUIPMENT MAINT & REPAIRS	Pumps, ball valves, primer motors, generator repairs, chainsaw repairs, hydraulic tool repairs
10-531-1710	AUTO FUEL	Fuel for fleet vehicles
10-531-1730	VEHICLE MAINT & REPAIRS	Maintenance and Repair for Fleet Vehicles, tires, transmission repairs, brakes, alternator
10-531-3310	DEPARTMENT SUPPLIES & MATERIALS	EMS supplies, garage supplies, boat supplies
10-531-5400	INSURANCE & BONDS	Fire Department Property and Liability insurance
10-531-8010	DEBT SERVICE - PRINCIPAL	Station debt payment

Account #	Account Name	Account Description
10-531-8011	DEBT SERVICE - INTEREST	Fire Station interest payment
10-540-0000	**PLANNING & INSPECTIONS:**	
10-540-0200	SALARIES AND WAGES	Salaries paid bi-weekly (26 periods per year)
10-540-0201	OVERTIME	Overtime wages paid
10-540-0205	OTHER SALARIES-PART TIME	Salaries paid to part-time employees
10-540-0500	FICA EXPENSE	Federal Taxes for Social Security and Medicare withheld each pay period
10-540-0600	GROUP INSURANCE EXPENSE	Allocation by department for employee medical insurance - Town pays 100% of employee medical insurance
10-540-0700	RETIREMENT EXPENSE	Contribution by the Town to employees 401k (5%) and Town portion of NC Retirement (~7.5%)
10-540-0800	WORKERS COMPENSATION	Allocation by department for Workers Comp premiums for the year, additional premiums may be paid during the year if a department has a claim
10-540-1111	TELEPHONE - CELLULAR	*
10-540-1250	DUES & SUBSCRIPTIONS	Staff dues to professional organizations
10-540-1420	OSHA/SAFETY COMPLIANCE	Required items for OSHA compliance- work boots
10-540-1430	TRAINING-REGISTRATION & CLASS MAT'	Staff conference and class registration and materials
10-540-1431	TRAVEL MILEAGE	Staff mileage for conferences and training
10-540-1432	MEALS	Staff meals for conferences and training
10-540-1433	LODGING	Staff lodging for conferences and training
10-540-1610	NON-CAPITAL EQUIPMENT PURCHASE	Computers
10-540-1710	AUTO FUEL	Fuel for fleet vehicles
10-540-1730	VEHICLE MAINT & REPAIRS	Maintenance and Repair for Fleet Vehicles
10-540-1810	PERMITS & FEES RECURRING	Quartile Homeowner's Recover Fund dues
10-540-3510	HISTORIC COMM.EXPENSE	Miscellaneous expenses
10-540-3512	HISTORIC COMM-TRAVEL	Travel expense for Historic Commission
10-540-4510	PROFESSIONAL SERVICES	moved to Non-Departmental
10-540-8010	DEBT SERVICE - PRINCIPAL	Debt service on vehicles- principal
10-540-8011	DEBT SERVICE - INTEREST	Debt service on vehicles- interest
10-560-0000	**PUBLIC WORKS:**	
10-560-0200	SALARIES AND WAGES	Salaries paid bi-weekly (26 periods per year)
10-560-0201	OVERTIME	Overtime wages paid

Town of Beaufort - Chart of Accounts

Account #	Account Name	Account Description
10-560-0500	FICA EXPENSE	Federal Taxes for Social Security and Medicare withheld each pay period
10-560-0600	GROUP INSURANCE EXPENSE	Allocation by department for employee medical insurance - Town pays 100% of employee medical insurance
10-560-0700	RETIREMENT EXPENSE	Contribution by the Town to employees 401k (5%) and Town portion of NC Retirement (~7.5%)
10-560-0800	WORKERS COMPENSATION	Allocation by department for Workers Comp premiums for the year, additional premiums may be paid during the year if a department has a claim
10-560-1110	TELEPHONE	Telephone service for Public Works
10-560-1111	TELEPHONE- CELLULAR	*
10-560-1120	INTERNET\CABLE	Internet and cable service for the Public Works
10-560-1130	POSTAGE	Postage to mail trash bills included with the monthly water bill
10-560-1210	OFFICE SUPPLIES	Public Works office supplies
10-560-1221	OFFICE EQUIPMENT LEASE	Copier Lease
10-560-1230	OFFICE CONTRACT SERVICES	3rd party services for printing the Solid Waste/Utility Bill
10-560-1250	DUES AND SUBSCRIPTIONS	Staff dues to professional organizations
10-560-1310	ELECTRIC	Electricity for Public Works facility
10-560-1320	LP GAS	Propane to heat shop garage
10-560-1330	WATER\SEWER\ SOLID WASTE	Water and Trash Service for Public Works
10-560-1420	OSHA/SAFETY COMPLIANCE	Required items for OSHA compliance
10-560-1422	SAFETY SUPPLIES & MATERIALS	Rain gear, Safety and First Aid kits
10-560-1430	TRAINING -REGISTRATION & CLASS	Staff conference and class registration and materials
10-560-1432	MEALS	Staff meals for conferences and training
10-560-1440	UNIFORMS	Uniforms for Public Works and Sanitation employees
10-560-1610	NON-CAPITAL EQUIPMENT PURCHASE	Chainsaws, Hand Tools, Ladders
10-560-1630	EQUIPMENT MAINT. & REPAIRS	Blades, Batteries and parts needed for equipment repair
10-560-1710	AUTO FUEL	Fuel for fleet vehicles
10-560-1730	VEHICLE MAINT. & REPAIRS	Maintenance and Repair for Fleet Vehicles, Tires
10-560-1820	PERMITS & FEES - ONE TIME	Permits and Fees
10-560-3310	DEPARTMENT SUPPLIES & MATERIAL	Shop supplies, barricades, brooms, mops, janitorial supplies
10-560-3811	STREET CONT. SERVICES	Street Paving Repairs
10-560-3812	STREET SUPPLIES & MAT'L	street repairs and road painting supplies
10-560-3814	SIDEWALKS & MULTI-MODAL	Sidewalk Repairs
10-560-3900	PARKING METERS	Parking Meter supplies, repairs, software support
10-560-4550	CONTRACT SERVICES	porary Labor Service

Account #	Account Name	Account Description
10-560-4552	MOSQUITO CONTROL	Mosquito Control Supplies
10-560-4590	DREDGING EXPENSE	Funds wired to Army Corp for dredging
10-560-5400	INSURANCE	Public Works Property and Liability insurance
10-560-5900	STREET LIGHTS	Electricity for Streetlights
10-560-7430	CAPITAL OUTLAY - VEHICLES	Capital Vehicle purchases
10-560-8010	DEBT SERVICES-PRINCIPAL	Debt service on vehicles- principal
10-560-8011	DEBT SERVICES-INTEREST	Debt service on vehicles- interest
10-570-0000	**SANITATION:**	
10-570-0200	SALARIES AND WAGES	Salaries paid bi-weekly (26 periods per year)- Public Works employees
10-570-0201	OVERTIME	Overtime wages paid
10-570-0500	FICA EXPENSE	Federal Taxes for Social Security and Medicare withheld each pay period
10-570-0600	GROUP INSURANCE EXPENSE	Allocation by department for employee medical insurance - Town pays 100% of employee medical insurance
10-570-0700	RETIREMENT EXPENSE	Contribution by the Town to employees 401k (5%) and Town portion of NC Retirement (~7.5%)
10-570-1310	ELECTRIC	Electric for the compactor on Queen Street
10-570-1630	EQUIPMENT MAINT.	Items for compactor area, signage
10-570-1710	AUTO FUEL	Fuel for fleet vehicles
10-570-1730	VEHICLE MAINTENANCE	Maintenance and Repair for Fleet Vehicles, Tires
10-570-4520	COLLECTION CONTRACTED SV WBD ROLLOUT ONL	Waste Industries Collection for WBD SW and Recycle
10-570-4521	COLLECTION CONTRACTSVC RES ROLLOUT SW & RCY	Waste Industries Collection for Residential SW and Recycle
10-570-4560	RECYCLING DISPOSAL WBD CARDBOARD ONLY	Waste Industries Collection for WBD Cardboard Only
10-570-4561	SOLID WASTE DISPOSAL RES BULK SERVICE	Disposal of Bulk Items collected by the Town
10-570-4562	YARD DEBRIS DISPOSAL FEE DEE GARNER	Disposal of Yard Debris collected by the Town
10-570-4563	SOLID WASTE DISPOSAL WBD COMPACTOR FEE	Waste Industries Collection of Compactor
10-570-7420	CAPITAL OUTLAY - EQUIPMENT	Capital Equipment purchases - Compactor and site prep
10-570-7430	CAPITAL OUTLAY - VEHICLES	Capital Vehicle purchases
10-570-8010	DEBT SERVICES- PRINCIPAL (GRAPPLE TRUCK)	Debt service on vehicles- principal
10-570-8011	DEBT SERVICES - INTEREST (GRAPPLE TRUCK)	Debt service on vehicles- interest

Account #	Account Name	Account Description
10-580-0000	**STORMWATER**	
10-580-1610	NON-CAPITAL EQUIPMENT PURCHASES	Small Tools and Equipment for Storm water Maintenance
10-580-1710	DEPARTMENT SUPPLIES AND MATERIALS	Marking paint, pipes, seed
10-580-4550	CONTRACT SERVICES	Storm water Plan
10-620-0000	**FACILITIES & GROUND MAIN:**	
10-620-1111	TELEPHONE- CELLULAR	*
10-620-1310	ELECTRIC	Electricity at John Newton Park and "Special Event" receptacles
10-620-1510	TOWN HALL BLDG MAINT	Windows, blinds, mold removal, bathroom repairs, carpet, paint
10-620-1511	TOWN HALL GROUND MAINT	Tree trimming, ground clean-up, etc.
10-620-1512	TOWN HALL JANITORIAL SUPPLIES	Toilet paper, paper towels, door mat service, cleaning supplies
10-620-1513	TOWN HALL CONTRACTED SERVICES	Pest Control, cleaning service, fire extinguisher inspection
10-620-1520	TRAIN DEPOT BLDG MAINT	Paint, wood, bulbs, keys, locks
10-620-1522	TRAIN DEPOT JANITORIAL SUPPLIES	Toilet paper, paper towels, cleaning supplies
10-620-1523	TRAIN DEPOT CONTRACTED SERVICES	Paint crew, building repair, fire extinguisher inspection
10-620-1530	POLICE DEPT BLDG MAINT	Paint, bulbs, heating and air repair, new door for visitor entrance
10-620-1532	POLICE DEPT JANITORIAL SUPPLIES	Toilet paper, paper towels, door mat service, cleaning supplies
10-620-1533	POLICE DEPT CONTRACTED SERVICES	Pest Control, cleaning service, fire extinguisher inspection, security service
10-620-1540	PUBLIC WORKS BLDG MAINT	Bulbs, building materials, heat and air service, pest control service
10-620-1541	PUBLIC WORKS GROUND MAINT	Tree trimming, ground clean-up, etc.
10-620-1542	PUBLIC WORKS JANITORIAL SUPPLIES	Toilet paper, paper towels, door mat service, cleaning supplies
10-620-1550	CEMETERY MAINTENANCE	Lawn service for Oceanview and OBG, water service at Oceanview, electricity
10-620-1560	PUBLIC RESTROOM BLDG MAINT	Water service for public bathrooms and water fountains, supplies needed to repair and maintain bathrooms
10-620-1562	PUBLIC RESTROOM JANITORIAL SUPPLY	Toilet paper, paper towels, door mat service, cleaning supplies
10-620-1570	PARKS MAINTENANCE	Water service at public parks, items needed to repair or maintain public parks (basketball goals, parts for Town clock, hoses)
10-620-1573	PARKS CONTRACTED SERVICE	Port-A-John service, signs, Harborside Park (pass through to Friends of the Museum)
10-620-1580	DOCKS AND BOARDWALK MAINT	Boardwalk materials
10-620-1590	PUBLIC R.O.W. MAINT	Concrete, supplies for signs
10-620-1591	TREES	Trees to be planted
10-620-1592	WBD PROJECTS	t supplies for parking lots/spaces, signs, parking bollards

Account #	Account Name	Account Description
10-620-1610	NON CAPITAL EQUIPMENT PURCHASE	Pressure washer, paint sprayer, etc.
10-620-1630	EQUIPMENT MAINT & REPAIRS	lawn mower repair. oil, filters, blades
10-620-1900	PROPERTY LEASES	Lease for First Baptist Church parking lot
10-620-3310	DEPARTMENTAL SUPPLIES & MATERIALS	mutt mitts, keys, flagging tape, flags, etc.
10-620-4550	CONTRACT SERVICES	Contracted work at OBG, Engineer services for Boardwalk
10-620-6000	SPECIAL EVENTS	Tent for Memorial Day event, electric work for John Newton park
10-620-7440	CAPITAL OUTLAY - OTHER STRUCTURES	Boardwalk repairs
10-700-0000	**NON-DEPARTMENTAL:**	
10-700-0206	MERIT AWARDS	2.5% of General Fund salaries to be distributed among departments based on employee evaluations
10-700-1410	HUMAN RESOURCES	Background checks, pre-employment physicals, drug screens, tuition reimbursements, employee assistance programs, employment ads
10-700-1450	EMPLOYEE ENGAGEMENT	Employee recognition
10-700-4510	PROFESSIONAL SERVICES	Surveys, engineer services, transportation plan, audit
10-700-4530	LEGAL SERVICES	Attorney fees
10-700-5730	CONTINGENCY	for unforeseen expenditures
10-700-8010	DEBT SERVICE - PRINCIPAL	Town Hall debt payment
10-700-8011	DEBT SERVICE - INTEREST	Town Hall interest payment
10-800-0000	**GENERAL FUND TRANSFERS:**	
10-800-0001	CONTRIBUTION TO FIRE DEPT FUND	General Fund transfer to Fire Department
	UTILITY FUND REVENUE	
40-303-0009	GRANTS NC	AIA Grant
40-305-0001	REVENUE ACCOUNT REGULAR - WATER USAGE	Water usage
40-305-0002	REVENUE ACCOUNT REGULAR - SEWER USAGE	Sewer usage
40-305-0003	WATER TAP IN FEES	Water Taps
40-305-0004	SEWER TAP IN FEE	Sewer Taps
40-305-0005	ACCOUNT SERVICE CHARGES	Administrative service charge to open a new account ($25.00 each)
40-305-0006	WATER SERVICE CHARGES	Service fee for temporary usage
40-305-0007	SEWER SERVICE CHARGES	Payments received through credit collection for old delinquent write-off accounts

Account #	Account Name	Account Description
40-305-0008	LATE FEES - WATER	Late fee of 10% added to utility bill, when balance isn't paid by the due date
40-305-0009	LATE FEES - SEWER/GREASE	Late fee of 10% added to utility bill, when balance isn't paid by the due date (these accounts are sewer only)
40-305-0010	RETURNED CHECK FEES - WATER	Fee of $25.00 charged on returned checks
40-305-0012	TEMPORARY UTILITY USE CHARGE	Temporary Services- service charges
40-305-0013	SPRINKLER FEES	Annual fee charged to businesses with sprinkler systems
40-307-0003	MISCELLANEOUS REVENUE - WATER	Temporary Services- on for cleaning water charges
40-307-0004	MISCELLANEOUS REVENUE - SEWER	Temporary Services- on for cleaning sewer charges
40-307-0009	APP. REST.FUND BALANCE-WATER	Appropriated Capacity Fee Fund Balance
40-307-0010	APP. RESTRICTED FUND BALANCE- SEWER	Appropriated Capacity Fee Fund Balance
40-800-0000	**UTILITY FUND TRANSFERS**	
40-800-0206	MERIT AWARDS	2.5% of Utility Fund salaries to be distributed based on employee evaluations
40-800-1240	CONTRIBUTION TO GF FOR ADMIN SERVICES	Transfer to the General Fund for administrative services provided by the General Fund
40-800-8000	CONTRIBUTION TO CAPITAL RESERVE	Contribution to Capital Reserve
40-810-0000	**SEWER DEPARTMENT :**	
40-810-0200	SALARIES AND WAGES	Salaries paid bi-weekly (26 periods per year)- Public Works employees
40-810-0201	OVERTIME	Overtime wages paid
40-810-0500	FICA EXPENSE	Federal Taxes for Social Security and Medicare withheld each pay period
40-810-0600	GROUP INSURANCE EXPENSE	Allocation by department for employee medical insurance - Town pays 100% of employee medical insurance
40-810-0700	RETIREMENT EXPENSE	Contribution by the Town to employees 401k (5%) and Town portion of NC Retirement (~7.5%)
40-810-0800	WORKERS COMPENTSATION	Allocation by department for Workers Comp premiums for the year, additional premiums may be paid during the year if a department has a claim
40-810-1110	TELEPHONE	Landline service
40-810-1111	TELEPHONE-CELLULAR	*
40-810-1130	POSTAGE	on of the postage to mail utility bills

Account #	Account Name	Account Description
40-810-1210	OFFICE SUPPLIES	Office Supplies
40-810-1230	OFFICE CONTRACT SERVICES	3rd party services for printing the Utility Bill, NC 811 Locate Service
40-810-1250	DUES & SUBSCRIPTIONS	Staff dues to professional organizations
40-810-1310	ELECTRIC	Electricity for Lift Stations and sewer building
40-810-1330	WATER/SEWER/SOLID WASTE	Water and Trash Service
40-810-1420	OSHA/SAFETY COMPLIANCE	Gloves, safety vest
40-810-1422	SAFETY SUPPLIES & MATERIALS	First aid and other safety materials
40-810-1430	TRAINING - REGISTRATION & CLASS MA	Staff and employee conference and class registration and materials
40-810-1432	MEALS	Staff and employee meals for conferences and training
40-810-1433	LODGING	Staff and employee lodging for conference and training
40-810-1434	EMPLOYEE DEVELOPMENT /HUMAN RESOURCE	Background checks, pre-employment physicals, drug screens, tuition reimbursements, employee assistance programs, employment ads
40-810-1440	UNIFORMS	Uniforms for Sewer Department employees
40-810-1510	BUILDING MAINT	Building maintenance materials and repairs
40-810-1512	JANITORIAL SUPPLIES	Toilet paper, paper towels, cleaning supplies
40-810-1620	EQUIPMENT LEASE	Leased Backhoe
40-810-1630	EQUIPMENT MAINT & REPAIRS	Parts needed for equipment repair
40-810-1710	AUTO FUEL	Fuel for fleet vehicles
40-810-1730	VEHICLE MAINT & REPAIRS	Maintenance and Repair for Fleet Vehicles, tires, transmission repairs, brakes, alternator
40-810-1810	PERMITS & FEES - RECCURING	Permits and Fees
40-810-3310	DEPARTMENT SUPPLIES & MATERIALS	Stone, marking tape, lines, flags, concrete
40-810-4550	CONTRACT SERVICES	Fire Extinguisher inspection, credit checks for utility deposits, concrete repair, electrical services to trouble shoot lift stations as needed
40-810-5400	INSURANCE	Property and Liability insurance for Sewer Department and Equipment
40-810-7420	CAPITAL OUTLAY - EQUIPMENT	Generators for Lift Stations
40-810-8010	DEBT SERVICE-PRINCIPAL	Sewer loans debt payment
40-810-8011	DEBT SERVICE-INTEREST	Sewer loans interest payment
40-811-0000	**WWTP DEPARTMENT :**	
40-811-0200	SALARIES AND WAGES	Salaries paid bi-weekly (26 periods per year)
40-811-0201	OVERTIME	Overtime wages paid
40-811-0500	FICA EXPENSE	Federal Taxes for Social Security and Medicare withheld each pay period
40-811-0600	GROUP INSURANCE EXPENSE	Allocation by department for employee medical insurance - Town pays 100% of [illegible]loyee medical insurance

Town of Beaufort - Chart of Accounts

Account #	Account Name	Account Description
40-811-0700	RETIREMENT EXPENSE	Contribution by the Town to employees 401k (5%) and Town portion of NC Retirement (~7.5%)
40-811-0800	WORKERS COMPENSATION	Allocation by department for Workers Comp premiums for the year, additional premiums may be paid during the year if a department has a claim
40-811-1110	TELEPHONE	Landline service
40-811-1111	TELEPHONE - CELLULAR	*
40-811-1120	INTERNET/CABLE	Internet service for WWTP
40-811-1130	POSTAGE	Portion of the postage to mail utility bills
40-811-1210	OFFICE SUPPLIES	Office Supplies
40-811-1230	OFFICE CONTRACT SERVICES	IT support
40-811-1250	DUES & SUBSCRIPTIONS	Staff dues to professional organizations
40-811-1310	ELECTRIC	Electricity for WWTP
40-811-1330	WATER/SEWER/SOLID WASTE	Water and Trash Service
40-811-1420	OSHA/SAFETY COMPLIANCE	Gloves, safety vest, safety glasses, work boots
40-811-1422	SAFETY SUPPLIES & MATERIALS	First aid and other safety materials
40-811-1430	TRAINING -REGISTRATION & CLASS MAT	Staff and employee conference and class registration and materials
40-811-1431	TRAVEL MILEAGE	Staff and employee mileage for conferences and training
40-811-1432	MEALS	Staff and employee meals for conferences and training
40-811-1433	LODGING	Staff and employee lodging for conference and training
40-811-1440	UNIFORMS	Uniforms for Sewer Department employees
40-811-1510	BUILDING MAINT	Building maintenance materials and repairs
40-811-1512	JANITORIAL SUPPLIES	Toilet paper, paper towels, cleaning supplies
40-811-1610	NON-CAPITAL EQUIPMENT PURCHASE	Mixer, motor parts
40-811-1630	EQUIPMENT MAINT & REPAIRS	Parts needed for equipment repair
40-811-1710	AUTO FUEL	Fuel for fleet vehicles
40-811-1730	VEHICLE MAINT & REPAIRS	Maintenance and Repair for Fleet Vehicles, tires, transmission repairs, brakes, alternator
40-811-1810	PERMITS AND FEES - RECURRING	Permits and Fees
40-811-1830	COMPLIANCE TESTING	Lab analysis and sample testing
40-811-3310	DEPARTMENT SUPPLIES & MATERIALS	Lab supplies, chemicals, field supplies
40-811-4510	PROFESSIONAL SERVICES	Electrical service for repairs
40-811-4550	CONTRACT SERVICES	Pest control, fire extinguisher inspection, dumpster service, heat and air service
40-811-5400	INSURANCE	Property and Liability insurance for WWTP Department and Equipment
40-811-8010	DEBT SERVICE - PRINCIPAL	TP loans debt payment

Account #	Account Name	Account Description
40-811-8011	DEBT SERVICE - INTEREST	WWTP loans interest payment
40-812-0000	**WATER DEPARTMENT :**	
40-812-0200	SALARIES AND WAGES	Salaries paid bi-weekly (26 periods per year) - Public Works employees
40-812-0201	OVERTIME	Overtime wages paid
40-812-0500	FICA EXPENSE	Federal Taxes for Social Security and Medicare withheld each pay period
40-812-0600	GROUP INSURANCE EXPENSE	Allocation by department for employee medical insurance - Town pays 100% of employee medical insurance
40-812-0700	RETIREMENT EXPENSE	Contribution by the Town to employees 401k (5%) and Town portion of NC Retirement (~7.5%)
40-812-0800	WORKERS COMPENSATION	Allocation by department for Workers Comp premiums for the year, additional premiums may be paid during the year if a department has a claim
40-812-1110	TELEPHONE	Landline service
40-812-1111	TELEPHONE-CELLULAR	*
40-812-1130	POSTAGE	Portion of the postage to mail utility bills
40-812-1210	OFFICE SUPPLIES	Office Supplies
40-812-1230	OFFICE CONTRACT SERVICES	IT support, 3rd party services to print the utility bill,, collection services for delinquent accounts
40-812-1250	DUES AND SUBSCRIPTIONS	Staff dues to professional organizations
40-812-1310	ELECTRIC	Electricity for Water Department
40-812-1320	LP GAS	Lp gas for Water Department
40-812-1330	WATER/SEWER/SOLID WASTE	Water and Trash Service
40-812-1420	OSHA/SAFETY COMPLIANCE	Gloves, safety vest, safety glasses, work boots, first aid supplies
40-812-1430	TRAINING -REGISTRATION&CLASS MAT'L	Staff and employee conference and class registration and materials
40-812-1431	TRAVEL MILEAGE	Staff and employee mileage for conferences and training
40-812-1432	MEALS	Staff and employee meals for conferences and training
40-812-1434	EMPLOYEE DEVELOPMENT	Staff and employee lodging for conference and training
40-812-1440	UNIFORMS	Uniforms for Water Department employees
40-812-1510	BUILDING MAINT	Building maintenance materials and repairs
40-812-1512	JANITORIAL SUPPLIES	Toilet paper, paper towels, cleaning supplies
40-812-1610	NON-CAPITAL EQUIPMENT PURCHASES	Printers, scales, and other small equipment
40-812-1630	EQUIPMENT MAINT. & REPAIRS	Parts needed for equipment repair
40-812-1710	AUTO FUEL	Fuel for fleet vehicles

Town of Beaufort - Chart of Accounts

Account #	Account Name	Account Description
40-812-1730	VEHICLE MAINT. & REPAIRS	Maintenance and Repair for Fleet Vehicles, tires, transmission repairs, brakes, alternator
40-812-1810	PERMITS & FEES - REOCCURING	Permits and Fees
40-812-1830	COMPLIANCE TESTING	Lab analysis and sample testing
40-812-3310	DEPARTMENT SUPPLIES & MATERIALS	Lab supplies, chemicals, field supplies
40-812-4550	CONTRACT SERVICES	Southern Corrosion maintenance contract, Rivers and Assoc (AIA grant), fire extinguisher inspection, credit checks for utility deposits, heat and air service
40-812-4570	COUNTY WATER PURCHASE	Water purchased from the County to service Eastman's Creek and other areas
40-812-5400	INSURANCE	Property and Liability insurance for WWTP Department and Equipment
40-812-7410	CAPITAL OUTLAY - BLDG.	Repairs to water treatment building
40-812-7440	CAPITAL OUTLAY - CONT. SERVICES	Water line repairs
40-812-8010	DEBT SERVICE - PRINCIPAL	Water loans debt payment
40-812-8011	DEBT SERVICE - INTEREST	Water loans interest payment
		*-The Town changed over to a cell stipend program in August. Therefore, many departments no longer have a cell phone charge. Police and Fire maintain the necessary phones needed for their departments, The Town has realized a $3500 savings during the first 6 months of FY18.