

Minutes of the Work Session of  
The Liberty Town Council  
Held on September 19, 2022 5:30 PM

Present

Mayor: The Honorable Filmore York

Council: Terry Caviness, Larry Coble, Don Herndon, and Tyson Nixon

Town Manager: Scott Kidd

Town Clerk: Jessica Brown

Staff: Police Chief; David Semrad, Finance Director; Kathy Bond, Safety Director; Bret Pedigo, Library Director; Brenda Heindl, NC Fellow; Brice Dalke, Parks and Recreation Director; Logan Maness, Public Works Director; Joseph Walsh, and Fire Chief; Matt Talbott

Town Attorney; Bill Flowe

To Order

The Mayor called the meeting to order at 5:30 pm and welcomed everyone. He welcomed everyone on Facebook. Council Member JR Beard is participating in an activity for Providence Grove High School and will not be attending the meeting tonight.

Adoption of Agenda

Council Member Don Herndon made a motion to adopt the agenda. Council Member Terry Caviness seconded the motion which passed unanimously. Council Members Larry Coble, Don Herndon and Terry Caviness, and Tyson Nixon voted yes and adopted the agenda.

Information

**Monthly Reports**

Mayor York remarked the new signs at Freedom Park looked good. Library Director Brenda Heindl said she attended the Association of Small and Rural Libraries Conference in Chattanooga. The construction is complete at the library and they are getting things organized.

Fire Chief Talbott attended classes at SAFRE.

Public Works Director Joseph Walsh said the generator sold for \$1248.28 and the Leaf Vac sold for \$7,041.94 on govdeals. There were no bids on the manhole covers. The grapple truck they were interested in exceeded the budget so they are still looking. Some paving is being done at Dameron and the parking lot next to the Showcase theater. Mayor York wished Mr. Walsh congratulations on the birth of his baby girl. Police Chief David Semrad said an applicant has accepted the job for their open position. They are

waterproofing at the new building and have replaced the roll up door. Council Member Larry Coble asked if he thought they would be in the building by the end of the year and Chief Semrad said hopefully in the spring.

### Administrative

#### **Manager's Report**

Town Manager Scott Kidd gave the report. The CDBG grant will be complete once the audit is done. We have submitted plans for the ASADRA grant to the state. We are looking for additional funds through the Planning Grant. He is impressed with the amount of grants we have received. Some staff and elected officials will be taking quarterly training as part of being labeled as distressed by the State Water Infrastructure Authority and Local Government Commission. We are finally finalizing sam.gov which we will be getting an update on next week. Public Works is replacing boxes for the new meters which should be started next month.

### Old Business

#### **Continuation Public Hearing SUP-22-1 6988 Kinro Road September 26, 2022**

There will be a continuation of the Quasi Judicial Hearing that began at the July 25th Council Meeting for a Special Use Permit 22-1 request for Watershed SNIA (Special Non-residential Intensity Allocation) for 6988 Kinro Road.

#### **Annexation Petition 6988 Kinro Rd. Liberty**

This is a Public Hearing to discuss the petition requesting annexation for 6988 Kinro Road, Liberty on Monday September 26, 2022 at 5:30 PM.

### New Business

#### **RZ-22-1 D. Staley Public Hearing September 26, 2022**

There will be an advertised legislative public Hearing in relation to a rezoning of a property from R40 Residential to I industrial Monday September 26, 2022 5:30 PM at the regular Council Meeting. Interested parties will be heard at this time. Planning and Zoning Consultant Reynolds Neely will be here to give a staff report.

#### **RZ-22-2 EHC Builders, LLC Public Hearing September 26, 2022**

There will be an advertised legislative Public Hearing in relation to a rezoning of a property from R12 Residential to RMF Multi-Family Residential Monday September 26, 2022 5:30 PM at the regular Council Meeting. Interested parties will be heard at this time. Planning and Zoning Consultant Reynolds Neely will be here to give a staff report.

#### **Resolution 2022-9 Planning Grant WWTP**

This needs to be voted on tonight. This resolution states that the Town of Liberty has need for and intends to construct, plan for, or conduct a study for two projects : 1) Wastewater Treatment Plant (WWTP) Pre-Construction Planning Project and 2) Construction funding for a Collection System Improvements Project and intends to request State loan and/or grant assistance for the project.

Council Member Tyson Nixon made a motion to approve this resolution. Council Member Don Herndon seconded the motion which passed unanimously with Council Members: Larry Coble, Terry Caviness, Don Herndon, and Tyson Nixon voting yes.

#### **Water/Sewer CIP (ten years)**

This is to adopt the ten year Water/Sewer CIP (Capital Improvement Plans) which helps with long term planning and asset management for the water and sewer systems.

Council Member Larry Coble made a motion to adopt the plan. Council Member Tyson Nixon seconded the motion which passed unanimously with Council Members : Larry Coble, Terry Caviness, Don Herndon, and Tyson Nixon voting yes to adopt.

**Road Closure Request Liberty Elementary - Fall Festival**

Liberty Elementary School is requesting temporary street closure for their annual Fall Festival Friday October 21, 2022.

Council Member Don Herndon made a motion to approve the Road Closure. Council Member Terry Caviness seconded the motion which passed unanimously with Council Members: Larry Coble, Terry Caviness, Don Herndon and Tyson Nixon voting yes to approve.

**Budget Amendment # 4**

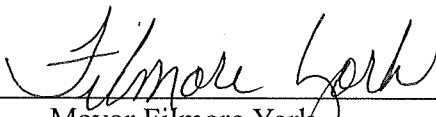
This amendment is to move funds from Miscellaneous Revenue to the Library Program line item. The funds were received from Berea College.

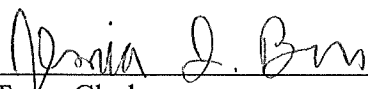
Mayor Comments

Mayor York reminded everyone of the Downtown Festival this Saturday and said Toyota will have a tent at the Methodist Church.

Motion to Adjourn

There being no further business to discuss, Council Member Tyson Nixon motioned to adjourn the meeting and Council Member Don Herndon seconded the motion which passed unanimously. Council Member Larry Coble voted yes, Council Member Don Herndon voted yes, Council Member Tyson Nixon voted yes and Council Member Terry Caviness voted yes. The meeting was adjourned.

  
\_\_\_\_\_  
Mayor Filmore York

ATTEST:   
\_\_\_\_\_  
Town Clerk



Town of Liberty  
P. O. Box 1006  
239 South Fayetteville Street  
Liberty, North Carolina 27298  
(336) 622-4276 phone (336) 622-2665 fax

**RESOLUTION 2022-10**

**RESOLUTION AUTHORIZING A TEMPORARY STREET CLOSING IN  
ACCORDANCE WITH THE LIBERTY CODE OF ORDINANCES § 90.33**

**WHEREAS**, the Town of Liberty is willing to accommodate temporary street closures for civic events; and

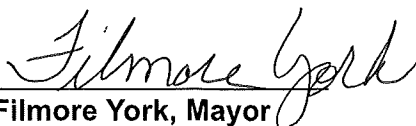
**WHEREAS**, the Town Manager will have appropriate traffic control devices installed to give notice of the temporary street closing; and

**WHEREAS**, the Town Manager has received a written request reviewed by Public Safety for a temporary street closing from Rose Rook, Liberty Elementary School PTO for the Liberty School Fall Festival and recommends said closing ;

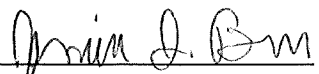
**WHEREAS**, this event will benefit the community and not hamper other Town of Liberty activities on the date of request; and

**NOW, THEREFORE, BE IT RESOLVED** that the Town Council of the Town of Liberty, North Carolina, meeting in regular session on the 26th day of September, 2022 allows the temporary street closing below:

From 4:00PM to 8:00PM on Friday October 21, 2022 for the purpose of the Liberty School Fall Festival to occur with closure of section of N. Fayetteville Street in front of Liberty Elementary School. The rain date is Friday November 4, 2022.

  
Filmore York, Mayor

ATTEST:

  
Jessica Brown, Town Clerk



**RESOLUTION BY TOWN OF LIBERTY TOWN COUNCIL**

**Resolution 2022-9**

**Town of Liberty**

**239 S. Fayetteville Street**

**PO Box 1006**

**Liberty, NC 27298**

WHEREAS, The Town of Liberty has need for and intends to construct, plan for, or conduct a study for two projects described as 1). Wastewater Treatment Plant (WWTP) Pre-Construction Planning Project, and 2). Construction funding for a Collection System Improvements Project, and

WHEREAS, The Town of Liberty intends to request State loan and/or grant assistance for the project,

**NOW THEREFORE BE IT RESOLVED, BY THE TOWN COUNCIL OF THE TOWN OF LIBERTY:**

That the Town of Liberty, the **Applicant**, will arrange financing for all remaining costs of the project, if approved for a State loan and/or grant award.

That the **Applicant** will provide for efficient operation and maintenance of the project on completion of construction thereof.

That the **Applicant** will adopt and place into effect on or before completion of the project a schedule of fees and charges and other available funds which will provide adequate funds for proper operation, maintenance, and administration of the system and the repayment of all principal and interest on the debt.

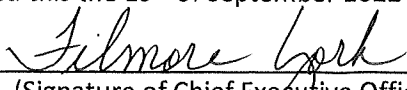
That the governing body of the **Applicant** agrees to include in the loan agreement a provision authorizing the State Treasurer, upon failure of the Town of Liberty to make a scheduled repayment of the loan, to withhold from the Town of Liberty any State funds that would otherwise be distributed to the local government unit in an amount sufficient to pay all sums then due and payable to the State as a repayment of the loan.

That, Filmore York, Mayor, and Scott Kidd, Town Manager, the **Authorized Officials**, and successors so titled, are hereby authorized to execute and file applications on behalf of the **Applicant** with the State of North Carolina for a loan and/or grant to aid in the study of or construction of the project described above.

That the **Authorized Officials**, and successors so titled, are hereby authorized and directed to furnish such information as the appropriate State agency may request in connection with such applications or the projects: to make the assurances as contained above; and to execute such other documents as may be required in connection with the applications.

That the **Applicant** has substantially complied or will substantially comply with all Federal, State, and local laws, rules, regulations, and ordinances applicable to the project and to Federal and State grants and loans pertaining thereto.

Adopted this the 19<sup>th</sup> of September 2022 at Liberty, North Carolina.



(Signature of Chief Executive Officer)



**CERTIFICATION BY RECORDING OFFICER**

The undersigned duly qualified and acting (Town Clerk) of the Town of Liberty does hereby certify: That the above/attached resolution is a true and correct copy of the resolution authorizing the filing of an application with the State of North Carolina, as regularly adopted at a legally convened meeting of the City Council duly held on the 19<sup>th</sup> day of September 2022; and, further, that such resolution has been fully recorded in the journal of proceedings and records in my office. IN WITNESS WHEREOF, I have hereunto set my hand this  
\_\_19th\_\_ day of \_\_September\_\_\_\_\_, 2022\_\_.

Kevin J. Bm  
(Signature of Recording Officer)

Town Clerk  
(Title of Recording Officer)



Town of Liberty

**RESOLUTION TO ADOPT AND APPROVE 2022-2031 CAPITAL IMPROVEMENT PLAN**

WHEREAS, the Town of Liberty has developed a water and sewer system in and around the Town of Liberty; and

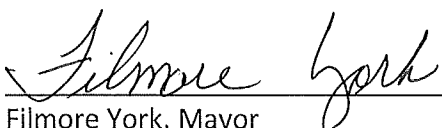
WHEREAS, said municipal water and sewer system is operated and maintained by the Town; and

WHEREAS, the Town of Liberty recognizes the need for, and advantage of, maintaining adequate short-term and long-term planning for capital improvements and asset management for the water and sewer systems.

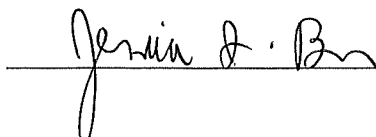
NOW, THEREFORE, BE IT RESOLVED by the Town Council of the Town of Liberty that the 2022-2031 is hereby adopted and approved for implementation; and

BE IT FURTHER RESOLVED that the Town Council authorizes staff to update the plan as new information becomes available.

Adopted this the 19th of September, 2022.

  
\_\_\_\_\_  
Filmore York, Mayor

ATTEST:

  
\_\_\_\_\_





Town of Liberty  
P. O. Box 1006  
239 South Fayetteville Street  
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(336) 622-4276 phone (336) 622-2665 fax  
www.Liberty-NC.com

# Town of Liberty

## Capital Improvement Plan (CIP)

### 2022 - 2031

Adopted 9/19/2022

Filmore York  
Filmore York, Mayor

9/19/2022  
Date

Attest:

Jessica Brown  
Jessica Brown, Town Clerk



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## **SECTION I**

## **DESCRIPTION OF PROJECT AREA**

The Town of Liberty is a small Town that has not seen very much, or if any, growth over the past 15 years. The total population is around 2,650 citizens and Liberty embraces their small town feel. Liberty is now in a unique position where they can control their growth that will come from two megasite projects that are both estimated to bring 1,800 jobs per site that were both announced in the same year. The announcements of these projects have potentially changed the future for Liberty and all surrounding areas. Liberty covers approximately 3 square miles and has 2,650 citizens. If you combine the Toyota Plant and WolfSpeeds sites together you would have around 6 square miles of land being developed with a total of over 3,000+ total jobs being created.

This water and sewer CIP will attempt to capture the future needs of Liberty's water and sewer infrastructure during these times of uncertain and unforeseeable growth.

## **SECTION II**

## **DESCRIPTION OF EXISTING FACILITIES**

### **A. General Status**

Liberty has a proud history when it comes to their water and sewer service. In the late 1920's, there was one of many large fires in the downtown district. As a result, the mayor at the time began installing the first ground well, water storage tank and water distribution lines in 1926. In the 1940's, completed sometime between 1946-1948, the original wastewater treatment plant was constructed. It was a trickle system that discharged into the North Rocky River Prong, which belongs to the Rocky River Watershed and eventually ends up in the Cape Fear River. In 1964, the wastewater collection system was expanded and the old trickle filter plant doubled in size..

In the late 1980's, the trickle filter system was abandoned and a sewer sprayfield and lagoon was installed. The current wastewater treatment plant consists of a 16 acre lagoon and over 100 acres



of spray fields. The current treatment capacity is 550,000 gallons per day. Liberty currently has 3 water storage tanks that hold a capacity of 950,000 gallons of water with 9 active wells.

## **B. EXISTING CAPACITY**

### **Wastewater System**

The existing wastewater system has a capacity of 550,00 GPD utilizing a wastewater spray irrigation system. Existing flows vary widely due to I/I but typically average approximately 0.3 MGD leaving approximately 0.25 MGD of available capacity. Wet weather flows can exceed 3-4 MGD which have resulted in bypasses and overflows at the WWTP pump station. The Town of Liberty currently is working on many grants to reduce the I/I in the system and will continue to help the overall MGD at the WWTP. A WWTP condition assessment and Feasibility Study will need to be completed at the WWTP so we can see all avenues for growth and expansion as that arises.

### **Water System**

Available supply from the Town's groundwater supply wells is 0.559 MGD. The service area demand is currently approximately 0.1741 MGD and utilizes approximately 31% of the available capacity. The system has a remaining capacity of approximately 0.3849 MGD and is not anticipated to need additional capacity in planning period unless substantial growth occurs from the Greensboro-Randolph Megasite and/or CAM site in Siler City. We will continue to monitor the growth in Liberty and look at all avenues to sustain our water capacity.



## C. PRESENT CONDITION

### Wastewater System

The current sanitation sewer collection system consists of 6-inch through 12-inch gravity lines, 7 sanitation sewer pumping stations and associated force mains. Major sewer installation around Liberty occurred in 1927, 1954 1963, and 1969.

Between the years of 2000 thru 2008, the Town of Liberty made some major improvements to the current collection system. There was a three phase inflow and infiltration (I/I) project that replaced approximately 3,500 linear feet of sewer line, replaced approximately 25 manholes with new ones, and completed 2,000 linear feet of slip lining. This project was a big improvement to reduce the I/I from the system. The I/I continues to be an overall problem and the Town is going to seek options to supplement the ASADRA grant with some more funds to help find and fix all the problems in our system. With there being many funds and grants available through ARPA, the Town is looking for additional supplemental funds to go along with our ASADRA project to address our entire system. The Collection System was included in the Water/Sewer Capacity Study and the GIS mapping. The mapping indicates all lines, manholes, lift stations, etc. that are associated with the collection system. The Town is also conducting an AIA grant for all of the collections system.

During 2009, the Town replaced 3,000 linear feet of 8" sewer line and manholes from Frazier Avenue to the Kinro pump station. This replaced the old terra cotta pipe that was installed back in the 1950's. This outfall line has experienced numerous backups and overflows due to misaligned joints and deterioration and also is a source of inflow and infiltration. The upgrade will be a major improvement to our efforts to replace or rehab the remaining older sewer lines in the collection system.



During 2019-2020 Budget year, there were some major issues with the UltraCraft Lift Station. Due to these issues, the lift station was completely rehabilitated. All aspects of the lift station were upgraded including propellers, rails, and electrical panel upgrades.

The future demands on the sanitation sewer collection will necessitate continual upgrading of the aging and antiquated sewer systems as well as some expansion. We are trying to anticipate growth on our 3 major corridors. The draft Randolph County water and sewer master plan shows new pump stations at all the major interchanges with NC Hwy 421. We expect growth to go out Swannanoa to Old Liberty Rd and want to be proactive and place a pump station in that area to serve the expected growth. The Town of Liberty has recently purchased an existing building on Old Liberty Rd for the new Police Station and would like to run sewer in that area.

The 10-year goal will be to continue replacement of the 1927 system and replacement of most of the 1954 system. The plan also provides for replacement of major maintenance equipment required during the 10-year period. Also, the town will be working on completing all manhole rehabilitation that is left in the system.

### **Water System**

The current water supply is provided by 9 deep wells with capacities ranging from 45 gallons per minute (gpm) to 220 gallons per minute (gpm). The distribution system consists of 2-inch through 12-inch water lines with storage capacities provided by 3 elevated storage tanks with a total capacity of 950,000 gallons. All residents of the Town of Liberty are served by the existing water system. The system serves over 1,200 residential customers, and approximately 200 commercial, industrial, and institutional customers. Three water tanks provide a total of approximately 0.95 million gallons in elevated storage.

Future demands will necessitate the increase of the back bone of the water distribution system by the addition of 12-inch pipes to provide for looping of the water system. Some minor looping of the system will require the connection of existing 6-inch and 8-inch water lines.



It is also anticipated that our water system will require additional wells to furnish our town with the quality and quantity of clean water required. Standby generators will also be installed at the majority of the wells in order that the Town can be assured of a continuous water supply during emergency events. The Town is in the process of upgrading all meters to a digital meter reading system that should be complete by January 1, 2023. This will reduce staff cost but also increase meter reading accuracy in our system.

The Town is currently under a 10 year maintenance/management contract for the Water Tanks which will include annual inspection, scheduled exterior and interior painting and scheduled washouts on all three tanks.

#### **D. LONG TERM POTENTIAL ALTERNATIVES**

The Town anticipates continuing to utilize the existing water and sewer systems during the planning period without substantive changes. The current focus is on improving the condition of the existing facilities, completing a condition assessment and feasibility study at the WWTP, adding a pump station on Old Liberty Road, and applying for more funds that can supplement the ASADRA grant that the Town already has been awarded.



**SECTION IV**

**DESCRIPTION OF KNOWN DEFICIENCIES**

**A. CAPITAL OUTLAY NEEDS**

A total of 67 projects were identified to be included in the Capital Improvements Plan as needed. These projects are identified in no particular order and will be updated after the asset and inventory assessment is completed for water and sewer. A 10 year CIP of projects for importance is attached after all water and sewer project descriptions. The 10 year CIP spreadsheet will be the guide for budgeting over the next 10 years and can be adjusted yearly as needed to help guide the overall Enterprise Budget.

**Water System Projects**

<b><u>Project #</u></b>	<b><u>Project Name</u></b>	<b><u>Estimated Cost</u></b>
<b>Project 1</b>	<b>Update 1415 Water Meter and Software</b>	<b>\$500,000.00</b>

**Description:** Project consists of upgrades to the existing water meters and billing software. A remote read meter system would be installed to improve efficiency for meter reading to allow Town staff more time for other work. Upgraded water meters are also anticipated to improve accuracy and water loss accounting.

<b>Project 2</b>	<b>Water Tank Maintenance on 3 tanks</b>	<b>\$75,000.00/year</b>
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**Description:** The Town has 3 elevated water storage tanks which require annual inspections and ongoing maintenance of interior and exterior coatings. This project consists of cost for a maintenance contract with a vendor to provide all tank maintenance on these facilities.

<b>Project 3</b>	<b>Replace Backhoe to replace 1994 backhoe</b>	<b>\$130,000.00</b>
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**Description:** The Town has a backhoe that is nearing the end of its useful life and will need to be replaced in the near future. This equipment is frequently used for water system maintenance but can be used by other departments also.

<b>Project 4</b>	<b>Well 2 Install New Generator</b>	<b>\$45,000.00</b>
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**Description:** Install a standby generator at Well 2 such that the well can be utilized during power outages to maintain water supply for the town.

<b>Project 5</b>	<b>Well 8 Install New Generator</b>	<b>\$45,000.00</b>
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**Description:** Install a standby generator at Well 2 such that the well can be utilized during power outages to maintain water supply for the town.

<b>Project 6</b>	<b>Well 4 Improvements</b>	<b>\$150,000.00</b>
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**Description:** Well improvements at Well 4 include replacement of the well building, replacing piping and valves in the well, electrical equipment and installation of a new standby generator to



allow the well to be used during power outages.

**Project 7 Well 1 Replace Plumbing & New Generator \$100,000.00**

**Description:** Well improvements at Well 1 include replacement of the piping and valves at the well and installation of a new standby generator to allow the well to be used during power outages.

**Project 8 Replace/Rehab Water Mains \$100,000.00/year**

**Description:** The Town's water system is in fair to poor condition and has had substantial water loss primarily caused by leaking water lines. This item will serve as an annual budget to replace water lines as identified by the utility director as the highest priority lines.

**Project 9 Update SCADA for Wells and Tanks \$25,000.00/year**

**Description:** Existing wells have older SCADA equipment or are lacking SCADA equipment entirely. This item is an annual budget item to upgrade the SCADA systems to bring them up to current standards.

**Project 10 2018 F-150 Truck #1 Mileage-14,211 \$25,000.00**

**Description:** This item is a part of the vehicle inventory list for the water department. This item may or may not need replacing within this ten year CIP.

**Project 11 JohnDeere 50G Mini Excavator 360 hrs. \$60,000.00**

**Description:** This item is a part of the equipment inventory list for the water department. This item is used both in the water and sewer departments to excavate lines that may need repairing or replacing.

**Project 12 Well 1 10hp Pump Motor and Pump End \$6,000.00**

**Description:** This item is a part of the inventory list and is a crucial part in the water works operation for the Town. This item will only need replacing if it is not in working condition.

**Project 13 Well 2 15hp Pump Motor and Pump End \$7,000.00**

**Description:** This item is a part of the inventory list and is a crucial part in the water works operation for the Town. This item will only need replacing if it is not in working condition.

**Project 14 Well 2 Replace Plumbing \$8,680.00**

**Description:** Well improvements at Well 2 include replacement of the piping and valves at the well.

**Project 15 Well 4 20hp Pump Motor and Pump End \$7,500.00**

**Description:** This item is a part of the inventory list and is a crucial part in the water works operation for the Town. This item will only need replacing if it is not in working condition.

**Project 16 Well 5 7.5hp Pump Motor and Pump End \$7,000.00**

**Description:** This item is a part of the inventory list and is a crucial part in the water works operation for the Town. This item will only need replacing if it is not in working condition.



- Project 17 Well 5 Improvements \$150,000.00**  
**Description:** Well improvements at Well 5 include replacement of the well building, replacing piping and valves in the well, electrical equipment and installation of a new standby generator to allow the well to be used during power outages. - Replaced Bolts to stainless steel - 5/2020
- Project 18 Well 6 15hp Pump Motor and Pump End \$7,000.00**  
**Description:** This item is a part of the inventory list and is a crucial part in the water works operation for the Town. This item will only need replacing if it is not in working condition.
- Project 19 Well 6 Replace Plumbing \$7,500.00**  
**Description:** Well improvements at Well 6 include replacement of the piping and valves at the well.
- Project 20 Well 6 50kw Natural Gas Generator \$40,000.00**  
**Description:** This item is a part of the equipment inventory list. This item is used at Well 6 during a power outage event. This item will only need replacing when it is not in good working condition.
- Project 21 Well 8 15hp Pump Motor and Pump End \$7,000.00**  
**Description:** This item is a part of the inventory list and is a crucial part in the water works operation for the Town. This item will only need replacing if it is not in working condition.
- Project 22 Well 10 25hp Pump Motor and Pump End \$10,000.00**  
**Description:** This item is a part of the inventory list and is a crucial part in the water works operation for the Town. This item will only need replacing if it is not in working condition.
- Project 23 Well 10 Replace Plumbing \$7,872.00**  
**Description:** Well improvements at Well 10 include replacement of the piping and valves at the well. New relay start stop switch installed 4/2020
- Project 24 Well 10 50kw Generator \$40,000.00**  
**Description:** Install a standby generator at Well 10 such that the well can be utilized during power outages to maintain water supply for the town.
- Project 25 Well 11 10hp Pump Motor and Pump End \$6,000.00**  
**Description:** This item is a part of the inventory list and is a crucial part in the water works operation for the Town. This item will only need replacing if it is not in working condition.
- Project 26 Well 11 30kw Generator \$40,000.00**  
**Description:** This item is a part of the equipment inventory list. This item is used at Well 11 during a power outage event. This item will only need replacing when it is not in good working condition.
- Project 27 Well 12 Pump Motor and Pump End \$15,000.00**



**Description:** This item is a part of the inventory list and is a crucial part in the water works operation for the Town. This item will only need replacing when it is not in working condition.

**Project 28 Well 12 75kw Generator \$50,000.00**

**Description:** This item is a part of the equipment inventory list. This item is used at Well 12 during a power outage event. This item will only need replacing when it is not in good working condition.

**Sewer System Projects**

**Project # Project Name Estimated Cost**

**Project 29 W. Kime Ave Lift Station Inflow Lines \$500,000.00**

**Description:** The proposed project includes the replacement or rehabilitation of sewer lines tributary to the W. Kime Ave. lift station. The station has suffered a number of sewer overflows and rehabilitation of the sewers is proposed to reduce infiltration and inflow. This lift station primarily services to the area West of S. Asheboro Street and south of Swannanoa Ave. CDBG Rehabilitation project in progress 6/21.

**Project 30 Kinro Road Lift Station Inflow Lines \$500,000.00**

**Description:** The proposed project includes the replacement or rehabilitation of sewer lines tributary to the Kinro Road lift station. The station has suffered a number of sewer overflows and rehabilitation of the sewers is proposed to reduce infiltration and inflow. This lift station primarily services to the area East of S. Asheboro Street and south of Swannanoa Ave.

**Project 31 By-pass Pump Station Upgrade \$150,000.00**

**Description:** This project consists of improvements to the main influent lift station at the wastewater treatment facility to install a bypass pump station to increase the firm capacity and/or provide flow equalization to reduce or eliminate sanitary sewer overflows that have occurred at this location.

**Project 32 Ultra-Craft Lift Station Upgrade \$150,000.00**

**Description:** This project consists of upgrading the pump station at the Ultra-Craft facility. The existing pump station is a simplex pump station and has suffered reliability issues. The improvements will include installation of a new duplex pumping system and standby power. Completed 3/2020

**Project 33 125 HP Pumps @ WWTP replace or rebuild \$60,000.00**

**Description:** This project consists of replacing or rebuilding the primary irrigation pumps at the wastewater treatment plant. These pumps are at the end of their useful life and are expected to need substantial improvements during the next few years. Rehabbed one pump and one motor 6/2020. Refurbished 2 impellers 5/21 and rebuilt motors

**Project 34 WW Lagoon Sludge Gate Replacement \$100,000.00**

**Description:** The wastewater treatment lagoon has a 3 gate system with upper middle and lower



gates. This project consists of replacing the lower gate to improve functionality and screening from the lagoon. The existing gate has allowed large debris and turtles to enter the pump system resulting in pump failures.

**Project 35 Industrial Lift Station Update (control panel and generator) \$150,000.00**

**Description:** This project consists of upgrades to the Industrial Lift Station to improve reliability. The improvements will include installation of a new pump control panel, and standby generator with automatic transfer switch.

**Project 36 2019 Backhoe \$110,000.00**

**Description:** The Town has a backhoe that is new and has years of use ahead. This equipment is frequently used for sewer system maintenance but can be used by other departments also.

**Project 37 Sewer Vac Truck \$250,000.00**

**Description:** This item consists of the purchase of a sewer Vac truck for sewer system cleaning and maintenance. This equipment is critical to cleaning lines and pump stations and would allow the Town to remove debris such that it does not cause further clogging downstream. A vac truck may also be utilized for stormwater system maintenance to improve flows by keeping piping and junction boxes clean.

**Project 38 2355 JohnDeere Tractor \$55,000.00**

**Description:** This item is a part of the equipment inventory list for the sewer department. This item is used at the Wastewater Treatment Plant for scraping roads and bush hogging around the fields.

**Project 39 2155 JohnDeere Tractor \$55,000.00**

**Description:** This item is a part of the equipment inventory list for the sewer department. This item is used at the Wastewater Treatment Plant for the wicking of the fields.

**Project 40 Bobcat Utility Vehicle \$20,000.00**

**Description:** This item is a part of the equipment inventory list. This item is used in everyday activities around the Wastewater Treatment Plant. Replaced with 2018 Kubota UTV.

**Project 41 Wright Zero Turn Mower 1000+hrs. \$15,000.00**

**Description:** This item is a part of the equipment inventory list. This item is used for grounds maintenance at the Wastewater Treatment Plant.

**Project 42 Hustler Zero Turn Mower 650hrs. \$15,000.00**

**Description:** This item is a part of the equipment inventory list. This item is used for grounds maintenance at the Wastewater Treatment Plant.

**Project 43 Kinro Lift Station (control panel) \$100,000.00**

**Description:** This item is a part of the equipment inventory list and is a crucial part in the wastewater operation for the Town. This project would consist of upgrades on the pumps



electrical control panel.

**Project 44 Kinro Lift Station 1 30hp Pumps**

**\$15,000.00**

**Description:** This item is a part of the equipment inventory list and is a crucial part in the wastewater operation for the Town. This project would consist of the replacement of one or both Pump Motors.

**Project 45 Kinro Lift Station Pump Impellers**

**\$9,225.00**

**Description:** This project consists of replacing or rebuilding a counterclockwise and clockwise impeller for the 30hp pumps.

**Project 46 Kinro Lift Station 45kw Generator**

**\$45,000.00**

**Description:** This item is a part of the equipment inventory list. This item is used at Kinro Lift Station during a power outage event. This is a crucial item and will need to be replaced when it is no longer in working condition.

**Project 47 Holt St. Lift Station (control panel)**

**\$100,000.00**

**Description:** This item is a part of the equipment inventory list and is a crucial part in the wastewater operation for the Town. This project would consist of upgrades on the pumps electrical control panel.

**Project 48 Holt St. Lift Station 2 10hp Pumps**

**\$10,000.00**

**Description:** This item is a part of the equipment inventory list and is a crucial part in the wastewater operation for the Town. This project would consist of the replacement of one or both Pump Motors.

**Project 49 Holt St. Lift Station Pump Impellers**

**\$6,700.00**

**Description:** This project consists of replacing or rebuilding a counterclockwise and clockwise impeller for the 10hp pumps.

**Project 50 Holt St. Lift Station 30kw Generator**

**\$42,000.00**

**Description:** This item is a part of the equipment inventory list. This item is used at Holt St. Lift Station during a power outage event. This is a crucial item and will need to be replaced when it is no longer in working condition.

**Project 51 Kime St. Lift Station (control panel)**

**\$100,000.00**

**Description:** This item is a part of the equipment inventory list and is a crucial part in the wastewater operation for the Town. This project would consist of upgrades on the pump's electrical control panel.

**Project 52 Kime St. Lift Station 2 10hp Pumps**

**\$9,200.00**

**Description:** This item is a part of the equipment inventory list and is a crucial part in the wastewater operation for the Town. This project would consist of the replacement of one or both Pump Motors. Replaced 2 pumps 3/21.



- Project 53 Kime St. Lift Station Pump Impellers \$6,700.00**  
**Description:** This project consists of replacing or rebuilding a counterclockwise and clockwise impeller for the 10hp pumps.
- Project 54 Kime St. Lift Station 30kw Generator \$42,000.00**  
**Description:** This item is a part of the equipment inventory list. This item is used at Kime St. Lift Station during a power outage event. This is a crucial item and will need to be replaced when it is no longer in working condition.
- Project 55 Starmount Lift Station (control panel) \$100,000.00**  
**Description:** This item is a part of the equipment inventory list and is a crucial part in the wastewater operation for the Town. This project would consist of upgrades on the pump's electrical control panel.
- Project 56 Starmount Lift Station 2 15hp Pumps \$16,000.00**  
**Description:** This item is a part of the equipment inventory list and is a crucial part in the wastewater operation for the Town. This project would consist of replacement of one or both Pump Motors.
- Project 57 Starmount Lift Station Pump Impellers \$7,700.00**  
**Description:** This project consists of replacing or rebuilding a counterclockwise and clockwise impeller for the 15hp pumps.
- Project 58 Starmount Lift Station 45kw Generator \$45,000.00**  
**Description:** This item is a part of the equipment inventory list. This item is used at Starmount Lift Station during a power outage event. This is a crucial item and will need to be replaced when it is no longer in working condition.
- Project 59 Johnson Lift Station (control panel) \$100,000.00**  
**Description:** This item is a part of the equipment inventory list and is a crucial part in the wastewater operation for the Town. This project would consist of upgrades on the pump's electrical control panel.
- Project 60 Johnson Lift Station 2 15hp Pumps \$16,000.00**  
**Description:** This item is a part of the equipment inventory list and is a crucial part in the wastewater operation for the Town. This project would consist of replacement of one or both Pump Motors.
- Project 61 Johnson Lift Station Pump Impellers \$7,700.00**  
**Description:** This project consists of replacing or rebuilding a counterclockwise and clockwise impeller for the 15hp pumps.
- Project 62 Johnson Lift Station 40kw Generator \$42,000.00**  
**Description:** This item is a part of the equipment inventory list. This item is used at Johnson Lift Station during a power outage event. This is a crucial item and will need to be replaced when it is



no longer in working condition.

**Project 63 Glenn Smith Lift Station (control panel) \$100,000.00**

**Description:** This item is a part of the equipment inventory list. At this time this is not a crucial item. This lift station is a part of the second building for Americhem and is not in use.

**Project 64 Glenn Smith Lift Station 2 6.7hp Pumps \$8,000.00**

**Description:** This item is a part of the equipment inventory list. This project would consist of replacement of one or both Pump Motors.

**Project 65 Glenn Smith Lift Station 27kw Generator \$38,000.00**

**Description:** This item is a part of the equipment inventory list. This item is used at Glenn Smith Lift Station during a power outage event. This item will be crucial when the lift station is put into service.

**Project 66 W.W.T.P ByPass 3 15hp Pumps \$31,000.00**

**Description:** This item is a part of the equipment inventory list and is a crucial part in the wastewater operation for the Town. This project would consist of replacing all three Pump Motors at the Wastewater Treatment Plant.

**Project 67 W.W.T.P. ByPass Pump 75kw Generator \$50,000.00**

**Description:** This item is a part of the equipment inventory list. This item is used at the Wastewater Treatment Plant Bypass Pump during a power outage event. This is a crucial item and will need to be replaced when it is no longer in working condition.



**TOWN OF LIBERTY  
WATER AND SEWER FUND CAPITAL IMPROVEMENTS PLAN**

PROJECT NUMBER	PROJECT LOCATION	COST	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32
<b>SANITARY SEWER</b>												
1	WWTP Condition Assessment and Feasibility Study	\$ 400,000	\$ 400,000									
2	Collection System Improvements - supplemental to ASADRA	\$ 12,500,000	\$ 12,500,000									
3	Old Liberty Road Sewer Project	\$ 3,152,500	\$ 3,152,500									
4	Bypass Pump Station Upgrade	\$ 188,000	\$ 18,800	\$ 18,800	\$ 18,800	\$ 18,800	\$ 18,800	\$ 18,800	\$ 18,800	\$ 18,800	\$ 18,800	\$ 18,800
5	Kime Ave. Lift Station Improvements	\$ 635,000	\$ 63,500	\$ 63,500	\$ 63,500	\$ 63,500	\$ 63,500	\$ 63,500	\$ 63,500	\$ 63,500	\$ 63,500	\$ 63,500
6	Hot St. Lift Station CW and CCW pump impellers	\$ 8,400	\$ 8,400									
7	Ultra-Craft Lift Station Upgrade	\$ 188,000	\$ 20,889	\$ 20,889	\$ 20,889	\$ 20,889	\$ 20,889	\$ 20,889	\$ 20,889	\$ 20,889	\$ 20,889	\$ 20,889
8	Kirno Road Lift Station Inflow Lines	\$ 625,000	\$ 78,125	\$ 78,125	\$ 78,125	\$ 78,125	\$ 78,125	\$ 78,125	\$ 78,125	\$ 78,125	\$ 78,125	\$ 78,125
9	Johnson Lift Station CW and CCW pump impellers	\$ 9,650	\$ 9,650									
10	WWTP Maintenance - Pumps & Gate Replacement	\$ 240,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
11	Starnount Lift Station CW and CCW pump impellers	\$ 9,650	\$ 9,650									
12	Industrial Lift Station Update (control panel and generator)	\$ 188,000								\$ 62,667	\$ 62,667	\$ 62,667
13	Update SCADA for Lift Stations	\$ 31,500								\$ 31,500		
	<b>SANITARY SEWER SUBTOTAL</b>	<b>\$ 18,475,700</b>	<b>\$ 16,134,800</b>	<b>\$ 114,589</b>	<b>\$ 220,964</b>	<b>\$ 220,964</b>	<b>\$ 214,314</b>	<b>\$ 214,314</b>	<b>\$ 214,314</b>	<b>\$ 305,481</b>	<b>\$ 273,981</b>	<b>\$ 273,981</b>
<b>WATER</b>												
1	Replace/Rehab Water Mains	\$ 125,000	\$ 12,500	\$ 12,500	\$ 12,500	\$ 12,500	\$ 12,500	\$ 12,500	\$ 12,500	\$ 12,500	\$ 12,500	\$ 12,500
2	Update 1415 Water Meter and Software	\$ 375,000	\$ 37,500	\$ 37,500	\$ 37,500	\$ 37,500	\$ 37,500	\$ 37,500	\$ 37,500	\$ 37,500	\$ 37,500	\$ 37,500
3	Water Tank Maintenance on 3 tanks	\$ 47,500	\$ 4,750	\$ 4,750	\$ 4,750	\$ 4,750	\$ 4,750	\$ 4,750	\$ 4,750	\$ 4,750	\$ 4,750	\$ 4,750
4	Well 2 Replace Plumbing & New Generator	\$ 67,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500
5	Well 8 Install New Generator	\$ 56,500	\$ 6,278	\$ 6,278	\$ 6,278	\$ 6,278	\$ 6,278	\$ 6,278	\$ 6,278	\$ 6,278	\$ 6,278	\$ 6,278
6	Well 6 Plumbing	\$ 9,400	\$ 9,400									
7	Well 10 Plumbing	\$ 9,900	\$ 9,900									
8	Well 4 Building, Plumbing, Electrical Maintenance & New Generator	\$ 188,000										
9	Well 5 Building, Plumbing, Electrical Maintenance & New Generator	\$ 188,000										
10	Well 1 Replace Plumbing & New Generator	\$ 94,000										
11	Update SCADA for wells and Tanks	\$ 31,500										
	<b>WATER SUBTOTAL</b>	<b>\$ 1,192,300</b>	<b>\$ 54,750</b>	<b>\$ 68,528</b>	<b>\$ 77,928</b>	<b>\$ 78,428</b>	<b>\$ 131,194</b>	<b>\$ 131,194</b>	<b>\$ 154,694</b>	<b>\$ 154,694</b>	<b>\$ 186,194</b>	<b>\$ 154,694</b>
	<b>TOTAL</b>	<b>\$ 19,368,000</b>	<b>\$ 16,189,550</b>	<b>\$ 180,117</b>	<b>\$ 298,892</b>	<b>\$ 299,392</b>	<b>\$ 342,508</b>	<b>\$ 342,508</b>	<b>\$ 366,008</b>	<b>\$ 460,175</b>	<b>\$ 460,175</b>	<b>\$ 428,675</b>

