

**CITY OF WATERTOWN, NEW YORK**  
**SPECIAL WORK SESSION AGENDA**  
**Wednesday, November 1, 2023**  
**6:00 p.m.**

This shall serve as notice that a **special work session** of the City Council will be held on **Wednesday, November 1, 2023 at 6:00 p.m.** in the City Council Chambers, 245 Washington Street, Watertown, New York.

**Discussion Item**

1. Watermain Break of October 18-19, 2023

October 31, 2023

To: The Honorable Mayor and City Council

From: Kenneth A. Mix, City Manager

Subject: Water Main Break – October 18, 2023

The City Council requested a Work Session to discuss the water main break that occurred on October 18, 2023. This memo and the attached information describe the event and gives other background information.

Attached is a map showing the water mains that transmit water from the Water Treatment Plant to the reservoirs. There is a 16" line and a 24" line. A larger scale map shows where the break occurred. While it was originally thought that one of the lines to the reservoirs broke, it was actually a 16" main that connected to the 24" main, which runs along Huntington Street.

A timeline of the incident, including activity that took place in the plant's yard before the break, is also attached. There have been questions about whether staff knew about the break before October 18. There is no evidence that the leak in the yard was related to the water main break.

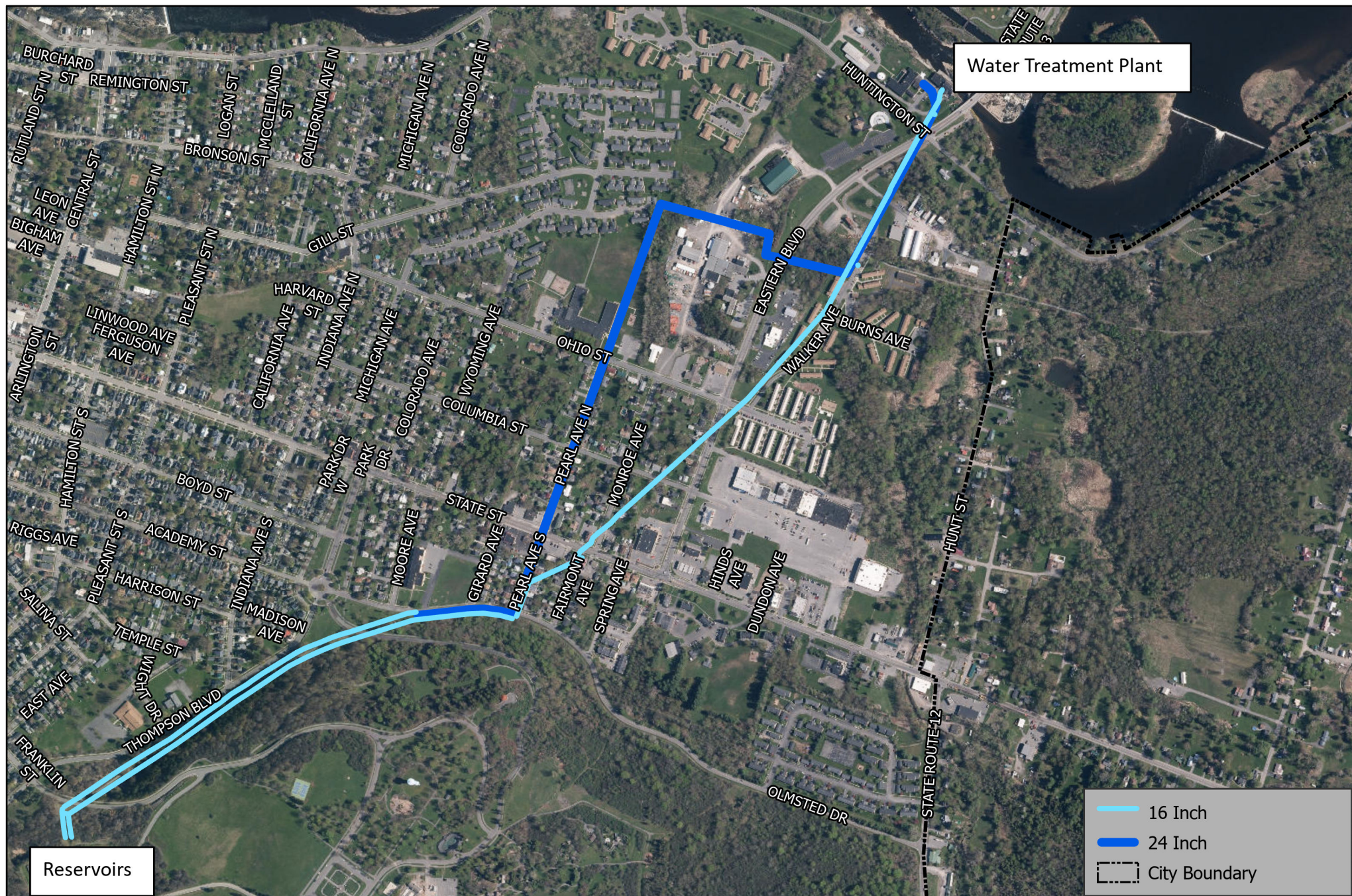
So far, we have accounted for about \$50,000 in costs to repair the break, get the water system operational, and respond to the emergency. All costs have not come in yet.

An after-action meeting was held with City staff and another was held with County Emergency Management and DANC staff. Some minor changes in the emergency response were discussed. We also discussed work that needs to be done to avoid a reoccurrence of shutting down the entire water system. The Huntington Street water main needs to be replaced at least from the 24" line to beyond the first valve and the cross-over valves need to be replaced. Back-up connections to outside water systems should also be studied.

There has also been concern about lack of awareness about the condition of the City's water lines. I've attached a memo dated August 6, 2021 that the City Council reviewed at the Work Session on August 9, 2021. The report recommends that water distribution projects be given the highest priority for ARPA funding. Thirty-two water mains with an estimated cost of \$19.92 million were listed as high priorities, including the one that broke on Huntington Street. An excerpt from the minutes of that meeting is included. The Council selected 15 water mains to be replaced using ARPA funds totaling \$6.67 million. The selected projects were formalized by Budget Re-adoption resolutions on September 7, 2021, and September 20, 2021.

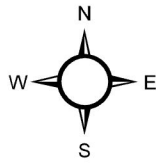
A second memo prepared for the April 26, 2022 Work Session reiterating the priority water main projects and the ones selected for ARPA funds is also attached, along with an excerpt from the minutes of that meeting.





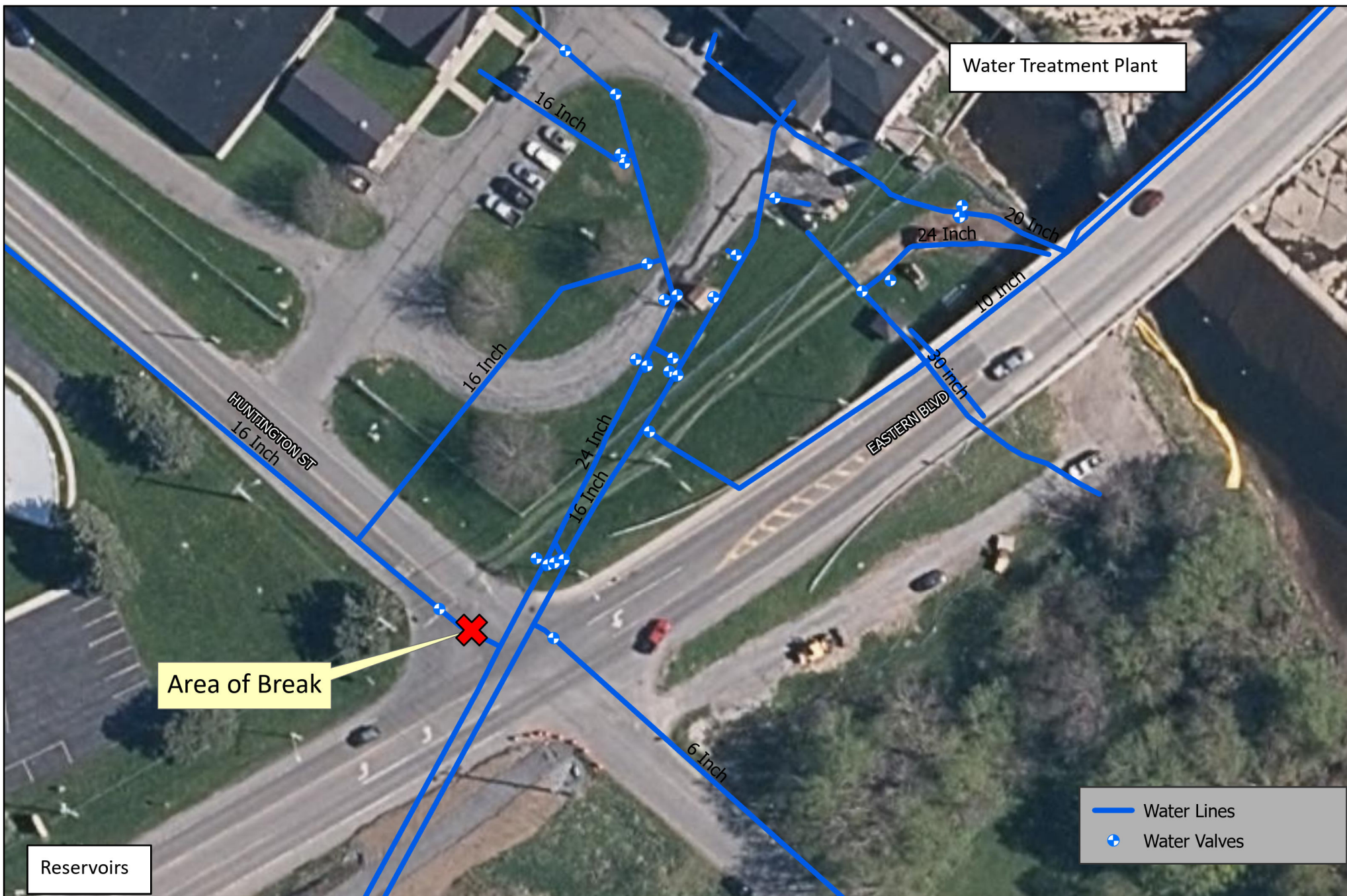
# Mains To Reservoir


The City of Watertown does not warrant, guarantee or accept any liability for the accuracy, precision or completeness of any information shown or described hereon or for any inferences made therefrom. Any use made from this information is solely at the risk of the user.



Mains To Reservoir	
Requested By:	
Author:	
Date:	10/30/2023
Scale:	1 in = 800 ft

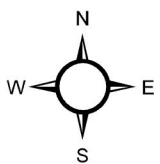




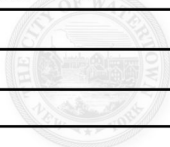
 CITY OF WATERTOWN GIS  
245 WASHINGTON STREET  
2ND FLOOR  
WATERTOWN, NEW YORK 13601  
(315) 785-7793  
gis@watertown-ny.gov

**Water Main Break**  
October 2023

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Water Main Break	
Requested By:	
Author:	
Date:	10/30/2023
Scale:	1 in= 60 ft



## **Timeline regarding the October 18, 2023 Main Break**

### Activity in Proximity to Break Before Break Occurred

October 6, 2023, noticed standing water in driveway that correlated with the location of the 30" settled water line entering the yard. Emergency location called in and prepped for excavation Tuesday October 10. The settled water line is a low-pressure line, not likely to have a catastrophic failure.

October 10, 2023, excavation for the suspected leak location began, water infiltration into trench indicated that it was not the 30" settled water line. WTP staff performed a fluoride test on the water and determined it to be system water. Using a listening device on the stem nuts of the surrounding valves, it was believed that the leak was from the bulk fill or very close by. Another emergency dig location request was made for area around the bulk fill, excavation revealed that the leak was further up the hill.

October 11, 2023, Emergency location request made for the uphill side of the bulk fill submitted. Due to scheduling conflicts DPW's vacuum truck was unavailable so Distribution's valve maintenance machine was used to further probe for the leak source. After several more pits were excavated and water entering from uphill, the decision was made to stop and wait for DPW's vacuum truck. When it was clear that DPW's truck was not going to be available, it was decided to find a subcontractor to perform the excavation. No further activity took place while we waited for price quotes and availability of equipment.

October 17, 2023, A company was located that had a unit available for Wednesday October 18. The purchase requisition was rejected due to an insufficient number of price quotes (City Purchasing Policy).

October 18, 2023 a less expensive quote was located but the vacuum excavator truck was not available until October 25.

### Timeline of events Main Break.

October 18, 2023, 22:20 Chief Operator received a phone call from second shift operator that there was a main break in front of the plant and that there was water running down the driveway into the pump house. He informed the Chief Operator that he had shut down the plant and had already mobilized Distribution personnel. The Chief Operator arrived on site to approximately 6" of water running down to the pump house doors. He checked the interior of the pump house to verify that water was not entering the building and made the decision to restart the plant in hopes of holding the reservoirs. The DANC operator received a low suction discharge alarm at BPS1, he called the plant and was advised of the situation at which time DANC shutdown any draw from the City and notified Fort Drum to draw from their wells.

October 18, 2023, 22:37 Water Superintendent notified.

October 18, 2023, 22:59 City Manager notified by text.

October 18, 2023, 23:15 Distribution Dept began valve isolation. In total, 25 valves had to be operated to isolate the area and to control the loss of the reservoirs.

October 18, 2023, 23:42 Emergency dig ticket was called in.

October 19, 2023, 00:00 911 Dispatch notified of break and asked to relay to City Fire.

October 19, 2023, 00:43 City Manager notified by Phone.

October 19, 2023, 01:15 (approximately) Notified DOH of the break.

October 19, 2023, 01:45 DOH is on site actively monitoring the situation and providing direction with issuing public notices.

October 19, 2023, 02:15 declared a problem locate by Premier, the location service. Requested Vac truck from Recon.

October 19, 2023, 02:46 City Council notified by text.

October 19, 2023, 03:00 Recon Vac truck mobilized, on site 05:30.

October 19, 2023, 03:02 DOH directs the City to issue a public notification about the break and to conserve water. Notice also includes information recommending boiling water before consuming if water pressure is lower than normal.

October 19, 2023, 06:05 DPW Superintendent notified and asked to assist with vac-truck and personnel.

October 19, 2023, 06:24 DOH directs that the City issue a mandatory conserve water and a boil water advisory notice.

October 19, 2023, 09:30 West reservoir telemetry indicates it is empty.

October 19, 2023, 10:00 East reservoir valves are throttled closed to slow loss of reservoir but still provide distribution system pressure.

October 19, 2023, 10:10 DOH directs that the City to elevate the public notice to emergency boil water notice.

October 19, 2023, 10:47 Dig ticket cleared. Luck Brothers was asked to assist with equipment and personnel at some point after Dig ticket cleared.

October 19, 2023, 11:45 all valves are closed, and water flow has stopped.

October 19, 2023, 12:00 East reservoir telemetry indicates it is empty.

October 19, 2023, 12:45 hole is dewatered.

October 19, 2023, 13:00 excavation begins.

October 19, 2023, 15:00 extent of break and needed parts are identified and brought to site.

October 19, 2023, 18:00 repairs complete and backfill of ditch began. WTP shuts incoming water supply valve to isolate from system to allow the backwash tank water to be used to supply water flow to the post chlorine injectors and provide vacuum to the chlorine system.

October 19, 2023, 18:45-23:45 WTP back online, filtering, chlorinating and pumping water at a low volume to bleed air from the system to gradually repressurize the system. Once adequate discharge

pressure was established, the system water supply valve to the plant was opened and the use of the backwash tank stopped. All chemical feeds, with the exception of fluoride, were resumed.

October 19, 2023, 23:45 – October 20, 2023, 03:00 plant flows closely moderated and high lift discharge pressure allowed to build to 60 psi.

October 20, 2023, 03:00 -05:30 High lift pressure increased to 65 psi. Filter turbidities return to normal, finished water turbidities continue to improve and free chlorine residual is 2.9 mg/l.

October 20, 2023, 05:30 Discharge pressure increased to normal 70 psi which typically will add water to the reservoirs. All filter turbidities have returned to normal operating conditions. Finished water turbidities have returned to normal operating conditions. Finished free chlorine residual is a steady 2.5 mg/l as measured by the online meter.

October 20, 2023, 09:45 fluoride feed has resumed.

October 20, 2023, 13:50 West reservoir telemetry signal returns and reads a level of 11.1 ft. Plant is performing as before the shutdown.

October 21, 2023, 09:00-13:00 Crews are assembled to flow hydrants in areas of low chlorine residual. This is required by the DOH before boil water exit sampling can begin.

October 21, 2023, 12:00 West reservoir level is at 22.1 ft. East Reservoir fill valves opened.

October 23, 2023, 06:30 both reservoirs are at the same level.

October 23, 2023, 08:00 all reservoir valves are open.

October 24, 2023, 10:00 Air bled from park pumps and the elevated tank is filled. The System has fully recovered from break.

The time from the break to the time of repair and pump startup is 18hrs 47min.

#### Bacteria Test Summary after plant returned to operation:

October 20, 2023, 10:00 Bacteria test run on plant effluent.

October 20, 2023, 11:30 Measured free chlorine, turbidity, and collected bacteria samples from seven of our weekly sites and Samaritan Hospital.

October 20, 2023, 16:20 bacteria test placed in incubator.

October 21, 2023, 08:50 10/20 plant effluent samples are negative for coliform.

October 21, 2023, 12:45 Measured free chlorine, turbidity, and collected bacteria samples from twenty locations.

October 21, 2023, 16:20 eight distribution samples collected 10/20 are negative for coliform.

October 21, 2023, 18:12 last of twenty distribution bacteria test along with plant effluent placed in incubator.

October 22, 2023, 09:30 Measured free chlorine, turbidity, and collected bacteria samples from twenty locations.

October 22, 2023, 16:45 twenty distribution samples collected 10/21 and 10/21 plant effluent are negative for coliform.

October 22, 2023, 15:16 last of twenty distribution bacteria test along with plant effluent placed in incubator.

October 23, 2023, 13:21 twenty distribution samples collected 10/22 and 10/22 plant effluent negative for coliform.

#### Emergency Operations Center:

October 19, 2023, approx. 02:00 Tanker taskforce placed on automatic alarm.

October 19, 2023, 07:02 The City issued a mandatory conserve water and a boil water advisory notice.

October 19, 2023, 09:10 RAVE Alert sent to the public.

October 19, 2023, approx. 09:15 Joe Plummer, Jefferson County Emergency Management, notified.

October 19, 2023, approx. 09:20 Watertown Housing Authority notified.

October 19, 2023, approx. 09:20 Samaritan Medical Center updated.

October 19, 2023, 10:02 Closing City Hall, non-essential employees released.

October 19, 2023, 10:30 Department Head Meeting – IT begun to set up an Emergency Operations Center and a phone tree for the City Manager's Office line. Parks and Recreation to prepare to receive water and set up a distribution site. Parks and Recreation also distributed porta potties at various essential city facilities.

October 19, 2023, approx. 12:00 Emergency Operations Center Operational.

October 19, 2023, approx. 13:30 Declaration of a State of Emergency signed effective at 0930.

October 19, 2023, approx. 14:00 Tanker taskforce staffed at TWFD Station 3.

October 19, 2023, approx. 15:00 Ultra Large Diameter Hose Taskforce staffed at TWFD Station 3.

October 19, 2023, approx. 16:30 Begun canvassing access and functional needs populations.

October 19, 2023, 17:00 Water distribution site at the Fairgrounds Arena established.

October 19, 2023, approx. 18:30 Press conference held to update the public.

October 19, 2023, 22:00 Water distribution stopped at Fairgrounds Arena.

October 19, 2023, 22:00 Stopped canvassing access and functional needs populations.

October 19, 2023, 22:00 Emergency Operations Center Closed.



October 20, 2023, 07:00 Emergency Operations Center Opened.

October 20, 2023, 07:00 Water Distribution Begun.

October 20, 2023, 07:00 Begun canvassing access and functional needs populations.

October 20, 2023, 08:09 Update sent to the public via press release, regarding water system status, water distribution, boil and conserve water notices.

October 20, 2023, approx. 12:00 All identified access and functional needs populations had been reached.

October 20, 2023, 13:31 Update sent to the public via press release regarding termination of water distribution sites, boil and conserve water notices.

October 20, 2023, 14:00 Water distribution at Watertown High School and Northland Plaza terminated.

October 20, 2023, 17:00 Individual water distribution at the Fairgrounds Arena terminated, self-serve bulk water distribution to continue.

October 20, 2023, 17:00 Emergency Operations Center decommissioned.

October 21, 2023, 07:00 Ultra Large Diameter Hose Taskforce and Tanked Taskforce demobilized.

October 21, 2023, 12:32 Update sent to the public via press release regarding the City's State of Emergency Declaration.

October 23, 2023, approx. 09:00 Bulk water distribution trailer demobilized.

October 23, 2023, 14:17 Update sent to the public via press release lifting the Boil Water Notice and Conserve Water Notice.

August 6, 2021

To: The Honorable Mayor and City Council

From: Kenneth A. Mix, City Manager

Subject: ARPA Funding – City Projects

The Coronavirus Local Fiscal Recovery Fund (CLFRF) established by the American Rescue Plan Act (ARPA) will be providing the City of Watertown \$22,265,728. We have received half of the money. The use of the funds is governed by the Act and the Interim Final Rule issued by the U.S. Department of Treasury. The Rule explains what is eligible and what is not.

The general categories of eligible expenses are:

- Support public health expenditures, by funding COVID-19 mitigation efforts, medical expenses, behavioral healthcare, and certain public health and safety staff;
- Address negative economic impacts caused by the public health emergency, including economic harms to workers, households, small businesses, impacted industries, and the public sector;
- Replace lost public sector revenue, using this funding to provide government services to the extent of the reduction in revenue experienced due to the pandemic;
- Provide premium pay for essential workers, offering additional support to those who have borne and will bear the greatest health risks because of their service in critical infrastructure sectors; and,
- Invest in water, sewer, and broadband infrastructure, making necessary investments to improve access to clean drinking water, support vital wastewater and stormwater infrastructure, and to expand access to broadband internet.

These categories are explained in further depth in the Rule, in an explanation that came with the rule, and in a FAQ that continues to be updated. What is eligible is still far from clear in many cases. It is often stated that the examples given do not represent an exclusive list of what is eligible, so there may be other things that can be done with the money. However, if Treasury determines later that the money was spent on an ineligible activity, they can take the money back.

The clearest eligible activities are investments in infrastructure. Any water project that is eligible under the "Drinking Water State Revolving Fund" can be funded. Likewise, any sanitary or stormwater sewer or treatment project that is eligible under the "Clean Water State Revolving Fund" can be funded.

I've attached a list of water and sewer projects that are eligible. The list is a work in progress, so it is not complete. There are still some estimates to be done. We will also have to fill in the descriptions. A couple of the projects have the justifications for funding that we will need to develop for all of them. The total so far is \$41 million.

I recommend that the Water Distribution projects be given the highest priority, because they represent the highest liability to the City.

I also recommend that Stormwater projects be given second priority, because their cost comes out of the General Fund. There are few of these projects identified because we have never really studied stormwater as a system. We have done primarily separation projects. The U. S. Environmental Protection Agency has started to scrutinize the environmental impacts of polluted stormwater and has and will continue to regulate it more. They are putting emphasis on "green infrastructure." I recommend that we use the ARPA funds to develop a stormwater management plan. This is an eligible expense under the "Clean Water State Revolving Fund."

Other projects have been suggested and if the Council is interested in considering them, we can try to determine whether they are eligible. Some are more clear-cut than others. The ideas include:

- Lead water lateral replacement program continuation
- Backflow prevention program
- Police cameras
- Construction of affordable housing
- Tree planting
- City Hall ventilation improvements
- Amphitheater local match
- Water Street Trail local match
- Van Duzee Street Site environmental clean-up

Some of the projects, which are identified on the list, are already in the Budget, so staff is moving forward with them. The Budget will have to be amended to include the other projects the Council wants to do.



# ARPA Funding Justifications

Draft 8/5/21

## **Water Distribution Projects**

### **Arsenal Street (200 Block) Water Main**

**Barben Ave/Holcomb St/Bugbee Ave/Woodruff St** **\$2,000,000**

This project includes the replacement of 2534' of 8" cement lined cast iron pipe on Barben Ave., from Washington Street to Holcomb Street. The pipe was installed in 1940 and has had 23 breaks since 1994. The replacement of approximately 1370' of 8" cement lined cast iron pipe on Holcomb street, Mullen Street to Ten Eyck and Chestnut to Barben Avenue. The pipe was installed in 1948 and 1959 and has had 16 breaks since 1993. The replacement of 1373' of 6" transite pipe on Bugbee Drive (Harris to Harris installed in 1965) and 781' of 8" transite pipe on Bugbee Drive (Holcomb to Harris installed in 1959). The pipe has had 9 breaks since 1995. The replacement of 434' of 4" cast iron pipe with 6" minimum pipe, on Woodruff Street W. (Holcomb to end installed prior to 1900). This portion of pipe has had 3 breaks since 2018.

**Boon Street Water Main** **\$370,000**

This project includes the replacement of 1159' of 8" transite pipe on Boon Street, from Arsenal Street to Emmett Street. The pipe was installed in 1958 and has been in service beyond its use expectancy.

**Bronson Street Water Main** **\$850,000**

This project includes the replacement of 2743' of 6" cast iron, cement lined pipe on Bronson Street, from North Rutland Street to North Colorado Avenue. The pipe was installed in 1934 and has had 6 breaks since 1994.

**Bulk Water Sales Upgrade (Budgeted Water Fund)** **\$30,000**

The upgrade would retro fit the current setup with a new customer interface allowing for point of sale of bulk water. The current system relies upon the City to bill every 30 days. This allows a delinquent payer to continue to draw water for 30 days before the City can shut the accounts for nonpayment. The new system will provide the flexibility of both credit card point of sale and user prepaid account purchases. In addition to the point of sale the upgrade would also allow for the City to establish traditional monthly billed accounts as well. The upgrade cost covers the hardware of the customer interface, card reader software, and third party account management that frees the City from the responsibility of managing credit card purchases.

Burlington Street Water Main	\$280,000
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This project includes the replacement of 109' of 4" cast iron pipe from Main Street East to Lynde Street East, installed in 1934 and 676' of 4" cast iron pipe from Lynde Street East to St. Mary Street, installed in 1907. The pipe is undersized for fire protection and has been in service beyond its' use expectancy.

Butterfield Avenue Water Main	\$600,000
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This project includes the replacement of 626' of 6" transite pipe from Barben Avenue to Sherman Street, installed in 1952, and the replacement of 1087' of 8" transite pipe from Sherman Street to the end, installed in 1943. There has been one break in 2019 and the pipe has been in service beyond its' use expectancy.

Cooper Street (West Main to Highland) Water Main	\$950,000
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This project includes the replacement of 3134' of 6" cast iron, cement lined pipe on Cooper Street, from West Main Street to Avenue. The pipe was installed in 1935 and 1937 and has had 6 breaks since 1996.

Cosgrove Street Water Main	\$340,000
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This project includes the replacement of 967' of 8" transite pipe from Butterfield Avenue to Iroquois Avenue West, installed in 1945. The pipe has been in service beyond its' use expectancy.

Distribution Parking Lot	\$100,000
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Division Street East Water Main	\$500,000
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This project includes the replacement of 1443' of 10" transite pipe on East Division Street, from Woodbury Street to Starbuck Avenue. The pipe was installed in 1951-1955 and has been in service beyond its use expectancy.

East Street (Main Street East to Moulton Street) Water Main \$200,000

This project includes the replacement of 491' of 4" cast iron pipe from Main Street East to Moulton Street, installed in 1940. The pipe is undersized for fire protection and the pipe has been in service beyond its' use expectancy.

Harris Drive/Lachenauer Drive/Newman Drive Water Mains \$2,000,000

This project includes the replacement of 3001' of 12" transite pipe on Harris Drive. The pipe was installed in 1959 and 1961 and has had 1 break in 2013. The replacement of approximately 1950' of 8" transite pipe on Lachenauer Drive. The pipe was installed in the 1950's. The replacement of 805' of 8" transite pipe on Newman Drive also installed in the 1950's. The pipes have been in service beyond their use expectancy.

Henry Street/Grant Street Water Mains \$400,000

This project includes the replacement of 1020' of 4" cast iron pipe on Grant Street. The pipe is undersized for fire protection. The replacement of 180' of 6" transite pipe on Henry Street. The pipe was installed in 1955 and has been in service beyond its' use expectancy.

High Lift Pump Rebuild (Budgeted Water Fund \$45,000) \$150,000

The WTP supplies water to the Distribution System and the Reservoirs by way of four vertical turbine pumps. The pumps were installed as part of the plant upgrades in 1989-90. The rebuild will replace wear items within the pump, clean and inspect the electric motors and rebuild the flow isolation valves. The cost for repair is only an estimate and could change depending upon the amount of wear. The project could take approximately 2 years to complete.

Huntington Street Water Main \$3,000,000

This project includes the replacement of 7448' of 16" steel pipe from Pearl Street to Eastern Boulevard, installed in 1939. There have been 7 breaks since 1994. The pipe has been in service beyond its' use expectancy.

Iroquois Avenue West Water Main \$380,000

This project includes the replacement of 1106' of 8" transite pipe from Washington Street to the end, installed in 1945. The pipe has been in service beyond its' use expectancy.



Lansing Street Water Main \$700,000

This project includes the replacement of 2197' of 6" cast iron, cement lined, pipe on Lansing Street, from Main Street to Katherine Street. The pipe was installed in 1928 and 1934 and has been in service beyond its use expectancy.

Main Street East (Mill to end) Water Main \$1,500,000

This project includes the replacement of 3367' of 6" cast iron pipe from Mill Street to Pearl Street, and the replacement of 475' of 4" cast iron pipe from Pearl Street to the end. There is no record of installation date and there has been 5 breaks since 1999. The pipe has been in service beyond its' use expectancy.

Maintenance and Admin Building Masonry (Budgeted ARPA \$80,000) \$100,000

This project removes loose mortar and repoints the stone masonry of the Water Maintenance and Administration Buildings. This keeps the stone stable and weather tight thereby preventing structural damage.

Repointing of these buildings is a necessary investment in water infrastructure that is eligible for funding under §35.6(e)(1) of the Interim Final Rule 31 CFR Part 35. That section references the Drinking Water State Revolving Fund (DWSRF) and states that any project or activities of the type that are eligible under that program are eligible for Coronavirus State and Local Fiscal Funds. It is rehabilitation of buildings used exclusively by the water system.

Monroe Ave Water Main \$220,000

This project includes the replacement of 581' of 6" transite pipe from Columbia Street to Colorado Avenue, installed in 1956. The pipe has been in service beyond its' use expectancy.

Moulton Street Water Main \$1,400,000

This project includes the replacement of 1120' of 10" cast iron, cement lined, pipe from Mill Street to Bridge Street, installed in 1956, and the replacement of 2316' of 10" steel pipe from Bridge Street to Pearl Street, installed in 1940. The pipe has been in service beyond its' use expectancy.

Ohio Street Water Main	\$900,000
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This project includes the replacement of 584' of 10" cast iron pipe from Indiana Avenue to Colorado Avenue and the replacement of 1899' of 10" transite pipe from Colorado Avenue to Eastern Boulevard, installed in 1959. There have been 4 breaks since 2005 and pipe has been in service beyond its' use expectancy.

Pratt Street Water Main	\$650,000
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This project includes the replacement of 461' of 6" cast iron pipe on Pratt Street from Sherman Street to Ball Avenue installed in 1935. The replacement of 632' of 6" transite pipe on Pratt Street, installed in 1935, from Ball Avenue to Holcomb Street. The replacement of 327' of 6" transite pipe, installed in 1954, from Holcomb Street to the end. The pipes have been in service beyond their use expectancy.

Richards Drive Water Main	\$340,000
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This project includes the replacement of 967' of 8" transite pipe from Barben Avenue to Butterfield Avenue, installed in 1956. The pipe has been in service beyond its' use expectancy.

Seward Street Water Main	\$200,000
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This project includes the replacement of 395' of 4" cast iron pipe on Seward Street, from Hancock Street to Grant Street. The pipe is undersized for fire protection.

Sherman Street Water Main	\$390,000
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This project includes the replacement of 1141' of 8" transite pipe from Butterfield Avenue to Iroquois Avenue West, installed in 1943. The pipe has been in service beyond its' use expectancy.

Tilden Street Water Main (Budgeted Bond)	\$363,582
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Thompson Street Water Main	\$350,000
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This project includes the replacement of 938' of 8" transite pipe on Thompson Street, from West Lynde Street to Gale Street. The pipe was installed in 1958 and has been in service beyond its' use expectancy.

Winslow Street Water Main	\$1,000,000
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This project includes the replacement of 945' of 6" cast iron pipe from Washington Street to Gotham Street, and 1603' of 4" cast iron pipe from Gotham Street to Franklin Street. The pipe is undersized for fire protection and has been in service beyond its' use expectancy.

## **Water Source and Purification Projects**

Coagulation Basin Fence	\$100,000
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Coagulation Basin Generator (Budgeted ARPA \$530,000)	\$710,000
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The current Coagulation Basin Pumping Station Generator is a 125kw propane powered unit placed in service in the 1980's. Replacement is recommended due to the difficulty in procuring repair parts for the out-of-date motor controls and automatic switch gear. The long downtimes when waiting for parts requires the rental of a standby unit. A natural gas replacement generator is possible and would require a gas line to be installed to the site from NYS Rt. 3.

The replacement of this generator is a necessary investment in water infrastructure that is eligible for funding under §35.6(e)(1) of the Interim Final Rule 31 CFR Part 35. That section references the Drinking Water State Revolving Fund (DWSRF) and states that any project or activities of the type that are eligible under that program are eligible for Coronavirus State and Local Fiscal Funds. This is an eligible project under the DWSRF, which is listed in Table 3.9 of the Handbook for the program. This is a Category 3 eligible project under the DWSRF. It is part of the infrastructure that moves raw water into the treatment plant.

Coagulation Basin Fence	\$25,000
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Dosing Station Paving	\$70,000
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Dosing Station Roof	\$35,000
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Reservoir Fence Replacement	\$30,000
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Reservoir Pump Rebuild	\$50,000
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Reservoir (East) Re-lining (Budgeted ARPA \$500,000)	\$1,500,000
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During the cleaning of the East reservoir during the spring of 2021, a leak of approximately 1MGD was discovered. The East Reservoir is the larger of the two reservoirs at Thompson Park. Lining the reservoir would minimize downtime and assure the leaks were stopped.



Treatment Plant Exterior Doors	\$70,000
Treatment Plant Filter Media Replacement	\$550,000
Treatment Plant Generator and Transfer Switch	\$1,600,000

The emergency generator that powers the high lift pumps and the Treatment Plant during outages needs to be replaced with a more fuel efficient, cleaner emission unit that is equipped with updated solid state controls. This will increase reliability of operation, improve performance and lower maintenance cost.

Treatment Plant Yard Valves (Budgeted Water Fund \$127,615)	\$1,250,000
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There are a total of 16 buried valves located within the grounds of the water treatment plant range in size from 4" to 30". Valves have recently received exercise after many years of neglect. Many valves do not obtain a positive shut which raises concerns of reliability and operation. In order to address these concerns it is recommended that valves be replaced with new equipment to assure function and resiliency.

Treatment Plant Process Complex Paving	\$100,000
Treatment Plant Process Complex Roof	\$250,000
Treatment Plant Process Complex Windows	\$100,000
Treatment Plant Pump House Roof	\$140,000
Treatment Plant Pump House Windows	\$100,000
Treatment Plant Silicate Tank Upgrade	\$210,000
Treatment Plant Soda Ash System Rehabilitation (Budgeted Bond)	\$613,574

April of 2017 the City hired a engineering firm to perform a water quality and operational evaluation of the treatment process in response to the Lead action level exceed in 2016. As a result of the study, resuming the use of Soda Ash is recommended in the Water Quality and Operational Evaluation, City of Watertown, NY as a means to control corrosion and the leaching of Lead. The project will revamp a dry chemical feed system that was decommissioned 15 years ago. The use of Soda Ash will increase the alkalinity of the finished water entering the distribution system. Creating a finished product that is less aggressive in the corrosion of water mains and house hold plumbing. The improved water chemistry will reduce the leaching of lead from sources found inside some homes.

## **Sanitary Sewer Projects**

Barben Avenue Sewer Main	\$75,000
Burlington Sewer Main	\$166,000
Central Street Sewer Main	
Cooper Street Outfall Sewer Main (Budgeted Bond)	\$275,000
Flower/ Washington Street Sewer Main Separation	\$5,150,000
Harrison Street Sewer Main (Budgeted Bond)	\$451,461
Hoard Street West Sewer Main	
Keyes & Washington Sewer Main	\$300,000
Lachenauer Pump Station (Budgeted Sewer Fund)	\$200,000

The Lachenauer lift station requires an upgrade to the wet well side of the pump station to accommodate the increase in flow to the station as well as upgrades to the pumps. There have been an increasing number of issues where wastewater has been backed up into the laterals and the station's pumps are running continuously to keep up with the flow demand. This could pose a serious issue where wastewater could back up into homes in the area.

Rebuilding this pump station is a necessary investment in sewer infrastructure that is eligible for funding under §35.6(e)(1) of the Interim Final Rule 31 CFR Part 35. That section references the Clean Water State Revolving Fund and states that any project or activities of the type that are eligible under that program are eligible for Coronavirus State and Local Fiscal Funds. Funding for pump stations is eligible under Section 603(c) (1) of the Clean Water Act.

Leray Street Sewer Main	\$750,000
Lift Station Flow Monitors (Budgeted Sewer Fund)	\$80,000
Lift Station Generators (Budgeted Sewer Fund)	\$30,000
Newell Street Sewer Main	\$600,000
Newell Street Sewer Utility Bridge	\$100,000
Northside Sewer River Crossing (Budgeted Sewer Fund)	\$550,000

Paddock Street Sewer Main	\$200,000
Pawling/Hungerford Sewer Mains	
Phelps Street Sewer Main	
Seward Street Sewer Main	\$200,000
Western Outfall	\$1,500,000
Western Outfall Manhole Rehabilitation	

### **Sewage Treatment Projects**

Trickling Filter Domes (Budgeted Sewer Fund)	\$500,000
William T. Field Drive (Budgeted Sewer Fund)	\$320,000

### **Stormwater Sewer Projects**

Burlington Street	\$150,000
Newell Street	\$400,000
Paddock Street	\$450,000

Collectors tend to run parallel to higher volume Radial Arterials, which makes them appealing alternatives to bicyclists seeking to avoid busier streets. He provided the example of a biker being more willing to use Academy Street instead of using the busier State Street. He summarized curb widths along with the capability of on-street parking.

- **Downtown Core** streets are designed to provide access in and out of downtown as well as provide for short distance pedestrian trips within the downtown business and entertainment district. He mentioned that Downtown Streets will see significantly increased pedestrian activity compared to the rest of the City. He drew Council's attention to the slideshow and noted the extra wide sidewalks, which are used for more than just accommodating pedestrian trips. He added that they provide space for outdoor tables and furniture and activate downtown as a dining entertainment destination.
- **Rural Gateway/Rural Transition** are streets that carry traffic in and out of the City and have significantly less development than other streets with the City. He added that these streets take on rural character despite still being within the City limits. He expressed concern that these types of streets are tempting motorists to exceed the speed limit because they give the feeling of being in the country.
- **State-Maintained Arterial** streets are maintained by the New York State Department of Transportation (NYSDOT). Mr. Urda clarified that the City does not have direct design control over these streets, but typically has the opportunity to provide input prior to NYSDOT projects. He informed Council that Arsenal Street has the highest Average Annual Daily Trips (AADT) of any street in the City.

Mr. Urda and Council then discussed at great length the pros and cons to the different streets in the City.

Council Member Henry-Wilkinson suggested Holcomb Street would be better labeled as a Radial Collector or a Neighborhood Connector and expressed concern about snow storage on the street. He noted there are very few trees and told Council that more families have begun moving onto the street.

Mr. Urda said they have gone back and forth with this, and it could be a Radial Connector if that is the direction Council would like to take.

Council Member Pierce asked if daycares could be part of the School Safety Corridor. She noted that she has received feedback from parents of children attending New Day Daycare saying that during peak hours there is a high volume of traffic and pedestrians.

Mr. Urda said that it was a great point and it should be easy enough for the GIS Department to add that layer. He stated it was a great suggestion.

Mayor Smith said he likes the concepts but still has concerns about on-street parking. He also suggested getting together with some biking groups for their input.

Mr. Urda said that after obtaining Council's feedback and input the Committee plans to draft a formal Complete Streets Design Guidelines document for adoption by resolution at a future City Council Meeting.

### **ARPA Funding-City Projects**



City Manager Ken Mix started the presentation by distributing a handout (on file in the City Clerk's office) and a slideshow of potential water and sewer projects. He drew Council's attention to the handout and explained the Corona Virus Local Fiscal Recovery Fund (CLFRF), which was established by the American Rescue Plan Act (ARPA), will be providing the City of Watertown \$22,265,728. He noted that the City has received half of the money. The use of the funds is governed by the Act and the Interim Final Rule issued by the U.S. Department of Treasury. He summarized what is eligible and what is not, along with the general categories of eligible expenses. He said that the FAQ continues to be updated and what is eligible is still far from clear in many cases. He highlighted that if the Treasury determined at a later time that money was spent on an ineligible activity, then they can take the money back. Mr. Mix discussed at length that the clearest eligible activities are investments in infrastructure. He drew Council's attention to a list of water and sewer projects which are eligible under the "Clean Water State Revolving Fund." He noted that the list is still a work in progress and added that the total so far is \$41 million for some projects that have justifications. He recommends that the Water Distribution projects be given the highest priority because they represent the highest liability to the City. He suggested that stormwater projects be given second priority because their cost comes out of the General Fund. He then discussed other projects that have been suggested and if Council is interested in considering them, staff can try to determine whether they are eligible. He explained that some projects which are identified on the list are already in the budget, so staff is moving forward with them. He said the budget will have to be amended to include the other projects Council wants to do.

Mr. Mix, Mayor Smith and Council discussed at length the Water Distribution Projects, Water Source and Purification Projects, Sanitary Sewer Projects, Sewage Treatment Projects and Stormwater Sewer Projects and some other projects that have been put on the table.

Mayor Smith questioned if the City should use funds on more affordable housing, noting that he believes there is plenty of low-to-moderate income housing. He added that the City needs more market-rate housing and he is not in favor of obtaining more low-to-moderate housing.

Council Member Spaziani asked what percentage of these projects would be done in-house.

Mr. Mix said with this high number of projects, most will be bid out and stressed that the City just does not have the manpower.

Council Member Spaziani drew Council's attention to a list of projects and estimated costs he suggested. He told Council they are smaller projects but feels they are ones that could be done and be over with. He expressed concern that there may not be eligible workers next year due to Covid-19.

Mr. Mix pointed out that they did add in three projects at budget time for \$1.1 million.

Mayor Smith advised that when picking the projects, they should go with staff's recommendation as to what the priorities are.

Council Member Spaziani expressed concern that some of the street's pipes do not have enough water pressure for fire protection.

Council Member Ruggerio agreed with Council Member Spaziani and expressed concern about the safety of those on the affected streets. She said she would like to see those pipes addressed sooner rather than later.

Mayor Smith recommended some sort of split in cost for the backflow preventers with the homeowner.

Council Member Henry-Wilkinson said he feels the backflow prevention program will be important in the next few years.

Mayor Smith said he has been in touch with Senator Schumer's office regarding police cameras.

Mr. Mix pointed out that it is important to know exactly which funds can be used for police cameras.

### **Tennis Courts Unveiling**

Mayor Smith addressed Council, asking if they are available to do an unveiling of the Tennis Courts on September 13<sup>th</sup> at 6pm.

Work session ended at 8:45 p.m.

*Margaret M. Puccia*  
Deputy City Clerk

Res No. 4

September 1, 2021

To: The Honorable Mayor and City Council

From: Kenneth A. Mix, City Manager

Subject: Readopting Fiscal Years 2021-22 through 2025-26 Capital Budget

At the August 9, 2021 Work Session, the City Council discussed city projects proposed for ARPA funding. There was agreement that top priority water main projects, including those that are undersized for fire protection, be funded.

The highest priority water main projects are:

Barben Ave/Holcomb St/Bugbee Dr	\$1,400,000
Division Street East Water Main	\$ 500,000
East Street Water Main	\$ 200,000
Henry Street/Grant Street Water Mains	\$ 400,000
Ohio Street Water Main	\$ 900,000
Pratt Street Water Main	\$ 650,000
Sherman Street Water Main	\$ 390,000
Thompson Street Water Main	\$ 350,000
Tilden Street Water Main	\$ 400,000
Winslow Street Water Main	<u>\$1,000,000</u>
TOTAL	\$6,190,000

A resolution readopting the Capital Budget to include these projects is attached for the City Council's consideration.

The Burlington Street and Seward Street water mains are also high priorities but are not included in the list above because they are part of complete street re-constructions. Those total projects will be presented at a future meeting for approval.

There was also agreement at the Work Session on funding tree planting, the match for the Water Street Trail, a stormwater management plan and a backflow prevention program. A resolution for the tree planting is included within this agenda. There will be follow-up reports on the other items at future meetings.

Below is a summary of the total committed from ARPA funds if the attached Resolution and the General Fund tree resolution are adopted:

Coagulation Basin Generator (Adopted Budget)	\$ 530,000
East Reservoir Relining (Adopted Budget)	\$ 500,000
Water Plant Building Repointing (Adopted Budget)	\$ 80,000
Harrison St. San. Sewer (5/3/21 Budget Amend)	\$ 475,000

Proposed General Fund Tree Amendment	\$ 50,000
Proposed Capital Budget Water Main Amendment	<u>\$6,190,000</u>
TOTAL	\$7,825,000

**RESOLUTION**

Page 1 of 1

Readopting Fiscal Years  
2021-22 through 2025-26  
Capital Budget

Council Member HENRY-WILKINSON, Ryan J.

Council Member PIERCE, Sarah V.C.

Council Member RUGGIERO, Lisa A.

Council Member SPAZIANI, Leonard G.

Mayor SMITH, Jeffrey M.

Total .....

YEA	NAY

***Introduced by***

WHEREAS on May 24, 2021 the City Council adopted the Fiscal Years 2021-22 through 2025-26 Capital Budget, and

WHEREAS the City was awarded \$22,265,728 in funding from the American Rescue Plan Act of 2021, and

WHEREAS City Council discussed at the work session on August 9, 2021 funding certain water infrastructure projects from the American Rescue Plan, and

NOW THEREFORE BE IT RESOLVED that the City Council of the City of Watertown hereby amends the Fiscal Years 2021-22 through 2025-26 Capital Budget to include in the FY 2021-22 Capital Budget the following projects:

Barben Ave/Holcomb St/Bugbee Dr	\$1,400,000
Division Street East Water Main	\$ 500,000
East Street Water Main	\$ 200,000
Henry Street/Grant Street Water Mains	\$ 400,000
Ohio Street Water Main	\$ 900,000
Pratt Street Water Main	\$ 650,000
Seward Street Water Main	\$ 200,000
Thompson Street Water Main	\$ 350,000
Tilden Street Water Main	\$ 400,000
Winslow Street Water Main	\$1,000,000

***Seconded by***

September 14, 2021

To: The Honorable Mayor and City Council

From: Kenneth A. Mix, City Manager

Subject: Readopting Fiscal Year 2021-22 through 2025-26 Capital Budget and Fiscal Year 2021-22 Sewer Fund Budget

At the August 9<sup>th</sup> Work Session the City Council agreed to fund several water mains through the American Rescue Plan Act (ARPA), including the mains on Seward Street and Burlington Street. The two streets are identified in the Capital Budget as complete re-constructions. Construction will be timed to coincide with CDBG funding in FY 2022/23 and 23/24, respectively.

The following are estimates for each street, along with the sources of funding for each component:

Seward Street

Street (CDBG - \$150,000, CHIPS - \$150,000)	\$ 300,000
Sidewalks (CDBG)	\$ 150,000
Storm Sewer	\$ 0
Sanitary Sewer (Operating Transfer)	\$ 200,000
Water Main (ARPA)	<u>\$ 200,000</u>
TOTAL	\$ 850,000

Burlington Street

Street (CDBG - \$115,000, CHIPS - \$385,000)	\$ 500,000
Sidewalks (CDBG)	\$ 135,000
Storm Sewer (ARPA)	\$ 150,000
Sanitary Sewer (Operating Transfer)	\$ 166,000
Water Main (ARPA)	<u>\$ 280,000</u>
TOTAL	\$1,231,000

Also, Barben Avenue has at least three parcels that are not served by a sanitary sewer. There is \$75,000 in the Capital Budget for FY 2025/26 to construct a sewer main. That has been included in this resolution so it can be done at the same time as the water main. I want to point out though that there was controversy over this in 2013-14 when it was proposed, because one of the home owners did not want to connect to it.

A resolution readopting the Capital Budget and the Sewer Fund Budget to include these projects is attached for the City Council's consideration.



**RESOLUTION**

Page 1 of 2

Readopting Fiscal Years  
2021-22 through 2025-26  
Capital Budget and Fiscal Year 2021-22  
Sewer Fund Budget

Council Member HENRY-WILKINSON, Ryan J.

Council Member PIERCE, Sarah V.C.

Council Member RUGGIERO, Lisa A.

Council Member SPAZIANI, Leonard G.

Mayor SMITH, Jeffrey M.

Total .....

YEA	NAY

***Introduced by***

WHEREAS on May 24, 2021, the City Council adopted the Fiscal Years 2021-22 through 2025-26 Capital Budget, and

WHEREAS the City was awarded \$22,265,728 in funding from the American Rescue Plan Act of 2021, and

WHEREAS City Council wishes to add the Seward Street and Burlington Street reconstruction projects to its Capital Budget, and

WHEREAS City Council on September 7, 2021, added the Barben Avenue/Holcomb Street/Bugbee Drive water main reconstruction project to the Fiscal Year 2021-22 through 2025-26 Capital Budget,

NOW THEREFORE BE IT RESOLVED that the City Council of the City of Watertown hereby amends the Fiscal Years 2021-22 through 2025-26 Capital Budget to include in the FY 2021-22 Capital Budget the following projects:

Seward Street	\$ 850,000
Burlington Street	\$ 1,231,000

and,

BE IT FURTHER RESOLVED that the City Council of the City of Watertown hereby re-adopts the Fiscal Year 2021-22 Sewer Fund Budget to provide the funding for the sanitary sewer portions of the Seward Street and Burlington Street reconstruction projects and makes the following adjustments in the re-adopted Sewer Fund Budget:

**SEWER FUND**

Appropriated Fund Balance:

G.0000.0900

Fund Balance

\$ 366,000

**RESOLUTION**

Page 2 of 2

Readopting Fiscal Years  
2021-22 through 2025-26  
Capital Budget and Fiscal Year 2021-22  
Sewer Fund Budget

Council Member HENRY-WILKINSON, Ryan J.

Council Member PIERCE, Sarah V.C.

Council Member RUGGIERO, Lisa A.

Council Member SPAZIANI, Leonard G.

Mayor SMITH, Jeffrey M.

Total .....

YEA	NAY

## Expenditures:

G.9950.0900	Transfer to Capital Projects Fund (Seward St)	\$ 200,000
G.9950.0900	Transfer to Capital Projects Fund (Burlington St)	\$ 166,000
Total Expenditures		<u>\$ 366,000</u>

and,

BE IT FURTHER RESOLVED that the City Council of the City of Watertown hereby re-adopts the Fiscal Year 2021-22 Sewer Fund Budget to provide the funding to connect sanitary sewer to certain parcels as part of the Barben Avenue water main replacement project and makes the following adjustments in the re-adopted Sewer Fund Budget:

SEWER FUND

## Appropriated Fund Balance:

G.0000.0900	Fund Balance	<u>\$ 75,000</u>
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## Expenditures:

G.9950.0900	Transfer to Capital Projects Fund (Barben Ave/Holcomb St./Bugbee Dr.)	<u>\$ 75,000</u>
Total Expenditures		<u>\$ 75,000</u>

***Seconded by***

April 22, 2022

To: The Honorable Mayor and City Council  
From: Kenneth A. Mix, City Manager  
Subject: Water Main Projects

The following list of priority mains was presented to the City Council at the August 9, 2021 Work Session. The Council selected those in bold for ARPA funding.

**Barben Ave/Holcomb St/Bugbee Dr** **\$1,400,000**

This project includes the replacement of 2534' of 8" cement lined cast iron pipe on Barben Ave., from Washington Street to Holcomb Street. The pipe was installed in 1940 and has had 23 breaks since 1994. The replacement of approximately 1370' of 8" cement lined cast iron pipe on Holcomb Street, Mullen Street to Ten Eyck and Chestnut to Barben Avenue. The pipe was installed in 1948 and 1959 and has had 16 breaks since 1993. The replacement of 1373' of 6" transite pipe on Bugbee Drive (Harris to Harris installed in 1965) and 781' of 8" transite pipe on Bugbee Drive (Holcomb to Harris installed in 1959). The pipe has had 9 breaks since 1995.

**Boon Street Water Main** **\$370,000**

This project includes the replacement of 1159' of 8" transite pipe on Boon Street, from Arsenal Street to Emmett Street. The pipe was installed in 1958 and has been in service beyond its use expectancy.

**Bronson Street Water Main** **\$850,000**

This project includes the replacement of 2743' of 6" cast iron, cement lined pipe on Bronson Street, from North Rutland Street to North Colorado Avenue. The pipe was installed in 1934 and has had 6 breaks since 1994.

**Burlington Street Water Main** **\$280,000**

This project includes the replacement of 109' of 4" cast iron pipe from Main Street East to Lynde Street East, installed in 1934 and 676' of 4" cast iron pipe from Lynde Street East to St. Mary Street, installed in 1907. The pipe is undersized for fire protection and has been in service beyond its' use expectancy.

**Butterfield Avenue Water Main** **\$600,000**

This project includes the replacement of 626' of 6" transite pipe from Barben Avenue to Sherman Street, installed in 1952, and the replacement of 1087' of 8" transite pipe from Sherman

Street to the end, installed in 1943. There has been one break in 2019 and the pipe has been in service beyond its' use expectancy.

**Cooper Street (West Main to Highland) Water Main** **\$950,000**

This project includes the replacement of 3134' of 6" cast iron, cement lined pipe on Cooper Street, from West Main Street to Avenue. The pipe was installed in 1935 and 1937 and has had 6 breaks since 1996.

**Cosgrove Street Water Main** **\$340,000**

This project includes the replacement of 967' of 8" transite pipe from Butterfield Avenue to Iroquois Avenue West, installed in 1945. The pipe has been in service beyond its' use expectancy.

**Division Street East Water Main** **\$500,000**

This project includes the replacement of 1443' of 10" transite pipe on East Division Street, from Woodbury Street to Starbuck Avenue. The pipe was installed in 1951-1955 and has been in service beyond its use expectancy.

**East Street Water Main** **\$200,000**

This project includes the replacement of 491' of 4" cast iron pipe from Main Street East to Moulton Street, installed in 1940. The pipe is undersized for fire protection and the pipe has been in service beyond its' use expectancy.

**Harris Drive/Lachenauer Drive/Newman Drive Water Mains** **\$2,000,000**

This project includes the replacement of 3001' of 12" transite pipe on Harris Drive. The pipe was installed in 1959 and 1961 and has had 1 break in 2013. The replacement of approximately 1950' of 8" transite pipe on Lachenauer Drive. The pipe was installed in the 1950's. The replacement of 805' of 8" transite pipe on Newman Drive also installed in the 1950's. The pipes have been in service beyond their use expectancy.

**Henry Street/Grant Street Water Mains** **\$400,000**

This project includes the replacement of 1020' of 4" cast iron pipe on Grant Street. The pipe is undersized for fire protection. The replacement of 180' of 6" transite pipe on Henry Street. The pipe was installed in 1955 and has been in service beyond its' use expectancy.

**Huntington Street Water Main** **\$3,000,000**

This project includes the replacement of 7448' of 16" steel pipe from Pearl Street to Eastern Boulevard, installed in 1939. There have been 7 breaks since 1994. The pipe has been in service beyond its' use expectancy.

**Iroquois Avenue West Water Main** **\$380,000**

This project includes the replacement of 1106' of 8" transite pipe from Washington Street to the end, installed in 1945. The pipe has been in service beyond its' use expectancy.

**Lansing Street Water Main** **\$700,000**

This project includes the replacement of 2197' of 6" cast iron, cement lined, pipe on Lansing Street, from Main Street to Katherine Street. The pipe was installed in 1928 and 1934 and has been in service beyond its use expectancy.

**Main Street East (Mill to end) Water Main** **\$1,500,000**

This project includes the replacement of 3367' of 6" cast iron pipe from Mill Street to Pearl Street, and the replacement of 475' of 4" cast iron pipe from Pearl Street to the end. There is no record of installation date and there has been 5 breaks since 1999. The pipe has been in service beyond its' use expectancy.

**Monroe Ave Water Main** **\$220,000**

This project includes the replacement of 581' of 6" transite pipe from Columbia Street to Colorado Avenue, installed in 1956. The pipe has been in service beyond its' use expectancy.

**Moulton Street Water Main** **\$1,400,000**

This project includes the replacement of 1120' of 10" cast iron, cement lined, pipe from Mill Street to Bridge Street, installed in 1956, and the replacement of 2316' of 10" steel pipe from Bridge Street to Pearl Street, installed in 1940. The pipe has been in service beyond its' use expectancy.

**Ohio Street Water Main** **\$900,000**

This project includes the replacement of 584' of 10" cast iron pipe from Indiana Avenue to Colorado Avenue and the replacement of 1899' of 10" transite pipe from Colorado Avenue to Eastern Boulevard, installed in 1959. There have been 4 breaks since 2005 and pipe has been in service beyond its' use expectancy.

**Pratt Street Water Main** **\$650,000**

This project includes the replacement of 461' of 6" cast iron pipe on Pratt Street from Sherman Street to Ball Avenue installed in 1935. The replacement of 632' of 6" transite pipe on Pratt Street, installed in 1935, from Ball Avenue to Holcomb Street. The replacement of 327' of 6" transite pipe, installed in 1954, from Holcomb Street to the end. The pipes have been in service beyond their use expectancy.

**Richards Drive Water Main** **\$340,000**

This project includes the replacement of 967' of 8" transite pipe from Barben Avenue to Butterfield Avenue, installed in 1956. The pipe has been in service beyond its' use expectancy.

**Seward Street Water Main** **\$200,000**

This project includes the replacement of 395' of 4" cast iron pipe on Seward Street, from Hancock Street to Grant Street. The pipe is undersized for fire protection.

**Sherman Street Water Main****\$390,000**

This project includes the replacement of 1141' of 8" transite pipe from Butterfield Avenue to Iroquois Avenue West, installed in 1943. The pipe has been in service beyond its' use expectancy.

**Thompson Street Water Main****\$350,000**

This project includes the replacement of 938' of 8" transite pipe on Thompson Street, from West Lynde Street to Gale Street. The pipe was installed in 1958 and has been in service beyond its use expectancy.

**Tilden Street Water Main****\$363,582**

This project includes the replacement of 1200' of 4" cast-iron main with an 8" ductile iron pipe to address inadequate line pressures and fire flow volumes.

**Winslow Street Water Main****\$1,000,000**

This project includes the replacement of 945' of 6" cast iron pipe from Washington Street to Gotham Street, and 1603' of 4" cast iron pipe from Gotham Street to Franklin Street. The pipe is undersized for fire protection and has been in service beyond its' use expectancy.

**Woodruff St****\$600,000**

The replacement of 434' of 4" cast iron pipe with 6" minimum pipe, on Woodruff Street W. (Holcomb to end installed prior to 1900). This portion of pipe has had 3 breaks since 2018.



Mr. Meehan noted many considerations will go in to choosing a location and mentioned he had considered that site as well as the VanDuzee Street and former Mercy Hospital locations. He added that he would like to see the transportation hub be a multi-mode hub that could provide other services such as Greyhound. He noted he has been looking at the Ulster County transportation center as an example.

### **Water Lines**

Water Superintendent Vicky Murphy explained that the list presented to Council (on file in the City Clerk's office) represented the projects chosen by Council in August 2021 for the upcoming year. She noted her office keeps an ongoing list of the water lines with issues and explained that they are ranked from highest priority (1) to lowest (3).

Council Member Olney asked what a transite pipe was.

Ms. Murphy stated that was a type of pipe made of cement and asbestos installed in the late 1940s and 1950s and were built to last for 50-70 years. She noted there are six miles of transite pipe in the City and all of it needs to be replaced. She further explained that other types of pipes deteriorate and are still able to be used but when transite pipe deteriorates it is catastrophic as whole sections collapse.

Council Member Olney asked if anything could be done about the lack of water pressure on West Main Street between Mill and Pearl Streets and suggested replacing the four-inch pipes there.

Ms. Murphy confirmed that pressure has always been lower on the Northside of the City but noted that not all four-inch pipelines are bad.

Mr. Mix stated the purpose of tonight's report was to inform the new members of Council what had been decided by the previous Council as priority projects. He commented that usually only one or two projects can be done per year but, with the large amount of ARPA funds available to the City, the department was able to do many more.

Ms. Murphy added that her department was very pleased to be able to do so much more with the additional funds.

Mayor Smith informed Council that, although the ARPA funds would allow a lot more projects to be completed, even if they used every single dollar from ARPA, it would not cover all the replacements needed to be made in the water lines.

Ms. Murphy expressed her appreciation for the number of projects Council had approved, adding that all the lines were priority one in her mind.

### **Sanitary Sewer Lines**

Patrick Keenan, Department of Public Works Superintendent, presented two videos showing examples of conditions in the sewer system. The videos showed roots pushing through the pipes as well as cracks and areas of collapse. He explained that his department works to keep up with the maintenance of these pipes as well as residential laterals as need demands. He noted the budget included two additional staff members be hired to assist and added that last year they performed 142 inspections and 48 repairs. He also explained that before they pave any streets, staff determines if there are any issues in the pipes