

The Village of Forest View's 2023

State of the Village: Department of Water and Public Works



Table of Contents

	<u>Page</u>
Explanation of Infrastructure Audit (Informational Only)	1
Audit Information (Informational Only)	2, 3, 4,
*State of Village Public Works (<u>Start of Presentation</u>)	5
New Services	5 & 6
Potable Water & Distribution	7 & 8
Sanitary and Storm Sewer	9
Tree Service	10
Sidewalk Information	10
MISC. Information	11
2023 Fiscal Projects	12
Conclusion	13

Explanation of the Infrastructure Audit

This article explains the infrastructure owned and operated by the Village of Forest View.

Informational is the numbers for quick reference in regards to budgeting and reporting of actual miles, footages or number of the various infrastructure items that we own and maintain.

At the top in regards to 2022, that information going down the right-side are the numbers of repairs, replacements etc. for fiscal year 2022. These numbers should be available for reporting to EPA, MWRD or to our insurance carrier whenever needed.

Audit Information 2022 to Current**Page Number 2**

	<u># of/or Miles/footage</u>	<u>2022</u>
<u># of Trees</u>	<u>304</u>	<u>Informational</u>
<u># of Trees Trimmed</u>		<u>304</u>
<u># of Trees Removed</u>		<u>58</u>
<u>Trees Planted</u>		<u>0</u>
<u># Total Vehicles</u>	<u>24</u>	<u>Informational</u>
<u># Vehicles in PW</u>	<u>9</u>	<u>Informational</u>
<u>\$ Annual MFT</u>	<u>\$30,000</u>	<u>0</u>
<u>Roads Paved \$</u>		<u>0</u>
<u># Water Accounts</u>	<u>280</u>	<u>Informational</u>
<u>Residential</u>	<u>260</u>	<u>Informational</u>
<u>Commercial</u>	<u>20</u>	<u>Informational</u>
<u># Meter Calls</u>		<u>280</u>
<u># Meters R/R</u>		<u>20</u>
<u>Avg. Daily Pumpage</u>		<u>104,224 Gallons</u>
<u>Total Pumpage</u>		<u>38,041,600 Gallons</u>
<u># Ft. Sewer T.V.</u>		<u>25,070 LF</u>

<u>Storm Sewer</u>			<u>Page Number 3</u>		
					<u>2022</u>
<u>8 inch</u>		<u>340 LF</u>			<u>Informational</u>
<u>10 inch</u>		<u>4,470 LF</u>			<u>Informational</u>
<u>12 inch</u>		<u>3,560 LF</u>			<u>Informational</u>
<u>15 inch</u>		<u>690 LF</u>			<u>Informational</u>
<u>18 inch</u>		<u>320 LF</u>			<u>Informational</u>
<u>21 inch</u>		<u>600 LF</u>			<u>Informational</u>
<u>24 inch</u>		<u>340 LF</u>			<u>Informational</u>
<u>27 inch</u>		<u>270 LF</u>			<u>Informational</u>
<u>30 inch</u>		<u>1,120 LF</u>			<u>Informational</u>
<u>42 inch</u>		<u>1200 LF</u>			<u>Informational</u>
<u>Total Storm Sewer</u>			<u>12,910 LF</u>		<u>Informational</u>
<u>Sanitary Sewer</u>					
<u>8 inch</u>		<u>2,500 LF</u>			<u>Informational</u>
<u>10 inch</u>		<u>1,450 LF</u>			<u>Informational</u>
<u>12 inch</u>		<u>5,810 LF</u>			<u>Informational</u>
<u>18 inch</u>		<u>650 LF</u>			<u>Informational</u>
<u>24 inch</u>		<u>1,380 LF</u>			<u>Informational</u>
<u>27 inch</u>		<u>370 LF</u>			<u>Informational</u>
<u>Total Sanitary Sewer</u>			<u>12,160 LF</u>		<u>Informational</u>
<u>Sewers Repaired</u>				<u>30</u>	<u>Locations</u>
<u>Sewers Replaced</u>				<u>0</u>	
<u># Water Main Repairs</u>				<u>18</u>	

					<u>Page Number 5</u>
					<u>2022</u>
<u># Miles Of Walk</u>		<u>4.5 Miles</u>			<u>Informational</u>
<u>Sidewalk Replaced</u>					<u>113 Squares @565 LF</u>
<u># of Streetlights</u>		<u>60</u>			<u>Informational</u>
<u>Water Main Tunnel</u>		<u>1</u>			<u>Informational</u>
<u>92 Feet Deep</u>					
<u>6 Feet Wide</u>					
<u>3 Feet Thick</u>					
<u>390 FEET Long</u>					
<u>1 Pump North Shaft</u>					

STATE OF VILLAGE – PUBLIC WORKS 2022

Mayor Miller, Board of Trustees, Administrator Dropka and the fine residents of Forest View. Briefly I would like to discuss our achievements for the 2022 fiscal year.

NEW SERVICES

1. Under the request of Mayor Miller and Administrator Dropka, I was asked to develop a program that would clear the main sidewalk through town of snow, in order to have a safe passageway for our residents in the winter months. As you more than likely saw on the News, the City of Chicago along with many suburbs have been fielding request for Villages to help clear the snow on public sidewalks. Many with disabilities and seniors are having a difficult time passing through the walkways as many do not clear their snow or do so in a timely matter. Our Mayor and Administrator recognized this area of concern and **RE** - implemented this **IMPROVED** service town wide. As you have seen, that program is in full operation and is providing the exact service we needed to assist our residents safely.
2. We purchased an Articulating Bobcat Tractor through Sourcewell. It has several options, many of which allow us to quickly and efficiently remove snow from walkways. This machine also serves other needs of maintenance within the PW department.

3. Water Meter upgrade \$250,000.00

Due to our poor water accountability from past practices, we purchased a system that now reads meters and provides us real time usage. One advantage is that we eliminate any possible chance of human error with manual readings.

We now have the ability to see water loss on the customer side such as a toilet leak. We then can make contact with the resident for repairs to be made eliminating a larger water bill than necessary.

This system will provide us much more information so we can maintain accurate water usage for better accountability. Our biggest user of water is the business district, however, the only meters that were changed previously were the residential district. In order for us to be in accordance with the Environmental Protection Agency (EPA) we needed to figure out where our water loss was taking place and then make any necessary improvements as soon as possible to confine with the EPA's regulations within water accountability.

POTABLE WATER AND DISTRIBUTION

Along with the addition of the new water meter program, we conducted a leak survey to see where our water loss was taking place. Since the prior Administration did not perform leak surveys, we went at this area of concern first. The last survey was from 2017 and according to their records, none of the leaks found were repaired.

1. We now conduct annual water leak surveys. We found 11 water leaks that have all been repaired. We also had 7 additional water main breaks throughout the year along with 2 service line leaks. AS OF TODAY we spent \$114,000.00 and have \$135,000.00 budgeted. **Total repairs – 20**
2. We replaced 9 failed fire hydrants at a cost of \$83,000.00 and have 1 spare in case of emergency. Exactly on budget projections. Once again, we had several hydrants that had failed and were just shut off rather than repaired. We now have full fire protection for our residents and Businesses’.
3. We replaced 7 isolation valves with valve vaults that were non-operational. This was just over \$40,000.00 The Budget Projection was \$60,000.00.
4. We replaced the water main between Clinton and Kenilworth with 2 new isolation valves included. This water main has been broken for nearly 10 years and rather than repairing the line, the decision was to shut it off. This decision created 3 dead end mains which were instrumental in NOT having better water quality and consistent pressure. This project was \$230,000.00 which also included replacing the 6 inch main with an 8 inch main for more volume.

5. We replaced the water meter at the cross connection with the village of Stickney to insure accurate water readings while receiving or delivering water in an emergency situation.

Before the transition within Public Works in regards to new leadership, our water accountability was right around 50 percent. We were losing or for a better phrase, wasting nearly 50% of our water purchased. **This percentage of accountability does not meet the regulations by the EPA and can be punishable through fines.** Our **WATER USE** average was the following

- A. Weekdays 180,000 gallons per day**
- B. Weekends. 100,000 gallons per day**

CURRENTLY:

- A. Weekdays 90,000 to 100,000 gallons per day**
- B. Weekends 45,000 to 55,000 gallons per day**

We believe our water accountability will now be compliant with the EPA and certainly more efficient with the quality we are now providing to our residents.

SANITARY AND STORM SEWER

1. Through an ARPA Grant of nearly \$100,000.00 that Mayor Miller and Administrator Dropka secured, we high pressure cleaned and televised the entire sewer system in Forest View. We did not find any records of prior cleaning and televising. Without televising the sewer system, there is no way to identify if there are any failures. Our findings were the following.

- A. We found 30 locations that needed to be replaced because they had failures that 1st, did not maximize the amount of water and the amount of sanitary waste they were capable of moving out of town, and they were not capable of storing the maximum amount of rain water possible. 25 of those locations have been repaired/replaced at a cost of \$170,000.00 including concrete restoration with a budget of \$215,000.00. The last 5 locations will be completed this spring.**
- B. We replaced-repaired 16 catch basins through town. Catch basins are the sewer structures in the street within the curb line to drain the roads. Projected cost was \$50,000.00 and we spent just over \$40,000.00. These basins are essential in heavy rain falls to keep roadways open and water from ponding back towards homes. We had some basins completely destroyed that are even more dangerous as they create a massive voids underground that will eventually blow the roadway open and cause the possibility of major injury.**

TREE SERVICE

We trimmed every Village owned tree in town trimming **304 Parkway trees.**

We had lost **25 trees** after winter and then suffered a loss of another **23+** trees after the storm cell came through town. We encountered wind gust of nearly 95 mph which was catastrophic to the western suburbs. **Since we did NOT have a professional trimming program in place, there was zero knowledge of trees that were hollowing out and trees that were NOT properly pruned. This resulted in an extended loss of trees due to improper prunes that eventually became diseased and then carried the disease on to the rest of the tree. That disease causing drying out the branches and trunk system ultimately allowed the trees to be vulnerable from wind and drop large branches or have major splits within the trunk creating a dangerous safety situation.**

SIDEWALK REPLACEMENT PROGRAM FOR TRIP AND FALL HAZARDS

We replaced 113 sidewalk squares through town.

In order for the Village of Forest View to minimize any liability situations through trip and fall hazards within town, we conducted a walk through to see if or how many walks fell within this category. Negligence on trip and fall hazards are differences of 1.50 inches of deflection or greater. Our standard was $\frac{1}{2}$ of an inch deflection in order to provide a very safe passage way for our residents.

MISC.

1. Implemented a new uniform policy for our staff so residents can identify our staff from someone trying to impose as a village worker to invade our resident's homes.
2. We replaced our employees safety gear
3. We now monitor and prepare the reporting for Combined Sewer Outfalls (CSO) to save monies and become more accurate with drainage and knowledge of system operations.
4. We have become members of the following Purchasing Groups to have secured pricing bided out through the State of Illinois as to provide the lowest cost possible.
 - A. CMS – Road Salt in Bulk Purchase
 - B. Source well - Vehicles
 - C. TIPS – Supplies and Vendors
 - D. IMPWMAN ' Mutual Aide
5. We achieved a grant to fund the replacement of up to 100 parkway trees. This program is being offered right now through request and to be implemented this spring.
6. We installed town wide, spinning flag pole holders and new flags for street light poles to celebrate Holidays.
7. We purchased the following:
 - A. John Deere zero turn contractor's grade lawn mower with 54 inch cutting deck. Our old tractor was not a commercial grade rather a residential grade purchased from a local hardware store. Needless to say this machine was not functional to our needs and life expectancy.
 - B. Valve Exerciser with attachments for water isolation valve maintenance
 - C. Paint Sprayer for curbs and striping
 - D. We purchased all new barricades, cones, road closure jersey walls and A-Frame barriers for traffic control and staffing protection for utility work on roadways. The barricades that PW was using were homemade wooden barriers that were illegal with OSHA standards and provided no light reflection nor any notification for the motorist of what was taking place.
 - E. We also purchased concrete jersey walls to create bins for needed supplies and our salt pile at Oak Park Ave site for all materials stored. Our prior area for storing road salt was on top of dirt using a couple rotted out sheets of plywood propped against a fence to retain the pile in place.

1. We replaced the roofs on both water pumping stations and tuck pointed both buildings
2. We tuck pointed and wet sealed all the windows on Village Hall ‘

2023-24 Fiscal Year Projects to look forward to

1. **Mayor Miller and Administrator Dropka secured a grant for \$100,000.00, to construct a new salt - backfill stone and debris bin on the Oak Park Ave site.**
2. We will be removing the paint off the fire hydrants through town and giving them a new paint job.
3. Once again, Mayor Miller and Administrator Dropka secured \$200,000.00 through 2 different grants, each of which are for \$100,000.00 to help re-pave 4 roads in town and include new curb where the old curb has failed or where the gutter flags have been previously paved over. **Once again, we have not paved these roads on north and south streets for nearly 20+ years.**
4. We will be over- hauling our water pumping station with all new CAD equipment so we can realize any water situation as it happens to insure water safety and quality. This project also includes replacing pump number 3.
5. **We are implementing a 50-50 apron program for residents. There will be approximately \$30,000.00 of monies on a 1st come, 1st serve basis. More information to come.**
6. **Our plans are to be proactive** in regards to maintaining infrastructure such as regular hydrant flushing, exercising isolation valves, annual leak surveys and yearly road paving. Tree trimming is on a 3-5 year program. Replacing failing walkways before they become negligent will be yearly.
7. **We are also looking to replace our generator at Village Hall.**

Conclusion

We are currently working on Grant Applications for additional road paving, water main replacement and sewer lining. We are applying for over 5 million dollars in Grants to Forest View.

With excellent fiscal planning ALL OF THE ABOVE MENTIONED WORK FROM 2022 HAS BEEN COMPLETED USING MONTHLY REVENUES!!!!!!

NONE OF THE VILLAGES SECURED FUNDS HAVE BEEN USED TO COMPLETE ANY OF THESE PROJECTS AND PURCHASES.

Our plan is to be an EXTREMELY proactive department making sure all of our RESIDENT'S needs are being met with annual projects and maintenance to insure the BEST QUALITY OF LIFE FOR OUR NEIGHBORS!