



CAPITAL IMPROVEMENTS 2022

Village of Chagrin Falls

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<https://chagrin-falls.org>

21 W. Washington Street
Chagrin Falls, OH 44022



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MEMORANDUM

1. Capital Improvements

The Village of Chagrin Falls is proposing a robust, comprehensive capital improvement plan for 2022, encompassing much-needed improvements to all areas of Village infrastructure. Streets, curbs, sidewalks, sanitary sewers, storm sewers, water lines, park paths and trails, stormwater management, the police and fire stations, and the wastewater treatment plant are all areas that will see significant investment and activity in 2022. Provided is an overview of each project included in the capital plan. Several of these projects were started in 2021 and are being completed in 2022, while several others are starting this year and will carry over into 2023. Project numbers correspond to the project list on the Capital Expenditure Plan spreadsheet.

2. Projections and Cash Flow Analysis

Also attached is an excel workbook (5 sheets) with analysis of our existing indebtedness and related annual payments together with projections of capital funds available. These sheets are organized in the following manner:

SHEET 1-DEBT PAYMENTS

List of all existing Village debt-related annual payments through 2030, with the amount that will remain unpaid after 2030.

SHEET 2-TOTAL DEBT

Allocates the existing debt and the related payments to the appropriate funds. The numbers noted are derived from Sheet 1-Debt Payments.

SHEET 3-PROJECTIONS

Projects the income and expense of the two utility funds and the allocations to the capital improvements fund out of the general fund together with the administration's view of known capital expenditures beyond 2022. The 2022 numbers come from the budget you approved on March 28, 2022. I have only used currently enacted water and sewer rates for 2022 and 2023. I have tentatively forecast the need for a rate increases in 2024 for both funds, these are footnoted on sheet 3. CWD rates are increasing in 2024 by 3% and as I noted in the annual report we can no longer absorb their rate increases. We last raised water and sewer rates in 2015. Expenses of the fund have been inflated by 4% for 2023 and 23 and then 3% for 2024 and by 2% for every year after. The debt payments shown come from sheet 2. The Capital improvements fund come from Sheet 4. The capital expenditures on sheet 3 come from sheet 4.

SHEET 4-CAPITAL EXPENDITURES

Lists the Administration's known capital projects. The numbers in the 2022 column agree with the 2022 budget request. Once council has had an opportunity to review and modify the list of proposed capital projects, I will complete this analysis.

SHEET 5-ROAD PROGRAM

These numbers represent the engineers estimate to keep up with annual road maintenance and resurfacing.

We have provided for a minimum cash balance in both utility funds (water + waste water) equal to 3 months of operating expense. This is to provide a cash reserve fund for emergency repairs and unanticipated expenses. This three-month cash reserve is in accordance with the American Water Works Association recommended amount of 3 to 6 months. Any cash generated over this amount is available for on-going capital projects in the respective funds.

We look forward to discussing this with Council.

William Tomko

Chagrin Falls Mayor

Robert Jamieson

Chief Administrative Officer

CAPITAL PROJECTS

1. 2021 ROAD PROGRAM

\$360,000

The 2021 Road Program included several projects that are being carried over from 2021 into 2022.

- West Summit Street Improvements. Stormwater improvements including ditch redefinition and rain garden installation are items requiring completion.
- Northwoods Development Paving. Final repair of soft spot area in the pavement.
- River Run Parking Lot Repair. Repaving of the deteriorated section at the rear of the parking lot.
- Triangle Park Brick Walkway Replacement. Removal of the existing worn paver bricks and installation of the village-standard true red brick in the third phase of this project.

The contract for these projects has been awarded to Burton Scot Contractors, LLC. They are planning for an April-May start to complete these projects.

Funding | General Capital Fund:

D88H-439 CONTRACTED SERVICES:	\$54,000
D88H-452 CAPITAL IMPROVEMENT:	\$306,000
TOTAL:	\$360,000

2. 2022 ROAD PROGRAM

\$200,000

The road program for 2022 includes a complete repaving of Low Street, repaving of Chagrin Boulevard from Bentleyville Road to the Village Corporation Line in conjunction with Moreland Hills, and replacement of a storm sewer culvert and concrete pad on West Summit Street.

Repaving of Low Street and the additional work on West Summit Street will be proposed to be added to the existing 2021 Road Program contract with Burton Scot Contractors, LLC. Repaving of the one lane of Chagrin Boulevard will be managed by the Village of Moreland Hills with Chagrin Falls paying its fair share of the work performed on the Chagrin Falls side of the street.

Funding | General Capital Fund:

D98I-439 CONTRACTED SERVICES:	\$40,000
D98I-452 CAPITAL IMPROVEMENT:	\$160,000
TOTAL:	\$200,000

3. 2022 SIDEWALK REPLACEMENT PROGRAM

\$25,000

This annual program addresses heaved and/or deteriorated sections of residential sidewalks in the village. The focus for 2022 will be sidewalks on Water Street and adjacent areas in the historic district. This portion of the program will be performed by a contractor while a comparable amount of sidewalk replacement will be performed in-house by the Street Department.

Funding | General Capital Fund:

*The funding for the contractor-performed portion of this program is shown in the 2022 Budget in the following general capital fund areas:

D128L-439 CONTRACTED SERVICES:	\$5,000
D128L-452 CAPITAL IMPROVEMENT:	\$20,000
TOTAL:	\$25,000

4. ARBORETUM TRAIL – VINCENT STREET

\$200,000

The Arboretum Trail project started in 2021 and is carried over into 2022. This project involved construction of a new pedestrian trail along a former stone quarry roadway from the top of the arboretum area down and along the Chagrin River. A new staircase connects the trail up to the intersection of Cleveland Street and Low Street to make a loop. The majority of the work was completed in late 2021, with final invoicing and site work to be completed in 2022. The trail is expected to officially open to the public in the spring of 2022.

Funding:

- *GRANT:* An Ohio Department of Natural Resources NatureWorks grant in the amount of \$65,000 has been awarded for this project.
- *DONATION:* The previous Ben King Memorial Donation of \$48,000 is included in the general capital fund amount for this project. This is a very generous donation that will allow visitors to enjoy the park, the river, and the trees for generations to come. In addition, \$41,233 for this project will be coming from the remaining funds in the Founder's Field donation account, leftover from this project completed in the late 1990's.

Funding | General Capital Fund:

D18A-439 CONTRACTED SERVICES:	\$20,000
D18A-452 CAPITAL IMPROVEMENT:	\$180,000
TOTAL:	\$200,000

5. BELL ST. STORM OUTFALL EROSION REPAIR \$19,000

A large storm sewer originating from Bell Street outfalls to the Chagrin River over a long concrete spillway across the river from the library. Settling and erosion along the sides of the spillway need repair to prevent damage to the spillway. This project was originally approved in the 2021 Capital Improvement Plan. S.E.T., Inc. has been awarded a purchase order to perform these repairs, which will be completed in the spring of 2022 (likely in April).

Funding | General Capital Fund:

D18A-439 CONTRACTED SERVICES:	\$4,000
D18A-452 CAPITAL IMPROVEMENT:	\$15,000
TOTAL:	\$19,000

6. CEMETERY GRAVESITE EXPANSION \$10,000

Evergreen Hill Cemetery needs expansion of available gravesites to sell for burials. An area behind the Harris Mausoleum as well as an area near the existing maintenance building have been identified to have potential for development into new gravesites. In 2022, funding is requested for layout and engineering of these areas.

Funding | General Capital Fund:

D18A-439 CONTRACTED SERVICES:	\$10,000
TOTAL:	\$10,000

7. CEMETERY OFFICE – S&L BUILDING RELOCATION \$93,500

As part of the overall expansion plan for Evergreen Hill Cemetery, the existing maintenance building and office will need to be relocated to make room for new gravesite development. A small office area as well as a conference area to meet with families at the cemetery is needed.

A small, historic building that was the original savings and loan building in downtown Chagrin Falls dating to 1920 currently sits at 35 Hall Street, and the owner of the property would like to donate the building along with a \$10,000 contribution to the Village. A cost analysis was performed comparing the cost to relocate the donated S&L building to the cost of building new cemetery office space attached to a new maintenance building. This analysis showed it is more cost effective to accept the donation and relocate the building from Hall Street to the Cemetery. It will be placed on the lawn area to the south of the current maintenance garage driveway.

The proposed cost includes preparing the building to move it, the cost to actually move the structure, and all costs to construct the new foundation and secure the building in place at the cemetery.

Funding | General Capital Fund:

D18A-452 CAPITAL IMPROVEMENT:	\$93,500
TOTAL:	\$93,500

8. CEMETERY STREAM DAYLIGHTING PROJECT \$100,000

Another element of the Evergreen Hill Cemetery expansion plan is renovation of a large section of the cemetery that was a former stream enclosed with a culvert pipe and covered with fill. The existing culvert pipe is showing signs of sagging and will need costly repair at some point. It is proposed to fully remove the existing culvert pipe and return the stream to a natural condition. In conjunction with daylighting the stream, a new area will be developed in the future for new gravesites. This will be a multi-year project.

An Ohio Department of Natural Resources 319 grant application has been submitted in the amount of \$201,000 for this project. The purpose of this grant program is to restore natural streams in Ohio, and the Village has previously been awarded this grant for the wastewater treatment plant stream bank stabilization project. Results of the grant application are expected in April or May of 2022. This project will only proceed if the grant funds are approved.

Funding:

- *GRANT:* An ODNR 319 grant application in the amount of \$201,000 has been submitted. If awarded, approximately \$50,000 of grant funds is expected to be used in 2022 with the remainder to be used in 2023.

Funding | General Capital Fund:

*Funding for the portion of this project to be done in 2022 if the grant is awarded is shown in the 2022 Budget in the following general capital fund areas:

D38C-439 CONTRACTED SERVICES:	\$20,000
D38C-452 CAPITAL IMPROVEMENT:	\$80,000
2022 TOTAL:	\$100,000

TOTAL MULTI-YEAR PROJECT BUDGET:

D38C-439 CONTRACTED SERVICES:	\$90,000
D38C-452 CAPITAL IMPROVEMENT	\$360,000
OVERALL PROJECT TOTAL:	\$450,000

9. E. SUMMIT ST. TO E. COTTAGE ST. STORM SEWER REPLACEMENT \$75,000

An old, failing small diameter clay tile storm sewer line between East Summit Street and East Cottage Street is in poor condition and needs refurbishment. This sewer is located in an easement area between the properties at 26 and 38 East Summit Street on one end, and between 25 and 35 East Cottage Street on the other end.

This project includes replacement or relining of the existing 12-inch diameter storm sewer line as well as the addition of a catch basin on the storm sewer line on East Cottage Street.

Funding | General Capital Fund:

D18A-439 CONTRACTED SERVICES:	\$11,000
D18A-452 CAPITAL IMPROVEMENT:	\$64,000
TOTAL:	\$75,000

10. FALLS VIEWING AREA SLOPE STABILITY \$65,000

The hillside area immediately to the south of the Popcorn Shop and along the stairway to the falls is showing signs of movement. This slope area needs stabilization to prevent damage to the stairway and the sidewalk above.

This year, a geotechnical study of this hillside area will be completed and conceptual plans developed for methods of stabilizing this slope and improving the aesthetics of this area. Actual implementation of any project at this site would be scheduled after the North Main Street bridge refurbishment project is completed.

Funding | General Capital Fund:

D18A-439 CONTRACTED SERVICES:	\$65,000
TOTAL:	\$65,000

11. GROVE HILL PARK - DESIGN & ENGINEERING \$5,000

Following the donation of the land at the corner of West Cottage Street and North Main Street, the Village will be creating Grove Hill Park on this site. A small amount of design work on this project is planned for 2022, centering on tree planting in several areas. Further park development design and construction will be done in future years.

Funding | General Capital Fund:

D18A-439 CONTRACTED SERVICES	\$5,000
TOTAL:	\$5,000

12. HISTORIC DISTRICT STREETS –TELEVISIONING AND ANALYSIS \$75,000

A project to clean and televise all storm and sanitary sewer lines in the historic district streets was started and mostly completed in 2021. The goal of this project is to analyze the condition of all underground utilities on these streets to plan for repair/replacement prior to repaving the streets. Overall pipe condition is examined for defects and to plan for the appropriate repair or replacement. Several areas requiring point-repairs of pipe have been identified and are planned for repair this year. Streets included in this area of study include; Walnut St., Water St., Church St., Center St., Maple St., Hall St., Olive St., and South Franklin St.

The budget amount proposed for 2022 is carry-over funding from 2021 to complete the field work as well as for the village engineer to compile a final report and recommendations of the findings of the line televising.

Funding | General Capital Fund:

D18A-439 CONTRACTED SERVICES:	\$75,000
TOTAL:	\$75,000

13. HISTORIC DISTRICT SPOT UTILITY REPAIRS – MULTIPLE AREAS \$150,000

Related to the previous project #12 above, this project involves making repairs to seven (7) areas of storm sewer and sanitary sewer lines on streets in the historic district. Offset pipe joints, deteriorated pipe sections, and failing connections are examples of the defects to be corrected.

Funding | General Capital Fund + Sanitary Sewer Reserve Capital Funds:

D18A-439 CONTRACTUAL SERVICES:	\$7,500
D18A-452 CAPITAL IMPROVEMENT:	\$42,500
E43D-439 CONTRACTUAL SERVICES:	\$15,000
E43D-452 CAPITAL IMPROVEMENT:	\$85,000
TOTAL:	\$150,000

14. LOCUST LANE CULVERT REPLACEMENT \$100,000

A 30-inch diameter storm sewer culvert runs under Locust Lane near the intersection with North Main Street. This old corrugated metal culvert pipe conveys water from the stream that traverses a large part of the watershed on this street. The culvert is in poor condition and in need of replacement. To be done in conjunction with the stormwater study of the Willow/Locust/Lyndale watershed, a replacement 4-ft. x 4-ft. box culvert is planned for 2022. The exact location of the new culvert pipe will be established as a part of the stormwater study.

Funding | General Capital Fund:

D18A-439 CONTRACTED SERVICES:	\$18,000
D18A-452 CAPITAL IMPROVEMENT:	\$82,000
TOTAL:	\$100,000

15. MAPLE STREET IMPROVEMENTS

\$980,000

All components of the infrastructure of Maple Street need improvement. The current 4-to-6-inch cast and ductile iron waterline dating to the early 1900's is in poor condition which has resulted in 4-to-5 line and valve breaks and reduced hydrant flow. The 8-inch and 15-inch sanitary sewer dating back to 1907-1908 has leaking joints, contributing to the inflow and infiltration of storm water into the sanitary sewer system. Finally, the street surface is worn and at the end of its useable life.

A *multi-year* project is proposed to improve all infrastructure on this street. The waterline will be fully replaced to improve reliability and fire flows. The sanitary sewer will be lined to reduce inflow and infiltration. Private properties fronting Maple Street will receive an offer to line their sanitary sewer lateral lines at a discounted cost. The storm sewer line will receive spot repairs in several sections. And finally, the pavement will be resurfaced with the curbs and sidewalks repaired as needed as well.

This project will continue progress on the Village's long-term goal to have a 12" diameter water supply main in place the entire distance from the Solon Road booster station all the way to the water storage reservoir on East Washington Street. Completion of the Maple Street project will get the Village to about 90-95% completion towards this goal.

This project will span a period of two years, starting in 2022. The amount in the 2022 budget is what is possible to actually be spent on the project, depending on when engineering is complete and a contract is awarded.

Funding:

- *ARP FUNDS:* A total of \$412,000 has been provided to the Village under the American Rescue Plan Act for use in water and sewer utility upgrades. \$206,000 was received in 2021 and the remaining \$206,000 is expected in 2022. This funding is shown in account #B229P in the 2022 budget.

Funding | American Rescue Plan Act Fund, General Capital Fund, Water Reserve Capital Fund, and Sewer Reserve Capital Fund:

B229P-439 CONTRACTUAL SERVICES:	\$41,000
B229P-452 CAPITAL IMPROVEMENT:	\$165,000
D18A-439 CONTRACTED SERVICES:	\$64,000
D18A-452 CAPITAL IMPROVEMENT:	\$256,000
E33C-439 CONTRACTED SERVICES:	\$6,750
E33C-452 CAPITAL IMPROVEMENT:	\$27,250
E43D-439 CONTRACTED SERVICES:	\$84,000
E43D-452 CAPITAL IMPROVEMENT:	\$336,000
2022 TOTAL:	\$980,000

TOTAL MULTI-YEAR PROJECT BUDGET:

ARPA Funds: 21%	
B229P-439 CONTRACTUAL SERVICES:	\$82,000
B229P-452 CAPITAL IMPROVEMENT:	\$330,000
General Capital: 33%	
D18A-439 CONTRACTED SERVICES:	\$192,000
D18A-452 CAPITAL IMPROVEMENT:	\$768,000
Water Reserve Capital: 3%	
E33C-439 CONTRACTED SERVICES:	\$13,500
E33C-452 CAPITAL IMPROVEMENT:	\$54,500
Sewer Reserve Capital: 43%	
E43D-439 CONTRACTED SERVICES:	\$168,000
E43D-452 CAPITAL IMPROVEMENT:	\$672,000
OVERALL PROJECT TOTAL:	\$2,280,000

16. MAPLE ST. – CENTER ST. ALLEY IMPROVEMENT

\$165,000

Replacement of the pavement in the alley between Maple Street and Center Street is proposed in 2022. A new stormwater management system will be installed under the new pavement to slowly meter stormwater runoff into the storm sewer system, and the flows will be monitored for effectiveness. The apron approach to the alley off of Maple Street will be lowered and the adjacent sidewalks tapered to allow for easier ingress and egress to the alley by automobiles. A new, partial pervious brick pavement surface and concrete curb will be installed. It is hoped that if this system works out well, it would be implemented in other areas of the Village as well.

Funding:

- *DONATION:* A donation from a resident abutting this alley in the amount of \$85,000, approximately one-half of the project cost, has been received by the Village.

Funding | General Capital Fund:

D18A-439 CONTRACTED SERVICES:	\$33,000
D18A-452 CAPITAL IMPROVEMENT:	\$132,000
TOTAL:	\$165,000

17. MISCELLANEOUS PROJECT ENGINEERING AND PLANNING

\$50,000

Throughout each year, there are often unplanned project needs that arise that require engineering analysis and planning to start the process to present a possible future project. In addition, the scope of some existing projects sometimes escalates and requires additional engineering, planning, or inspection in order to complete the project correctly. With the volume of projects and needs in 2022, this item is needed to cover these variable costs.

Funding | General Capital Fund:

Funding for this project is shown in the 2022 Budget in the following general capital fund area:

D18A-439 CONTRACTED SERVICES:	\$50,000
TOTAL:	\$50,000

18. NORTH FORK DEVELOPMENT SANITARY SEWER RELINING

\$18,000

Sanitary sewer flow monitoring of the North Fork Development in the Village of Bentleyville has shown a much higher than normal volume of flow in this sewer line during storm events. Further sewer televising and analysis showed a section of damaged pipe that is likely letting groundwater infiltrate into the sanitary sewer line. Reducing infiltration of stormwater into the sanitary sewer system is a primary goal of the Village and an EPA requirement to prevent sanitary sewer overflows into the Chagrin River during storm events.

Lining of a 271-foot section of 8-inch diameter sanitary sewer line is proposed as the solution for this leaking pipe. The pipe will be lined with a felt-and-resin liner that will seal out the stormwater and strengthen the pipe. The Village of Bentleyville has been made aware of this project.

Funding | Sewer Reserve Capital Fund :

E43D-439 CONTRACTED SERVICES:	\$3,000
E43D-452 CAPITAL IMPROVEMENT:	\$15,000
TOTAL:	\$18,000

19. NORTH MAIN STREET BRIDGE REFURBISHMENT

\$5,000

Cuyahoga County and their bridge engineering consultant are currently in the process of creating the final plans for the North Main Street bridge renovation project, which is scheduled to be advertised for bids this fall. Through this process, they need to work with the Village Engineer on items that integrate between the Village and the property. These items include bridge lighting, easements, access to the bridge through village property, and traffic control and utility matters. This line item covers these village costs.

Funding | General Capital Fund:

D18A-439 CONTRACTED SERVICES:	\$5,000
TOTAL:	\$5,000

20. POLICE AND FIRE STATION IMPROVEMENTS

\$875,000

A renovation and expansion project is planned for the police and fire station that will start in 2022 and continue into 2023. This project originally was planned in 2018, but did not proceed at that time due to cost. This project involves adding a second floor over a portion of the existing police station to be used as additional space for the fire department. This new space will include additional dormitories and separate facilities for male and female firefighters, renovation of the kitchen and dayroom areas, and adding a new stairwell from the dormitories to the apparatus bay to reduce response time to emergency calls. The police station space below the new fire station addition will be renovated and reorganized for improved efficiency of police operations.

Funding:

- *GRANT:* A \$400,000 grant from Cuyahoga County has been awarded to be used towards the fire station portion of the project.
- *DONATION:* All six communities that receive service from the Suburban Fire Department are contributing ambulance revenue billing from this year in the amount of \$300,000 towards the fire station portion of the project.
- *CONTRIBUTION:* The Suburban Fire Department is committing the remaining amount towards the fire station portion of the project. This total is currently estimated to be approximately \$405,000. The final amount will depend on the final proportional split cost of the project between the police and fire station portions.

*The entire county grant and the ambulance billing revenue donation will be received in 2022.

Funding | General Capital Fund:

2022 BUDGET:	
D68F-439 CONTRACTED SERVICES:	\$100,000
D68F-452 CAPITAL IMPROVEMENT:	\$775,000
2022 TOTAL:	\$875,000

TOTAL MULTI-YEAR PROJECT BUDGET:

D68F-439 CONTRACTED SERVICES:	\$200,000
D68F-452 CAPITAL IMPROVEMENT:	\$1,550,000
OVERALL PROJECT TOTAL:	\$1,750,000

21. RIVERSIDE PARK PLAYGROUND

\$427,500

A new, replacement playground is planned for Riverside Park. This playground will be a custom-designed facility unique to Chagrin Falls, and will feature elements that engage children of all ages and abilities. A contract for the design of the playground was established in 2021, and the design is close to finalization at this time.

A donation campaign has started with the goal of raising \$300,000 towards the construction of this project. The Village is committing \$100,000 towards this project for the engineering, bidding, and inspection as well as the stormwater drainage site improvements. The project will be finalized and advertised for bids as soon as the donation funding is in place.

Funding:

- *DONATIONS:* A donation for the initial playground design in the amount of \$27,500 has been pledged by a private foundation. A public donation campaign has begun with a goal of raising approximately \$300,000 for the construction of the playground.

Funding | General Capital Fund:

D18A-439 CONTRACTED SERVICES	\$85,500
D18A-452 CAPITAL IMPROVEMENT	\$342,000
TOTAL:	\$427,500

22. RIVERSIDE PARK WALKWAY REPLACEMENT – PHASE 1 \$146,500

The contract for phase 1 of the Riverside Park Walkway Replacement project was established in 2021 and the majority of the work has been completed. The amount shown in this line item is for the completion of this project that has carried over from 2021. Completion is expected by April of 2022.

Funding:

- *GRANT:* An Ohio Department of Natural Resources direct appropriation grant in the amount of \$98,000 has been awarded for this project. This is a reimbursement grant and all funds will be received in 2022.

Funding | General Capital Fund:

D18A-439 CONTRACTED SERVICES	\$22,000
D18A-452 CAPITAL IMPROVEMENT	\$124,500
TOTAL:	\$146,500

23. S.S.O. ELIMINATION / E. WASHINGTON ST. IMPROVEMENTS \$75,000

This multi-year project to improve the water service, sanitary and storm sewers, and pavement has concluded. The amount shown in this line item is to complete all final mapping, reports, and incidentals to close out the project. This has been completed as of March, 2022. All costs will be charged against the Ohio E.P.A. WPCLF loan for this project and the loan will be closed out.

Funding:

- *LOAN:* An OEPA WPCLF loan has been secured for this project.

Funding | General Capital Fund, Water Reserve Capital Fund, and Sewer Reserve Capital Fund:

D18A-439 CONTRACTED SERVICES:	\$50,250
E33C-439 CONTRACTED SERVICES:	\$7,500
E43D-439 CONTRACTED SERVICES:	\$17,250
TOTAL:	\$75,000

24. STORMWATER MANAGEMENT PLANNING \$125,000

This is a continuation of the projects that started in 2021 to study stormwater in several areas of the village that have exhibited flooding conditions during heavy rain events.

In the Willow/Locust/Lyndale watershed area, the watershed analysis including storm flow modeling has been completed and options for potential solutions are in the development stage. This will be an ongoing project.

Funding | General Capital Fund:

Funding for this project is shown in the 2022 Budget in the following general capital fund area:

D18A-439 CONTRACTED SERVICES:	\$125,000
TOTAL:	\$125,000

25. TRIANGLE PARK SIDEWALK REPLACEMENT – FINAL PHASE \$80,000

Replacement of the brick sidewalks in Triangle Park has been a multi-year project, with the final phase to complete the project planned for 2022. The existing, faded paver bricks are being replaced with the true red bricks that have been designated as the village standard brick. This project will be combined with the portion of the brick sidewalk replacement that was carried over from 2021 to complete the project all at one time starting in the spring of 2022.

Funding | General Capital Fund:

D18A-439 CONTRACTED SERVICES:	\$16,000
D18A-452 CAPITAL IMPROVEMENT:	\$64,000
TOTAL:	\$80,000

26. VINCENT STREET SLOPE STABILIZATION \$200,000

The majority of Vincent Street was constructed on fill material at the top of an embankment leading down to the Chagrin River. Old maps indicate that perhaps as much as 30 feet of fill was added to the Vincent Street slope over time. There is one area showing signs of significant slope slippage and another area showing minor settling. This multi-year project that started in 2021 involves analyzing the slope stability of the area with a geotechnical study and formulating options for projects to fully stabilize these areas.

The total overall estimated cost of this project is \$2,250,000 and will only proceed further in 2022 if the FEMA federal grant of 75% of the project total and the State of Ohio matching grant of 12.5% are both awarded. The Village will contribute the remaining 12.5% of the project total which is \$281,000. If the grants are awarded and the project proceeds, it is projected that a total of \$200,000 would be spent in 2022 for this project, with \$175,000 coming from grant funds and \$25,000 from village funds. A total of 87.5% of this project is to be grant-funded.

Funding:

- *GRANT:* A Federal Emergency Management Agency (FEMA) grant in the amount of \$1,687,000 has been requested. This amount is 75% of the total potential project cost.
- *GRANT:* A State of Ohio matching grant in the amount of \$281,000 has been requested. This amount is 12.5% of the total potential project cost.

Funding | General Capital Fund:

D18A-439 CONTRACTED SERVICES:	\$40,000
D18A-452 CAPITAL IMPROVEMENT	\$160,000
2022 TOTAL:	\$200,000

TOTAL MULTI-YEAR PROJECT BUDGET:

D18A-439 CONTRACTED SERVICES:	\$450,000
D18A-452 CAPITAL IMPROVEMENT	\$1,800,000
OVERALL PROJECT TOTAL:	\$2,250,000

27. WALNUT STREET IMPROVEMENTS \$455,000

Improvements to all infrastructure on Walnut Street consisting of waterline replacement, sanitary sewer lining, lateral lining, storm sewer repair, and street resurfacing are strongly needed. This project will start in 2022 and continue into 2023 due to the scope of work.

Funding | General Capital Fund, Water Reserve Capital Fund, and Sewer Reserve Capital Fund:

General Capital: 27%

D18A-439 CONTRACTED SERVICES:	\$18,000
D18A-452 CAPITAL IMPROVEMENT:	\$72,000

Water Reserve Capital: 19%	
E33C-439 CONTRACTED SERVICES:	\$19,000
E33C-452 CAPITAL IMPROVEMENT:	\$76,000
Sewer Reserve Capital: 54%	
E43D-439 CONTRACTED SERVICES:	\$54,000
E43D-452 CAPITAL IMPROVEMENT:	\$216,000
2022 TOTAL:	\$455,000

TOTAL MULTI-YEAR PROJECT BUDGET:	
D18A-439 CONTRACTED SERVICES:	\$54,000
D18A-452 CAPITAL IMPROVEMENT:	\$216,000
E33C-439 CONTRACTED SERVICES:	\$38,000
E33C-452 CAPITAL IMPROVEMENT:	\$152,000
E43D-439 CONTRACTED SERVICES:	\$108,000
E43D-452 CAPITAL IMPROVEMENT:	\$432,000
OVERALL PROJECT TOTAL:	\$1,000,000

28. WASTEWATER TREATMENT PLANT – PHASE 1 IMPROVEMENTS \$160,000

Phase 1 of the capital improvements to the wastewater treatment plant that started in 2021 will be completed in 2022. The amount in the 2022 budget covers the completion of contract items and final inspection and acceptance.

Funding:

- *LOAN:* Both an Ohio Public Works Commission and an Ohio Environmental Protection Agency loan have been obtained and will cover this final close-out amount.

Funding | Sewer Reserve Capital Fund:

E43D-439 CONTRACTED SERVICES:	\$10,000
E43D-452 CAPITAL IMPROVEMENT:	\$150,000
TOTAL:	\$160,000

29. WASTEWATER TREATMENT PLANT – PHASE 2 IMPROVEMENTS \$6,000,000

The second phase of the wastewater treatment plant improvements is planned to start in 2022. The elements of this project consist of replacing 50-year-old original pumps, controls, and systems at the plant as well as making physical changes to several structures to allow a greater flow through the plant to eliminate sanitary sewer overflows (S.S.O.'s) into the Chagrin River. While not increasing the capacity of the plant of 1 million gallons per day, this project will increase the surge capacity of the plant from the current 3 million-gallons-per-day up to 3.75 million gallons-per-day. The Village is under an Ohio Environmental Protection Agency mandate to eliminate all S.S.O.'s into the Chagrin River, and this project results in compliance with this mandate.

A supplemental agreement between the Village and Geauga County for their portion of the plant project cost is now under negotiation. Geauga County owns 22% of the capacity of the plant, and has participated in 22% of the initial construction and all capital improvement projects to-date since the plant was constructed in 1971.

Funding:

- *GEAUGA COUNTY:* Geauga County is responsible for 22% of the total project cost. The grant for this project will be applied to their portion of the project as well. After the grant is applied, Geauga County will be responsible for approximately \$550,000.
- *GRANT:* A grant from the United States Department of the Interior in the amount of \$3,500,000 has been awarded for this project.
- *LOAN:* An Ohio Environmental Protection Agency Clean Water loan will cover the remaining \$2,500,000 cost of this project, with the project financed over 20 years.

Funding | Sewer Reserve Capital Fund:

E43D-439:	\$300,000
E43D-452:	\$1,200,000
2022 TOTAL:	\$1,500,000

TOTAL MULTI-YEAR PROJECT BUDGET:

E43D-439:	\$1,200,000
E43D-452:	\$4,800,000
OVERALL PROJECT TOTAL:	\$6,000,000

30. WATER ST. IMP. & CHAGRIN BLVD. WATER CONNECTIONS **\$561,000**

Last year in 2021, a contract for infrastructure improvements on Water Street was awarded and the project extended into 2022. The elements of this project include; relocating residential waterline connections from an old, obsolete water main to a newer water transmission main, abandoning the obsolete water main, lining of the main sanitary sewer, installing clean-outs and lining residential sanitary sewer lateral lines within the right-of-way, repairs to the main storm sewer line, replacement of the majority of the street curbs, resurfacing of the pavement, and repair of poor sections of sidewalks.

Funding | General Capital Fund, Water Reserve Capital Fund, and Sewer Reserve Capital Fund:

General Capital: 40%	
D18A-439 CONTRACTED SERVICES:	\$21,000
D18A-452 CAPITAL IMPROVEMENT:	\$119,000
Water Reserve Capital: 20%	
E33C-439 CONTRACTED SERVICES:	\$16,500
E33C-452 CAPITAL IMPROVEMENT:	\$95,500
Sewer Reserve Capital: 40%	
E43D-439 CONTRACTED SERVICES:	\$46,350
E43D-452 CAPITAL IMPROVEMENT:	\$262,650
TOTAL:	\$561,000

31. WING WALL REFURBISHMENT – ENGINEERING **\$10,000**

In conjunction with the upcoming refurbishment of the North Main Street Bridge by Cuyahoga County, the Village will be refurbishing the upstream “wing walls” that adorn either side of the river between the upper falls and the North Main Street Bridge. This project has been in the planning stages for 4 years now, with the timing dependent upon the County bridge project. The Village will be partnering with the County on this project to improve the economy of scale for this project and to only need to access the river at one point at the same time for both projects.

This project involves removing up to 50% of the thickness of the walls and restoring them with new concrete. These walls were last refurbished in the 1930’s, with a maintenance treatment performed in the 1980’s.

Funding in the capital budget in 2022 will be used for engineering work on this project in working with the County to finalize project plans.

Funding | General Capital Fund:

D168O-439 CONTRACTED SERVICES:	\$10,000
TOTAL:	\$10,000

DEBT PAYMENTS:

The following debt payments are charged to capital funds in the village budget as indicated.

32. 2017 GENERAL CAPITAL IMPROVEMENTS LOAN PAYMENT

D18A-461 PRINCIPAL:	\$121,000
D18A-462 INTEREST:	\$19,415
TOTAL:	\$140,415

\$563,633 REMAINING BALANCE AFTER 2022. 4 YEARS (2026)

33. ODOT INVOICE PAYMENT – MILL STREET PROJECT

D138R-439:	\$25,000
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\$23,531.67 REMAINING BALANCE AFTER 2022. 1 YEAR (2023)

34. OPWC LOAN PAYMENTS – FALLS RD. WATERLINE

D158N-452 FALLS RD.:	\$12,900
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\$32,250 REMAINING BALANCE AFTER 2022. 3 YEARS (2025)

35. OPWC LOAN PAYMENT – W. WASHINGTON ST. WATERLINE

D78G-452 W. WASHINGTON ST. WATER:	\$5,325
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\$7,987 REMAINING BALANCE AFTER 2022. 2 YEARS (2024)

36. OPWC LOAN PAYMENT – MILL ST. STABILIZATION

D138R-452:	\$4,067
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\$97,608 REMAINING BALANCE AFTER 2022. 24 YEARS (2046)

37. OPWC LOAN PAYMENTS – GREENBRIER

D148M-452:	\$25,525
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\$714,692 REMAINING BALANCE AFTER 2022. 28 YEARS (2050)

38. OPWC LOAN PAYMENTS – RIVER/WEST ST.

D199R-452:	\$6,167
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\$172,666 REMAINING BALANCE AFTER 2022. 28 YEARS (2050)

39. OPWC LOAN PAYMENTS – SOLON RD.

E33C-452:	\$17,441
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\$383,702 REMAINING BALANCE AFTER 2022. 22 YEARS (2044)

40. OPWC LOAN PAYMENT – 2006 WWTP RENOVATIONS

E43D-452 CAPITAL IMPROVEMENT	\$4,604.00
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\$27,624 REMAINING BALANCE AFTER 2022. 6 YEARS (2028)

41. O.W.D.A. LOAN REPAYMENT - EAST WASHINGTON ST. WATERLINE

D18A-461 PRINCIPAL:	\$17,110
D18A-462 INTEREST:	\$1,490
E15Z-461 PRINCIPAL:	\$17,110

E15Z-462 INTEREST:	\$1,490
TOTAL:	\$37,200

\$674,500 REMAINING BALANCE AFTER 2022. 19 YEARS (2041)
50/50 SPLIT BETWEEN GENERAL CAPITAL AND WATER CAPITAL

42. O.W.D.A. LOAN REPAYMENT - S.S.O. ELIMINATION / E. WASHINGTON ST

SANITARY AND STORM/ROAD PORTION ONLY - NO WATER

D18A-461 PRINCIPAL:	\$25,300
D18A-462 INTEREST:	\$4,550
E25X-461 PRINCIPAL:	\$51,300
E25X-462 INTEREST:	\$9,250
TOTAL:	\$90,400

\$2,399,127 REMAINING BALANCE AFTER 2022. 29 YEARS (2051)
33% GENERAL CAPITAL, 67% SEWER CAPITAL

43. OPWC LOAN PAYMENT – EAST WASHINGTON ST.

D18A-461 PRINCIPAL:	\$7,400
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\$214,600 REMAINING BALANCE AFTER 2022. 29 YEARS (2051)

44. T-1 FIRE TRUCK LEASE PAYMENT

D18A-452:	\$64,331
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\$112,579 REMAINING BALANCE AFTER 2022. 2 YEARS (2024)

45. OWDA LOAN PAYMENT – WASTEWATER TREATMENT PLANT P. 1

E25X-461 PRINCIPAL:	\$53,275
E25X-462 INTEREST:	\$325
TOTAL:	\$53,600

\$2,082,400 REMAINING BALANCE AFTER 2022. 19 YEARS (2041)

46. OPWC LOAN PAYMENT - WASTEWATER TREATMENT PLANT PHASE 1

E25X-461 PRINCIPAL:	\$3,750
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\$146,250 REMAINING BALANCE AFTER 2022. 19 YEARS (2041)

47. O.W.D.A. LOAN PAYMENT - WASTEWATER TREATMENT PLANT PHASE 2 – DESIGN

E25X-461 PRINCIPAL:	\$180,000
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\$720,000 REMAINING BALANCE AFTER 2022. 4 YEARS.

48. WATER METER REPLACEMENT – BOND PAYMENT

E15Z-461 PRINCIPAL:	\$76,000
E15Z-462 INTEREST:	\$13,527
TOTAL:	\$89,527

\$821,920 REMAINING BALANCE AFTER 2022. 9 YEARS (2031)

DEFERRED PROJECTS:

The following projects are upcoming capital improvement needs that will be addressed in the upcoming years.

49. SALT STORAGE BUILDING	(\$500,000)
50. WATER WELL DRILLING – 2 NEW WELLS	\$0
51. WHITESBURG PARK FISHING POND DREDGING	\$0

**VILLAGE OF CHAGRIN FALLS | CAPITAL EXPENDITURE PLAN
2022 PROJECTS**

Capital Project Description		Projected Project Total	Capital Fund Expenditures				Outside Funding Sources						Comments	
			GCF	Water	Sewer	ARPA	GCF Grant	GCF Loan	WATER Grant	WATER Loan	SEWER Grant	SEWER Loan		ARPA
1	2021 Road Program - (2021 Carryover Projects)		360,000											W. Summit Stormwater, River Run Parking Lot, Large Area Patching
2	2022 Road Program		200,000											Solether Ln. Repairs, Low St. Repaving, Chagrin Blvd. (1-lane)
3	2022 Sidewalk Replacement Program		25,000											
4	Arboretum Trail - Vincent Street (2021 Carryover)		200,000			65,000								NatureWorks Grant Received
5	Bell Street Storm Outfall Erosion Repair		19,000											Ben King Memorial Donation of \$48,000 included with GFC total
6	Cemetery Gravesite Expansion Project		10,000											Engineering and Layout
7	Cemetery Office - Savings and Loan Building Relocation		93,500											
8	Cemetery Stream Daylighting Project (Multi-Year)	450,000	100,000			50,000								Project will proceed only if OEPA 319 grant is awarded. (\$201K total)
9	E. Summit St. to E. Cottage St. Storm Sewer Replacement		75,000											
10	Falls Viewing Area Slope Stability		65,000											Engineering Study / Planning
11	Grove Hill Park - Design and Engineering		5,000											
12	Historic District Streets - Infrastructure Televising and Analysis		75,000											Planning for Future Improvement Projects
13	Historic District Spot Utility Repairs - Multiple Areas	150,000	50,000		100,000									
14	Locust Lane Culvert Replacement		100,000											Part of the Stormwater Management Planning for this Watershed
15	Maple Street Improvements (Multi-Year)	2,280,000	320,000	34,000	420,000	206,000						206,000		\$412,000 Economic Relief and Recovery Funds (1/2 received in 2021)
16	Maple St. - Center St. Alley Improvements		165,000			75,000								50% Resident Donation
17	Miscellaneous Project Engineering, Planning, and Grant App.		50,000											Traffic Engineering and Future Projects Planning
18	North Fork Development Sanitary Sewer Relining				18,000				18,000					HOA or BV to Reimburse
19	North Main Street Bridge Refurbishment - Misc. Engineering		5,000											Engineering for Village Items Pertaining to County Bridge Project
20	Police and Fire Station Improvements (Multi-Year)	1,750,000	875,000			700,000								\$400,000 County Grant, \$300,000 6-Town Ambulance Billing Revenue \$550,000 Suburban Fire Assn.
21	Riverside Park Playground		427,500			327,500								\$327,500 Donations
22	Riverside Park Walkway Replacement - Phase 1 (2021 Carryover)		146,500			98,000								\$98,000 ODNR Direct Appropriation Grant
23	SSO Elimination / East Washington Street Improvement Project		50,250	7,500	17,250		50,250	7,500		17,250				OEPA WPCLF Loan
24	Stormwater Management Planning		125,000											Willow/Locust, South St., Village-Wide
25	Triangle Park Sidewalk Replacement - Final Phase		80,000											Phase 4 will complete the project
26	Vincent Street Slope Stabilization (Multi-Year)	2,250,000	200,000			175,000								FEMA and State Grant Funds Requested
27	Walnut Street Improvements	1,000,000	90,000	95,000	270,000									Project will proceed only if grant funds are awarded.
28	Wastewater Treatment Plant - Phase 1 Improvements				160,000					160,000				Waterline Replacement, Sewer Lining and Repair, Repaving
29	Wastewater Treatment Plant - Phase 2 Improvements (Multi-Year)	6,000,000			1,500,000					1,500,000				OPWC and EPA Loans
30	Water Street Improvements & Chagrin Bl. Water Connections	626,000	140,000	112,000	309,000									OEPA Clean Water Loan Application & \$3.5 Mil. Federal Grant Request
31	Wing Wall Refurbishment - Plans and Engineering		10,000											Water Connection Relocation, Sewer Lining and Repair, Repaving
	Subtotal		4,061,750	248,500	2,794,250	206,000	1,490,500	50,250	0	7,500	18,000	1,677,250	206,000	Project to be built when N. Main Bridge is under construction - 2023
Debt Payments														
32	2017 General Capital Improvements Loan Payment		140,415											\$563,633 remaining balance after 2022 (4 Years - 2026)
33	ODOT Invoice for Mill Street Project		25,000											\$23,532 remaining balance after 2022 (1 Year - 2023)
34	OPWC Loan Payment - Falls Rd. Waterline		12,900											\$32,250 remaining balance after 2022 (3 Years - 2025)
35	OPWC Loan Payment - W. Washington St. Waterline		5,325											\$7,987 remaining balance after 2022 (2 Years - 2024)
36	OPWC Loan Payment - Mill St. Stabilization		4,067											\$97,608 remaining balance after 2022 (24 Years - 2046)
37	OPWC Loan Payment - Greenbrier		25,525											\$714,692 remaining balance after 2022 (28 Years - 2050)
38	OPWC Loan Payment - River/West		6,167											\$172,666 remaining balance after 2022 (28 Years - 2050)
39	OPWC Loan Payment - Solon Road Waterline			17,441										\$383,702 remaining balance after 2022 (22 Years - 2044)
40	OPWC Loan Payment - 2006 WWTP Improvements				4,604									\$27,624 remaining balance after 2022 (6 Years - 2028)
41	O.W.D.A. Loan Payment - East Washington St. Waterline - Split Loan		18,600											\$337,250 remaining balance after 2022. (19 Years - 2041)
42	O.W.D.A. Loan Payment - SSO Elimination / East Washington St. - Split		29,850											\$791,712 remaining balance after 2022. (29 Years - 2051)
43	OPWC Loan Payment - East Washington St.		7,400											\$214,600 remaining balance after 2022. (29 Years - 2051)
44	T-1 Fire Truck Lease Payment		64,331											\$112,579 remaining balance after 2022 (2 Years - 2024)
	Subtotal		339,580	17,441	4,604	0								
Deferred Projects														
45	(Salt Storage Building)		0											Estimated Cost - \$500,000 Plus
46	(Water Well Drilling - 2 New Wells)			0										Future Need, Scope and Cost To Be Determined
47	(Whitesburg Park Pond Dredging)		0											
TOTAL			4,401,330	265,941	2,798,854	206,000	1,490,500	50,250	0	7,500	18,000	1,677,250	206,000	

This color indicates a multi-year project with future expenditure commitment.

This color indicates carryover project approved and construction started in 2021.

<i>Source of Funds</i>				
	GCF	WATER	SEWER	ARPA
Cash Balances	1,789,198	(244,795)	652,852	
Revenue - Income Tax and Special Assessments	1,266,700			
American Rescue Plan Act Funds - First payment from 2021				206,000
Transfer from Sewer Fund to Sewer Capital				
Transfer from Water Fund to Water Capital		520,000		
Transfer from General Fund to Sewer Capital			500,000	
Grants & Donations	1,490,500	0	18,000	
Government Loans & Bond Note Funds	50,250	7,500	1,677,250	
Available Funds Subtotal	4,596,648	282,705	2,848,102	206,000

<i>Capital Fund Expenditures</i>				
	GCF	WATER	SEWER	
Proposed Project Totals (Sub Totals)	4,401,330	265,941	2,798,854	
R.I.T.A. Payments - D18A-434	38,000			
Proposed Project Subtotal	4,439,330	265,941	2,798,854	
FINAL BALANCE	157,318	16,764	49,248	

3/3/2022

<i>Capital Project Debt, Water and Sewer Funds (not in Water Capital or Sewer Capital)</i>				
		Water	Sewer	Comments
1	O.W.D.A. Loan Payment - East Washington St. Waterline	Split Loan	18,600	\$337,250 Remaining balance after 2022. (19 Years - 2041)
2	O.W.D.A. Loan Payment - SSO Elimination / East Washington St.	Split Loan		\$1,607,415 remaining balance after 2022. (29 Years - 2051)
3	O.W.D.A. Loan Payment - WWTP Phase 1		53,600	\$2,082,400 remaining balance after 2022. (19 Years - 2041)
4	OPWC Loan Payment - WWTP Phase 1		3,750	\$146,250 remaining balance after 2022. (19 Years - 2041)
5	Loan Payment - WWTP Phase 2 Design		180,000	\$720,000 remaining balance after 2022. (4 Years - 2026)
6	Water Meter Replacement - Bond Payment		89,527	\$821,920 remaining balance after 2022 (9 Years - 2031)
	FINAL BALANCE		108,127	297,900

DEBT PAYMENTS [SHEET 1]

Creditor	Project	Remaining Debt (01/01/22)	Interest Rate	Payments Due / Calendar Years										Remaining Debt	Date of Last Payment		
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030				
State Of Ohio	Mill St Repair	\$ 48,532	0	\$ 25,000	\$ 25,000	\$ 23,532										\$ -	
OPWC	Falls Rd water line	\$ 45,150	0	\$ 12,900	\$ 12,900	\$ 12,900	\$ 12,900									\$ -	
OPWC	2006 WWTP renovations	\$ 32,232	0	\$ 4,604	\$ 4,604	\$ 4,604	\$ 4,604	\$ 4,604	\$ 4,604	\$ 4,604	\$ 4,604	\$ 4,604	\$ 4			\$ -	
OPWC	Solon Water Main	\$ 401,150	0	\$ 17,441	\$ 17,441	\$ 17,441	\$ 17,441	\$ 17,441	\$ 17,441	\$ 17,441	\$ 17,441	\$ 17,441	\$ 17,441	\$ 17,441		\$ 226,740	
OPWC	W. Washington St. water	\$ 13,312	0	\$ 5,325	\$ 5,325	\$ 5,325										\$ -	
OPWC	Mill St. Stabilization	\$ 103,720	0	\$ 4,067	\$ 4,067	\$ 4,067	\$ 4,067	\$ 4,067	\$ 4,067	\$ 4,067	\$ 4,067	\$ 4,067	\$ 4,067	\$ 4,067		\$ 63,050	
Key Gov't. Financial	Fire truck lease	\$ 176,910	2.69	\$ 64,331	\$ 64,331	\$ 64,331	\$ 48,248	\$ -								\$ -	
Chase	2017 capital improvements	\$ 704,049	2.51	\$ 140,452	\$ 140,415	\$ 141,303	\$ 141,090	\$ 140,802	\$ 140,438	\$ -						\$ -	
OPWC	River and West Street	\$ 178,833	0	\$ 6,167	\$ 6,167	\$ 6,167	\$ 6,167	\$ 6,167	\$ 6,167	\$ 6,167	\$ 6,167	\$ 6,167	\$ 6,167	\$ 6,167	\$ 6,167	\$ 117,163	2050
OPWC	Greenbrier Project	\$ 740,217	0	\$ 25,525	\$ 25,525	\$ 25,525	\$ 25,525	\$ 25,525	\$ 25,525	\$ 25,525	\$ 25,525	\$ 25,525	\$ 25,525	\$ 25,525	\$ 25,525	\$ 484,967	2050
Key Corp	Water meter project	\$ 911,448	1.62	\$ 91,223	\$ 89,527	\$ 91,296	\$ 91,016	\$ 90,720	\$ 91,408	\$ 91,063	\$ 90,702	\$ 91,325	\$ 91,916			\$ 92,474	2031
OEPA	E. Washington SSO project	\$ 3,200,000	0.49	\$ 31,835	\$ 63,670	\$ 63,670	\$ 63,670	\$ 63,670	\$ 63,670	\$ 63,670	\$ 63,670	\$ 63,670	\$ 63,670	\$ 63,670	\$ 63,670	\$ 2,595,135	2052
OPWC	E. Washington SSO project	\$ 150,000	0		\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 105,000	2052
OEPA	2021 WWTP renovation	\$ 2,136,266	0.03		\$ 53,571	\$ 107,142	\$ 107,142	\$ 107,142	\$ 107,142	\$ 107,142	\$ 107,142	\$ 107,142	\$ 107,142	\$ 107,142	\$ 107,142	\$ 910,707	2041
OPWC	2021 WWTP renovation	\$ 150,000	0		\$ 3,750	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 86,250	2041
*OEPA	2022 WWTP Phase II 20 year debt (1)	\$ 2,000,000	1.5 SWAG			\$ 58,250	\$ 116,500	\$ 116,500	\$ 116,500	\$ 116,500	\$ 116,500	\$ 116,500	\$ 116,500	\$ 116,500	\$ 116,500		2044
	Maple & Walnut Streets 30 year debt (2)	\$ 1,600,000	1.5 SWAG			\$ 33,350	\$ 66,700	\$ 66,700	\$ 66,700	\$ 66,700	\$ 66,700	\$ 66,700	\$ 66,700	\$ 62,500			2054
TOTAL CASH OUT FOR DEBT SERVICE				\$ 428,870	\$ 521,293	\$ 671,403	\$ 717,570	\$ 655,838	\$ 656,162	\$ 515,379	\$ 515,018	\$ 511,041	\$ 507,428				
TOTAL DEBT				\$ 12,591,819										\$ 4,681,486			

(1) WWTP 6,000,000-(3,500,000+550,000) ~2,000,000

(2) rounded from sheet 3, per Tim we could borrow the funds also for the general fund portion of this project if we choos. The 16 reflects just borrowing enough for the sewwr proption of the project

TOTAL DEBT [SHEET 2]

	Remaining Debt (01/01/22)	Int. Rate	Payments Due / Calendar years										Remaining Debt	Date of Last Payment	
			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030			
General Fund															
Mill St Repair	\$ 73,532		\$ 25,000	\$ 25,000	\$ 23,532									\$ -	
Mill St. Stabilization	\$ 103,720	0	\$ 4,067	\$ 4,067	\$ 4,067	\$ 4,067	\$ 4,067	\$ 4,067	\$ 4,067	\$ 4,067	\$ 4,067	\$ 4,067	\$ 4,067	\$ 63,050	
Fire truck lease	\$ 176,910	2.69	\$ 64,331	\$ 64,331	\$ 64,331	\$ 48,248	\$ -							\$ -	
River and West Street	\$ 116,241	0	\$ 4,009	\$ 4,009	\$ 4,009	\$ 4,009	\$ 4,009	\$ 4,009	\$ 4,009	\$ 4,009	\$ 4,009	\$ 4,009	\$ 4,009	\$ 76,156	
2017 capital improvements	\$ 704,049	2.51	\$ 140,452	\$ 140,415	\$ 140,303	\$ 141,090	\$ 140,802	\$ -						\$ -	
Greenbrier Project	\$ 421,924	0	\$ 14,549	\$ 14,549	\$ 14,549	\$ 14,549	\$ 14,549	\$ 14,549	\$ 14,549	\$ 14,549	\$ 14,549	\$ 14,549	\$ 14,549	\$ 276,431	
E. Washington SSO project	\$ 544,000	0.49	\$ 5,412	\$ 10,824	\$ 10,824	\$ 10,824	\$ 10,824	\$ 10,824	\$ 10,824	\$ 10,824	\$ 10,824	\$ 10,824	\$ 10,824	\$ 441,173	
E. Washington SSO project	\$ 25,500	0	\$ -	\$ 850	\$ 850	\$ 850	\$ 850	\$ 850	\$ 850	\$ 850	\$ 850	\$ 850	\$ 850	\$ 17,850	
TOTAL	\$ 2,165,876		\$ 257,820	\$ 264,045	\$ 262,465	\$ 223,637	\$ 175,101	\$ 34,299	\$ 34,299	\$ 34,299	\$ 34,299	\$ 34,299	\$ 34,299	\$ 874,660	
Utility Funds															
(Water)															
Greenbrier Project	\$ 318,293	0	\$ 10,976	\$ 10,976	\$ 10,976	\$ 10,976	\$ 10,976	\$ 10,976	\$ 10,976	\$ 10,976	\$ 10,976	\$ 10,976	\$ 10,976	\$ 208,536	
Water meter project	\$ 911,448	1.62	\$ 91,223	\$ 89,527	\$ 92,296	\$ 91,016	\$ 90,720	\$ 91,408	\$ 91,063	\$ 90,702	\$ 91,325	\$ 91,916	\$ 91,916	\$ 92,474	
Falls Rd water line	\$ 45,150	0	\$ 12,900	\$ 12,900	\$ 12,900	\$ 12,900								\$ -	
Solon Water Main	\$ 401,150	0	\$ 17,441	\$ 17,441	\$ 17,441	\$ 17,441	\$ 17,441	\$ 17,441	\$ 17,441	\$ 17,441	\$ 17,441	\$ 17,441	\$ 17,441	\$ 226,740	
W. Washington St. water	\$ 13,312	0	\$ 5,325	\$ 5,325	\$ 5,325									\$ -	
E. Washington SSO project	\$ 416,000	0.49	\$ 4,139	\$ 8,277	\$ 8,277	\$ 8,277	\$ 8,277	\$ 8,277	\$ 8,277	\$ 8,277	\$ 8,277	\$ 8,277	\$ 8,277	\$ 337,368	2052
E. Washington SSO project	\$ 19,500	0		\$ 650	\$ 650	\$ 650	\$ 650	\$ 650	\$ 650	\$ 650	\$ 650	\$ 650	\$ 650	\$ 13,650	2052
River and West Street	\$ 44,708	0	\$ 1,542	\$ 1,542	\$ 1,542	\$ 1,542	\$ 1,542	\$ 1,542	\$ 1,542	\$ 1,542	\$ 1,542	\$ 1,542	\$ 1,542	\$ 29,291	
TOTAL	\$ 2,169,562		\$ 143,545	\$ 146,638	\$ 149,406	\$ 142,802	\$ 129,606	\$ 130,293	\$ 129,949	\$ 129,588	\$ 130,211	\$ 130,802	\$ 130,802	\$ 908,058	
(Waste Water)															
2006 WWTP renovations	\$ 32,232	0	\$ 4,604	\$ 4,604	\$ 4,604	\$ 4,604	\$ 4,604	\$ 4,604	\$ 4,604	\$ 4,604	\$ 4,000			\$ -	
River and West Street	\$ 17,883	0	\$ 617	\$ 617	\$ 617	\$ 617	\$ 617	\$ 617	\$ 617	\$ 617	\$ 617	\$ 617	\$ 617	\$ 11,716	
E. Washington SSO project	\$ 2,240,000	0.49	\$ 22,285	\$ 44,569	\$ 44,569	\$ 44,569	\$ 44,569	\$ 44,569	\$ 44,569	\$ 44,569	\$ 44,569	\$ 44,569	\$ 44,569	\$ 1,816,595	
E. Washington SSO project	\$ 105,000	0	\$ 3,500	\$ 3,500	\$ 3,500	\$ 3,500	\$ 3,500	\$ 3,500	\$ 3,500	\$ 3,500	\$ 3,500	\$ 3,500	\$ 3,500	\$ 70,000	
2021 WWTP renovation	\$ 2,136,266	0.03		\$ 53,571	\$ 107,142	\$ 107,142	\$ 107,142	\$ 107,142	\$ 107,142	\$ 107,142	\$ 107,142	\$ 107,142	\$ 107,142	\$ 910,707	
2021 WWTP renovation	\$ 150,000	0		\$ 3,750	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 86,250	
EXISTING DEBT			\$ 31,005	\$ 110,611	\$ 167,932	\$ 167,932	\$ 167,932	\$ 167,932	\$ 167,932	\$ 167,932	\$ 163,332	\$ 163,328	\$ 163,328		
2022 WWTP Phase II 20 year debt (1)	\$ 2,000,000	1.5 (1)			\$ 58,250	\$ 116,500	\$ 116,500	\$ 116,500	\$ 116,500	\$ 116,500	\$ 116,500	\$ 116,500	\$ 116,500		
Maple & Walnut Streets 30 year debt	\$ 1,600,000	1.5 (1)			\$ 33,350	\$ 66,700	\$ 66,700	\$ 66,700	\$ 66,700	\$ 66,700	\$ 66,700	\$ 66,700	\$ 62,500		
NEW DEBT					\$ 91,600	\$ 183,200	\$ 183,200	\$ 183,200	\$ 183,200	\$ 183,200	\$ 183,200	\$ 183,200	\$ 179,000		
GRAND TOTAL	\$ 6,681,381		\$ 31,005	\$ 110,611	\$ 259,532	\$ 351,132	\$ 351,132	\$ 351,132	\$ 351,132	\$ 351,132	\$ 346,532	\$ 342,328	\$ 342,328		

(1) pure SWAG

PROJECTIONS [SHEET 3]

2022 2023 2024 2025 2026 2027 2028 2029 2030

GENERAL FUND

GENERAL FUND

Carryover from prior year		\$ 195,635	\$ 320,719							
Opening Balance	\$ 1,789,197	\$ 1,842,873	\$ 1,879,730	\$ 1,917,325	\$ 1,955,671	\$ 1,994,785	\$ 2,034,681	\$ 2,075,374	\$ 2,116,882	
Funds allocated to capital improvements	\$ 1,260,000	\$ 1,297,800	\$ 1,323,756	\$ 1,350,231	\$ 1,377,236	\$ 1,404,780	\$ 1,432,876	\$ 1,461,534	\$ 1,490,764	
TOTAL	\$ 3,049,197	\$ 3,336,308	\$ 3,524,205	\$ 3,267,556	\$ 3,332,907	\$ 3,399,565	\$ 3,467,557	\$ 3,536,908	\$ 3,607,646	

PLUS INCOMING GRANTS + CONTRIBUTIONS

Grants and other outside funding sources									
Grants and other contribution for Police and Fire	700,000	\$ 405,000							
FEMA Grant for Vincent street (0)		\$ 1,687,500							
State Grant for Vincent street		\$ 282,375							
Playground Donation		\$ 327,000							
319 for cemetery open airing (0)	\$ 50,000	\$ 50,000							
Alley donation	\$ 85,000								
Vincent St donations (3)	\$ 89,233								
Riverside Playground	\$ 375,000								
State nature works Grant (2)	\$ 65,000								
Hall street bank bldg. move	\$ 10,000								
State grant Riverside Park walk way -carryover	\$ 98,000								
TOTAL	\$ 1,472,233	\$ 2,751,875							

GEN FUND + GRANTS + CONTRIBUTIONS \$ 4,521,430 \$ 6,088,183

LESS OUTGOING FUNDS

Existing debt service (sheet 2)	\$ 264,045	\$ 262,465	\$ 223,637	\$ 175,101	\$ 34,299	\$ 34,299	\$ 34,299	\$ 34,299	\$ 34,299
Known Capital Expenditures (sheet 4)	\$ 4,061,750	\$ 5,505,000							
TOTAL	\$ 4,325,795	\$ 5,767,465							

NET FUNDS AVAILABLE/CARRYOVER \$ 195,635 \$ 320,719

(ROAD PROGRAM)

Road Program Allocated Funds	\$ 560,000	\$ 571,200	\$ 582,624	\$ 594,276	\$ 606,162	\$ 618,285	\$ 630,651	\$ 643,264	\$ 656,129
LESS Road Program Expenditures	\$ 560,000	\$ 571,200	\$ 582,624	\$ 594,276	\$ 606,162	\$ 618,285	\$ 630,651	\$ 643,264	\$ 656,129
ROAD PROGRAM EXCESS/DEFICIT	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

WATER FUND

			[4]	[5]	[5]				
Revenue	\$ 1,952,550	\$ 1,992,400	\$ 2,131,868	\$ 2,259,780	\$ 2,395,367	\$ 2,395,367	\$ 2,395,367	\$ 2,395,367	\$ 2,395,367
LESS Operating ex debt (1)	\$ 1,655,000	\$ 1,721,200	\$ 1,790,048	\$ 1,843,749	\$ 1,880,624	\$ 1,918,237	\$ 1,956,602	\$ 1,995,734	\$ 2,035,648
LESS Debt service	\$ 146,638	\$ 149,406	\$ 142,802	\$ 129,606	\$ 130,293	\$ 129,949	\$ 129,588	\$ 130,211	\$ 130,802
OPERATING CASH FLOW	\$ 150,912	\$ 121,794	\$ 199,018	\$ 286,425	\$ 384,449	\$ 347,181	\$ 309,177	\$ 269,422	\$ 228,917
LESS Capital Expenditures (sheet 4)	\$ 454,500	\$ 565,000							
PLUS Covid Relief Funds	\$ 206,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PLUS Opening Cash	\$ 1,475,128	\$ 963,790	\$ 90,284	\$ (158,210)	\$ (332,722)	\$ 51,727	\$ 398,908	\$ 708,086	\$ 977,508
ENDING CASH	\$ 1,377,540	\$ 520,584	\$ 289,302	\$ 128,215	\$ 51,727	\$ 398,908	\$ 708,086	\$ 977,508	\$ 1,206,425
MINIMUM CASH RESERVE (3 MO EXPENSE)	\$ 413,750	\$ 430,300	\$ 447,512	\$ 460,937	\$ 470,156	\$ 479,559	\$ 489,150	\$ 498,933	\$ 508,912
CASH IN EXCESS OF CASH RESERVE	\$ 963,790	\$ 90,284	\$ (158,210)	\$ (332,722)	\$ (418,429)	\$ (80,651)	\$ 218,935	\$ 478,574	\$ 697,513

SEWER FUND

Revenue	\$ 1,645,000	\$ 1,710,800	\$ 1,813,448	\$ 1,904,120	\$ 1,999,326	\$ 1,999,326	\$ 1,999,326	\$ 1,999,326	\$ 1,999,326
Transfer from General Fund (2)	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000
TOTAL REVENUE	\$ 1,770,000	\$ 1,835,800	\$ 1,938,448	\$ 2,029,120	\$ 2,124,326	\$ 2,124,326	\$ 2,124,326	\$ 2,124,326	\$ 2,124,326
Operating expense (1)	\$ 1,641,000	\$ 1,690,230	\$ 1,757,839	\$ 1,828,153	\$ 1,882,997	\$ 1,920,657	\$ 1,959,070	\$ 1,998,252	\$ 2,038,217
LESS Existing Debt Service	\$ 110,611	\$ 167,932	\$ 167,932	\$ 167,932	\$ 167,932	\$ 167,932	\$ 167,932	\$ 163,332	\$ 163,328
New Debt service for plant expansion	\$ -	\$ 91,600	\$ 183,200	\$ 183,200	\$ 183,200	\$ 183,200	\$ 183,200	\$ 183,200	\$ 179,000
OP. EXPENSE + TOTAL DEBT SERVICE	\$ 1,751,611	\$ 1,949,762	\$ 2,108,971	\$ 2,179,284	\$ 2,234,129	\$ 2,271,789	\$ 2,310,202	\$ 2,344,784	\$ 2,380,545
LESS Plant expansion	\$ 2,794,250	\$ 5,210,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OP. CASH FLOW - CAPITAL FOR PLANT MODERNIZATION	\$ (2,775,861)	\$ (5,323,962)	\$ (170,523)	\$ 33,036	\$ 73,397	\$ 35,737	\$ (2,676)	\$ (37,257)	\$ (77,218)
Opening cash	\$ 730,940	\$ 1,936,079	\$ 64,560	\$ (105,963)	\$ (72,927)	\$ 471	\$ 36,208	\$ 33,532	\$ (3,725)
PLUS Grants									
Covid relief funds	\$ 206,000								
Federal Grant	\$ 3,500,000								
Geauga County share (3)	\$ 275,000	\$ 275,000							
New borrowing to fund the plant	\$ 2,000,000								
New borrowings for Maple and Walnut St.	\$ 1,600,000								
ENDING CASH	\$ 1,936,079	\$ 487,118	\$ (105,963)	\$ (72,927)	\$ 471	\$ 36,208	\$ 33,532	\$ (3,725)	\$ (80,943)
MINIMUM CASH RESERVE (3 MO EXPENSE)	\$ 410,250	\$ 422,558	\$ 439,460	\$ 457,038	\$ 470,749	\$ 480,164	\$ 489,768	\$ 499,563	\$ 509,554
CASH IN EXCESS OF CASH RESERVE	\$ 1,525,829	\$ 64,560	\$ (545,423)	\$ (529,965)	\$ (470,279)	\$ (443,956)	\$ (456,235)	\$ (503,288)	\$ (590,497)

KNOWN CAPITAL EXPENDITURES [SHEET 4]

GENERAL FUND

PROJECT	TOTAL	Payments Due / Calendar years								
		2022	2023	2024	2025	2026	2027	2028	2029	2030
2021 carry over projects	\$ 360,000	\$ 360,000								
2022 road program	\$ 200,000	\$ 200,000								
Bell Street storm outfall erosion repair	\$ 19,000	\$ 19,000								
Cemetery Gravesite expansion project	\$ 10,000	\$ 10,000								
Grove Hill Design and engineering	\$ 5,000	\$ 5,000								
E. Summit to E. Cottage Storm sewer	\$ 75,000	\$ 75,000								
Wing Walls	\$ 1,410,000	\$ 10,000	\$ 1,400,000							
Maple Street Improvements*	\$ 940,000	\$ 320,000	\$ 620,000							
Engineering and planning for slope stability falls view	\$ 65,000	\$ 65,000								
Locust Land Culvert	\$ 100,000	\$ 100,000								
Maple/Center St alley improvement	\$ 165,000	\$ 165,000								
Police station renovation	\$ 1,750,000	\$ 875,000	\$ 875,000							
Misc. project engineering Planning and grant application	\$ 50,000	\$ 50,000								
open air stream in Cemetery (1)	\$ 450,000	\$ 100,000	\$ 350,000							
N. Main Bridge misc. engineering	\$ 5,000	\$ 5,000								
Riverside Park play ground	\$ 427,500	\$ 427,500								
Riverside brick walk replacement, carry over	\$ 146,500	\$ 146,500								
Storm water mgt Planning	\$ 125,000	\$ 125,000								
Triangle Park sidewalk replacement	\$ 80,000	\$ 80,000								
Vincent Street Slope Stabilization (1)	\$ 2,250,000	\$ 200,000	\$ 2,050,000							
Arboretum trail	\$ 200,000	\$ 200,000								
Walnut Street Improvements*	\$ 300,000	\$ 90,000	\$ 210,000							
Water St/Chagrin Blvd improvements	\$ 140,000	\$ 140,000								
Sidewalks	\$ 25,000	\$ 25,000								
move S&L bldg. to cemetery	\$ 93,500	\$ 93,500								
Salt Bldg.		\$ -								
H.D. Streets T.V.	\$ 75,000	\$ 75,000								
H.D. Storm Spot repairs	\$ 50,000	\$ 50,000								
E. Washington Final	\$ 50,250	\$ 50,250								
TOTAL KNOWN CAPITAL EXPENDITURES	\$ 9,566,750	\$ 4,061,750	\$ 5,505,000							

WATER FUND

PROJECT	TOTAL	2022	2023	2024	2025	2026	2027	2028	2029	2030
Maple Street Improvements*	\$ 500,000	\$ 240,000	\$ 240,000							
Water St	\$ 112,000	\$ 112,000								
Walnut Street Improvements*	\$ 420,000	\$ 95,000	\$ 325,000							
E. Washington St Final	\$ 7,500	\$ 7,500								
TOTAL	\$ 1,039,500	\$ 454,500	\$ 565,000							

SEWER FUND

PROJECT	TOTAL	2022	2023	2024	2025	2026	2027	2028	2029	2030
WWTP Phase II	\$ 6,000,000	\$ 1,500,000	\$ 4,500,000							
Maple Street Improvements*	\$ 840,000	\$ 420,000	\$ 420,000							
Western Historic district Utility spot repairs	\$ 100,000	\$ 100,000								
Water St	\$ 309,000	\$ 309,000								
Walnut Street Improvements*	\$ 560,000	\$ 270,000	\$ 290,000							
North Fork Sewer relining	\$ 18,000	\$ 18,000								
WWTP-Phase I	\$ 160,000	\$ 160,000								
E. Washington St Final	\$ 17,250	\$ 17,250								
TOTAL	\$ 8,004,250	\$ 2,794,250	\$ 5,210,000							

(1) Grant Dependent

* Road Program 2022

2022 ROAD PROGRAM DETAIL [SHEET 5]

	STORM	PAVT	GENERAL	WATER	SEWER	TOTAL
MAPLE	\$ 620,000	\$ 320,000	\$ 940,000	\$ 500,000	\$ 840,000	\$ 2,280,000
WALNUT	\$ 150,000	\$ 150,000	\$ 300,000	\$ 420,000	\$ 560,000	\$ 1,280,000
TOTAL	\$ 770,000	\$ 470,000	\$ 1,240,000	\$ 920,000	\$ 1,400,000	\$ 3,560,000