

# NORTHVILLE TOWNSHIP, MICHIGAN 2021- 2026 CAPITAL IMPROVEMENT PLAN

*Charter Township of Northville, Michigan. A six-year capital improvement plan (CIP) and an annual update of that plan is required under the Michigan Planning Enabling Act of 2008. The CIP identifies multi-year capital improvements and projects for purposes of long-range planning for the Township.*

# ***Capital Improvements Program***

**Township of Northville, Michigan  
2021-2026**

## **Overview**

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The Township of Northville's Capital Improvements Program (CIP) is a planning tool, with a goal to identify capital improvement needs over a six-year period from 2021-2026. The CIP is an opportunity to formulate strategic long-term policy decisions that extend beyond the current budget year. The CIP helps track multi-year projects that may require planning, design, land acquisition and construction. The projects identified in the CIP represent the Township of Northville's plan to serve residents and anticipate the needs of a growing and dynamic community. The following documents were considered in preparation of the CIP:

- Land Use Master Plan (adopted August 16, 2007)
- Pathway Gap Analysis (prepared August 2012)

## **Definition of a Capital Improvement**

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A capital improvement is defined as any new equipment, construction, acquisition or improvement to public lands, buildings or structures in excess of \$5,000 with a minimum life expectancy of one year. Maintenance-oriented, operational or continuous expenditures are not considered to be capital improvements.

The CIP allows for responsible and thoughtful planning of future major expenditures that are not necessarily financed or automatically included in the annual budgeting process. All capital projects, however, as they pertain to the definition of capital improvements above should be part of this CIP. Specifically, the purpose of the CIP is to:

- Identify and evaluate the needs for public facilities.
- Determine cost estimates for each capital project submitted.
- Determine if there will be future operating costs for such projects.
- Determine potential sources of funding for such projects.
- Adopt policies for implementing capital improvement construction.
- Anticipate and pre-plan projects with an emphasis on seizing opportunities for partnerships and alternative funding.

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## **Impact of Capital Budget on the Operating Budget**

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As new policies and programs are approved, both the operating and capital budgets are impacted. For example, an increase in service levels approved as part of the operating budget would have long-term effects on the Capital Improvements Program. Conversely, a restrictive change to the use of long-term debt would slow capital programs.

Regardless of the difference between the operating and capital budgets, the two are interdependent. Budgetary policy states that all foreseeable operating costs related to capital projects be estimated and provided for as part of the review process associated with the Capital Improvements Program. In addition, departments are required to include costs associated with operating and maintaining capital projects that are requested for the upcoming year.

## **Legal Basis of the Capital Improvements Program**

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The development and the adoption of a CIP is driven by a statutory requirement at the State level. The State of Michigan has set forth the requirement of a CIP under the Michigan Planning Enabling Act, Act 33 of 2008. The following excerpt from the Act sets forth the requirement:

*"...(2) Any township may prepare and adopt a capital improvement program. However, subsection (1) is only mandatory for a township if the township alone or jointly with one or more other local units of government, owns or operates a water supply or sewage disposal system."*

## **Planning and Benefits of the Capital Improvements Program**

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The CIP is first and foremost, a planning tool. It can be quite useful as a primary guide in implementing the Master Plan. With thoughtful foresight and review as a result of a CIP, the many outstanding capital projects that communities are faced with implementing every year, can be viewed as one package, rather than as small, fragmented groups or lists, with no unified sense of focus and direction.

When capital improvements begin with careful planning and study, the Township of Northville's chances for receiving state and federal grants are greatly enhanced. Some grants require the inclusion of a CIP with their application. Formulation of a CIP assists those involved to look at alternative funding mechanisms that might not have been considered before. Instead of relying on local revenue sources alone, the CIP allows the Township to think more creatively to fulfill Master Plan goals and policies. The CIP often avoids reactive planning, and instead replaces it with balanced growth initiatives.

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## Program Funding

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There are multiple methods available to local governments for financing capital improvement projects. Since capital improvements require large outlays of capital for any given project, it is often necessary to pursue multiple solutions for financing projects.

The Capital Improvement Plan is simply that – a plan. As such, projects are subject to change based on new or shifting service needs, special financing opportunities, or emerging needs. Because priorities can change, projects included in outward planning years are not guaranteed for funding.

### **General Obligation (G.O.) Bonds**

These types of bonds are especially useful for financing large municipal projects such as infrastructure improvements. They require voter approval and usually are used for projects that will benefit the residents of the entire community.

When the Township sells G.O. Bonds, the purchaser is basically lending money to the Township. The amount of the bond, plus interest is repaid through property taxes that the Township, as the issuing authority, has the power to levy at the level necessary and within state guidelines to retire the debt.

A variation of the G.O. Bonds is the G.O. Limited Tax Bonds which can be repaid through tax millage. The interest rate for this type of issue is slightly higher than for the G.O. Bonds, and though voter approval is not required, a referendum period is afforded to the citizenry to challenge the proposed bond resolution.

### **Revenue Bonds**

These bonds are generally sold as a means for constructing revenue-producing facilities such as water and sewer systems, and other such facilities that produce tolls, fees, rental charges, etc. Security for and payment of revenue bonds are typically based upon the revenue-producing facility or activity rather than the economic or taxpaying base.

### **Federal Grants**

Funding is made available to townships through Federal grants and programs. Grants are usually subject-specific, and require application by the local government for consideration. Amounts of grants vary, and are determined by the grantor through criteria-based processes. The availability of grants is usually a competitive process, so creative and effective grant writing is crucial to receiving funding for capital improvement projects.

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## **Building Authority**

The Township of Northville has a Building Authority that functions as a mechanism to facilitate the selling of bonds to finance public improvements. These bonds can be used as funding for buildings and recreational uses. Though voter approval is not required, a referendum period is afforded to the citizenry to challenge the proposed bond resolution. This is the mechanism used in the construction of the Township Hall.

## **Enterprise Funds**

Enterprise funds are typically established for services such as water, sewer, recreation, and housing. Revenues are generated primarily through user charges and connection fees from those who benefit from the improvements.

## **Developer Contributions**

Developers as part of subdivision and site planning requirements may provide infrastructure, open space and recreational facilities. Developers may contribute a share of funds to the government entity, or install the facilities themselves as local need arises, and/or during the construction process. Once completed, the local government entity may agree to maintain the facilities.

## **Millage**

Property taxes are based upon the local millage rate. Revenue received from property taxes may be used for capital improvements, but such improvements are usually smaller scale and less expensive.

## **Miscellaneous Funding Options**

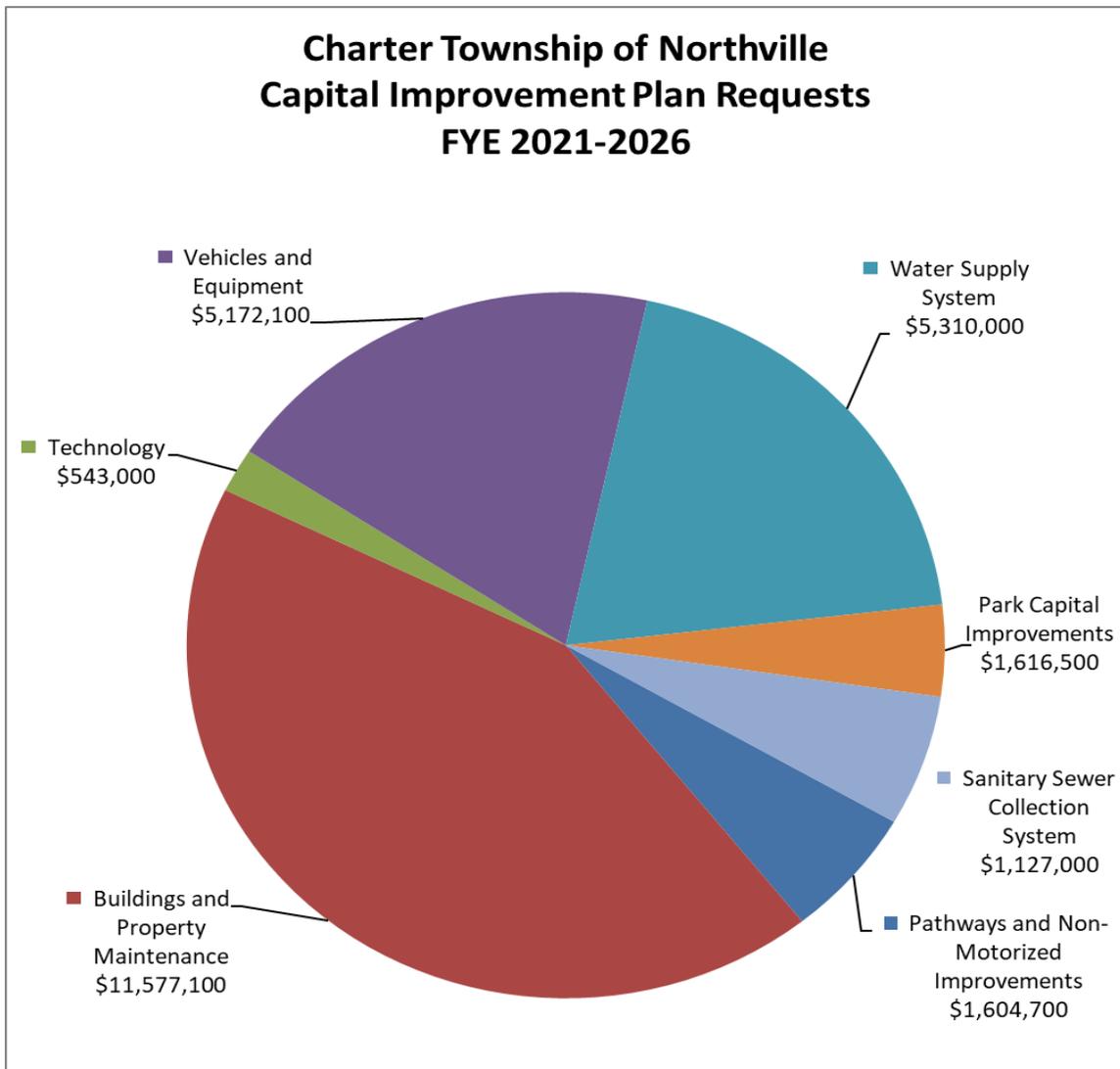
There are additional methods that are suitable for funding capital improvements. Examples of alternative funding methods are Tax Increment Financing (TIF), Facility User Fees, etc.

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## Project Summary

The following tables include project summaries with estimated costs over the six-year period. The first column identifies an item number and the tables are followed by a numeric Project Description.

The projects listed in the graph below represent all projects that have been submitted, and are not reflective of any approved budget amounts.



## 2021-2026 Project Descriptions Pathways and non-motorized improvements

- Twenty 21 Plan Implementation – .78 Miles of Path**  
Seventy-eight hundredths of a mile (4,100 linear feet) of ten-foot wide asphalt pathway along the south side of 7 Mile Road. The project will also include

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approximately 100 street trees to be planted between the pathway and 7 Mile Road. The project is consistent with the adopted 7 Mile Road Master Plan. The project represents a start to the future development of the site and will provide visible improvements along 7 Mile Road. The project will require maintenance of the path and street trees.

## **2. 5' Wide Non-Motorized Pathway (6 Mile Road, East of Beck Road)**

Two tenths of a mile (943 linear feet) of five-foot wide concrete pathway on the north side of Six Mile Road, east of Beck Road. The project will fill in two small gaps and complete the section of path on the north side of 6 Mile Road, between Sheldon Road and Beck Road. The project also includes approximately 23 street trees to be planted between the pathway and 6 Mile Road. The Township will purchase the street trees with funds from the Woodland Fund, if the adjacent homeowners will accept the maintenance responsibility for them. The pathway is a high priority project based on the pathway matrix gap analysis. The required road right of way to complete the project exists. The pathway will provide access from the Hills of Crestwood subdivision to the high school, Millennium Park, and a significant portion of the Township's non-motorized pathway system. The pathway will require maintenance and repair in the future.

## **3. 5' Wide Non-Motorized Pathway (6 Mile Road, West of Beck Road)**

One tenth of a mile (600 linear feet) of five-foot wide concrete pathway on the north side of 6 Mile Road, west of Beck Road. The project will fill a small gap and complete the section of pathway on the north side of 6 Mile Road, between Beck Road and Ridge Road. The project also includes approximately 15 street trees to be planted between the pathway and 6 Mile Road. The Township will purchase the street trees with funds from the Woodland Fund, if the adjacent homeowners will accept the maintenance responsibility for them. The project will provide access to a significant portion of the Township's non-motorized pathway system for the residents of Stonewater. The pathway will require maintenance and repair in the future.

## **4. 10' Wide Non-Motorized Pathway (Ridge Road)**

Thirty-two hundredths of a mile (1,693 linear feet) of ten-foot wide asphalt pathway on the east side of Ridge Road, south of 7 Mile Road. The project also includes approximately 42 street trees to be planted between the pathway and Ridge Road. The Township will purchase the street trees with funds from the Woodland Fund, if the adjacent homeowners will accept the maintenance responsibility for them. The pathway is a high priority based on the pathway matrix gap analysis. The project will fill in two gaps and complete the section of pathway on the east side of Ridge Road, between 6 Mile and 7 Mile Roads. The pathway will also provide a connection into Maybury State Park, on the south side of the park, and access to a significant portion of the Township's pathway system for many residents residing on the western edge of the Township. The pathway will require maintenance and repair in the future.

## **5. 10' Wide Non-Motorized Pathway (Bradner Road)**

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Seventy-four hundredths of a mile (3,895 linear feet) of ten-foot wide asphalt pathway on the east and west sides of Bradner Road between 5 and 6 Mile Roads (from Ladywood Drive to Norham Street on the east side and in front of Whisperwood Subdivision on the west side). The project also includes approximately 86 street trees to be planted between the pathway and Bradner Road. The Township will purchase the street trees with funds from the Woodland Replacement Fund, if the adjacent homeowners will accept the maintenance responsibility for them. The pathway is a high priority based on the pathway matrix gap analysis. With the exception of a parcel located on the west side of the road, the required right of way exists to complete this project. A non-motorized pathway in this location will provide an off road route for many kids who walk to Meads Mill Middle School and will serve several hundred households within subdivisions along Bradner Road. Bradner Road is not on any county plans for improvement in the near future and the area is already developed, so the pathway will not be done as part of a land development project. However, the full right of way is available for all but a fraction of the project area and as a result, the project can be accomplished without being removed in the future. The pathway will require maintenance and repair in the future.

### **6. 5' Wide Non-Motorized Pathway (Silver Springs Drive)**

Sixty-one hundredths of a mile (3,209 linear feet) of five-foot wide concrete pathway on the east side of Silver Springs Drive, between 7 Mile Road and 8 Mile Road. The pathway is a high priority project based on the pathway matrix gap analysis and will complete the section of pathway between 7 Mile Road and 8 Mile Road. The required road right of way to complete the project exists. The pathway will require maintenance and repair in the future.

### **7. 10' Wide Non-Motorized Pathway (8 Mile Road)**

Seventy-six hundredths of a mile (4,012 linear feet) of ten-foot wide asphalt pathway on the south side of 8 Mile Road, from Silver Springs Drive to Spring Lane. The project also includes approximately 100 street trees to be planted between the pathway and 8 Mile Road. The Township will purchase the street trees with funds from the Woodland Replacement Fund, if the adjacent homeowners will accept the maintenance responsibility for them. The pathway is a mid-range priority based on the pathway matrix gap analysis. The project will complete a significant segment along 8 Mile Road and tie into the I-275 pathway. The pathway will require maintenance and repair in the future.

## Marv Gans Community Park Capital Improvements

### **8. Replace Park Equipment**

Much of the park equipment, such as picnic tables, benches, trash receptacles, and bike racks is in need of replacement. A regular replacement schedule needs to be maintained in order to keep the equipment in good condition. The replacement program will also provide for a consistent image throughout the parks.

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### **9. Install Dugout Roofs with Fencing and Footings**

The current dugout roofs are chain link fencing with tarps strapped over them that frequently tear and leak. Replacing them with solid roofs will give the players some protection from the weather.

### **10. Replace Sideline Fencing (3)**

This project would replace the sideline fencing for three fields in Marv Gans Community Park. The new fencing would be installed at more age appropriate distances. By replacing the fencing, regular maintenance will be reduced and safety will be improved.

### **11. Soccer Field Renovation (2)**

Two soccer fields at Marv Gans Community Park do not have under drainage, resulting in wet and sometimes unplayable conditions when there is rain. This improvement would make the fields playable more frequently, and improve the mowing conditions for the fields. This project would address one field at a time and would require it to be “rested” so that it could be re-seeded after the drainage is installed.

### **12. Replace Play Structure**

The existing play structure in the back section of Marv Gans Community Park, near the pavilion and restrooms, is approximately 20 years old and approaching the end of its useful life expectancy. The replacement equipment will meet the current safety and accessibility guidelines for play structures. This is a popular park amenity, due to the proximity to the picnic pavilion, restrooms, soccer fields, and adjacent residential areas. Plans involve expanding the play structure slightly to meet the demand for this location.

### **13. Parking Lot Resurfacing**

This project includes milling and resurfacing the east parking lot at Marv Gans Community Park, which services the soccer and baseball / softball fields. The current parking lot is the original paving and is in poor condition. Completing this project would increase safety of park visitors and usability of the spaces contained therein.

### **14. Rewire Irrigation System and Components**

The irrigation system is a critical component for field maintenance. The system in the front portion of Marv Gans Community Park was installed in 1999 and is in need of rewiring and replacement components. This rewiring and component replacement will result in better operations and improved field conditions. An updated system will also simplify future maintenance and repairs, reducing cost and time spent.

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## Millennium Park Capital Improvements

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### 15. **Renovate Restrooms**

When the restrooms at Millennium Park were constructed approximately twenty years ago (as part of an agreement with Toll Brothers – developers of adjacent residential areas) the water lines were not sized properly, the restroom fixtures used were residential, and some of the construction materials were residential. This project will size the water line properly, which will decrease significantly the amount of toilet backups we experience. It will replace all of the fixtures, i.e. toilets, urinals, sinks, with commercial grade fixtures. The stalls will be replaced/re-sized and upgraded, and the walls will be repaired from where the new plumbing is installed. The flooring surface will also be improved. In-house staff will be utilized in coordination with contractors for cost saving measures.

### 16. **Dugout Roofs**

The current dugout roofs are chain link fencing with tarps strapped over them that frequently tear and leak. Replacing them with solid roofs will give the players some protection from the weather. It will also help improve the appearance of the fields/park and support the goal of making this park and these fields a premier location to play ball and host tournaments.

### 17. **Soccer Field Renovation**

Two soccer fields at Millennium Park do not have under drainage, resulting in wet and sometimes unplayable conditions when there is rain. This improvement would make the fields playable more frequently, and would improve the mowing conditions for the fields. This project would address one field at a time and would require it to be "rested" so that it could be re-seeded after the drainage is installed.

### 18. **Replace Boardwalks / Bridges (2)**

The boardwalks / bridges that connect two residential areas to the park will be over twenty years old and are in deteriorating condition. Replacing the original boardwalks / bridges will avoid them becoming a safety concern.

## Henningsen Park Capital Improvements

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### 19. **Replace Sideline Fencing (2)**

This project would replace the sideline fencing for two fields in Henningsen Park. The new fencing would be installed at a more appropriate minimum height to improve spectator safety from foul balls. By replacing the fencing, regular maintenance will be reduced and safety will be improved.

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## Sheldon Road Park Capital Improvements

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### 20. Replace Play Structure

This project is to replace the small play structure at Sheldon Road Park, which is over twenty years old. The play structure is currently the only amenity at the Sheldon Road Park and is well beyond its useful life expectancy. The replacement structure will be designed to meet current safety and accessibility standards.

## Coldwater Springs Park Capital Improvements

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### 21. Parking Lot Resurfacing

Mill and resurface the parking lot at Coldwater Springs Park off Ridge Road. This is an anticipated need for resurfacing the parking lot at Coldwater Springs due to the age of the lot. Alternate paving material options will be explored for this project.

## Bennett Arboretum Pathway Capital Improvements

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### 22. Replace Boardwalks

The large elevated boardwalk along the Bennett Arboretum Pathway will be over fifteen years old and anticipated to need significant repair or replacement. The Bennett Arboretum Pathway is highly used by bikers, walkers, and runners of all ages and abilities. The boardwalk is a major component of the pathway, which by the time it reaches fifteen years, will likely need significant repairs or replacement in order to maintain the safety of the users. Repairs to the railings and decking have been made consistently over the years, funded by the operating budget. This budgeted amount is for large repairs needed, when any of the large, dead trees nearby fall and cause significant damage to the boardwalk.

## Fish Hatchery Park Capital Improvements

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### 23. Parking Lot Paving and Striping

The current gravel lot generates significant runoff whenever it rains, resulting in silt filling up the adjacent pond. This will be the most advantageous time to pave the parking lot, given that the Johnson Creek Habitat Restoration Project is being completed in 2020, including dredging the pond and completing bank restoration work. The paving will result in improved long-term conditions of the pond and provide a greatly improved parking lot for park users.

### 24. Baseball Backstop and Sideline Fencing

The backstop fencing is over 20 years old and in poor condition, with rust, holes, and curling up at the bottom. The sideline fencing should be raised to 8' height

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and repositioned to improve player and spectator safety. Vinyl coated chain link will comply with Township ordinances and provide an improvement aesthetically and for maintenance.

### **25. Replace Play Structure**

The play structure was installed in 1995; it is in poor condition and no longer meets current safety and accessibility standards.

### **26. Replace Pavilion**

The picnic pavilion at Fish Hatchery Park is the largest pavilion in our park system. It is in a very desirable location near the pond, Johnson Creek, a play structure, ball fields, and tennis courts. And it is not too far from the parking lot. However, it is in fair condition (at best), and only has a crushed limestone flooring and no electricity. A new pavilion in this location with proper amenities will be a popular rental option.

### **27. Tennis and Pickleball Courts**

The tennis courts were installed in 1995; low spots and significant cracking exists. Maintenance has been performed with crack fill and surface coating, but the courts will be in need of complete replacement. Tennis remains very popular in Northville, with a robust lesson program in spring/summer/fall. Pickleball has also grown in popularity; we have a full schedule of open activity times for pickleball at our indoor facilities. However we continue to get requests for outdoor courts. It is recommended to convert one of the courts to pickleball, which will accommodate 4 courts. There are no outdoor pickleball courts in our park system, or in the immediate area.

## **Buildings and Property Maintenance**

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### **28. Replace Public Safety Headquarters Boiler Equipment and Piping**

Proper environmental conditions need to be met within the facility during hot and cold weather. In order to maintain current service levels and upkeep of Township property, boiler equipment will need to be replaced. Per the assessment done by On-Site Insight, boiler equipment and related piping and valves will be replaced at Public Safety Headquarters.

### **29. Replace Public Safety Headquarters Concrete Floor**

The concrete floor in the apparatus bay at Public Safety Headquarters has been identified as a safety hazard and in need of repair. By replacing the concrete floor, the facility will be maintained in a manner, which mitigates risk to employees and the public.

### **30. Replace Storage Shelving in Records and Property Rooms**

The mobile storage shelving system for the property room and records room would allow for increased storage capacity and consolidation of the property room without making changes to existing structure of the building. The mobile shelves would allow Commission on Accreditation for Law Enforcement

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- Agencies (CALEA) accreditation standards to be met through a secondary locking mechanism directly on the end shelf.
- 31. Replace Public Safety Headquarters Doors and Windows**  
Windows and exterior glass doors on the original construction of Public Safety Headquarter facility. The windows appear to be original with cracked seals and poor insulation. The doors have rusted at the bottom causing visible openings to the elements. Proper environmental conditions need to be met within the facility during hot and cold weather.
  - 32. Replace Fire Station Asphalt Parking Lot**  
The On-Site Insight assessment recommends the replacement of the employee parking lot at Fire Station. The parking lot paving was originally completed in 2003. The parking lot is showing significant deterioration and should be replaced at this time. Failure to fund this item will result in the continued degradation of the building exterior appearance and may lead to an unsafe condition.
  - 33. Repair Fire Station Hose Tower Roof**  
This repair is necessary to maintain the Fire Station and prevent further damage. There is a leak in the roof of the hose tower at the Fire Station which has resulted in structural corrosion to the roof members and other water damage. It is recommended to have this roof repaired as soon as possible to prevent further damage.
  - 34. Removal and Concrete Fill of Fire Station Exhaust System**  
Removing the old exhaust system is necessary to maintain the facility and eliminate the current trip hazard. The now obsolete vehicle exhaust removal system was installed when Fire Department Headquarters Building was first constructed. The system is a floor mounted system that has been out of service and obsolete since 2011. The track system is rusting, heaving, and causing a trip hazard. Removing the tracks and filling those spaces in with concrete will be the most cost effective solution to eliminating those hazards.
  - 35. Refurbish Fire Station Apparatus Bay Floors**  
The coating on the apparatus bay floor is chipping and peeling. The coating has reached the end of its expected life and the floor needs to be resurfaced. The floor will be resurfaced with a chemical resistant anti-slip topcoat for safety and extended wear.
  - 36. Replace Floor Covering / Furniture and Paint in Township Hall**  
The current floor covering and painting was completed in 2003 with the original construction of the building. Replacement of the carpet flooring, painting, and furniture is recommended.
  - 37. Public Safety Headquarters / Jail Cell Renovation**  
The facility was constructed in 1979, with an addition built in 2004. The original facility includes the Police Department's holding facility, apparatus bay,

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server room, training room, and office space. The holding facility requires renovations and modifications to address industry standards. Infrastructure throughout the facility requires evaluation to be compliant with standards and to support the sustainability of the facility. This project would be a two-step process having the facility evaluated by a consultant and presenting recommendations for completed renovations.

**38. Replace Public Safety Headquarters Emergency Generator**

Per the On-Site Insight report, replacement of the emergency generator at Public Safety Headquarters is recommended. The equipment has reached the end of its useful life.

**39. Replace Fire Station Boiler Equipment and Piping**

Proper environmental conditions need to be met within the facility during hot and cold weather conditions. In order to maintain current service levels and upkeep of Township property, boiler equipment will need to be replaced. Per the assessment done by On-Site Insight, boiler equipment and related piping and valves will be replaced at Fire Station. The current boiler is original to the construction of the Fire Station in 2003 and they typically have a service life of 20 years. Boiler failure could lead to frozen pipes and unsafe conditions in the Fire Station.

**40. Replace Fire Station Air Conditioning Equipment**

Proper environmental conditions need to be met within the facility during hot weather. In order to maintain current service levels and upkeep of Township property, air conditioning units will need to be replaced. Per the assessment done by On-Site Insight, air conditioner units exhaust fans, and makeup handlers will be replaced at Fire Station.

**41. Replace Township Hall Parking Lot Lighting with LED Fixtures**

Replacement of parking lot lighting with LED fixtures at Township Hall per the On-Site Insight report dated 2015. The current lighting was completed when the building was first constructed in 2003. Ideally, this work would bid during the winter for spring / summer completion. This request would align with the organizational goal of maintaining the Township's facilities in the condition expected by the Township Board and the Northville Township Residents. This request would further align with the organization's commitment to providing an adequate, safe, clean, and properly maintained facility.

**42. Replace Public Safety Headquarters Parking Lot Lighting with LED Fixtures**

Replacement of parking lot lighting with LED fixtures at the Public Safety Headquarters per the On-Site Insight report dated 2015. This request would align with the organizational goal of maintaining the Township's facilities in the condition expected by the Township Board and the Northville Township residents. This request would further align with the organizations commitment to providing an adequate, safe, clean, and properly maintained facility. Failure to fund this item will result in the continued degradation of the building's

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exterior appearance and may lead to an unsafe environment. In addition, LED lights are cheaper to operate and maintain.

### **43. Replace Fire Station Roof Coverings**

The On-Site Insight inspection in 2015 suggested the roof coverings should be replaced as early as 2022. Some repairs were undertaken in 2020, which added useful life to the current roof. This project includes replacing the Fire Station roof coverings as recommended in the capital needs assessment and replacement reserve analysis. The roof has an estimated useful life of twenty years.

### **44. Replace Existing Generator and Wiring System**

The existing Water & Sewer Building generator has reached the end of its useful life per the On-Site Insight report. To maintain current service levels, replacement is recommended. This project would replace the existing generator and circuitry for the Water & Sewer Building.

### **45. Public Services / Parks and Recreation Facility Project**

The Department of Public Works / Parks and Recreation facility consists of two buildings; the main office and support building is a single story brick masonry structure, the second building is a metal maintenance and equipment storage shed. The main building houses the DPW / Parks offices, testing facility, storage areas, and a garage space. Both structures were erected approximately 26 years ago. Interior renovations to the main building are necessary to house both Parks and DPW operations as well as upgrading a number of systems and components, which have exceeded their useful lives.

### **46. Replace Township Hall Boiler Room Piping Equipment**

Proper environmental conditions need to be met within the facility during hot and cold weather. In order to maintain current service levels and upkeep of Township property, boiler equipment will need to be replaced. Boiler room piping, variable frequency drive water pumps and related equipment will be replaced at Township Hall.

### **47. Replace Township Hall Air Conditioning Equipment**

The Township Hall Building was constructed in 2003 and new rooftop units were installed at that time. On-Site Insight completed an inspection in 2015 and suggested that these units should be replaced in 2022-2024. These air conditioning units typically have a life span of 20 years. Proper environmental conditions need to be met within the facility during hot weather.

### **48. Replace Public Safety Headquarters Boiler Equipment and Piping**

Proper environmental conditions need to be met within the facility during hot and cold weather. In order to maintain current service levels and upkeep of Township property, boiler equipment will need to be replaced. Per the assessment done by On-Site Insight, boiler equipment and related piping and valves will be replaced at Public Safety Headquarters.

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### **49. Replace Fire Station Apparatus Bay Doors**

The On-Site Insight report recommends the replacement of the apparatus bay doors and openers at the Fire Station. This replacement will help to maintain current service levels and maintain Township property.

### **50. Replace Township Hall Roof Coverings**

The Township Hall Building was constructed in 2003. On-Site Insight completed an inspection in 2015 and suggested the roof coverings should be replaced as early as 2022. A roof inspection in 2020 recommended some repairs, which were undertaken. These repairs gave some added life to the roof. Failure to fund the request could result in roof leaks that cause further deterioration of the building structure and equipment and could over time cause the building to be uninhabitable.

### **51. Replace Public Safety Headquarters Roof on Building Addition**

Replacement of the roof will prevent leaks, which affect the service levels within the facility. This project was identified in the On-Site Insight Capital Needs Assessment.

### **52. Replace Fire Station Water Heater in Boiler Room**

This project includes the replacement of the PVI water heater in the Fire Station boiler room. This unit is reaching the end of its service life and was recommended to be replaced by our building maintenance as well as in the On-Site Insight Capital Needs Assessment.

### **53. Remove and Replace Asphalt Parking Area**

The Water & Sewer parking lot has reached the end of its useful life as determined by the On-Site Insight report. In order to maintain current service levels, replacement is recommended. This project would include the removal and replacement of the asphalt parking lot by milling and resurfacing area.

### **54. Replace Township Hall Air Conditioning Rooftop Units**

Proper environmental conditions need to be met within the facility during hot weather. In accordance with the On-site Insight Assessment and in order to maintain current service levels and upkeep of Township property, the remaining air conditioning units, condensers and exhaust fans need to be replaced. This project would replace air conditioning units, condenser units, exhaust fans and roof top units in Township Hall.

### **55. Paint Interior of Public Safety Headquarters Building**

Paint the interior of Public Safety Headquarters per the On-Site Insight report dated 2015. Ideally, this work would bid during the winter for spring / summer completion. This request would align with the organizational goal of maintaining the Township's facilities in the condition expected by the Township Board and the Northville Township residents. This request would further align with the organizations commitment to providing an adequate, clean, and properly maintained facility. Failure to fund this item will result in the continued

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degradation of the building's interior appearance.

## **56. Fire Station #2 Construction**

Architectural and engineering services required to initiate construction of a second fire station within the Township. A second station is necessary to improve response times to the northeast area of the community. Currently the road system and travel distances do not allow easy or timely access to a part of the community. There are also operational issues which will be addressed.

## **Technology**

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### **57. Communication Website Replacement**

In the past, the main goal of the Northville Township website has been to communicate information to the Township's residents. In alignment with the Township's goals to connect, engage, and serve the community in an efficient way the Township needs an online platform, which not only pushes communications to our residents, but also allows them to interact and engage. This new platform would be another step toward an increased virtual Township Hall presence, which could potentially reduce the need for in person visitor traffic to all Township buildings. This project will require an ongoing annual hosting fee, which will include all upgrades to the content management software program.

### **58. Audio Recorder / Log with Integrated QA Module**

The dispatch recording system is designed to record all communications through dispatch consoles. The current NICE Inform server is reaching end of life and is not compatible with all of the upcoming recording requirements like text-to-911. The new replacement system will need to log and synchronize 911 calls, including digital, analog, and VoIP calls, conventional and P25 radio transmissions, text-to-911 interactions, video, images, console screens, locations from geographic information systems (GIS), and integrated feeds from other sources such as CCTV video. The new recording system will be in alignment with the multiple next generation 911 (NG911) dispatch upgrades that have been coordinated over the past few years with Conference of Western Wayne (CWW).

### **59. Fiber Network Project**

This project opens the door to allow increased digital communications between buildings and opens opportunities for the Township to take advantage of local and regional resources available from community partners and Wayne and Oakland County. The Township is currently utilizing a leased fiber connection from AT&T. This utilization of the current connection is starting to reach its capacity and is approaching the need to increase bandwidth. The ability to increase the current bandwidth is available but comes at an increased cost. This project would eliminate the need to lease fiber moving forward, which has a project payback timeline of about three years. Owning private fiber will require maintenance and leasing agreements for space on

## **Northville Township, Michigan 2021-2026 Capital Improvement Plan**

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the utility poles on which the new private fiber lines will reside. This would build a private network connecting the Public Safety Headquarters, Township Hall, and the Fire Department Building along with an additional connection to the Northville Public High School building. This project will include running just over two miles of fiber optic cable that would become the Township's primary site-to-site network connection.

### **60. Upgrade Audio System in Community Room**

The Community Room at Township Hall is the main meeting location for Township Boards and Commissions to meet with the public. This project would complete the original AV upgrade plan requested by the Township Board of Trustees, which started in 2018 by upgrading the visual technology. To upgrade the entire Audio system in the council chambers so the audience can hear the council members and administrative staff using the community room microphones. Upgrading the technology from an outdated audio system to a current digital audio system that will improve sound quality levels. New digital systems include features like noise and echo cancellation. Along with the upgrade in backend audio equipment, this project would also include new microphones and speakers.

### **61. Mobile Data Computers**

Purchase Dell Latitude rugged Mobile Data Computers with mounting accessories to replace and upgrade the police fleet. Current mobiles are approaching end of life and support. Mobiles are required to be replaced with current and supported models within the next few years. Current Mobile Data Computers are approaching end of life (5-6 years). This upgrade will provide safe, effective, and clear communication between dispatch and officers while proactively patrolling or responding to police calls for service.

### **62. Police Cameras Server and In-Car Cameras**

The police cameras server and in-car camera replacement project will provide a consistent and HD quality recording video for all police patrol vehicles. The current system consists of multiple different models of Flashback recording cameras that record to a camera server that is reaching end of life and requiring increased maintenance to operate. These cameras record traffic stop and interactions between Officers and the public. The newer system allows for increased features like 360-degree camera coverage and the ability to increase the amount of cameras and storage is needed. In-car cameras are essential to record public safety interactions in an effort to reduce liability, enhance police officer safety, increase transparency, and provide video that can be used for officer training.

### **63. Physical Server and Network Access Storage Replacement**

This project would include the purchase of two redundant servers and backup storage devices to continue providing the current server environment, which includes maintaining reliable disaster recovery, server health monitoring, and implementing site replication. This would include two physical servers and two storage area network (SAN) devices. An updated physical server environment

## Northville Township, Michigan 2021-2026 Capital Improvement Plan

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allows for fast and a more reliable virtual server that would run Township applications across all Township departments.

### **64. Replace Election Laptops (15)**

The existing laptops were replaced in 2019 and will be near the end of their useful life by 2024. They will not have the updated capabilities to be compatible with current programming. The IT Department will be consulted and provide guidance on the specifications needed to work with the election equipment and establish an estimate of costs to replace all fifteen laptops. Updated laptops are necessary to the successful conduct of future Federal, State, Township, and School elections beginning in 2024. The existing laptops will be at or near end of their usefulness and they will not have the latest technology to be compatible with updated election programming and equipment.

## **Vehicles and Equipment**

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### **65. Replace Police Vehicles**

This proposal is to replace two patrol vehicles, one unmarked / investigative vehicle and the Police Chief's vehicle. The patrol vehicles will have exceeded their mileage limitations for safety standards. The unmarked / investigative vehicle was purchased in 2013 and has over 115,000 miles. The Police Chief's vehicle was purchased in 2015 and has over 100,000 miles. High mileage and high use vehicles are prone to breakdowns at inopportune times. Maintaining a reliable fleet provides the community with the confidence that they will receive a timely response when in need of police services.

### **66. Replace Clerks Department Multifunction Printer**

The existing copier is a Konica C554 and was purchased in 2015 and it is the copier that all desktop computers print to. It is frequently used for mass mailings of business licenses, voter registration letters, Board of Trustees agendas, minutes, resolutions, and other mass mailings. The condition of the copier is good, but the department is beginning to have breakdowns and service calls on the copier have increased. We expect it will need to be replaced or transferred to a department with less usage. The Clerks Department expects a replacement need following heavy usage during the 2020 presidential election year. Thousands of copies are made on the copier for election training manuals, precinct training manuals, precinct reports, and printing materials. Instructions are also copied and mailed to absentee voters and that will add another 4,000 to 6,000 copies. A replacement copier will be needed to keep up with the current and future workload and to produce a quality copy.

### **67. Election Voting Pods**

Voting pods for all 12 precincts are required. There are 44 total pods, which require replacement, due to cost savings these will be bought all together. Each voter pod allows four voters to vote simultaneously with privacy. These pods are more compact allowing the township to provide voters with more

## Northville Township, Michigan 2021-2026 Capital Improvement Plan

- voting space in each precinct and more efficient site set-up. They will also require less use of worker's time to erect at each election. Furthermore, present pods are disintegrating and falling apart, requiring more worker time at set up and tear down. The new pods will also take up less storage space once they are broken down. The new voter pods will provide township voters with a quicker, private voting experience with a more efficient set up and control by election supervisors. Under current election law, the Township must provide adequate election pods per voter percentage.
- 68. Water & Sewer 4x4 Vehicle – Superintendent**  
This is a replacement vehicle for the Water & Sewer Superintendent. It is used by the Superintendent to assure 24-hour access to operate the Township's Water & Sewer systems. Industry recommendations are that vehicles should be replaced at 100,000 miles or 10 years old. The seven-year-old vehicle has in excess of 100,000 miles and will be moved into the Finance Department for continued local service.
- 69. Water & Sewer Pick-Up Truck with Plow Attachment**  
Purchase new Ford Pickup Truck with snow plow attachment. This is a replacement vehicle for Water & Sewer Truck #100, which is used in winter to plow our parking lots and then used for maintenance in the summer.
- 70. Body Cameras**  
Purchase body worn complete camera systems (camera, docking station, power supply, alligator clip, magnetic clip, USB charging cable, and one-year warranty on all camera system components). The benefits of body worn cameras will enhance the transparency of the police and public interactions. To provide an accurate recap of police encounters, improve police community / relations, establish transparency, and improve the quality of evidence used in criminal cases, law enforcement agencies outfit officers with body worn cameras.
- 71. Ballistic Vests**  
The Police Department is contractually bound to supply bulletproof vests to the police officers. A grant exists through the Bulletproof Vest Partnership (BVP) in which the Office of Justice Program will pay up to 50% of the vests purchased for our officers. This grant has been applied for and has always been approved when the purchase of the vests is submitted. This purchase promotes a safe and secure community and our first responders who may be called upon to rapidly resolve high-risk incidents.
- 72. Dispatch Workstations and West/Viper Replacement**  
Public Safety Answering Points (PSAPs) need tools that ensure rapid and reliable communication with other emergency responders – fire safety personnel, law enforcement, ambulance and medical personnel – to help save lives. Keeping dispatching equipment current is essential to provide quality dispatch services. A new system will ensure the public safety call handling solutions will have the integrated intelligent workstation hardware and software needed to handle all

## Northville Township, Michigan 2021-2026 Capital Improvement Plan

- of the required dispatching capabilities in the future. Current dispatch workstations and West / Viper equipment will be reaching its seven-year useful life expectancy.
- 73. Replace 2015 Ford Expedition – Deputy Director of Fire Services’ Vehicle**  
The vehicle will serve as a utility vehicle and will be staffed by the Fire Chief. This vehicle will be used for daily details, emergencies, and on a limited basis will be deployed on non-emergency public service calls. The vehicle will be operated front line for five years and as a reserve utility vehicle for an additional five years. Cost includes vehicle markings, emergency lights and siren, radio installation, equipment storage systems, etc.
- 74. Replace Rescue 1 and Rescue 2 Ambulances**  
Fire vehicles Rescue 1 and Rescue 2 are approaching the end of reliable service life. Initially the department should realize a reduction in maintenance costs as the vehicles will be more reliable and also under warranty. Purchasing both together could secure better pricing. These ambulances are operated as front line trucks for five years and will be placed in reserve for an additional five years for a total of ten years of service.
- 75. Water & Sewer Pick-Up Truck with Plow Attachment**  
Purchase new Ford Pickup Truck with snowplow attachment. This is a replacement vehicle for the Water & Sewer, which is used in winter to plow our parking lots and then used for maintenance in the summer.
- 76. Water & Sewer Pick-Up Truck with Plow Attachment**  
Purchase new Ford Pickup Truck with snow plow attachment. This is a replacement vehicle for the Water & Sewer, which is used in winter to plow our parking lots and then used for maintenance in the summer.
- 77. Replace 2015 Ford Expedition - Command One**  
Vehicle is approaching the end of its reliable service life. Initially the Department should realize a reduction in maintenance costs as the vehicle will be more reliable and also under warranty. Cost includes vehicle markings, emergency lights and siren, radio installation, equipment storage systems, etc. This vehicle will serve as a command vehicle and will be staffed by a Command Officer (Battalion Chief). This vehicle will be used for daily details, emergencies and, on a limited basis, will be deployed on non-emergency public service calls. The vehicle will be operated front line for five years and then by the Fire Marshal for inspections and investigations for an additional five years.
- 78. Personal Protective Equipment**  
The Fire Department is contractually bound to supply fire fighter protective clothing (turnout gear) for all sworn Fire Department personnel. The turnout gear is essential to protect the fire fighters and allow them to properly perform their duties. The purchase is important at this time for the following reasons:

## Northville Township, Michigan 2021-2026 Capital Improvement Plan

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Federal Standards require personal protective gear be in compliance with the National Fire Protection Agency Standard 1971, current gear is reaching the end of its normal life cycle, gear must be fit to each fire fighter for proper safety, current gear can be used as emergency backup in the event the new turnout gear is in need of cleaning or repair, turnout gear is worn on virtually all incidents and during training, replacing every members' set is prudent for consistency and continuity as well as maintaining compliance with NFPA requirements.

**79. Replace SCBA**

SCBA will have reached the end of their expected service life. This is required equipment for firefighting and other hazardous environments. Requesting 30 complete air packs, 10 spare masks, and 30 replacement bottles.

**80. Water & Sewer Tandem Dump Truck**

This vehicle will be added to the fleet of vehicles and equipment to be available for water main repairs, which we anticipate to increase with the age of the system. This is a new piece of equipment, which will be needed to maintain current service levels and will require no additional staffing.

**81. Replace F-150 Utility Vehicle – Fire Services**

It is recommended this vehicle be replaced, as it will be over ten years old. This vehicle is used by suppression and administrative staff for emergency response, training, and additional details. The replacement of this vehicle is included in the ten-year vehicle replacement schedule.

**82. Replace Ladder Truck**

It is recommended to replace the Fire Department's 1999 ladder truck. This truck was refurbished in 2016 with the expectation of getting an additional ten years of service from the vehicle. In 2026 this vehicle will be 27 years old and should not be relied upon as a frontline emergency vehicle. This vehicle is necessary to provide fire protection to the community. This is a planned vehicle replacement and has been included in the ten year vehicle replacement schedule.

### Water Supply System

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**83. Annual Maintenance and Painting Township's Water Tower**

This project includes maintenance and recommended repairs to the Beck Road water tower. The water tower is a one million gallon spheroid structure that was constructed and placed into service in 2007. Recommended practice for maintaining a water tower suggest exterior painting every 10 years and re-coating the interior every 15 years. In 2017, Dixon Engineering performed a condition assessment of the water tower and recommended the exterior be painted in the next 3-5 years. This project aligns with the Water Asset Management Plan (WAMP), which was submitted to the MDEQ in 2018. In order to properly maintain this structure and ensure the maximum serviceable life,

## **Northville Township, Michigan 2021-2026 Capital Improvement Plan**

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standard maintenance items such as exterior painting and interior re-coating need to be performed. In late 2019, Northville Township contracted with Suez Incorporated to perform a detailed inspection of the water tower. Suez developed a detailed report and maintenance plan for the tower.

### **84. Design and Construct New Water Tower**

Design and construct a new tower or tank to service the Beck Road pressure district. A new tower will allow further reduction in the Township's peak hour, which will result in a reduced rate from GLWA. The reduced rate will allow a payback within three to five years. After that, Northville Township would see approximately \$1,000,000 savings per year in the revenue requirements from GLWA. Difference in budgeted amount in previous CIP due to a less detailed estimate at the time. In 2019 OHM was hired to perform a detailed engineering study of our water storage system requirements, and provided their technical memo in October 2019. The cost increase considered many factors that the initial simplified ratio method did not consider. Construction and material cost increases were factored in. Additionally, many in-system, automated control valves, and necessary water main extensions and connections were added to the cost. These detailed intricacies were not considered, nor known, at the time of the initial estimate in 2018.

### **85. Abandon and Line Portion of Water Main**

This project entails abandoning the 12 inch water main that runs along the Johnson Creek south of Pickford Street which was part of the old City of Plymouth well head system. The water main is over sixty years old and needs to be taken out of service. A new water main has been installed along the road frontage for the homes to connect. Due to age, this water main would be very costly to fix and it is at the end of its useful life. This project will contribute to reduced operating costs.

### **86. Non-Invasive Inspection of 16" Water Main along 5 Mile and Beck Rd**

This project includes completing a non-invasive inspection of the 16 inch water main along the north side of Five Mile Road to Beck Road and along Beck Road to Brandywine Blvd. This will assist to assure the proper maintenance of the township water system and verify the condition. This water main supplies the elevated tank and is close to seventy years old. This inspection will assure continued and proper operation of the elevated tank district.

## **Sanitary Sewer Capital Improvements**

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### **87. Sanitary Sewer Line Improvements Identified in SAW Grant**

The sanitary sewer system must be properly maintained in order to operate properly which is a public health issue. Lining, grouting, and repairing various segments of the sanitary sewer system as identified in the SAW Grant CIP for the Township. This will aid in assuring the proper maintenance and replacement of the Township's sanitary sewer system.

# Northville Township, Michigan 2021-2026 Capital Improvement Plan

| FY 2021-2026 Six Year Capital Improvement Plan                                   |  |                   |                     |                   |                   |                   |                   |
|--|--|-------------------|---------------------|-------------------|-------------------|-------------------|-------------------|
| Project Descriptions   | Capital Outlay Requests                              |                   |                     |                   |                   |                   |                   |
| PATHWAYS AND NON-MOTORIZED IMPROVEMENTS  | POTENTIAL FUNDING SOURCE/NOTES                       | 2021              | 2022                | 2023              | 2024              | 2025              | 2026              |
| 10' wide non-motorized pathway along Seven Mile Road                             | Project depends on grant funding approval.           | \$ -              | \$ 1,000,000        | \$ -              | \$ -              | \$ -              | \$ -              |
| 5' wide non-motorized pathway (6 Mile Road, east of Beck)                        | Project depends on funding source becoming available | -                 | -                   | 34,000            | -                 | -                 | -                 |
| 5' wide non-motorized pathway (6 Mile Road, west of Beck)                        | Project depends on funding source becoming available | -                 | -                   | 20,700            | -                 | -                 | -                 |
| 10' wide non-motorized pathway (Ridge Road)                                      | Project depends on funding source becoming available | -                 | -                   | -                 | 123,000           | -                 | -                 |
| 10' wide non-motorized pathway (Bradner Road)                                    | Project depends on funding source becoming available | -                 | -                   | -                 | -                 | 172,000           | -                 |
| 5' wide non-motorized pathway (Silver Springs Drive, between 7 and 8 Mile Roads) | Project depends on funding source becoming available | -                 | -                   | -                 | -                 | -                 | 71,500            |
| 10' wide non-motorized pathway (8 Mile Road)                                     | Project depends on funding source becoming available | -                 | -                   | -                 | -                 | -                 | 183,500           |
| <b>PATHWAYS AND NON-MOTORIZED IMPROVEMENTS</b>                                   | <b>Total</b>   | <b>\$ -</b>       | <b>\$ 1,000,000</b> | <b>\$ 54,700</b>  | <b>\$ 123,000</b> | <b>\$ 172,000</b> | <b>\$ 255,000</b> |
| MARV GANS COMMUNITY PARK CAPITAL IMPROVEMENTS                                    | POTENTIAL FUNDING SOURCE/NOTES                       | 2021              | 2022                | 2023              | 2024              | 2025              | 2026              |
| Replace Park Equipment   | Park Millage   | \$ 25,000         | \$ -                | \$ 25,000         | \$ -              | \$ 25,000         | \$ -              |
| Dugout Roofs   | Park Millage   | 60,000            | -                   | -                 | -                 | -                 | -                 |
| Replace 3 Sideline Fencing   | Park Millage   | 62,000            | -                   | -                 | -                 | -                 | -                 |
| 2 Soccer Field Renovation - Drainage   | Park Millage   | -                 | 35,000              | -                 | -                 | 39,000            | -                 |
| Replace Play Structure   | Park Millage   | -                 | -                   | 120,000           | -                 | -                 | -                 |
| Parking Lot (east) mill and resurface  | Park Millage   | -                 | -                   | -                 | 450,000           | -                 | -                 |
| Rewire Irrigation System and Components  | Park Millage   | -                 | -                   | -                 | -                 | 30,000            | -                 |
| <b>MARV GANS COMMUNITY PARK</b>  | <b>Total</b>   | <b>\$ 147,000</b> | <b>\$ 35,000</b>    | <b>\$ 145,000</b> | <b>\$ 450,000</b> | <b>\$ 94,000</b>  | <b>\$ -</b>       |
| MILLENNIUM PARK CAPITAL IMPROVEMENTS   | POTENTIAL FUNDING SOURCE/NOTES                       | 2021              | 2022                | 2023              | 2024              | 2025              | 2026              |
| Renovate Restrooms (2)   | Park Millage   | \$ 40,000         | \$ -                | \$ -              | \$ -              | \$ -              | \$ -              |
| Dugout Roofs   | Park Millage   | 72,000            | -                   | -                 | -                 | -                 | 88,000            |
| Soccer Field Renovation - Drainage   | Park Millage   | -                 | 35,000              | -                 | -                 | -                 | 41,000            |
| Replace 2 Boardwalks / Bridges   | Park Millage   | -                 | -                   | 30,000            | -                 | -                 | -                 |
| <b>MILLENNIUM PARK</b>   | <b>Total</b>   | <b>\$ 112,000</b> | <b>\$ 35,000</b>    | <b>\$ 30,000</b>  | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ 129,000</b> |
| HENNINGSEN PARK CAPITAL IMPROVEMENTS   | POTENTIAL FUNDING SOURCE/NOTES                       | 2021              | 2022                | 2023              | 2024              | 2025              | 2026              |
| Replace 2 Sideline Fencing (higher)  | Park Millage   | \$ -              | \$ 18,000           | \$ -              | \$ -              | \$ -              | \$ -              |
| <b>HENNINGSEN PARK</b>   | <b>Total</b>   | <b>\$ -</b>       | <b>\$ 18,000</b>    | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       |
| SHELDON ROAD PARK  | POTENTIAL FUNDING SOURCE/NOTES                       | 2021              | 2022                | 2023              | 2024              | 2025              | 2026              |
| Replace Play Structure   | Park Millage   | \$ -              | \$ -                | \$ -              | \$ -              | \$ 75,000         | \$ -              |
| <b>SHELDON ROAD PARK</b>   | <b>Total</b>   | <b>\$ -</b>       | <b>\$ -</b>         | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ 75,000</b>  | <b>\$ -</b>       |
| COLDWATER SPRINGS  | POTENTIAL FUNDING SOURCE/NOTES                       | 2021              | 2022                | 2023              | 2024              | 2025              | 2026              |
| Parking Lot Mill & Resurface   | Park Millage   | \$ -              | \$ -                | \$ -              | \$ -              | \$ -              | \$ 40,000         |
| <b>COLDWATER SPRINGS</b>   | <b>Total</b>   | <b>\$ -</b>       | <b>\$ -</b>         | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ 40,000</b>  |

# Northville Township, Michigan 2021-2026 Capital Improvement Plan

| <b>BENNETT ARBORETUM PATHWAY</b>                                       | <b>POTENTIAL FUNDING SOURCE/NOTES</b>                | <b>2021</b>      | <b>2022</b>      | <b>2023</b>      | <b>2024</b> | <b>2025</b>      | <b>2026</b>       |
|--|--|------------------|------------------|------------------|-------------|------------------|-------------------|
| Boardwalk Replacement/Repair   | Park Millage   | \$ -             | \$ -             | \$ -             | \$ -        | \$ 45,000        | \$ -              |
| <b>BENNETT ARBORETUM PATHWAY</b>                                       | <b>Total</b>   | <b>\$ -</b>      | <b>\$ -</b>      | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ 45,000</b> | <b>\$ -</b>       |
| <b>FISH HATCHERY PARK</b>  | <b>POTENTIAL FUNDING SOURCE/NOTES</b>                | <b>2021</b>      | <b>2022</b>      | <b>2023</b>      | <b>2024</b> | <b>2025</b>      | <b>2026</b>       |
| Parking Lot Paving and Striping  | Park Millage   | \$ 60,000        | \$ -             | \$ -             | \$ -        | \$ -             | \$ -              |
| Baseball Backstop and Sideline Fencing                                 | Park Millage   | -                | 24,000           | -                | -           | -                | -                 |
| Play Structure   | Park Millage   | -                | -                | 37,500           | -           | -                | -                 |
| Pavilion   | Park Millage   | -                | -                | -                | -           | 30,000           | -                 |
| Tennis and Pickleball Courts   | Park Millage   | -                | -                | -                | -           | -                | 110,000           |
| <b>FISH HATCHERY PARK</b>  | <b>Total</b>   | <b>\$ 60,000</b> | <b>\$ 24,000</b> | <b>\$ 37,500</b> | <b>\$ -</b> | <b>\$ 30,000</b> | <b>\$ 110,000</b> |
| <b>BUILDINGS AND PROPERTY IMPROVEMENTS</b>                             | <b>POTENTIAL FUNDING SOURCE/NOTES</b>                | <b>2021</b>      | <b>2022</b>      | <b>2023</b>      | <b>2024</b> | <b>2025</b>      | <b>2026</b>       |
| Replace Public Safety Headquarters Boiler Equipment and Piping         | Public Safety Fund                                   | \$ 55,100        | \$ -             | \$ -             | \$ -        | \$ -             | \$ -              |
| Replace Public Safety Headquarters Concrete Floor                      | Public Safety Fund                                   | 50,000           | -                | -                | -           | -                | -                 |
| Replace Storage Shelving in Records and Property Rooms                 | Public Safety Fund                                   | 60,000           | -                | -                | -           | -                | -                 |
| Replace Public Safety Headquarters Door and Windows                    | Public Safety Fund                                   | 75,000           | -                | -                | -           | -                | -                 |
| Replace Fire Station Asphalt Parking Lot                               | Public Safety Fund                                   | 30,000           | -                | -                | -           | -                | -                 |
| Repair Fire Station Hose Tower Roof                                    | Public Safety Fund                                   | 36,000           | -                | -                | -           | -                | -                 |
| Fire Station Exhaust System Removal and Concrete Fill                  | Public Safety Fund                                   | 45,000           | -                | -                | -           | -                | -                 |
| Resurface Fire Station Apparatus Bay Floors                            | Public Safety Fund                                   | 50,000           | -                | -                | -           | -                | -                 |
| Replace Floor Covering/Furniture & Paint Township Hall                 | Capital Projects Fund                                | -                | 400,000          | -                | -           | -                | -                 |
| Public Safety Headquarters/Jail Cell Renovation Project                | Project depends on funding source becoming available | -                | 1,900,000        | -                | -           | -                | -                 |
| Replace Public Safety Headquarters Emergency Generator                 | Public Safety Fund                                   | -                | 70,000           | -                | -           | -                | -                 |
| Replace Fire Station Boiler Equipment and Piping                       | Public Safety Fund                                   | -                | 40,000           | -                | -           | -                | -                 |
| Replace Fire Station Air Conditioning Equipment                        | Public Safety Fund                                   | -                | 40,000           | -                | -           | -                | -                 |
| Replace Township Hall Parking Lot Lighting w/ LED fixtures             | Capital Projects Fund                                | -                | -                | 30,000           | -           | -                | -                 |
| Replace Public Safety Headquarters Parking Lot Lighting w/LED fixtures | Public Safety Fund                                   | -                | -                | 40,000           | -           | -                | -                 |
| Replace Fire Station Roof Coverings                                    | Public Safety Fund                                   | -                | -                | 210,000          | -           | -                | -                 |
| Replace Existing Generator and Wiring System                           | Water & Sewer Fund                                   | -                | -                | 25,000           | -           | -                | -                 |
| Public Services/Parks and Recreation Facility Project                  | Park Millage/Capital Projects Fund                   | -                | -                | 600,000          | -           | -                | -                 |
| Replace Township Hall Boiler Room Piping Equipment                     | Capital Projects Fund                                | -                | -                | -                | 50,000      | -                | -                 |
| Replace Township Hall Air Conditioning Equipment                       | Capital Projects Fund                                | -                | -                | -                | 130,000     | -                | -                 |
| Replace Public Safety Headquarters Boiler Equipment and Piping         | Public Safety Fund                                   | -                | -                | -                | 40,000      | -                | -                 |
| Replace Fire Station Apparatus Bay Doors                               | Public Safety Fund                                   | -                | -                | -                | 45,000      | -                | 30,000            |
| Replace Township Hall Roof Coverings                                   | Capital Projects Fund                                | -                | -                | -                | -           | 210,000          | -                 |
| Replace Public Safety Headquarters Roof on Building Addition           | Public Safety Fund                                   | -                | -                | -                | -           | 135,000          | -                 |
| Replace Fire Station Water Heater in Boiler Room                       | Public Safety Fund                                   | -                | -                | -                | -           | 45,000           | -                 |

# Northville Township, Michigan 2021-2026 Capital Improvement Plan

|  |  |                   |                     |                     |                   |                   |                    |
|--|--|-------------------|---------------------|---------------------|-------------------|-------------------|--------------------|
| Remove and Replace Asphalt Parking Area                              | Water & Sewer Fund                                   | \$ -              | \$ -                | \$ -                | \$ -              | \$ 31,000         | \$ -               |
| Replace Township Hall Air Conditioning Rooftop Units                 | Capital Projects Fund                                | -                 | -                   | -                   | -                 | -                 | 60,000             |
| Paint Interior of Public Safety Headquarters Building                | Public Safety Fund                                   | -                 | -                   | -                   | -                 | -                 | 45,000             |
| New Fire Station (serve northeast area of the community)             | Project depends on funding source becoming available | -                 | -                   | -                   | -                 | -                 | 7,000,000          |
| <b>BUILDINGS AND PROPERTY IMPROVEMENTS</b>                           | <b>Total</b>   | <b>\$ 401,100</b> | <b>\$ 2,450,000</b> | <b>\$ 905,000</b>   | <b>\$ 265,000</b> | <b>\$ 421,000</b> | <b>\$7,135,000</b> |
| <b>TECHNOLOGY</b>  | <b>POTENTIAL FUNDING SOURCE/NOTES</b>                | <b>2021</b>       | <b>2022</b>         | <b>2023</b>         | <b>2024</b>       | <b>2025</b>       | <b>2026</b>        |
| Communication Website Replacement                                    | General Fund   | \$ 40,000         | \$ -                | \$ -                | \$ -              | \$ -              | \$ -               |
| Audio Recorder/Log with Integrated QA Module                         | Public Safety Fund                                   | 60,000            | -                   | -                   | -                 | -                 | -                  |
| Fiber Network Project  | Capital Projects Fund                                | 175,000           | -                   | -                   | -                 | -                 | -                  |
| Upgrade Audio System in Community Room                               | Capital Projects Fund                                | -                 | 60,000              | -                   | -                 | -                 | -                  |
| Mobile Data Computers - Police                                       | Public Safety Fund                                   | -                 | 50,000              | -                   | -                 | -                 | -                  |
| Police Camera Server and In-Car Camera Replacement                   | Public Safety Fund                                   | -                 | 50,000              | -                   | -                 | -                 | -                  |
| Physical Server and Network Access Storage Replacement               | General/Public Safety/Water&Sewer Funds              | -                 | -                   | 90,000              | -                 | -                 | -                  |
| Replace 15 Election Laptops  | General Fund   | -                 | -                   | -                   | 18,000            | -                 | -                  |
| <b>TECHNOLOGY</b>  | <b>Total</b>   | <b>\$ 275,000</b> | <b>\$ 160,000</b>   | <b>\$ 90,000</b>    | <b>\$ 18,000</b>  | <b>\$ -</b>       | <b>\$ -</b>        |
| <b>VEHICLES AND EQUIPMENT</b>  | <b>POTENTIAL FUNDING SOURCE/NOTES</b>                | <b>2021</b>       | <b>2022</b>         | <b>2023</b>         | <b>2024</b>       | <b>2025</b>       | <b>2026</b>        |
| Replace four patrol vehicles   | Public Safety Fund                                   | \$ 220,000        | \$ 220,000          | \$ 240,000          | \$ 240,000        | \$ 240,000        | \$ 240,000         |
| Replace Clerks Department Multifunction Printer                      | General Fund   | 15,000            | -                   | -                   | -                 | -                 | -                  |
| Election Voting Pods   | General Fund   | 40,000            | -                   | -                   | -                 | -                 | -                  |
| Water & Sewer 4x4 vehicle - Superintendent                           | Water & Sewer Fund                                   | 33,000            | -                   | -                   | -                 | -                 | -                  |
| Ford Pickup 4x4 with Plow Attachment                                 | Water & Sewer Fund                                   | 40,000            | -                   | -                   | -                 | -                 | -                  |
| Body Cameras   | Public Safety Fund/Drug Forfeiture Funds             | 200,000           | -                   | -                   | -                 | -                 | -                  |
| Ballistic Vests  | Public Safety Fund / Grant                           | -                 | 25,000              | -                   | -                 | -                 | -                  |
| Dispatch Workstations and West/Viper Replacement                     | Public Safety Fund                                   | -                 | -                   | 300,000             | -                 | -                 | -                  |
| Replace 2019 Ford Expedition (Deputy Director of Fire Services)      | Public Safety Fund                                   | -                 | -                   | 50,700              | -                 | -                 | -                  |
| Replace Rescue 1 and Rescue 2 Ambulances                             | Public Safety Fund                                   | -                 | -                   | 545,000             | -                 | -                 | -                  |
| Ford Pickup 4x4 with Plow Attachment                                 | Water & Sewer Fund                                   | -                 | -                   | 40,000              | -                 | -                 | -                  |
| Ford Pickup 4x4 with Plow Attachment                                 | Water & Sewer Fund                                   | -                 | -                   | -                   | 40,000            | -                 | -                  |
| Replace 2015 Ford Expedition (Command One) - Fire Services           | Public Safety Fund                                   | -                 | -                   | -                   | -                 | 80,600            | -                  |
| Replace Turnout Gear (Personal Protective Equipment) - Fire Services | Public Safety Fund                                   | -                 | -                   | -                   | -                 | 96,300            | -                  |
| Replace Self Contained Breathing Apparatus                           | Public Safety Fund                                   | -                 | -                   | -                   | -                 | 383,800           | -                  |
| Water & Sewer Tandem Dump Truck                                      | Water & Sewer Fund                                   | -                 | -                   | -                   | -                 | 100,000           | -                  |
| Replace F-150 Utility Vehicle - Fire Services                        | Public Safety Fund                                   | -                 | -                   | -                   | -                 | -                 | 60,900             |
| Replace Ladder Truck   | Public Safety Fund                                   | -                 | -                   | -                   | -                 | -                 | 1,721,800          |
| <b>VEHICLES AND EQUIPMENT</b>  | <b>Total</b>   | <b>\$ 548,000</b> | <b>\$ 245,000</b>   | <b>\$ 1,175,700</b> | <b>\$ 280,000</b> | <b>\$ 900,700</b> | <b>\$2,022,700</b> |

## Northville Township, Michigan 2021-2026 Capital Improvement Plan

| WATER SUPPLY SYSTEM  | POTENTIAL<br>FUNDING SOURCE/NOTES | 2021                | 2022                | 2023                | 2024                | 2025               | 2026               |
|--|-----------------------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|
| Elevated Water Tank Capital Maintenance                              | Water & Sewer Fund                | \$ 80,000           | \$ 80,000           | \$ 80,000           | \$ 80,000           | \$ 80,000          | \$ 35,000          |
| Design & Construct New Water Tower - Beck Road Pressure District     | Water & Sewer Fund                | 175,000             | 4,500,000           | -                   | -                   | -                  | -                  |
| Abandon and Line Portion of Old Plymouth City Water Main             | Water & Sewer Fund                | -                   | -                   | 100,000             | -                   | -                  | -                  |
| Non-Invasive Inspection of 16" Water Main along S Millie and Beck Rd | Water & Sewer Fund                | -                   | -                   | -                   | -                   | 100,000            | -                  |
| <b>WATER SUPPLY SYSTEM</b>   | <b>Total</b>                      | <b>\$ 255,000</b>   | <b>\$ 4,580,000</b> | <b>\$ 180,000</b>   | <b>\$ 80,000</b>    | <b>\$ 180,000</b>  | <b>\$ 35,000</b>   |
| SANITARY SEWER   | POTENTIAL<br>FUNDING SOURCE/NOTES | 2021                | 2022                | 2023                | 2024                | 2025               | 2026               |
| Sanitary Sewer Line Improvements Identified in SAW Grant             | Water & Sewer Fund                | \$ 260,000          | \$ 215,000          | \$ 210,000          | \$ 390,000          | \$ 52,000          | \$ -               |
| <b>SANITARY SEWER</b>  | <b>Total</b>                      | <b>\$ 260,000</b>   | <b>\$ 215,000</b>   | <b>\$ 210,000</b>   | <b>\$ 390,000</b>   | <b>\$ 52,000</b>   | <b>\$ -</b>        |
| <b>Grand Total</b>   |                                   | <b>\$ 2,058,100</b> | <b>\$ 8,762,000</b> | <b>\$ 2,827,900</b> | <b>\$ 1,606,000</b> | <b>\$1,969,700</b> | <b>\$9,726,700</b> |

# Northville Township, Michigan 2021-2026 Capital Improvement Plan

| WATER SUPPLY SYSTEM  | POTENTIAL FUNDING SOURCE/NOTES | 2021                | 2022                | 2023                | 2024                | 2025                | 2026                |
|--|--------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Elevated Water Tank Capital Maintenance                            | Water & Sewer Fund             | \$ 80,000           | \$ 80,000           | \$ 80,000           | \$ 80,000           | \$ 80,000           | \$ 35,000           |
| Design & Construct New Water Tower - Beck Road Pressure District   | Water & Sewer Fund             | 175,000             | 4,500,000           | -                   | -                   | -                   | -                   |
| Abandon and Line Portion of Old Plymouth City Water Main           | Water & Sewer Fund             | -                   | -                   | 100,000             | -                   | -                   | -                   |
| Non-Invasive Inspection of 16" Water Main along 5 Mile and Beck Rd | Water & Sewer Fund             | -                   | -                   | -                   | -                   | 100,000             | -                   |
| <b>WATER SUPPLY SYSTEM</b>   | <b>Total</b>                   | <b>\$ 255,000</b>   | <b>\$ 4,580,000</b> | <b>\$ 180,000</b>   | <b>\$ 80,000</b>    | <b>\$ 180,000</b>   | <b>\$ 35,000</b>    |
| SANITARY SEWER   | POTENTIAL FUNDING SOURCE/NOTES | 2021                | 2022                | 2023                | 2024                | 2025                | 2026                |
| Sanitary Sewer Line Improvements Identified in SAW Grant           | Water & Sewer Fund             | \$ 260,000          | \$ 215,000          | \$ 210,000          | \$ 390,000          | \$ 52,000           | \$ -                |
| <b>SANITARY SEWER</b>  | <b>Total</b>                   | <b>\$ 260,000</b>   | <b>\$ 215,000</b>   | <b>\$ 210,000</b>   | <b>\$ 390,000</b>   | <b>\$ 52,000</b>    | <b>\$ -</b>         |
| <b>Grand Total</b>   |                                | <b>\$ 2,058,100</b> | <b>\$ 8,762,000</b> | <b>\$ 2,202,900</b> | <b>\$ 1,606,000</b> | <b>\$ 1,944,700</b> | <b>\$ 9,726,700</b> |