

# DRAFT 2017-2022 Capital Improvements Plan (CIP)



**CHARTER TOWNSHIP OF WHITE LAKE**  
Oakland County, Michigan

# 2017 - 2022 Capital Improvements Plan (CIP)



## **ACKNOWLEDGEMENTS**

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### **The CIP Team**

White Lake Township Community Development Department | Staff and Administration of White Lake Township |

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# Resolution of Adoption

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## Resolution of Adoption, continued

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# 1. Overview

The 2017- 2022 White Lake Township Capital Improvement Plan (CIP) will serve as a tool to assist White Lake Township in turning long-range policy planning into real improvements on the ground. A six-year capital improvement plan and an annual update of that plan is now a requirement for White Lake Township under the Michigan Planning Enabling Act of 2008. The following report identifies the major capital improvements needed and/or planned for the community, the timeframe for implementation of those improvements, and the budget and revenue sources that will make those improvements a reality. Capital improvements cover multiple departments within White Lake Township, and include new Township facilities, water and sewer extensions, fire protection vehicles and equipment, police equipment, parks and recreation facilities, non-motorized pathways, and professional services.

The following sub-sections within this first chapter include an introduction to capital improvement planning, the community of White Lake Township, and the capital improvement planning process. In subsequent chapters, this report summarizes existing facilities (Chapter 2), provides detailed components for all major Township departments, facilities, and systems (Chapter 3), and presents the projected cost and revenue sources for all covered improvements. (Chapter 4).



# 1a. Overview - CIP Overview

## **What is a Capital Improvement Plan (CIP)?**

A Capital Improvement Plan is a six-year schedule of public physical improvements which identifies the needs for major public infrastructure improvements, and the sources of funding to make those improvements. It provides a schedule of expenditures for constructing, maintaining, upgrading, and/or replacing a community's physical inventory. The CIP, therefore, is a tool to assess the long-term capital project requirements (the "big jobs") of White Lake Township. Since capital improvement projects are spread across multiple community needs (fire protection, police, water and sewer, parks and recreation, library, municipal administration, etc.), the CIP prioritizes these projects across the entire community and over time, providing an "apples-to-apples" comparison of the community's various needs and wants.

## **What are Capital Improvement Projects?**

Capital improvement projects are major and infrequent expenditures, such as the construction of a new facility, a major rehabilitation or repair of an existing facility, or the purchase of major equipment. Capital improvement projects are non-recurring expenditures that tend to be large both in physical size and in cost, and have a long-term usefulness (10 years or more). Examples of capital improvement projects can include:

- Construction of a new township hall
- Construction of a new fire station
- Extension of a water/sewer line
- Purchase of a new fire truck
- Construction of an addition to a township library
- Major rehabilitation of a township's community/senior center
- Creation of a new township park

Examples of expenditures which would not usually constitute a capital improvement project include:

- Purchase of new office furniture
- Purchase of small equipment (lawn mowers, copiers, individual computers, etc.)
- Recurring maintenance of existing facilities
- Minor repairs of existing buildings and equipment
- Minor improvements to existing buildings (carpet, painting, etc.)

The term “major expenditure” is relative; what is “major” to one community might be “minor” to another. The City of Ann Arbor, for example, sets a minimum threshold of \$100,000 for projects to be included in the City’s CIP, while the City of Rochester Hills sets a minimum of \$25,000. White Lake Township’s policy for determining a Capital Improvement is defined in the following section.

### **What is White Lake Township’s Capital Improvement Policy?**

A capital improvement project is a major, nonrecurring expenditure that meets one of more of the following criteria:

- Any acquisition of land for a public purpose which costs \$50,000 or more.
- Any construction of a new public facility (Township building, water/sewer lines, pathways), or any addition to an existing public facility, the cost of which equals \$50,000 or more and has a useful life of three or more years.
- A nonrecurring rehabilitation (not to include annual/recurring maintenance) of a building, its grounds, a facility, or equipment, the cost of said rehabilitation being \$50,000 or more with a useful life of three or more years.
- Purchase of major equipment which, individually or in total, cost \$50,000 or more with a useful life of three or more years.
- Planning, feasibility, engineering, or design studies related to an individual capital improvement project, or program implemented through individual capital improvement projects, with a cost of \$50,000 or more and a useful life of three or more years.

### **Why a CIP for White Lake Township now?**

The Michigan Planning Enabling Act of 2008 requires a Capital Improvement Program for any Michigan township which owns and/or operates a water supply or sewage disposal system. Since White Lake Township owns and manages both a public water and sanitary sewer system, adopting and annually updating a Capital Improvement Plan is now a requirement per State law.

### **What are the benefits of preparing a CIP?**

The CIP is more than just a State requirement; it is an essential planning tool in addition to a statement of budgetary policy. It informs the taxpayers of White Lake Township how the Township plans to prioritize, schedule, and coordinate capital improvement projects over the next six years. The benefits of creating and annually updating the CIP include:

- Prudent use of taxpayer dollars;
- Focusing the Township expenditures on the needs of the community;
- Prioritizing projects across the needs of the community;
- Generating community support by inviting public input;
- Promoting economic development;
- Improving the Township’s eligibility for State and Federal grants;
- Providing an implementation tool for the goals and objectives of the Township Master Plan;
- Transparency in identification of high-priority projects;
- Coordination/cost-sharing between projects.

**What is the role of the Township Planning Commission in the CIP process?**

The Capital Improvement Program is a dynamic planning document, intended to serve as a tool to implement the White Lake Township Master Plan. The Master Plan should correspondingly include capital improvement projects as well as guide long-term capital planning. The White Lake Township Planning Commission is uniquely qualified to manage the development and annual update of the Township's CIP, based on their role in creating and updating the Township Master Plan. The Planning Commission's role will ensure that public works projects are consistent with the land uses identified within the Master Plan. By making a recommendation of approval for the CIP to the Township Board, the Planning Commission agrees that the projects outlined within it reasonably address the Township's capital improvement needs.

The CIP is an essential link between planning for capital improvement projects and budgeting for them. Once approved by the Township Board, the CIP can be used to develop the capital project portion of the Township's budget. Those projects included in the CIP's first year (2017) potentially form the basis for the upcoming year's capital project budget. As the CIP is annually updated, a continuous relationship will be maintained between the CIP and the Township's annual budget. The annual update to the CIP will occur in advance of the preparation of the Township's budget.



# 1b. Overview - White Lake Township Overview

White Lake Township, Oakland County's "Four Seasons Playground", prides itself as a community which continues to promote economic growth, sustainable development, and a strong sense of place. White Lake's character as a premier residential community, with ample recreational opportunities and superior public and private schools, sets it apart and establishes the township's unique identity.

The Township continues to promote sound fiscal policy while maintaining appropriate levels of service to meet the needs of its growing population. Public utilities infrastructure, police, fire and emergency services, parks, recreation and senior services, as well as planning, building inspection and administrative services are all designed to provide residents with the full-service amenities of a modern municipality in a cost effective, fiscally responsible and sustainable manner.

## **Principal Land Uses**

While the commercial base of White Lake Township continues to grow, the principal land use within the Township remains single-family residential. Based on existing land use data from the Township's 2011 Master Plan Update, 34.7% of the Township's nearly 24,000 acres is developed as single family residential (equaling 80% of all dwelling units). The second largest land use in the township (in terms of land area) is recreation/open space, comprised of two State Recreation Areas (Pontiac Lake and Highland), a regional metro-park (HCMA's Indian Springs), and an Oakland County-owned golf course (White Lake Oaks). Combined, the recreation/open space land uses within the township comprise over 25% of land (over 6,000 acres). Over 12% of land within the township (approx. 3,000 acres) was classified as vacant in 2009, although that number has likely dipped slightly since the existing land use inventory was conducted. The township's commercial, industrial, and office uses comprised 3% of the land area in 2009. The majority of the commercial, industrial, and office uses in White Lake Township are located along the M-59 corridor, although some are scattered elsewhere throughout the township, mostly in the southeast quadrant. There is also a small industrial concentration in the Township's northeast corner. The 21 lakes within White Lake Township comprise almost 11% of its total land area. Figure 1-1 displays the 2009 Existing Land Use Map.

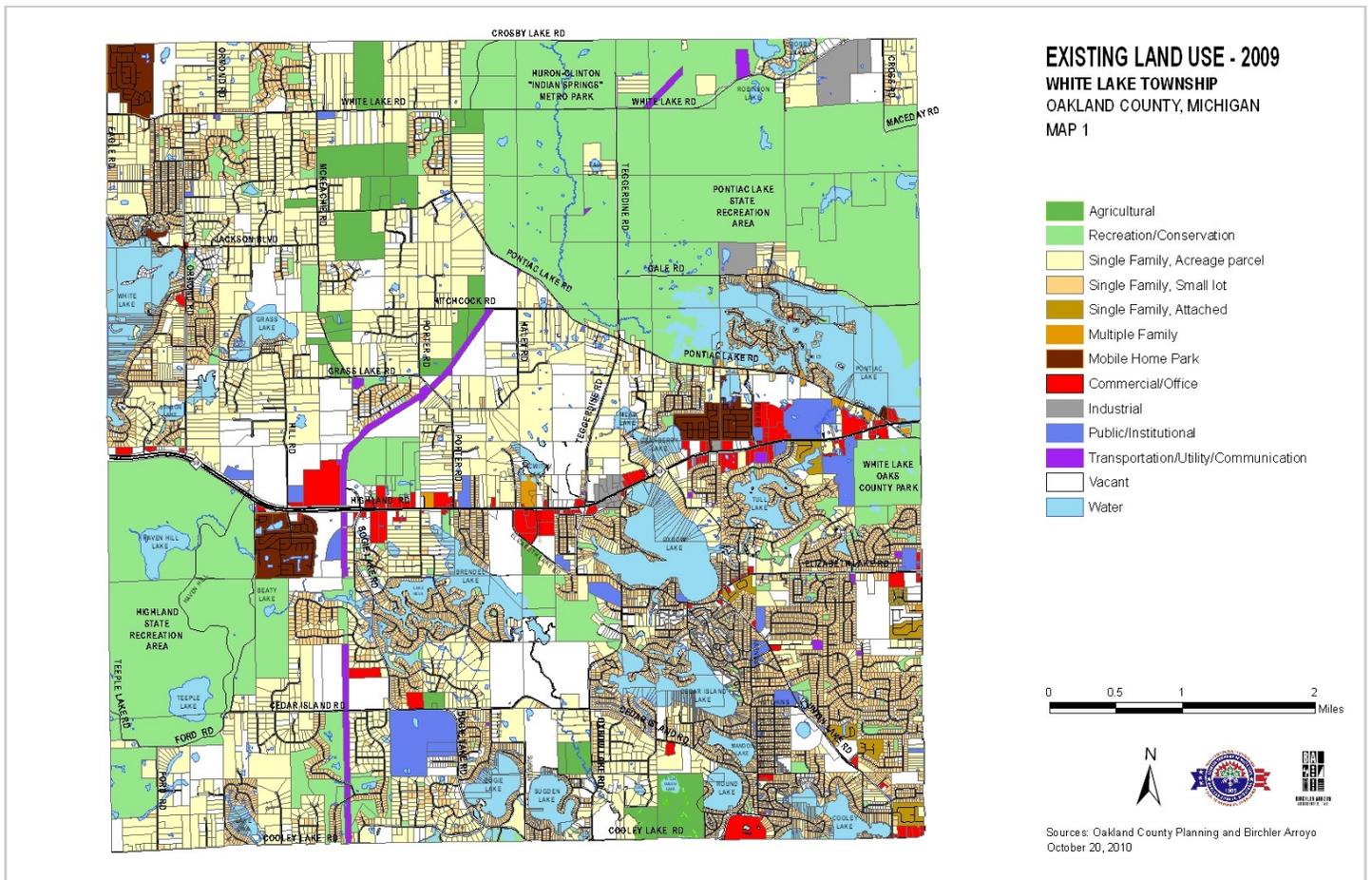
**Population**

As of the 2010 Census, the population of White Lake Township was 30,019, a 6.4% increase from the 2000 Census (28,219). Population projections created by the Southeast Michigan Council of Governments (SEMCOG) estimate that the population of White Lake Township will only increase slightly over the next twenty years with a forecasted population of 30,811, in 2030. This projection is subject to change based on social and economic factors.

**Employment**

SEMCOG Community Data for White Lake Township shows the two highest employment-sectors within the township to be Retail Trade (approximately 39% of total employment) and Natural Resources, Mining, and Construction (approx. 14%).

**FIGURE 1-1. EXISTING LAND USE, 2009**



# 1c. Overview - CIP Process Overview

## Background

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 for a CIP under the Michigan Planning Enabling Act, Act 33 of 2008. This reporting requirement for townships was effective September 1, 2008. The following excerpt from the Act 33 sets forth the requirement of a township to adopt a CIP:

*“(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 1 or more other local units of government, owns or operates a water supply or sewage disposal system.”.*

The contents of the CIP are set forth under the Government Accounting Standards Board Statement 34 that basically requires the CIP to report on the value of their infrastructure. GASB 34 requires state and local governments to begin reporting all financial transactions, including the value of their infrastructure assets, roads, bridges, water and sewer facilities, and dams, in their annual financial reports on an accrual accounting basis.

The Charter Township of White Lake is not a road agency under Public Act 51 of the laws of the State of Michigan. Accordingly, public road and bridge projects are not reported in this CIP. **All other infrastructure components with construction costs in excess of \$50,000 per year are reported in this CIP.**

The following sections outline the Program Areas of the White Lake Township CIP:

1. Data Collection Process
2. Data Compilation Process
3. CIP Adoption Process

**PROGRAM AREAS**

The components of the CIP are compiled and reported by Program Areas. The following table (Figure 1-2) displays the Program Areas used in this CIP (each assigned with a color). These program areas represent the stakeholders in the CIP.

FIGURE 1-2. CIP PROGRAM AREAS	
Label	Definition / Description
BP / PK	Bike paths, trail ways, and park facilities/services
FA	Township-owned buildings and facilities (offices, storage buildings, museums, etc.)
FD	Fire protection / EMS facilities and equipment
IS	Internal support services (IT, GIS, fleet vehicles, communications, etc.)
PD	Police Department facilities and equipment
SS	Sanitary sewerage disposal system
WS	Water supply system

**1. Data Collection**

Each of the stakeholders outlined above has either a master plan or schedule that defines the needs and resource level within their respective area of responsibility. This information is in varied formats and cannot be readily compiled without a significant amount of interpretation. To resolve this interface situation, standard forms were created that allow the stakeholders to define their projects and resource allocation levels. The standard forms used for data collection are found in the Appendix. At a meeting with the stakeholders, the CIP process and the forms were explained in detail along with a request for the forms to be filled out based on what information is currently available. The information generated from these forms has been systematically compiled as the core of the CIP. A definition of the forms is provided as follows:

- **Project Application Form** - Consists of project descriptions, schedules, necessity, and possible sources of funding. The information provides an understanding of the overall scope of each project and how it is valued within its program area and within the Township. While stakeholders may be aware of major projects further out on the horizon, only those planned for within the six-year window of the 2017-2022 CIP were included.
- **Project Cost Detail Form** - Consists of a matrix of six (6) budget years across the top of the form and a listing of costing components along the side of the form. The form is split into two (2) parts; the upper half is the capital cost for the project and the lower half is the cost of operations or maintenance for that project if applicable. Recognition of the operations and maintenance costs of a project is a valuable tool in forecasting future needs for resource allocation. Investment in a new facility is only worthwhile if there are funds available to operate and maintain it.

- **Project Rating Form** - Used to rate both the importance and impact of a project within its program area and within the Township (an “apples-to-apples” comparison). The rating number is not an absolute in itself but is important in distinguishing between projects that are similar in scope. The ratings are weighted with emphasis given to those projects that are mandated by law, by agreement, or because they are a matter affecting health safety and welfare.

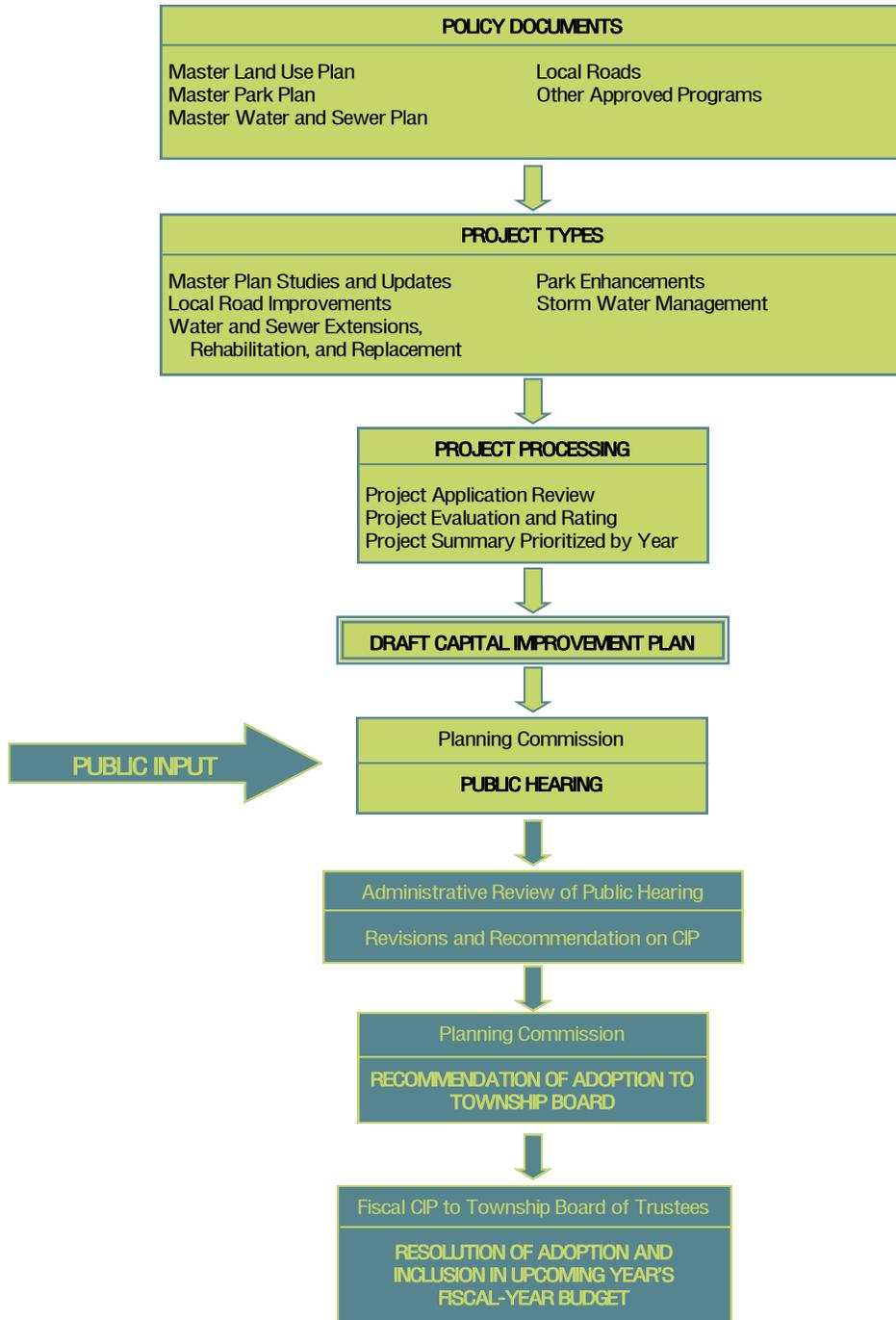
## **2. Data Compilation**

The information received from the stakeholders has been compiled into a Project Summary Worksheet. This worksheet contains all of the projects in the CIP over six (6) budget years with a cost summary of each budget year by program area and for the entire CIP. Included with the worksheet is the listing of possible funding sources and an estimate of the Township’s share for each project. The project summary worksheet can be found in the Appendix of this CIP.

## **3. CIP Adoption Process**

The adoption process involves a public hearing to solicit citizen input. The CIP will then be modified (if necessary), approved by the Township Planning Commission (via a formal recommendation for approval to the Township Board), and forwarded to the Township Board for adoption. Adoption of the CIP by the Township’s Board of Trustees does not constitute an authorization to commit resources to any project. This approval is recognition of a plan for projects within the community that may move toward implementation in the future. The projects included within Year 1 of the Capital Improvement Plan potentially form the basis for the upcoming year’s capital projects budget. An outline of the process is displayed in Figure 1-3 on the following page.

## FIGURE 1-3. CIP ADOPTION PROCESS



## 2. Existing Capital Facilities

In developing a Capital Improvements Plan, communities often find it essential to develop an inventory of their existing capital facilities. Before a community develops a list of “What we need”, it is important to first look at “What we have”. As stated in White Lake Township’s Master Plan, “A municipality’s public facilities are an important part of community life and are directly related to important issues such as quality of life and protection of the public health, safety, and welfare.” The following is a summary of White Lake Township’s major capital facilities and their current condition (where applicable), as determined by the directors of the respective departments. The location of existing Township facilities is noted on the Existing Facilities Map (Figure 2-1).

### White Lake Township Hall

7525 Highland Road

Year Built: 1949

Last Major Improvement: 1996

Houses: Supervisor, Clerk, Treasurer, Assessing, Building, Planning, Water, Sewer, Maintenance

Condition: Fair

Extent of Use: Heavy



### White Lake Township Fleet Vehicles

Includes: Administrative vehicles, inspection vehicles; does not include Fire Dept. vehicles

Year Acquired: Varies

Condition: Varies

Extent of Use: Varies

Average Duty Cycle: Approximately 7 years



### Fire Hall Number 1 (Headquarters)

7420 Highland Road

Year Built: Unknown

Last Major Improvement: Parking Lot Replacement

Serves: M-59 corridor; northeast and southwest quadrant

Condition: Fair



**Fire Hall Number 2**

Address: 860 Round Lake Road  
Year Built: Unknown  
Last Major Improvement: None  
Serves: Southeast quadrant  
Condition: Fair  
Extent of Use: Heavy



**Fire Hall Number 3**

4870 Ormond Road  
Year Built: Unknown  
Last Major Improvement: None  
Serves: Northwest quadrant  
Condition: Fair  
Extent of Use: Moderate



**White Lake Township Police Station**

7525 Highland Road  
Year Built: approx. 1950  
Last Major Improvement: 2001 (expansion)  
Condition: Good  
Extent of Use: Heavy



**White Lake Township Police Garage**

Location: Behind Police Station  
Year Built: 2004  
Last Major Improvement: None  
Condition: Good  
Extent of Use: Heavy



**White Lake Township Police Communications System**

Year Acquired: New in 2010  
Last Major Improvement: None  
Condition: Excellent  
Extent of Use: Heavy



**White Lake Township Police Vehicles**

Includes: 15 Vehicles  
Year Acquired: Varies  
Condition: Excellent  
Extent of Use: Heavy



**White Lake Library**

7527 Highland Road  
Year Built: 1985  
Last Major Improvement: 2011  
Condition: Excellent  
Extent of Use: Heavy



**Dublin Community Senior Center**

685 Union Lake Road  
Year Built: approx. 1950  
Last Major Improvement: 2001  
Condition: Excellent  
Extent of Use: Heavy



**Water Tower 1**

360 Woodsedge Drive  
Year Built: 1994  
Last Major Improvement: 2007  
Condition: Good  
Extent of Use: Heavy



**Water Tower 2**

6055 Highland Road  
Year Built: 2004  
Last Major Improvement: None  
Condition: Excellent  
Extent of Use: Moderate



**White Lake Township Water System**

Includes: Water mains, wells, land, well houses and pump stations, generators

Year Built: Ongoing

Last Major Improvement/Extension: 2010

Condition: Varies; primarily Good to Excellent

Extent of Use: Varies; primarily Moderate to Heavy



**White Lake Township Sanitary Sewer System**

Includes: Phase I sewer/appurtenances, Pontiac Lake sewer/appurtenances, Elizabeth Lake/M-59/Meijer sewer/appurtenances

Year Built: Ongoing since 1998

Last Major Improvement/Extension: 2012

Condition: Good to Excellent

Extent of Use: Light to Moderate



**White Lake Community Hall**

Address: 7500 Highland Road

Year Built: 1875 (State-designated historic site)

Last Major Renovation: 2013 (Interior)

Condition: Good

Extent of Use: Light



**Fire and EMS Equipment**

Includes: Five pumpers, three tankers, two ambulances, one heavy rescue, five fleet vehicles, and breathing apparatus

Year acquired: Varies; between 1995 and 2015

Condition: Varies; from Good to Excellent

Extent of Use: Varies; primarily Moderate to Heavy



**White Lake Township Clerk's Equipment**

Includes: Voting tabulation machines (15)  
Voter assist terminals (12)

Year acquired: Most in 2005, and 2008

Condition: Good

Extent of Use: Varies



## White Lake Charter Township

### Hidden Pines Park

Location: Intersection of White Lake Road and Hidden Pines Drive.

Size: 9 Acres

Includes: One (1) Baseball Field and parking area.



### Township-Owned Land

Total acreage: approx. 133 acres (including Township parks)



### Judy Hawley Park

Location: Behind Township Hall, just east of the Township Library

Size: 12 acres

Includes: Soccer fields, pavilion, play structure, basketball courts, sand volleyball court, pathway, and horseshoe pits.



### Ferdinand C. Vetter Park

Location: Behind Dublin Community Center on Union Lake Road

Size: 6 acres

Includes: Baseball field, picnic shelter, pathway, and play structure



### Bloomer Park

Location: West side of McKeatchie Road, between

Grass Lake and Jackson Roads

Size: Approximately 28 acres

Description: Picnic shelter, scenic overlook, and nature trails

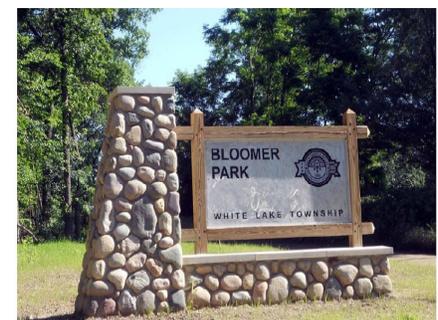
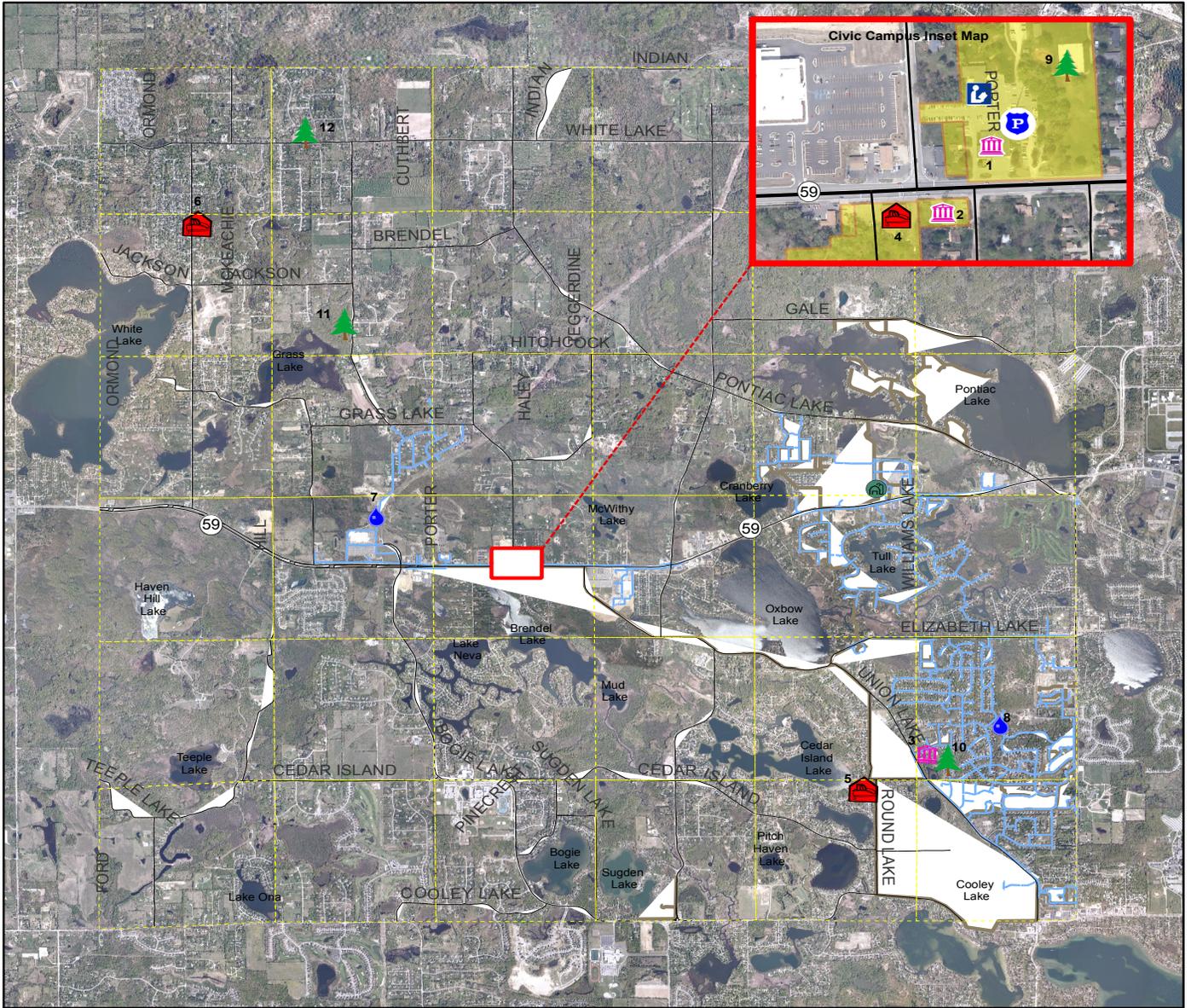


FIGURE 2-1



## Existing Facilities Map White Lake Charter Township

Base Map Source: Oakland County Planning,  
Michigan Geographic Data Library  
Map Last Updated: August 11, 2015



### Existing Facilities

- |                              |                                |
|------------------------------|--------------------------------|
| <b>Public Facilities</b>     | <b>Water Towers</b>            |
| 1 Township Municipal Offices | 7 Water Tower # 1              |
| 2 Community Hall             | 8 Water Tower # 2              |
| 3 Dublin Community Center    |                                |
| <b>Fire Stations</b>         | <b>Township Parks</b>          |
| 4 Fire Hall # 1              | 9 Judy Hawley Park             |
| 5 Fire Hall # 2              | 10 Ferdinand C. Vetter Park    |
| 6 Fire Hall # 3              | 11 Bloomer Park                |
|                              | 12 Hidden Pines Park           |
| <b>Township Library</b>      | <b>Fisk Farm</b>               |
| <b>Police Station</b>        | <b>Existing Sanitary Sewer</b> |
|                              | <b>Existing Watermain</b>      |



## 3. Executive Summary

### **Stakeholders**

The level of input from the stakeholders has greatly contributed toward the formulation of the CIP. Project profiles consisting of the Project Application Form, the Project Cost Detail Form , and the Project Rating Form were received from Parks and Recreation, Library, Senior Center, Police Department, Fire Protection, Facilities, and Water and Sewer Departments. Though some of the information received will require further detail, it is the most current information available until future refinements are made to the project profile.

### **Project Histories**

Just as important as tracking current and future projects is cataloging the past accomplishments of the Capital Improvement Plan. Located in the back of the plan is a Project Histories Summary Table. This table illustrates those past projects that have been completed or canceled. Some projects are changed over time, the original project number may be dropped and new project numbers and created in its place. The Project Histories Summary can be used to track the priorities of the Township over time and can help track overall investment in the community based on geographic regions.

### 2015 Project Histories

Capital improvements, outlined in the 2015-2020 CIP, completed during 2015 :

- WS-0006 Village Acres Iron Filtration

# 3. Executive Summary

## Projects

Review of the Project Summary Worksheet (found in the Appendix of this report) indicates that there are several individual projects located in the same geographic area. There are potential cost savings that can be realized by combining projects. At a minimum, mobilization, traffic control, and restoration are just some of the potential cost savings achieved by combining projects for construction. The potential grouping of projects are identified in Figure 3-1 below:

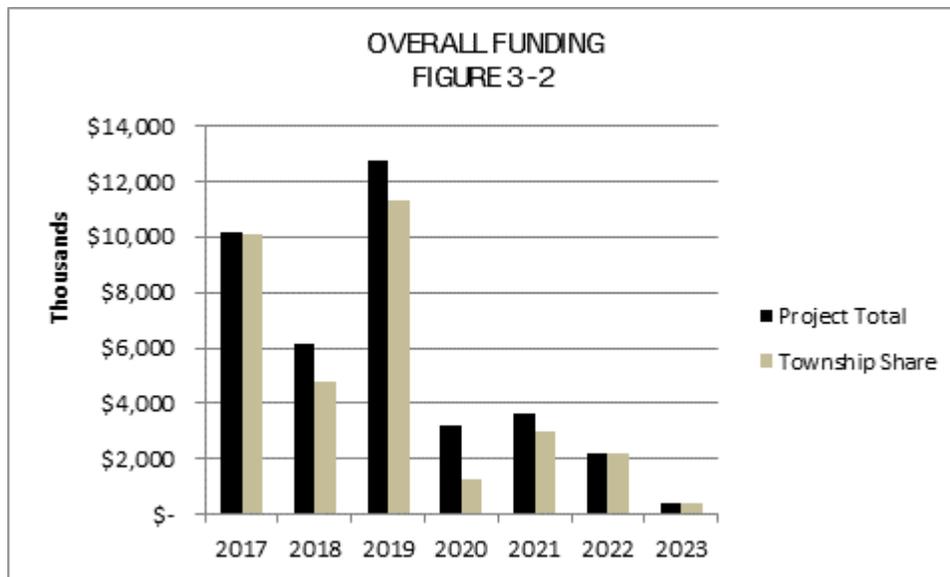
FIGURE 3-1	
Location	Project Labels
M-59, Teggerdine east 0.3 miles	BP-0003, and PK-00006
Bogie Lake Road, Huron Valley Schools to M-59	BP-0006 and SS-0003

If the funding and timing of these projects can be orchestrated, the savings are significant. The exact savings cannot be determined until a detailed project costing and analysis of the common scope between the projects is performed. Also, in the future other projects such as new facilities can be studied to determine if combining operations can realize a cost savings. Other benefits include providing a list of projects in advance in order to help establish the need for grants and funding opportunities.

**Funding**

**Funding**

This CIP has many projects that are unfunded. The limitations of funding will likely cause projects to be delayed, deferred or cancelled. Each project has a potential funding source and many are dependent on a contribution from the Township’s General Fund (GF). Many projects list funding sources from State and Federal grant programs, but those grants have not yet been secured. The following chart depicts the relationship between total project costs, and the Township’s share of those costs. Additional revenue for projects that are not completely funded by the Township will come from grants and other funding sources.



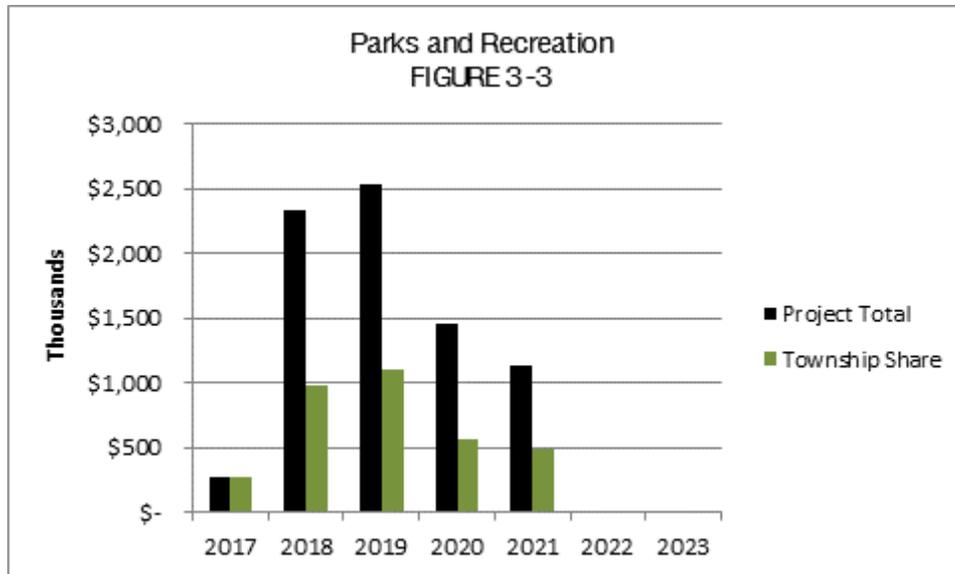
The Township’s General Fund balance at the end of fiscal year 2015 is about \$5.9 million. As indicated in Figure 3-2 above, the General Fund balance is inadequate to support the Township’s share of the CIP.

**Funding Components**

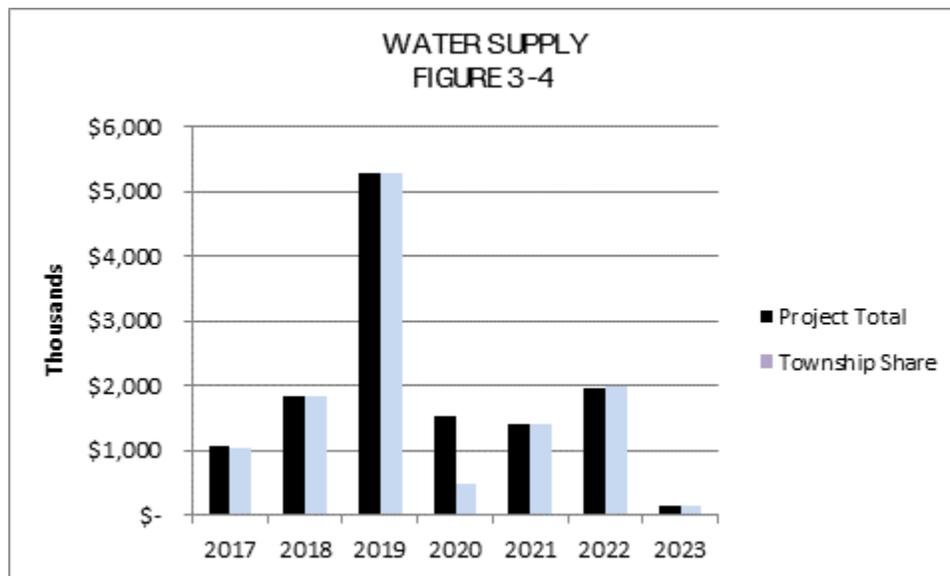
In the following section, each of the funds shown on the Project Summary Worksheet are graphed and reported as part of the CIP with the exception of the projects listed under Internal Services.

**Parks and Recreation**

The Parks and Recreation Fund has a fund balance of about \$811,924 as shown in the 2015 Comprehensive Annual Financial Report (CAFR). This fund balance along with a Michigan Natural Resources Water and Land Conservation Grant, and Recreation Passport Grant will be used to leverage park improvement projects.

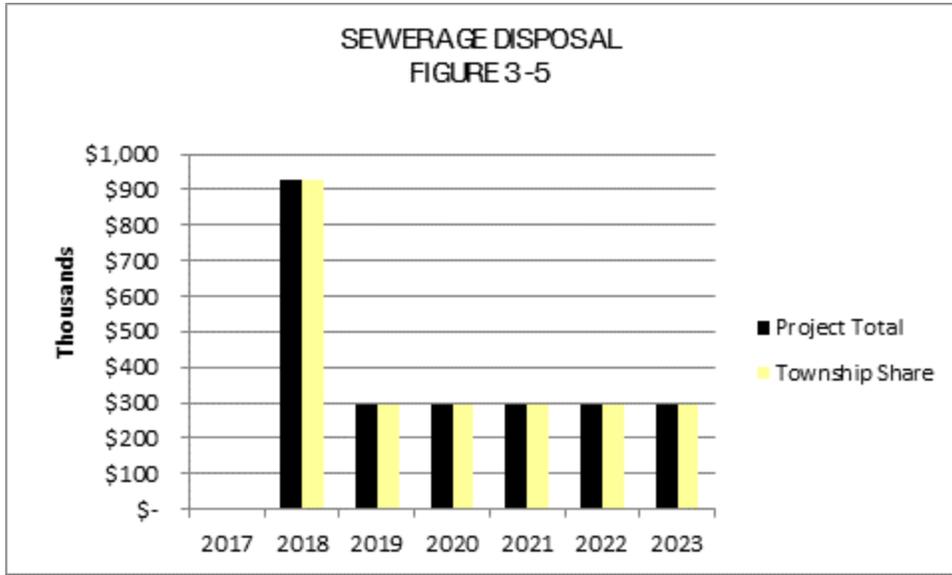


Careful budgeting of the Parks and Recreation fund will allow the level of service and maintenance of the Townships current and future park facilities to occur until additional parks funding can be established.



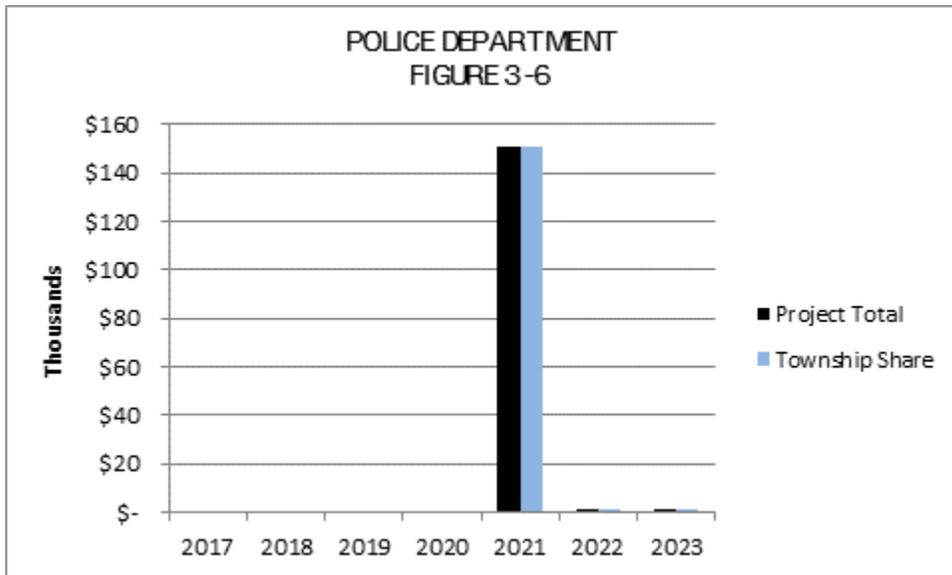
**Water Supply Fund**

The Water Supply Fund (WF) is an enterprise fund that is not dependent on support from the General Fund. Several projects in this program area are funded using the Drinking Water Revolving Fund supplemented by the Water Supply Fund balance.



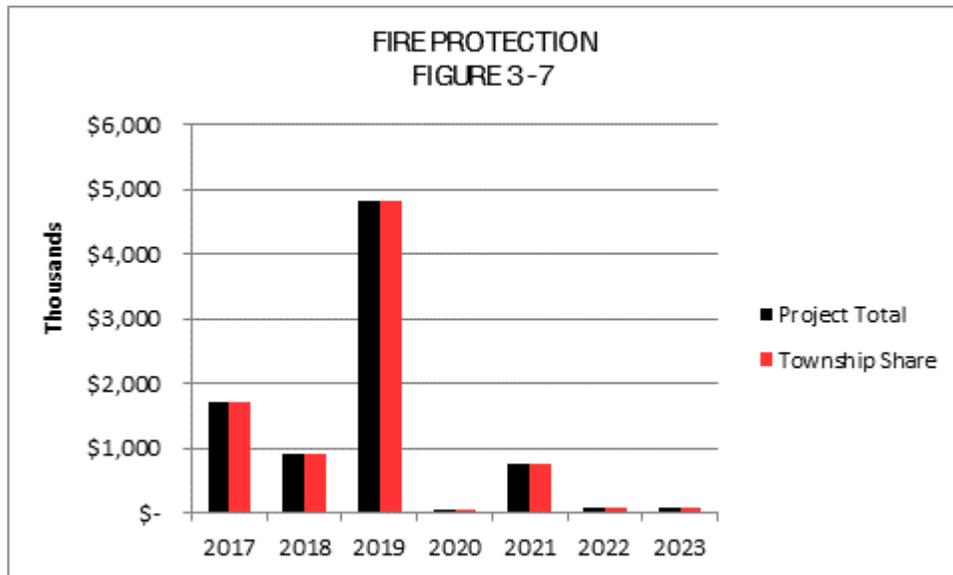
**Sewerage Disposal System**

The 2015 CAFR does not list an enterprise fund for sanitary sewerage disposal systems. There have been special assessment districts (SAD’s) established for specific areas of the township but any remaining funds from those SAD’s should remain within the district.



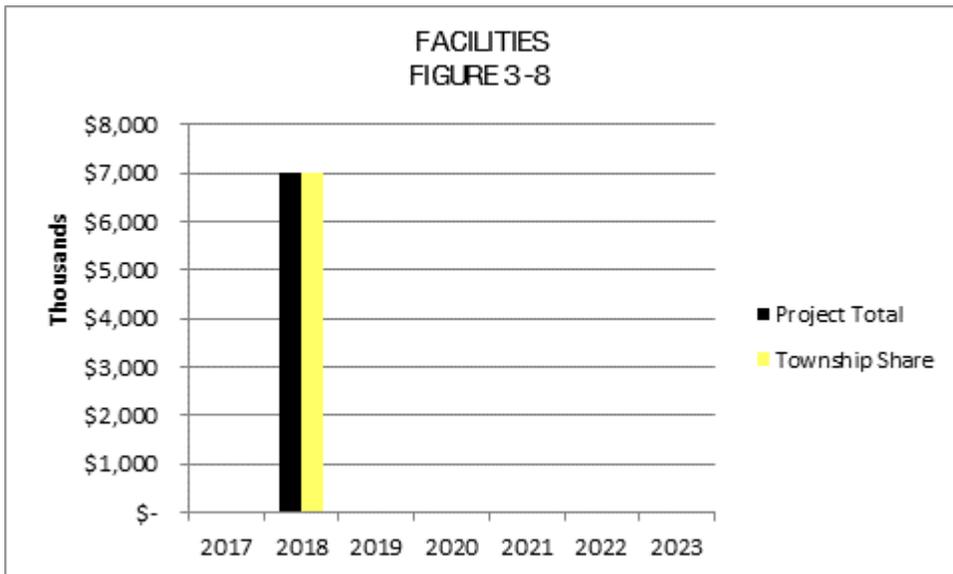
**Police Department**

The 2015 CAFR reports a balance of \$2.4 million in the Police Fund. The Police Department is currently funded by a Township Mileage.



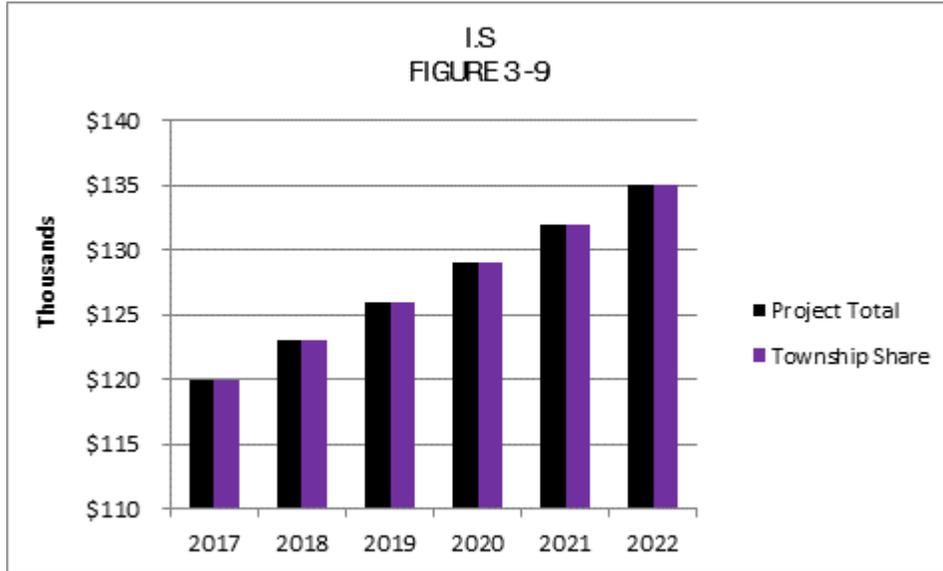
**Fire Protection**

The Fire Protection Fund has a fund balance of \$5.4 million as reported in the 2015 CAFR. The Fire Protection Fund is supported solely through mileage money.



**Facilities**

The only project in the Facilities group is the Township Hall Renovation project. The project cost is approximately 7 million dollars. This money will come from the Capital Projects Fund and from grants. The Township currently has approximately 2.7 million dollars available for Township Improvements that could be used to complete the Township Hall Renovation project.



### Internal Services

The Internal Services used to support the operating departments are included in the CIP due to their costs that are in excess of \$50,000. Because these services are collected as a charge back to the operating departments, there is no special fund involved.

# 4. CIP Components

The components of the Capital Improvement Plan have been compiled and reported by the following seven program areas, each representing a stakeholder in the CIP.

<p><b>Section 4a. <u>Facilities</u></b> FA-0004 Township Hall Renovation</p>	<p><b>Section 4e. <u>Police Department</u></b> PD-0002 - Mobile Command Center</p>
<p><b>Section 4b. <u>Fire Protection</u></b> FD-0001 - Fire Station Land Acquisition FD-0002 - Fire Station # 2 Replacement FD-0004 - Fire Station #1 Replacement FD-0006 - Fire Ladder Truck ( 1) FD-0008 - Fire Tanker Trucks (2) FD-0009 - Fire Station 3 Addition FD-0011 - SCBA Replacement</p>	<p><b>Section 4f. <u>Sanitary Sewer Disposal System</u></b> SS-0005 - Western Outlet Sanitary Extension Phase 2 SS-0006 - Pump Station at Lakeland High school SS-0007 - Upgrades &amp; Equipment Replacement of Meijer Pump Station SS-0008 - Upgrades &amp; Equipment Replacement of 7 Sanitary Sewage Pump Stations SS-0009 - SCADA Equipment to Monitor Sanitary Sewage Pump Stations (8)</p>
<p><b>Section 4c. <u>Internal Services</u></b> IS-0001 - Digitized Documents</p>	<p><b>Section 4g. <u>Water Supply System</u></b> WS-0004 - Twin Lakes Well Replacement and Upgrades WS-0007 - Additional Tank No. 1 Feed WS-0008 - Aspen Meadows Iron Filtration WS-0010 - SCADA Tower Replacement and GENSET WS-0011 - Water Main Extension Bogie Lake Road (M-59 to Cedar Island) WS-0012 - 6 - Inch Diameter Water Main Replacement WS-0013 - VFD Installation on seven (7) Well Pumps WS-0014 - SCADA System Updates at seven (7) Sites WS-0015 - Twin Lakes II Well House Updates WS-0016 - Hillview Well House Upgrades WS-0017 - Interconnection of High Pressure Districts (Elizabeth Lake Road) WS-0018 - Residual Chlorine Analyzers at Water Towers WS-0019 - Residential and Commercial Meter Replacement with AMR System</p>
<p><b>Section 4d. <u>Parks and Recreation</u></b> BP-0002 - M-59 Pathway (Phase I) BP-0003 - M-59 Pathway (Phase II) BP-0004 - M-59 Pathway (Phase III) BP-0005 - Union Lake Rd. Pathway BP-0006 - Bogie Lake Rd. Pathway PK-0002 - Four Seasons Trail (Phase I) PK-0003 - Four Seasons Trail (Phase II) PK-0004 - Four Seasons Trail (Phase III) PK-0005 - Brendel Lake Property Acquisition PK-0006 - Oxbow / M-59 Park PK-0007 - Brendel Lake Campground Acquisition PK-0008 - Hidden Pines Park Development PK-0009 - Teggerdine Trail Design PK-0010 - Bloomer Park (Phase II)</p>	

**Funding Sources Abbreviations**

Building Authority	BA
Drinking Water Revolving Fund	DWRF
Fire Protection Fund	FPF
General Fund	GF
Federal Housing and Urban Development	HUD
Michigan Dept. of Transportation Enhancement Grant	MDOT-EG
Michigan Natural Resources Trust Fund Grant	MNRTFG
Michigan Safe Routes to School Program	MSRSP
Parks & Recreation - Special Township Revenue Fund	P&RF
Road Commission Tri-Party Program	RCOCTP
Special Assessment District	SAD
Sewer Fund (Township Enterprise Fund)	SF
State Revolving Fund	SRF
United States Dept. of Transportation	USDOT
Drinking Water Revolving Fund	DWRF
Water Supply Fund (Township Enterprise Fund)	WF

# 4a. CIP Components - Facilities

## Overview

Facilities play an important role in providing an environment that is conducive to supporting the various operating departments that provide services directly to the residents in the Township. Facilities can be new building projects, building renovations, building expansions or the cost of services to support the existing buildings if this cost is significant.

Identification of significant costs to support existing building operations is an important tool in determining the cost effectiveness of operating existing public buildings.

Funding for supporting existing Facilities is normally derived by either a charge back to the budgets from the operating departments or done as a direct operating cost to General Fund.

Funding for new Facilities can be accomplished by a building authority. The Township has a legally established Building Authority that would be the governing body to finance and construct any new public buildings in the Township.

On the following page, each of the Facilities projects are listed along with their costing and funding sources.

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE CAPITAL IMPROVEMENTS PLAN PROJECT SUMMARY FACILITIES (FA)							
PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
FA-0004	Township Hall Renovation	Rehabilitation	93	GF, Grants	\$7,000,000	\$7,000,000	\$--
<p><u>Project Description</u>                      This project will involve an expansion of the existing Township Hall facility as well as parking lot improvements and expansions. Additionally, public utility connections will be made for water and sewer. This project replaces FA-0001, FA-0002, FA-0003, and PD-0001. This project will meet the Townships needs over the next decade without the need for a large capital expense and land purchase.</p>							

## 4b. CIP Components - Fire Protection

### Overview

Fire Protection provides a variety of vital services to Township residents. Fire Protection facilities are provided at several locations within the Township. In the CIP, new Fire Protection facilities, new Fire protection equipment and new Fire protection vehicles are included under this section.

Fire Protection is principally funded by a Township Millage. Potential sources of funding for projects are the Fire Protection Fund balance, bond issue, or grants. Another possibility would be to use the Township's Building Authority to finance new fire stations.

On the following pages, each of the Fire Protection projects are listed along with their costing and potential funding sources.

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE CAPITAL IMPROVEMENTS PLAN PROJECT SUMMARY FIRE PROTECTION (FD)							
PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
FD-0001	Fire Station Land Acquisition	Land Acquisition	113	Grant, Bond Issue, BA	\$500,000	\$500,000	\$--
<u>Project Description</u> Purchase two sites, each 2 to 4 acres in size, for future fire stations.							

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
FD-0002	Fire Station #2 Replacement	New Construction	140	Grant, Bond Issue, BA	\$1,600,000	\$1,600,000	\$--
<u>Project Description</u> Construct a satellite fire station with living quarters and three bays.							

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
FD-0004	Fire Station #1 Replacement	New Construction	110	Grant, Bond Issue, BA	\$3,200,000	\$3,200,000	\$--
<u>Project Description</u> Procure land and construct a headquarters fire station with living quarters, administrative offices, training facilities, and five bays.							

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
FD-0006	Fire Ladder Truck	New Equipment	96	FPF	\$850,000	\$850,000	\$--
<u>Project Description</u> 100-foot fire-fighting ladder truck.							

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE CAPITAL IMPROVEMENTS PLAN PROJECT SUMMARY FIRE PROTECTION (FD)							
PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
FD-0008	Fire Tanker Trucks (2)	New Equipment	108	FPF	\$700,000	\$700,000	\$--
<u>Project Description</u> Replacement of 1997 Pierce Dash tanker truck.							

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
FD-0009	Fire Station 3 Addition	New Construction	112	GF	\$900,000	\$900,000	\$--
<u>Project Description</u> Restoration and Addition to the Existing Fire Station 3.							

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
FD-0011	SCBA Replacement	New Equipment	137	FPF, GF	\$300,000	\$300,000	\$--
<u>Project Description</u> Replacement of aging Self Contained Breathing Apparatus (SCBA) equipment.							

Future Projects that fall outside the scope of the current plan include:

- Rescue Pumper: \$450,000
- Ambulance (Fire Station No.3) \$150,000

These projects will be rated and assigned a project number in a forthcoming plan.



## 4c. CIP Components - Internal Services

### Overview

Internal Services play an important role in supporting the various operating departments that provide services directly to the residents in the Township. While Internal Services in itself is not a “project”, the cost of this internal support is significant and bears inclusion as part of the CIP. Internal Services in this CIP are defined as computer networks, geographical information service (GIS), document storage, communications and fleet vehicles.

There is no dedicated fund for Internal Services. Funding for Internal Services is normally derived by a charge back to the budgets from the operating departments that use or are supported by these services.

On the following page, each of the Internal Services projects are listed along with their costing and funding sources.

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE CAPITAL IMPROVEMENTS PLAN PROJECT SUMMARY INTERNAL SERVICES (IS)							
PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
IS-0002	Fleet	New Equipment	80	PD / GF	\$ 783,000	\$ 783,000	\$--
<p><u>Project Description</u>                      Replacement of cars and trucks (excepting Fire Department) on an annual basis to systematize the vehicle replacement process. Estimates are for a combination of three (3) cars and two (2) trucks each year.</p>							

## 4d. CIP Components - Parks & Recreation

### Overview

The Parks and Recreation Master Plan provides a variety of services to Township residents. Parks and Recreation is principally funded by a non-major special revenue fund. Potential funding for projects can be from Parks and Recreation fund balance, grants such as Michigan Department of Natural Resources Trust Fund, County based tri-party funding, Michigan Safe Routes to School Program, Michigan Department of Transportation Enhancement Grant, Federal Housing and Urban Development.

On the following pages, each of the Parks and Recreation projects are listed along with their costing and potential funding sources.

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE CAPITAL IMPROVEMENTS PLAN PROJECT SUMMARY PARKS AND RECREATION (BP and PK)							
PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
BP-0002	M-59 Pathway (Phase I)	Rehabilitation	98	MDOT-EG; P&RF	\$454,000	\$154,000	\$300,000
<p><u>Project Description</u> An important, long term, high-priority objective is the development of a Township-wide system of pathways connected to the regional network. Renovation of the M-59 pathway is an essential element that will connect future north-south routes, for example, Bogie Lake Pathway to the Four Seasons Trail.</p>							

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
BP-0003	M-59 Pathway (Phase II)	Rehabilitation	98	MDOT-EG; P&RF	\$453,000	\$153,000	\$300,000
<p><u>Project Description</u> An important, long term, high-priority objective is the development of a Township-wide system of pathways connected to the regional network. Renovation of the M-59 pathway is an essential element that will connect future north-south routes, for example, Bogie Lake Pathway to the Four Seasons Trail.</p>							

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
BP-0004	M-59 Pathway (Phase III)	Rehabilitation	98	MDOT-EG; P&RF	\$452,000	\$152,000	\$300,000
<p><u>Project Description</u> An important, long term, high-priority objective is the development of a Township-wide system of pathways connected to the regional network. Renovation of the M-59 pathway is an essential element that will connect future north-south routes, for example, Bogie Lake Pathway to the Four Seasons Trail.</p>							

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
BP-0005	Union Lake Road Pathway	Rehabilitation	98	MNRTFG; RCOCTP; P&RF	\$597,000	\$347,000	\$250,000
<p><u>Project Description</u> The Union Lake Road corridor is the area of White Lake that contains the highest density of residential development in the Township. A pathway along the corridor is critical to provide residents with safe, non-motorized access to the homes, churches, schools, parks, retail, and other places in the area.</p>							

White Lake Charter Township

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
BP-0006	Bogie Lake Road Pathway	New Construction	83	MDOT-EG; P&RF; MSRSP	\$1,303,000	\$703,000	\$600,000

Project Description

An important, long term, high-priority objective is the development of a Township wide system of pathways connected to the regional network. This pathway provides the north-south connection from M-59 (north) to the Township's southern boundary and connects a complex of 3 schools to neighborhoods throughout the length of the corridor.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
PK-0002	Four Seasons Trail (Phase I)	New Construction	67	MNRTFG; P&RF; USDOT	\$305,000	\$155,000	\$150,000

Project Description

An important, long-term, high-priority objective is the development of a township-wide pathways system. The ITC Corridor Four Seasons Trail provides a critical link between Pontiac Lake State Recreation Area and Highland Lake State Recreation Area, via the M-59 trailway. This route is included in the Oakland County Greenways Plan and should include state and regional financial participation. Construction of the trailway is expected to occur over several years.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
PK-0003	Four Seasons Trail (Phase I)	New Construction	67	MNRTFG; P&RF; USDOT	\$154,000	\$54,000	\$100,000

Project Description

An important, long-term, high-priority objective is the development of a township-wide pathways system. The ITC Corridor Four Seasons Trail provides a critical link between Pontiac Lake State Recreation Area and Highland Lake State Recreation Area, via the M-59 trailway. This route is included in the Oakland County Greenways Plan and should include state and regional financial participation. Construction of the trailway is expected to occur over several years.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
PK-0004	Four Seasons Trail (Phase III)	New Construction	67	MNRTFG; P&RF; USDOT	\$153,000	\$53,000	\$100,000

Project Description

An important, long-term, high-priority objective is the development of a township-wide pathways system. The ITC Corridor Four Seasons Trail provides a critical link between Pontiac Lake State Recreation Area and Highland Lake State Recreation Area, via the M-59 trailway. This route is included in the Oakland County Greenways Plan and should include state and regional financial participation. Construction of the trailway is expected to occur over several years.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
PK-0005	Brendel Lake Property Acquisition	Land Acquisition	58	MNRTFG; P&RF	\$700,000	\$231,000	\$469,000

Project Description

The Township has a long-range goal to protect sensitive properties in the Shiawassee-Huron headwaters chain of lakes. The Township anticipates establishing a 3-year budget for purchase of land and/or conservation easements in order to preserve this natural system for the enjoyment of current and future generations.

White Lake Charter Township

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
PK-0006	Oxbow/M-59 Park	New Construction	51	MDOT-EG; P&RF; MSRSP	\$964,000	\$464,000	\$500,000

Project Description  
Expansion of recreational land is critical to meet the needs of both existing and future residents, especially as vacant land becomes scarcer and the Township's population continues to grow. This mini-park site is anticipated to serve as a rest stop and possibly a trailhead along the M-59 Pathway.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
PK-0007	Brendel Lake Campground Acquisition	Land Acquisition	51	MNRTFG; P&RF	\$750,000	\$250,000	\$500,000

Project Description  
This former campground property has recently become available. Its location on Brendel Lake, a lake at the headwaters of the Shiawassee and Huron Rivers, makes it an essential element in the Townships quest to protect sensitive properties in the headwaters chain of lakes.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
PK-0008	Hidden Pines Park Development	New Construction	80	MNRTFG; P&RF, Passport Grant	\$964,000	\$464,000	\$500,000

Project Description  
This park would be developed using the Hidden Pines Park Master Plan that was put together using public comment in 2012. This park would offer a baseball field , playground ,as well as other park amenities. This park would provide residents in the northern portion of the Township with a neighborhood park .

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
PK-0009	Teggerdine Trail Development Design	New Construction	78	MNRTFG, P&RF	\$150,000	\$150,000	-

Project Description  
The Teggerdine Road Pathway would connect M-59 in the south to Indian Springs Metro Park in the north. This pathway would provide access at certain points to the Pontiac Lake Recreation Area. This pathway would connect to regional pathways through Indian Springs Metro Park, and through the potential development of a trail inside of the ITC transmission corridor in White Lake.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
PK-0010	Bloomer Park Phase II	New Construction	60	MNRTFG, P&RF	\$305,000	\$105,000	\$200,000

Project Description  
With the completion of Bloomer Parks Phase I redevelopment in 2013 the Township seeks to complete the restoration of the northern half of the park. The second phase of development would include completing the improved pathway network and providing other park amenities including park benches .

## 4e. CIP Components - Police Department

### Overview

The Township Police Department provides a variety of vital services to Township residents. The costs of operations and the demand for services create financial circumstances that are difficult to predict. In this CIP, special police equipment is listed as projects. Standard police cars are included as Internal Services under Fleet.

Police Department operations are funded by a major special revenue fund. Potential funding for projects can be from Police Fund balance, grants such as Homeland Security, drug forfeitures. The Police also have a four year operating millage that will collect from 2010 to 2013.

On the following page, each of the Police Department projects are listed along with their costing and potential funding sources.

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE CAPITAL IMPROVEMENTS PLAN PROJECT SUMMARY POLICE DEPARTMENT (PD)							
PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
PD-0002*	Mobile Command Center	New Equipment	65	Grants; Drug Forfeitures	\$ 151,000	\$ 151,000	\$--
<u>Project Description</u> A Mobile Command Center is a vehicle-based police facility, usually built around a motor home chassis. It allows command officers to provide on-scene command and control of large scale events or catastrophes.							

\* PD-0001 is the New Police Department Building, which has been combined with the multi-use Township facility described within the Facilities chapter as Project FA-0001.

## 4f. CIP Components - Sanitary Sewerage Disposal System

### Overview

Sanitary Sewerage Disposal Systems do not currently provide service to all Township residents. Sewerage Disposal Systems that do exist are operated by the Water Resources Commissioner for Oakland County.

The Township does not have a Sanitary Sewerage Disposal Enterprise Fund listed in the 2014 Comprehensive Annual Financial Report (CAFR). The CAFR does list a General Sewer Fund as a non-major special revenue fund for the Township.

Potential sources of funding for projects are the General Sewer Fund, Special Assessment District (SAD), State Revolving Fund (SRF) loan program or contributions from General Fund.

On the following page, each of the Sanitary Sewerage Disposal projects are listed along with their costing and potential funding sources.

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE  
CAPITAL IMPROVEMENTS PLAN  
PROJECT SUMMARY  
Sanitary Sewer (SS)

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
SS-0005	Western Outlet Sanitary Extension Phase Two	New Construction	80	SAD, SRF	\$2,240,000	\$2,240,000	\$--

Project Description

The proposed project will provide public force main sewer from the HVS Lakeland Campus north to M-59. The scope of the project will include the placement of 12" HDD directionally drilled pressure sewer (force main) with related appurtenances, pipe rework within the temporary diversion district, traffic control, pavement replacement, and restoration

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
SS-0006	Pump Station at Lakeland	New Construction	110	SAD,SRF	\$500,000	\$500,000	\$--

Project Description

Installation of intermediate booster pumping station on sanitary sewer force main consisting of two submersible pumps and building housing controls and generator.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
SS-0007	Meijer Pump Station Upgrade/ Replacement	Rehabilitation	130	SAD,SRF	\$250,000	\$250,000	\$--

Project Description

Replacement of pumping equipment, controls, and addition of VFD's (Variable Frequency Drive). VFD's will provide better system control and operational cost savings.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
SS-0008	Sanitary Sewer Pump Stations (7)	Rehabilitation	139	SAD,SRF	\$350,000	\$350,000	\$--

Project Description

Replacement of pumping equipment, controls, and addition of VFD's (Variable Frequency Drive). VFD's will provide better system control and operational cost savings.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
SS-0009	SCADA Equipment for Pump Stations	New Construction	143	SAD,SRF	\$60,000	\$60,000	\$--

Project Description

Upgrade SCADA at eight sanitary sewage pump stations to provide the Township real time data for operation, alarms, and control.

# 4g. CIP Components - Water Supply System

## Overview

The Municipal Water Supply System that is owned and operated by the Township and administered by the Water Department does not provide service to all Township residents. The Municipal Water Supply System derives its water from underground aquifers and is used for fire protection and domestic consumption. The Township does not purchase water from the City of Detroit Water and Sewerage Department. Many areas of the township currently operate with private wells as their source of potable water supply.

The Township has a Water Enterprise Fund listed in the 2014 Comprehensive Annual Financial Report (CAFR). This Water Fund is managed by the Township Water Department.

Potential sources of funding for Water Supply projects are the Water Fund balance, Drinking Water Revolving Fund (DWRF), revenue bonds, special assessment districts (SAD's), or contributions from General Fund.

In the following page, each of the Water Supply projects are listed along with their costing and potential funding sources.

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE  
CAPITAL IMPROVEMENTS PLAN  
PROJECT SUMMARY  
WATER SUPPLY (WS)

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0004	Twin Lakes I Well Replacement and Upgrades	Rehabilitation	126	DWRF, WF	\$373,675	\$373,675	\$--

Project Description

The Township proposes to install a new well and pump at Twin Lakes I well site to replace the smaller capacity well at the site. This will require discussion with the MDEQ water bureau, site investigation using test/production well(s) to evaluate aquifer capacities, engineering design, permitting, identifying funding sources, contract administration and construction

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0007	Additional Tank No. 1 Feed	New Construction	71	WF	\$90,000	\$90,000	\$--

Project Description

Additional water main connection within an easement between Newport Drive and Woodsedge Lane would provide an additional feed to the water storage tank. Currently, the 12-inch water main that fills the tank from Heritage Hills has head losses greater than 5 feet per 1,000 feet when all three pumps at Village Acres are in operation. Previous modeling indicated that the additional feed to the tank would lower the head losses to between 2 feet and 5 feet per 1,000 feet of pipe. This water main improvement would need to be funded by the Township. Easements from affected property owners in the Heritage Hills and Settlers Pointe subdivisions would need to be obtained.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0008	Aspen Meadows Iron Filtration and Sewer Connection	New Construction	87	DWRF	\$2,500,000	\$2,500,000	\$--

Project Description

The Township proposes to install a new iron filtration and sewer connection at Aspen Meadows well site. The iron filtration will help reduce iron and manganese at the lower used well house (about 6% of total water pumped) and second highest iron amount.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0010	SCADA Tower Replacement and GENSET	Rehabilitation	80	WF, DWRF	\$52,000	\$52,000	\$--

Project Description

Replace Supervisory Control and Data Acquisition (SCADA) Tower at Water Office with a new tower, romex cable, new cement pad with anchors and locate at least 170 feet to the east on Highland Road. The current tower is twenty five years old and is oxidizing at the bolts and bottom tower brackets. The current tower is near the end of its life cycle. Also, the Water Department will need to upgrade the onsite gen set to backup the SCADA system .

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE CAPITAL IMPROVEMENTS PLAN PROJECT SUMMARY WATER SUPPLY (WS)							
PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0011	Water Main Extension Bogie Lake Road (M-59 to Cedar Island)	New Construction	90	WF,DWRF	\$2,500,000	\$2,500,000	\$--
<p><u>Project Description</u> 12 Inch Diameter Water Main Extension along Bogie Lake Road from M-59 to the South to Cedar Island Road or Lakeland High School Campus bolts and bottom tower brackets. The current tower is near the end of its life cycle. Also, the Water Department will need to upgrade the onsite gen set to backup the SCADA system.</p>							

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0012	6-Inch Water Main Replacement (9,000ft)	Rehabilitation	114	WF, DWRF	\$2,275,000	\$2,275,000	\$--
<p><u>Project Description</u> Replace 6-inch diameter water main in Colony Heights, Twin Lakes Village, and Suburban Knolls for better system pressures and fire flows.</p>							

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0013	VFD Installation on Seven (7) Well Pumps	Rehabilitation	123	WF, DWRF	\$140,000	\$140,000	\$--
<p><u>Project Description</u> Install VFDs (Variable Frequency Drive) on well pumps for better system control and energy cost savings.</p>							

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0014	SCADA System Updates	Rehabilitation	146	WF, DWRF	\$52,500	\$52,500	\$--
<p><u>Project Description</u> Install SCADA for better system monitoring, alarming, and control.</p>							

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE  
CAPITAL IMPROVEMENTS PLAN  
PROJECT SUMMARY  
WATER SUPPLY (WS)

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0015	Twin Lakes Well House Upgrades	Rehabilitation	108	WF, DWRP	\$150,000	\$150,000	\$--

Project Description

Update controls, piping, and instrumentation to allow efficient operation of the Twin Lakes well house.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0016	Hillview Well House Upgrades	Rehabilitation	108	WF, DWRP	\$200,000	\$200,000	\$--

Project Description

Update controls, piping, and instrumentation to allow efficient operation of the Hillview well house.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0017	High Pressure Districts Elizabeth Lake Road	New Construction	90	WF, DWRP	\$3,125,000	\$3,125,000	\$--

Project Description

The interconnect will allow the high pressure district to utilize both elevated towers for storage at Aspen Meadows and Village Acres well houses for water supply. This will increase system reliability.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0018	Residual Chlorine Analyzer for Water Towers	New Construction	146	WF, DWRP	\$50,000	\$50,000	\$--

Project Description

Residual Chlorine Analyzers will allow monitoring of water quality both in an out of the Townships water towers. It will allow adjustments of chlorine feed rates to maintain minimum chlorine residuals throughout the water system as required by regulations.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0019	Meter Replacement	Rehabilitation	82	WF, DWRP	\$750,000	\$750,000	\$--

Project Description

The water system meters in older subdivisions are reaching, or exceeding their useful life. As meters age they deteriorate and develop inaccuracies in readings. Replacing meters will provide homeowners with the proper readings and provide accurate billing of water usage.



Excerpt from the Michigan Planning Enabling Act of 2008:

**MICHIGAN PLANNING ENABLING ACT (EXCERPT)  
Act 33 of 2008**

**125.3865 Capital improvements program of public structures and improvements; preparation; basis.**

Sec. 65.

(1) To further the desirable future development of the local unit of government under the master plan, a planning commission, after adoption of a master plan, shall annually prepare a capital improvements program of public structures and improvements, unless the planning commission is exempted from this requirement by charter or otherwise. If the planning commission is exempted, the legislative body either shall prepare and adopt a capital improvements program, separate from or as a part of the annual budget, or shall delegate the preparation of the capital improvements program to the chief elected official or a nonelected administrative official, subject to final approval by the legislative body. The capital improvements program shall show those public structures and improvements, in the general order of their priority, that in the commission's judgment will be needed or desirable and can be undertaken within the ensuing 6-year period. The capital improvements program shall be based upon the requirements of the local unit of government for all types of public structures and improvements. Consequently, each agency or department of the local unit of government with authority for public structures or improvements shall upon request furnish the planning commission with lists, plans, and estimates of time and cost of those public structures and improvements.

(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 1 or more other local units of government, owns or operates a water supply or sewage disposal system.

**History:** 2008, Act 33, Eff. Sept. 1, 2008

**Charter Township of White Lake  
Capital Improvement Plan – Project Application**

Project Title: [Click here to enter text.](#)  
Program Area: [Choose an item.](#)  
Prepared By: [Click here to enter text.](#)  
Date Prepared: [Click here to enter a date.](#)  
CIP ID #: [Click here to enter text.](#)

---

**Project Description:** Provide a brief (1-2 paragraph) description of project:

[Click here to enter text.](#)

---

**Planning Context:** Is the project part of an Adopted Program, Policy or Plan?

Yes or No

[Choose an item.](#) If yes, identify Program, Policy or Plan

[Click here to enter text.](#)

**List** the adopted program or policy, and how this project directly or indirectly meets these objectives:

[Click here to enter text.](#)

---

**Planning Context:** Is the Township Legally Obligated to perform this service? (E.G. Federal or State Law, Consent Judgment, etc.)

Yes or No

[Choose an item.](#)

If yes, please describe Township's Obligation:

[Click here to enter text.](#)

---

**Schedule:** Estimated project beginning and ending dates. If project will take several years to complete, fill out Form 2. If applicable, be sure to include any work done in prior years, including studies or other planning:

[Click here to enter text.](#)

---

**Coordination:** Please identify if this project is dependant upon one or more other CIP projects, and describe what the relationship is:

[Click here to enter text.](#)

---

**Project Priority:** Low, Medium, High

[Choose an item.](#) Priority within Program Area

[Choose an item.](#) Priority for the Township

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Form 1 - Page 1 of 2

### Capital Improvement Plan – Project Application

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**Prior Approval:** Is this project included the prior year's budget?  
Has this project been approved by the Township Board, Commission or Authority?

Yes or No  
Choose an item.  
If Yes, Choose an item.

---

**Total Estimated Cost:** In today's dollars (Amount shown here should agree with total on Form 2)

[Click here to enter text.](#)  
List all funding options available for this project.

[Click here to enter text.](#)

Recommended funding option(s) to be used? (i.e: Operating Revenues, Grants, Fund Balance, Bond Issue etc...)

[Click here to enter text.](#)

---

**Basis of Cost Estimate:** Please check the following

[Choose an item.](#)

---

**Impacts.** Describe potential loss of service, benefit or opportunity if the project is not included in the C.I.P.

[Click here to enter text.](#)

CHARTER TOWNSHIP OF WHITE LAKE  
 Capital Improvement Plan  
 Project Cost Detail

Project ID \_\_\_\_\_  
 Category \_\_\_\_\_

	Prior Year	Budget Year	Budget Year 2	Budget Year 3	Budget Year 4	Budget Year 5	Budget Year 6	Totals	TWP Share
<b>Project Construction Components</b>									
Preliminary Engineering								\$ -	-
Right of Way or Easement Services								\$ -	-
Land Acquisition								\$ -	-
Geotechnical Engineering								\$ -	-
Environmental Services								\$ -	-
Contractor payments								\$ -	-
Construction Engineering								\$ -	-
Depreciable equipment or facilities								\$ -	-
Post Construction Monitoring								\$ -	-
Finance Costs								\$ -	-
Other Construction Costs								\$ -	-
<b>Total Construction Cost</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Operating Costs</b>									
Contracted Services								0	-
Staff								0	-
Routine Maintenance								0	-
Utilities, Insurance, Communication								0	-
Other								0	-
<b>Total Operating Cost</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Project Cost</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE  
Capital Improvement Plan  
Project Evaluation Form

Project ID \_\_\_\_\_

Rater Name:	Score Range	Rater Score	Weight	Total Points
<b>1. Contribution to Health, Safety &amp; Welfare</b>			5	0
Eliminates a known hazard (accident history)	5			
Eliminates a potential hazard	4			
Materially contributes	3			
Minimally contributes	1			
No impact	0			
<b>2. Project Needed to Comply with Local, State or Federal Law</b>			5	0
Yes	5			
No	0			
<b>3. Project Conforms to Adopted Program, Policy or Plan</b>			4	0
Project is consistent with adopted City Council policy or plan	5			
Project is consistent with Administrative policy	3			
No policy / plan in place	0			
<b>4. Project Remediates as Existing or Projected Deficiency</b>			3	0
Completely Remedy Problem	5			
Partially Remedy Problem	3			
No	0			
<b>5. Will Project Upgrade Facilities</b>			3	0
Rehabilitates / upgrades existing facility	5			
Replaces existing facility	3			
New facility	1			
<b>6. Contributes to Long-term Needs of Community</b>			2	0
More than 30 years	5			
21 - 30 years	4			
11 - 20 years	3			
4 - 10 years	2			
3 years or less	1			
<b>7. Annual Impact on Operating Costs Compared to Operating Costs assuming the project proceeds</b>			2	0
Net Cost Savings	5			
No Change	4			
Minimal increase (>\$25,000)	3			
Moderate Increase (\$25,000 - \$100,000)	2			
Major Increase (>\$100,000)	1			
<b>8. Annual Impact on Operating Costs Compared to Operating Costs assuming the project does not proceed</b>			2	0
Major Impact (> \$100,000)	5			
Moderate Impact (\$50,000 - \$100,000)	3			
Minor Impact (\$25,000-\$50,000)	2			
Minimal Impact (< \$25,000)	1			
None	0			
<b>9. Service Area of Project</b>			2	0
Regional	5			
Township-Wide	4			
Several neighborhoods	3			
One neighborhood or less	1			
<b>10. Department Priority</b>			2	0
High	5			
Medium	3			
Low	1			
<b>11. Project Delivers Level of Service Desired by Community</b>			2	0
High	5			
Medium	3			
Low	1			



PROJECT SUMMARY

Project Number	Project Title	Category	Status	Potential Funding Sources	Township		To Date		Budget Year 2017		Budget Year 2018		Budget Year 2019		Budget Year 2020		Budget Year 2021		Budget Year 2022		Remarks				
					Project Total	Township Share	Other Funding	Project Total	Township Share																
BP-0002	M-55 Parkway Phase II	Rehabilitation	98	MNDOT-EG, PARF	\$ 454,000	\$ 154,000	\$ 300,000	\$ -	\$ -	\$ -	\$ 36,000	\$ 36,000	\$ 414,000	\$ 114,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	MNDOT-EG Funding (\$50,000)		
BP-0003	M-55 Parkway Phase II	Rehabilitation	98	MNDOT-EG, PARF	\$ 454,000	\$ 154,000	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,000	\$ 39,000	\$ 413,000	\$ 113,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	MNDOT-EG Funding (\$50,000)	
BP-0004	M-55 Parkway Phase III	Rehabilitation	98	MNDOT-EG, PARF	\$ 452,000	\$ 152,000	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 32,000	\$ 32,000	\$ 418,000	\$ 118,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	MNDOT-EG Funding (\$50,000)	
BP-0005	Bevel Lake Road Parkway	New Construction	98	MNDOT-EG, RCOCTP, PARF	\$ 597,000	\$ 317,000	\$ 280,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45,000	\$ 45,000	\$ 650,000	\$ 300,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	MNDOT-EG and RCOCTP Funding (\$250,000)	
BP-0006	Bevel Lake Road Parkway	New Construction	83	MNDOT-EG, PARF, MESP	\$ 1,933,000	\$ 793,000	\$ 600,000	\$ -	\$ -	\$ 80,000	\$ 80,000	\$ 90,000	\$ 90,000	\$ 850,000	\$ 500,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	MNDOT-EG and MESP Funding (\$600,000)	
PK-0001	Four Seasons Trail (Phase II)	New Construction	62	MNDOT-EG, PARF, USDOT	\$ 455,000	\$ 155,000	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 450,000	\$ 150,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	MNDOT-EG Funding (\$50,000)	
PK-0002	Four Seasons Trail (Phase III)	New Construction	62	MNDOT-EG, PARF, USDOT	\$ 454,000	\$ 154,000	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 450,000	\$ 150,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	MNDOT-EG Funding (\$25,000)	
PK-0003	Bevel Lake Parkway Acquisition	Land Acquisition	54	MNDOT-EG, PARF	\$ 700,000	\$ 211,000	\$ 489,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 117,000	\$ 117,000	\$ 285,000	\$ 87,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	MNDOT-EG Funding (\$75,000)	
PK-0004	Channahon Park	New Construction	51	MNDOT-EG, PARF, MESP	\$ 250,000	\$ 84,000	\$ 176,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ 85,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	MNDOT-EG and MESP Funding (\$15,000)	
PK-0005	Bevel Lake Campground Acquisition	Land Acquisition	51	MNDOT-EG, PARF	\$ 750,000	\$ 224,000	\$ 526,000	\$ -	\$ -	\$ -	\$ 750,000	\$ 250,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	MNDOT-EG Acquisition Grant Funding (\$50,000)	
PK-0006	Hobson Pines Park Development	New Construction	60	MNDOT-EG, PARF	\$ 364,000	\$ 464,000	\$ 500,000	\$ -	\$ -	\$ 35,000	\$ 35,000	\$ 700,000	\$ 360,000	\$ 225,000	\$ 75,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	MNDOT-EG
PK-0007	Traverse Trail Development Design	New Construction	73	MNDOT-EG, PARF	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	MNDOT-EG
PK-0010	Shomer Park Phase II Development	New Construction	65	MNDOT-EG, PARF	\$ 305,000	\$ 105,000	\$ 200,000	\$ -	\$ -	\$ 20,000	\$ 20,000	\$ 300,000	\$ 100,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	MNDOT-EG Funding (\$500,000)
Subtotal					\$ 4,139,000	\$ 1,811,000	\$ 4,119,000	\$ -	\$ -	\$ 265,000	\$ 265,000	\$ 370,000	\$ 1,239,000	\$ 1,000,000	\$ 1,461,000	\$ 394,000	\$ 1,027,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	

WA-0004	Two Lanes to Four Lane Upgrade	Rehabilitation	126	DWRP, WF	\$ 200,000	\$ 383,672	\$ (183,672)	\$ -	\$ -	\$ 65,000	\$ 24,000	\$ 373,672	\$ 373,672	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	DWRP	
WA-0007	Aspen Road No. 5 Rep	New Construction	73	WF	\$ 90,000	\$ 90,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,000	\$ 8,000	\$ 80,000	\$ 80,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
WA-0008	Aspen Meadows Int. Filtration and Sewer connection	Rehabilitation	87	DWRP, WF	\$ 2,602,000	\$ 2,112,000	\$ 390,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 390,000	\$ 390,000	\$ 1,055,000	\$ 1,055,000	\$ 1,055,000	\$ 1,055,000	\$ 1,055,000	\$ 1,055,000	\$ 1,055,000	\$ 1,055,000	
WA-0010	SCADA Server Upgrade and SERVICE	New Equipment	180	WF	\$ 200,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
WA-0011	Water Main Extension Bogie Lake (M-55 to Cedar) Project	New Construction	90	DWRP, WF	\$ 2,659,000	\$ 2,659,000	\$ -	\$ -	\$ -	\$ -	\$ 55,000	\$ 55,000	\$ 4,000,000	\$ 4,000,000	\$ 2,000,000	\$ 2,000,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	
WA-0012	Landfill Closure Waste Mgmt. Replacement (0.100 I.)	Rehabilitation	DWRP, WF	\$ 2,275,000	\$ 2,275,000	\$ -	\$ -	\$ -	\$ -	\$ 149,000	\$ 149,000	\$ 758,533	\$ 758,533	\$ -	\$ -	\$ 758,533	\$ 758,533	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
WA-0013	WPS Limited-use Access Road Closure	Rehabilitation	DWRP, WF	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
WA-0014	SCADA System Upgrade at several sites	Rehabilitation	DWRP, WF	\$ 52,500	\$ 52,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
WA-0015	Traverse Trail Road Project	Rehabilitation	DWRP, WF	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
WA-0016	Shelby West House Upgrade	Rehabilitation	DWRP, WF	\$ 200,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 125,000	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
WA-0017	Interconnection of Main Pressure Districts (Elizabeth Lake Road)	New Construction	DWRP, WF	\$ 3,125,000	\$ 3,125,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000		
WA-0018	Residual Chlorine Analysis @ both Traverses	New Construction	DWRP, WF	\$ 14,000	\$ 14,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
WA-0019	Residential and Commercial Meter Replacement w/ AMR System	New Construction	DWRP, WF	\$ 750,000	\$ 750,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 750,000	\$ 750,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Subtotal					\$ 12,827,000	\$ 12,891,174	\$ 264,325	\$ -	\$ -	\$ 1,851,500	\$ 1,835,500	\$ 1,832,000	\$ 1,832,000	\$ 5,285,000	\$ 5,285,000	\$ 1,833,333	\$ 474,000	\$ 1,498,000	\$ 1,498,000	\$ 1,498,333	\$ 1,498,333	\$ 1,498,333	\$ 1,498,333	\$ 1,498,333	

SE-0004	Wagon Outlet Services Extension, Phase II	New Construction	87	SAD, SRF	\$ 663,000	\$ 663,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	
SE-0006	Pump Station at Lakeside High School (when necessary)	New Construction	SAD, SRF	\$ 500,000	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SE-0007	Upgrade & Equipment Replacement of Water Pump Station	Rehabilitation	SAD, SRF	\$ 250,000	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	
SE-0008	Upgrade & Equipment Replacement of 2 Traverses, Arapago Pump Station	Rehabilitation	SAD, SRF	\$ 300,000	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	
SE-0009	SCADA Equipment to Monitor Standby Sewage Pump Stations @	New Construction	SAD, SRF	\$ 40,000	\$ 40,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	
Subtotal					\$ 1,173,000	\$ 1,173,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 328,000	\$ 328,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	

PD-0002	Mobile Command Center	New Equipment	85	Grants, Drug Penalties	\$ 153,000	\$ 153,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 151,000	\$ 151,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	
Subtotal					\$ 153,000	\$ 153,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 151,000	\$ 151,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	

FP-0001	Fire Station West Acquisition	Land Acquisition	110	Grant, Bond Issue, BA	\$ 500,000	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
FP-0002	Fire Station West Renovation	New Construction	126	Grant, Bond Issue, BA	\$ 1,719,000	\$ 1,719,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ 50,000	\$ 1,600,000	\$ 1,600,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	
FP-0004	Fire Station West Acquisition	New Construction	110	Grant, Bond Issue, BA	\$ 3,331,000	\$ 3,331,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,200,000	\$ 3,200,000	\$ 17,000	\$ 17,000	\$ 38,000	\$ 38,000	\$ 38,000	\$ 38,000	\$ 38,000	\$ 38,000	\$ 38,000	\$ 38,000	
FP-0005	Fire Station West Renovation	New Construction	126	Grant, Bond Issue, BA	\$ 1,719,000	\$ 1,719,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ 50,000	\$ 1,600,000	\$ 1,600,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	
FP-0006	Fire Station West Renovation	New Construction	126	Grant, Bond Issue, BA	\$ 1,719,000	\$ 1,719,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ 50,000	\$ 1,600,000	\$ 1,600,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	
FP-0008	Fire Truck Tank	New Equipment	108	PPP	\$ 700,000	\$ 700,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	
FP-0009	Fire Station No. 2 Addition	New Construction	112	Grant, Bond Issue, BA, GP	\$ 349,000	\$ 349,000	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ 300,000													

