

GENOA CHARTER TOWNSHIP BOARD
Regular Meeting
June 15, 2015
6:30 p.m.

AGENDA

Call to Order:

Pledge of Allegiance:

Call to the Public*:

Approval of Consent Agenda:

1. Payment of Bills.
2. Request to Approve Minutes: June 1, 2015
3. Request to approve a fireworks display at 10 p.m. July 4, 2015 on Lake Chemung at 5393 Wildwood.
4. Request to approve a fireworks display at 10 p.m. July 4, 2015 on Crooked Lake at the Oak Pointe Country Club.
5. Request to approve Laptop and Tablet upgrades at a cost of \$8,645.84.

Approval of Regular Agenda:

6. Request to approve the 2015/16 Howell Parks and Recreation Budget.
7. Request to approve the 2015-2021 Capital Improvement Program as presented.

Correspondence
Member Discussion
Adjournment

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| <p>*Citizen's Comments- In addition to providing the public with an opportunity to address the Township Board at the beginning of the meeting, opportunity to comment on individual agenda items may be offered by the Chairman as they are presented.</p> |
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CHECK REGISTERS FOR TOWNSHIP BOARD MEETING

DATE: June 15, 2015

| | |
|---|---------------------|
| TOWNSHIP GENERAL EXPENSES: Thru June 15, 2015 | \$105,138.79 |
| June 5, 2015 Bi Weekly Payroll | \$78,715.72 |
| OPERATING EXPENSES: June 15, 2015 | \$119,919.26 |
| TOTAL: | <u>\$303,773.77</u> |

Accounts Payable
Computer Check Register

Genoa Township

2911 Dorr Road
Brighton, MI 48116

(810) 227-5225

User: cindy

Printed: 05/28/2015 - 12:39

Bank Account: 101CH

| Check | Vendor No | Vendor Name | Date | Invoice No | Amount |
|--------------------|-----------|------------------------------|------------|------------|--|
| 13342 | EFT-FED | EFT- Federal Payroll Tax | 06/05/2015 | | 7,995.64 4,595.42 4,595.42 1,074.75 1,074.75 |
| Check 13342 Total: | | | | | 19,335.98 |
| 13343 | EFT-PENS | EFT- Payroll Pens Ln Pyts | 06/05/2015 | | 2,730.69 |
| Check 13343 Total: | | | | | 2,730.69 |
| 13344 | EFT-PRIN | EFT-Principal Retirement 457 | 06/05/2015 | | 1,095.00 |
| Check 13344 Total: | | | | | 1,095.00 |
| 13345 | EFT-ROTH | EFT-Principal Roth | 06/05/2015 | | 615.00 |
| Check 13345 Total: | | | | | 615.00 |
| 13346 | EFT-TASC | EFT-Flex Spending | 06/05/2015 | | 1,034.97 |
| Check 13346 Total: | | | | | 1,034.97 |
| 13347 | FIRST NA | First National Bank | 06/05/2015 | | 3,550.00 50,354.08 |

Check 13347 Total:

53,904.08

Report Total:

78,715.72

| <u>Check Number</u> | <u>Vendor No</u> | <u>Vendor Name</u> | <u>Check Date</u> | <u>Check Amount</u> |
|---------------------|------------------|--------------------------------------|-------------------|---------------------|
| 31844 | A T & T | A T & T | 06/01/2015 | 50.26 |
| 31845 | BYRWA | David Byrwa | 06/01/2015 | 150.00 |
| 31846 | COMCAST | Comcast | 06/01/2015 | 136.87 |
| 31847 | DTE EN | DTE Energy | 06/01/2015 | 138.47 |
| 31848 | Duncan | Duncan Disposal Systems | 06/01/2015 | 79,270.27 |
| 31849 | ESRI INC | Environmental Systems Research Inst. | 06/01/2015 | 5,600.00 |
| 31850 | J & P | J & P Carpentry, LLC | 06/01/2015 | 85.00 |
| 31851 | KERNE | Erik Kern | 06/01/2015 | 50.00 |
| 31852 | SELCRA | Selcra | 06/01/2015 | 7,500.00 |
| 31853 | SPIRIT L | Spirit Of Livingston | 06/01/2015 | 128.28 |
| 31854 | StateOfM | State of Michigan | 06/01/2015 | 6,571.59 |
| 31855 | CES | C.E.S. | 06/03/2015 | 36.98 |
| 31856 | Perfect | Perfect Maintenance Cleaning | 06/03/2015 | 3,190.00 |
| 31857 | US BANK | U.S. Bank | 06/03/2015 | 1,301.08 |
| 31858 | AMER IMA | Applied Imaging | 06/08/2015 | 16.64 |
| 31859 | Clearwat | Clearwater Systems | 06/08/2015 | 84.50 |
| 31860 | COMCAST | Comcast | 06/08/2015 | 324.02 |
| 31861 | CONTINEN | Continental Linen Service | 06/08/2015 | 102.90 |
| 31862 | MASTER M | Master Media Supply | 06/08/2015 | 301.29 |
| 31863 | OFF EXPR | Office Express | 06/08/2015 | 100.64 |

Report Total:

105,138.79

CK# 31841 - 31843 - VOID

11:31 AM

#503 DPW UTILITY FUND

Payment of Bills

May 26 through June 8, 2015

| Type | Date | Num | Name | Memo | Amount |
|-----------------|------------|------|------------------------|--|------------------|
| Bill Pmt -Check | 05/29/2015 | 3234 | Business Imaging Group | Business Cards MHOG Brian Hewlett | -52.44 |
| Bill Pmt -Check | 05/29/2015 | 3235 | Greg Tataro | Monthly Car Allowance -June | -500.00 |
| Bill Pmt -Check | 05/29/2015 | 3236 | HUMPHRISS | Monthly Car Allowance -June | -250.00 |
| Bill Pmt -Check | 06/02/2015 | 3237 | Genoa Township | Reimburse-Flex Spending-Martin Reich -Term | -1,569.30 |
| Bill Pmt -Check | 06/05/2015 | 3238 | State of Michigan (2) | Industrial Storm Water Exam Payment-Greg Tal | -30.00 |
| Total | | | | | -2,401.74 |

11:35 AM
06/08/15

#595 PINE CREEK W/S FUND

Payment of Bills

May 26 through June 8, 2015

| Type | Date | Num | Name | Memo | Amount |
|-----------------|------------|------|----------------------|--|-------------------|
| Bill Pmt -Check | 05/29/2015 | 2145 | GENOA TWP - DPW FUNC | Utility Billing Dated 12-15-14 | -3,473.04 |
| Bill Pmt -Check | 06/04/2015 | 2146 | City of Brighton | Rollins Construction-5917 Hartford Way Brigh | -9,460.00 |
| Total | | | | | -12,933.04 |

11:33 AM
06/08/15

#593 LAKE EDGEWOOD W/S FUND

Payment of Bills

May 26 through June 8, 2015

| Type | Date | Num | Name | Memo | Amount |
|-----------------|------------|------|----------------------------|--------------------------------|------------------|
| Bill Pmt -Check | 05/29/2015 | 2753 | GENOA TWP DPW FUND | Utility Billing Dated 12/15/14 | -1,032.93 |
| Bill Pmt -Check | 06/02/2015 | 2754 | Brighton Analytical L.L.C. | | -747.00 |
| Total | | | | | -1,779.93 |

11:29 AM

#592 OAK POINTE WATER/SEWER FUND

Payment of Bills

May 26 through June 8, 2015

| Type | Date | Num | Name | Memo | Amount |
|-----------------|------------|------|---------------------------------|---|--------------------|
| Bill Pmt -Check | 05/29/2015 | 3331 | AT & T | Telephone Internet Service May 12 thru June 11, | -65.00 |
| Bill Pmt -Check | 05/29/2015 | 3332 | Larry King | Reimbursement for sewer backup | -51.95 |
| Bill Pmt -Check | 06/02/2015 | 3333 | BRIGHTON ANALYTICAL, LLC | Laboratory costs | -335.00 |
| Bill Pmt -Check | 06/02/2015 | 3334 | Genoa Twp Oak Pointe Sewer Bond | Payment on Sewer Bond | -101,608.52 |
| Bill Pmt -Check | 06/08/2015 | 3335 | CONSUMERS ENERGY | 4505 Club Dr and 5341 Brighton Rd | -78.42 |
| Bill Pmt -Check | 06/08/2015 | 3336 | DTE ENERGY | Electric bills | -675.66 |
| Total | | | | | -102,814.55 |

GENOA CHARTER TOWNSHIP BOARD
Regular and Public Hearing Meeting
June 1, 2015

MINUTES

Manager Archinal called the regular meeting of the Board to order at 6:30 p.m. at the Township Hall. The Pledge of Allegiance was then said. The following board members were present constituting a quorum for the transaction of business: Paulette Skolarus, Robin Hunt, Jim Mortensen, Linda Rowell, Todd Smith and Jean Ledford. Also present were Township Manager Michael Archinal, Township Attorney Frank Mancuso and 15 persons in the audience.

Clerk Skolarus asked that the board appoint Todd Smith as Chairman in lieu of the absence of McCririe. Moved by Hunt and supported by Rowell to approve the appointment for this meeting. The motion carried unanimously.

A Call to the Public was made with no response.

Approval of Consent Agenda:

Moved by Rowell and supported by Mortensen to approve all items under the consent agenda as requested. The motion carried unanimously.

1. Payment of Bills.

2. Request to Approve Minutes: May 18, 2015

3. Request to approve the Assessor's affidavit of the 2015 Millage levies for Genoa Charter Township establishing the Millage Rate at 0.8146 as requested by Debra Rojewski.

Approval of Regular Agenda:

Moved by Hunt and supported by Rowell to approve for action all items listed under the regular agenda. The motion carried unanimously.

4. Consideration of PUD Amendment, environmental impact assessment and site plan for a proposed 60,000 square foot, three-story medical office building located on parcel 4711-09-100-036 at 1201 S. Latson Road, Howell, Michigan as petitioned by Providence Health System.

a. Disposition of PUD Amendment received on 5/21/15.

Moved by Mortensen and supported by Ledford to approve the agreement with the following changes or conditions:

- Reducing the front yard parking setback from 20' to 0' in consideration of the old right-of-way for Latson Road
- Allow for small delivery truck loading in the front yard
- The gateway feature will be considered as part of phase 2 of the medical office building or upon construction of one of the out-lots
- A final review by the township attorney

The motion carried unanimously.

b. Disposition of Environmental Impact Assessment revised on 5/4/15.

Moved by Hunt and supported by Ledford to approve the impact assessment as submitted. The motion carried unanimously.

c. Disposition of Site Plan revised on 5/20/15.

Moved by Skolarus and supported by Ledford to approve the site plan with the following conditions:

- This approval is only for the phase one medical office building. Future phases and/or development of out-lots will require site plan review and approval.
- The proposed building colors and materials as shown in the renderings are subject to verification by Township Staff that they are consistent with what was presented to the Planning Commission.
- Building material sample boards will become Township property.
- The pedestrian crossing signs in the north/south marked walkway should be increased and placed so they are oriented to motorists in the drive aisles.
- Easements for sanitary sewer and water shall be provided prior to issuance of a land use permit.
- Construction plan review and approval shall be required by the MHOG Utility System.
- Connection fees shall be paid upon issuance of a land use permit.

The motion carried unanimously.

5. Consideration of a rezoning (Ordinance Z-15-02) for parcels 4711-11-300-021, 4711-11-300-27, and 4711-11-300-28 totaling approximately 4.19 acres located in Section 11 at 6253 Grand River Avenue, Howell. The requested rezoning is to remove the Town Center Overlay District from the property which will change the zoning from General Commercial District/Town Center Overlay (GCD/TC) to General Commercial District (GCD). The request is petitioned by Chestnut Development, LLC.

A Call to the Public was made with no response.

Moved by Rowell and supported by Skolarus to adopt Ordinance Z-15-02 as submitted. This zoning complies with Section 22.04 of the Township Zoning Ordinance and is consistent with the existing developed properties in the neighborhood. The motion carried by roll call vote as

follows: Ayes – Ledford, Hunt, Rowell, Mortensen, Skolarus and Smith. Nays - None. Absent – McCririe.

6. Consideration of an environmental impact assessment corresponding to a site plan for a proposed 15,480 sq. ft. office building located at 6253 Grand River Avenue between Hughes Road and Kellogg Road on parcels 4711-11-300-021, 27, and 28. The request is petitioned by Chestnut Development, LLC.

Moved by Rowell and supported by Skolarus to approve the impact assessment with the following conditions:

- The three lots shall be combined into one parcel.
- The number of REU's shall be indicated in the impact assessment as follows: Using "Office Buildings" each proposed building requires 2.2 REUs. This amount will be subject to increase if medical office or another user is proposed as provided in the Equivalent User Table.
- Language shall be added to the impact assessment regarding banked parking for phase 2.
- A statement that no large trucks will use the site shall be added.
- A copy of the DEQ permit will be provided.

The motion carried unanimously.

7. Consider approval of a request to the Livingston County Road Commission for a speed study on McClements Road between Kellogg and Hacker.

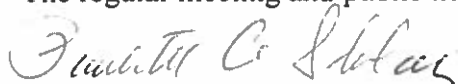
A call to the public was made with the following response: Matt Foisy – A reduction in speed is needed for this area. *Note: Correspondence to that affect was received from Mr. Foisy.* Moved by Ledford and supported by Rowell to request a speed study from the Livingston County Road Commission for McClements Road between Kellogg and Hacker. The motion carried unanimously.

8. Discussion of newsletter articles to be included in the summer tax bills.

No objections were raised with regard to the newsletter.

Note: Genoa Township Offices will be closed Wednesday, June 3, 2015 from 1:30 p.m. until 5:00 p.m. to allow staff to attend the memorial service for Karen Saari.

The regular meeting and public hearing of the board was adjourned at 7:10 p.m.



Paulette A. Skolarus, Clerk

Gary McCririe, Supervisor

| | |
|-------------|--|
| PREPARED BY | |
| DATE | |

June 4, 2015

To Whom It May Concern:

NFPA requires 350' dia from center of vertical 5" mortars. We will meet that requirement by being 350' from waters edge. This will be shot by remote from shore. No display operator will be aboard the barges.

For perimeter safety, the sheriff or DNR should patrol shoot area prior to and during the display (which I understand has already been arranged).

Any and all fireworks will be delivered to the shoot site on the morning of the display. No fireworks will be stored at the shoot site. Any explosives not detonated at the display will be picked up and returned to the magazines the same evening.

Sincerely,
Joe Cybart
Phoenix Fireworks

2015

Application for Fireworks Other Than Consumer or Low Impact
 Michigan Department of Licensing & Regulatory Affairs
 Bureau of Fire Services
 P.O. Box 30700
 Lansing MI 48909
 (517) 241-8847

| | | |
|---|---|--|
| Authority: 2011 PA 258 Compliance: Voluntary Penalty: Permit will not be issued | The Department of Licensing & Regulatory Affairs will not discriminate against any individual or group because of race, sex, religion, age, national origin, color, marital status, disability, or political beliefs. If you need assistance with reading, writing, hearing, etc., under the Americans with Disabilities Act, you may make your needs known to this agency. | |
| <input type="checkbox"/> Agricultural or wildlife fireworks | | <input type="checkbox"/> Articles Pyrotechnic |
| <input type="checkbox"/> Special effects manufactured for outdoor pest control or agricultural purposes | | <input checked="" type="checkbox"/> Public Display |
| | | <input type="checkbox"/> Display Fireworks |
| | | <input type="checkbox"/> Private Display |
| NAME OF APPLICANT Kurt Price | ADDRESS 5393 Wildwood Howell | AGE (18 or over) |
| IF A CORPORATION, NAME OF PRESIDENT | ADDRESS | |
| IF A NON-RESIDENT APPLICANT, NAME OF MICHIGAN ATTORNEY OR RESIDENT AGENT | ADDRESS | TELEPHONE NUMBER |
| NAME OF PYROTECHNIC OPERATOR Joseph S. Cybart | ADDRESS 6294 Lucerne Brighton | AGE (18 or over) 52 |
| NO. YEARS EXPERIENCE 15+ | NO. DISPLAYS 40+ | WHERE Michigan & Indiana |
| NAME OF ASSISTANT Steven J. Cybart | ADDRESS 6294 Lucerne Brighton | AGE 29 |
| NAME OF OTHER ASSISTANT Dale Hiske | ADDRESS 6199 Rivers Edge Howell | AGE |
| EXACT LOCATION OF PROPOSED DISPLAY 5393 Wildwood Dr Howell 350 St. NE Storm Waters Edge Lake Chemung | | |
| DATE OF PROPOSED DISPLAY 7-4-15 | TIME OF PROPOSED DISPLAY 10 P.M. | |
| MANNER AND PLACE OF STORAGE, SUBJECT TO APPROVAL OF LOCAL FIRE AUTHORITIES, IN ACCORDANCE WITH NFPA 1123, 1124 & 1126 AND OTHER STATE OR FEDERAL REGULATIONS. PROVIDE PROOF OF PROPER LICENSING OR PERMITTING BY STATE OR FEDERAL GOVERNMENT. Storage at 880 Deadwood - Brighton - Magazines 1 & 2 Federal ATF License # 4-MI-093-24-3E-00957 | | |
| AMOUNT OF BOND OR INSURANCE (To be set by local government) \$ 1,000,000 | NAME OF BONDING CORPORATION OR INSURANCE COMPANY Lloyds of London | |
| ADDRESS OF BONDING CORPORATION OR INSURANCE COMPANY P.P.I.B. 371 Bel Marin Keys Blvd. Suite 220 Novato, CA 94949-5682 | | |
| NUMBER OF FIREWORKS | KIND OF FIREWORKS TO BE DISPLAYED | |
| Approx. 60 | 2 1/2" Aerial Shells | |
| " 90 | 3" Aerial Shells | |
| " 75 | 4" Aerial Shells | |
| " 10 | 5" Aerial Shells | |
| " 35 | Multi-Shot Cakes 5/8" DIA to 4" DIA | |
| SIGNATURE OF APPLICANT | | DATE |

2015

Permit for Fireworks Other Than Consumer or Low Impact
 Michigan Department of Licensing & Regulatory Affairs
 Bureau of Fire Services
 P.O. Box 30700
 Lansing MI 48909
 (517) 241-8847

| | |
|---|---|
| Authority: 2011 PA 256 Compliance: Voluntary Penalty: Permit will not be issued | The Department of Licensing & Regulatory Affairs will not discriminate against any individual or group because of race, sex, religion, age, national origin, color, marital status, disability, or political beliefs. If you need assistance with reading, writing, hearing, etc., under the Americans with Disabilities Act, you may make your needs known to this agency. |
|---|---|

This permit is not transferable. Possession of this permit authorizes the herein named person to possess, transport and display fireworks in the amounts, for the purpose of and at the place listed below only.

| Display Fireworks | | |
|---|---|----------------------|
| ISSUED TO <i>Kurt Price</i> | AGE (18 or over) | |
| ADDRESS <i>5393 Wildwood Howell</i> | | |
| NAME OF ORGANIZATION, GROUP, FIRM OR CORPORATION | | |
| ADDRESS | | |
| NUMBER AND TYPES OF FIREWORKS | | |
| <i>Approx. 60</i> | <i>2 1/2" Aerial Shells</i> | |
| <i>" 90</i> | <i>3" Aerial Shells</i> | |
| <i>" 75</i> | <i>4" Aerial Shells</i> | |
| <i>" 10</i> | <i>5" Aerial Shells</i> | |
| <i>" 35</i> | <i>Multi-shot Cakes 5/8" Dia to 4" Dia.</i> | |
| EXACT LOCATION OF DISPLAY OR USE <i>5393 Wildwood Howell Lake Chemung</i> | | |
| CITY, VILLAGE, TOWNSHIP | DATE <i>7-4-15</i> | TIME <i>10 pm</i> |
| BOND OR INSURANCE FILED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | AMOUNT <i>\$1,000,000</i> | |
| Issued by action of the Legislative Body of a | | |
| <input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Township of _____ on the _____ day of _____ | | |
| (Signature and Title of Legislative Body Representative) | | |

THIS FORM IS VALID FOR THE YEAR SHOWN ONLY

CERTIFICATE OF INSURANCE

ISSUE DATE: 6/3/2015

| | |
|---|---|
| PRODUCER PROFESSIONAL PROGRAM INSURANCE BROKERAGE 371 BEL MARIN KEYS BLVD., SUITE 220 NOVATO CA, 94949-5682 | THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER, THIS CERTIFICATE DOES NOT AMEND, EXTEND OR LATER THE COVERAGE AFFORDED BY THE POLICIES BELOW. INSURER(S) AFFORDING COVERAGE INSURER A: LLOYD'S OF LONDON INSURER B: INSURER C: INSURER D: |
| INSURED Phoenix Fireworks, LLC P.O. Box 264 Brighton, MI 48116 | |

COVERAGES
 THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE NAMED INSURED ABOVE FOR THE PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES.

| CO LTR | TYPE OF INSURANCE | POLICY NUMBER | POLICY EFFECTIVE DATE (MM/DD/YY) | POLICY EXPIRATION DATE (MM/DD/YY) | LIMITS |
|--------|--|---------------|----------------------------------|-----------------------------------|--|
| A | GENERAL LIABILITY CLAIMS MADE GEN'L AGGREGATE LIMIT APPLIES PER POLICY | PY/15-0088 | 06/03/2015 | 06/03/2016 | EACH ACCIDENT \$ 1,000,000 |
| | | | | | MEDICAL EXP (Any one person) \$ |
| | | | | | FIRE LEGAL LIABILITY \$ 50,000 |
| | | | | | GENERAL AGGREGATE \$ 2,000,000 |
| | | | | | PRODUCTS-COMP/OPS AGG \$ |
| | AUTOMOBILE LIABILITY - ANY AUTO - ANY OWNED AUTOS - SCHEDULED AUTOS - HIRED AUTOS - NON-OWNED AUTOS | | | | COMBINED SINGLE LIMIT (Per accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ |
| | EXCESS LIABILITY FOLLOWING FORM | | | | EACH ACCIDENT \$ AGGREGATE \$ |
| | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY | | | | WC STATUTORY LIMITS OTH-ER \$ E.L. EACH ACCIDENT \$ E.L. DISEASE-EA EMPLOYEE \$ E.L. DISEASE-POLICY LIMIT \$ |
| | OTHER | | | | |

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS
 Kurt Price as sponsor and property owner; Township of Genoa and Livingston County, Michigan are additional insured as respects the aerial fireworks display on 7/4/2015 (RD: 7/5/2015) located at 5393 Wildwood Drive, Howell, MI.

| | |
|--|---|
| CERTIFICATE HOLDER Kurt Price 6393 Wildwood Drive Howell, MI 48843 | CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES. AUTHORIZED REPRESENTATIVE |
|--|---|



DEPARTMENT OF JUSTICE

Bureau of Alcohol, Tobacco,
Firearms and Explosives

Martinsburg, WV 25405

May 19, 2015

Phoenix Fireworks LLC
P.O. Box 254
Brighton, MI 48114

901090:CRR/SCC
5400
File Number: 4-MI-00957

Premises Address: 880 Deadwood, Brighton, MI 48114

Dear Sir:

This letter acknowledges receipt of your timely application to renew your Federal explosives license/permit 4MI00957.

The Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) is not able to process your application prior to the expiration date of your license/permit. However, Federal law allows you to continue operations under your current license/permit until such time as ATF completes processing your application. See 5 U.S.C. § 558. This letter, or as explained below, a follow-up letter, will serve as your license/permit until we complete action on your renewal. It is referred to as a Letter of Authorization (LOA).

Since we have not completed processing your application, you may supply a copy of this letter to other licensees/permittees, e.g., your distributors, for the next 90 days (or until we complete action on your renewal, if that occurs in less than 90 days) as evidence of your licensed/permitted status. If we have not completed processing your application for renewal within 90 days of the date of this letter, we will send you another letter, which will also be valid for 90 days (or until we complete action on your renewal, if that occurs in less than 90 days). This is of course contingent upon your remaining entitled to continue operations under your current license/permit.

Please direct questions or concerns regarding this letter to Sandy Curtis at 304-616-4406.

Sincerely,

Christopher R. Reeves
Chief, Federal Explosives Licensing Center

ATF web address: www.atf.gov

INSTITUTE FOR FISHERIES RESEARCH
 DIVISION OF FISHERIES MICHIGAN CONSERVATION DEPT.
 LAKE INVENTORY MAP
LAKE CHEMUNG

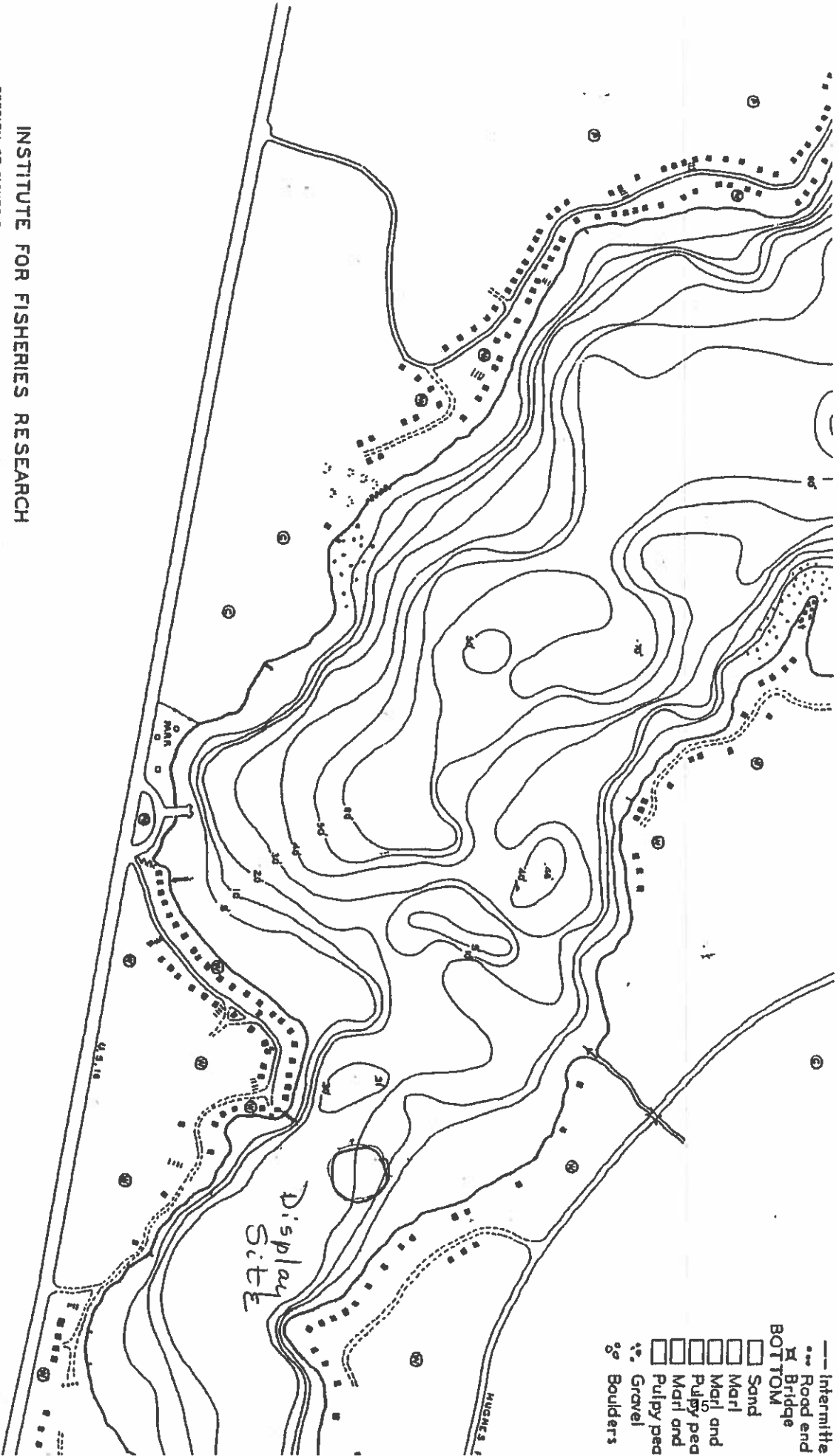
AREA 310 ACRES
 MARGINAL SURVEY AND SOUNDING 2/27/28-3/23/42

LIVINGSTON COUNTY

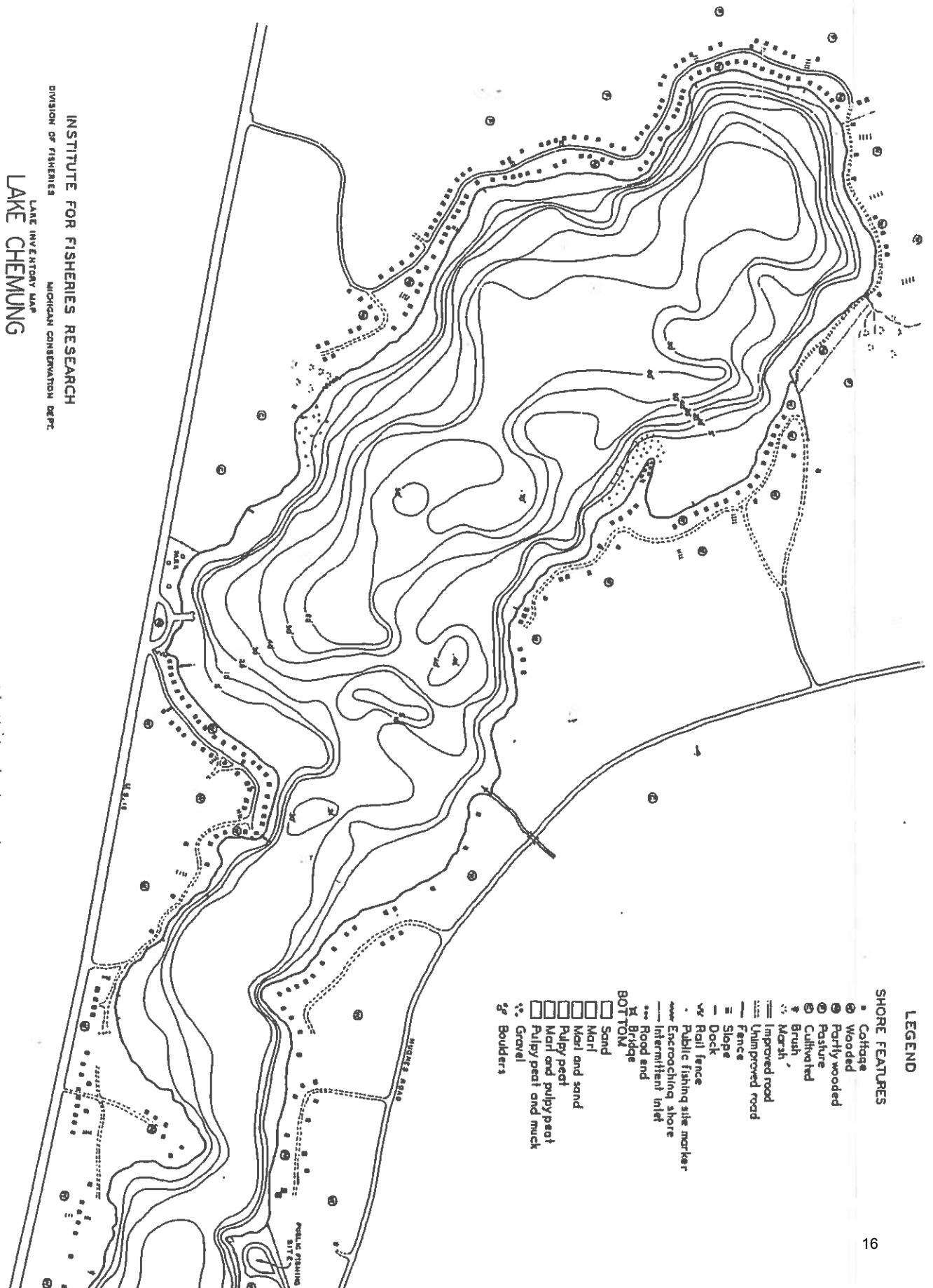
T. 2 N., R. 5 E., SEC. 3, 4, 9, 10, 11



SCALE



- Intermittent
- X Road end
- - - Bridge
- BOTTOM
- Sand
- Marl
- Marl and Pulpy peb
- Pulpy peb and Marl and
- Gravel
- ⊗ Boulders



LEGEND

SHORE FEATURES

- Cottage
- ① Wooded
- ② Partly wooded
- ③ Pasture
- ④ Cultivated
- ⑤ Brush
- ⑥ Marsh
- Improved road
- Unimproved road
- Fence
- Slope
- Dock
- Rail fence
- Public fishing site marker
- Encroaching shore
- Interfluvial inlet
- Road and
- ▲ Bridge
- BOT TOM
- Sand
- Marl
- Marl and sand
- Pulpy peat
- Marl and pulpy peat
- Pulpy peat and muck
- Gravel
- Boulders

INSTITUTE FOR FISHERIES RESEARCH
 DIVISION OF FISHERIES MICHIGAN CONSERVATION DEPT.
 LAKE INVENTORY MAP
 AREA 210 ACRES
 MARGINAL SURVEY AND SOUNDING: 2/27/28-3/22/42
LAKE CHEMUNG

LIVINGSTON COUNTY T. 2 N., R. 8 E., SEC. 3, A. 20, 11



**PAPERWORK TO OBTAIN FIREWORKS DISPLAY PERMIT
2015**

The following information is required to secure a permit for fireworks display in Genoa Charter Township:

1. BFS-999 Application for Fireworks Display Permit 2015
2. Letter to Genoa Charter Township Board requesting said permit.
3. Certificate of Insurance.
4. Current ATF Letter of Clearance for Explosives License or Permit.
5. Contingency letter addressing the disposal of any/all fireworks at the show site that do not get used.
6. Map of the location site for fireworks display.

Upon completion of presenting all aforementioned documents to the Township Clerk/Deputy Clerk for review, the application will be presented at the next scheduled Township Board meeting for review/approval.

Upon approval of the proposed fireworks display, the Township Clerk/Deputy Clerk will complete the document BFS-49e, Permit for Fireworks Display for said applicant with notarization seal.

Copy will be retained by the Township for all 2015 Fireworks Display Permits Issued.

/sms

Instructions for Application for Fireworks Other Than Consumer or Low Impact

Applications shall be made to the legislative body of a city, village or township board. A permit shall be issued as a result of official action by the legislative body. A permit shall be valid only for use within the limits of the issuing political jurisdiction.

1. The Applicant may be a person representing an organization, group, firm or corporation, or self. If the applicant is also the operator, enter the same name in Operator's section.
2. A non-resident applicant shall appoint a Michigan attorney or resident agent in writing to be the applicant's legal representative upon whom all process in any action or proceeding may be served.
3. The pyrotechnic operator is the person in charge of the display. The legislative body shall rule on the competency and qualifications of the operator before granting a permit and may require an affidavit from the applicant as to the operator's experience, former pyrotechnic accidents, criminal record, sobriety, etc.
4. Indicate the total amount of fireworks proposed for the display or use, such as 10 aerial bombs, 30 aerial rocket bursts, etc.
5. Indicate the manner and place of storage within the political jurisdiction of fireworks that are ready for display, just prior to the display in the area of exhibition. The legislative body shall obtain approval from the local fire authorities of the manner and place of storage before any permit is issued.
6. The issuing political jurisdiction shall set the amount of and proof of bond or insurance for the protection of the public to satisfy claims for damages to property or personal injuries arising out of any act or omission on the part of the person, firm or corporation, or any agent or employee of the applicant. The applicant shall assure the bond or insurance required is provided.
7. The application is valid for the year shown at the top right corner of the application.
8. Permit fees shall be established by the legislative body and shall be retained by same.
9. This permit is issued in compliance with 2011, PA 256.



Mr. Gary McCririe

01 June 2015

Township Supervisor

Genoa Charter Township

2911 Dorr Road

Brighton, MI 48116

Dear Mr. McCririe:

Here is our request and information packet for a Fireworks Display for the Oak Point Country Club 2015 July 4th Celebration.

Attached please find all items requested in your outline sheet, including all applicable licenses, permits, and insurance certificates needed. Please feel free to contact me with any questions or comments you may have. We look forward to yet another great show !

Sincerely,

Michael Freeland, PGI/CI

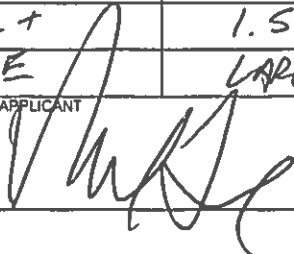
VP Marketing

ACE Pyro, LLC

MKF/ms/GenoaCVR.doc

2015

Application for Fireworks Other Than Consumer or Low Impact
 Michigan Department of Licensing & Regulatory Affairs
 Bureau of Fire Services
 P.O. Box 30700
 Lansing MI 48909
 (517) 241-8847

| | | |
|---|---|---|
| Authority: 2011 PA 258 Compliance: Voluntary Penalty: Permit will not be issued | The Department of Licensing & Regulatory Affairs will not discriminate against any individual or group because of race, sex, religion, age, national origin, color, marital status, disability, or political beliefs. If you need assistance with reading, writing, hearing, etc., under the Americans with Disabilities Act, you may make your needs known to this agency. | |
| <input type="checkbox"/> Agricultural or wildlife fireworks <input type="checkbox"/> Special effects manufactured for outdoor pest control or agricultural purposes | <input type="checkbox"/> Articles Pyrotechnic <input type="checkbox"/> Public Display | <input checked="" type="checkbox"/> Display Fireworks <input type="checkbox"/> Private Display |
| NAME OF APPLICANT MICHAEL FREELAND (ONE PER) | ADDRESS 1301 E. AUSTIN RD, MANCHESTER, MI | AGE (18 or over) 54 |
| IF A CORPORATION, NAME OF PRESIDENT AYRON ENZER | ADDRESS 1301 E. AUSTIN RD, MANCHESTER, MI | 48158 |
| IF A NON-RESIDENT APPLICANT, NAME OF MICHIGAN ATTORNEY OR RESIDENT AGENT N/A | ADDRESS N/A | TELEPHONE NUMBER N/A |
| NAME OF PYROTECHNIC OPERATOR MICHAEL FREELAND | ADDRESS 475 LARIVEE, MILFORD, MI | AGE (18 or over) 54 |
| NO. YEARS EXPERIENCE 20+ | NO. DISPLAYS 150+ | WHERE MI, IA, ND, WY, OH, IN, & MULTIPLE STATES IN OHIO AND OH. |
| NAME OF ASSISTANT CHRIS RENEMA | ADDRESS 1231 HAWTHORNE, G.P.W., MI | AGE 28 |
| NAME OF OTHER ASSISTANT N/A | ADDRESS N/A | AGE N/A |
| EXACT LOCATION OF PROPOSED DISPLAY FROM FLOATING PLATFORM IN WEST CROOKED LAKE. | | |
| DATE OF PROPOSED DISPLAY 03 JUL 2015 | TIME OF PROPOSED DISPLAY 2200 TO 2230 HRS E.S.T. | |
| MANNER AND PLACE OF STORAGE SUBJECT TO APPROVAL OF LOCAL FIRE AUTHORITIES, IN ACCORDANCE WITH NFPA 1123, 1124 & 1128 AND OTHER STATE OR FEDERAL REGULATIONS. PROVIDE PROOF OF PROPER LICENSING OR PERMITTING BY STATE OR FEDERAL GOVERNMENT → NO STORAGE; DIRECT SHIPMENT FROM OUR A.T.F. APPROVED TYPE 4 ← MAGAZINES ← | | |
| AMOUNT OF BOND OR INSURANCE (To be set by local government) 10,000,000.00 TEN MILLION DOLLARS | NAME OF BONDING CORPORATION OR INSURANCE COMPANY THE PARTNERS GROUP, LTD | |
| ADDRESS OF BONDING CORPORATION OR INSURANCE COMPANY 11225 S.E. 6TH ST., SUITE #110, BELLEVUE, WA 98004 | | |
| NUMBER OF FIREWORKS | KIND OF FIREWORKS TO BE DISPLAYED | |
| 120+ | 2.5" AERIAL SHELLS | |
| 360+ | 3.0" AERIAL SHELLS | |
| 72+ | 4.0" AERIAL SHELLS | |
| 36+ | 4.0" AERIAL SHELLS | |
| 36+ | 3.0" AERIAL COMETS | |
| 24+ | 4.0" AERIAL SPECIALTY SHELLS | |
| 8 | 1.5" 1.3g WATER CANNES | |
| 2+ | 1.5" 1.3 AERIAL CANNES | |
| ONE | LARGE MULTI-LANDE LOGO SIGN | |
| SIGNATURE OF APPLICANT  | | DATE 01 JUN 2015 |



Mr. Gary McCririe

01 June 2015

Township Supervisor

Genoa Charter Township

2911 Dorr Road

Brighton, MI 48116

Dear Mr. McCririe:

Per the requirements of Genoa Township's Permit Process and BFS-999 Fireworks Display Permit application, This letter serves to notify that any and all 1.3g Fireworks not used, surplus, faulty for return ("Dud") or otherwise unusable 1.3g product will not be kept at the proposed display site set forth in our attached application packet. No onsite storage will take place; 1.3g Fireworks will be shipped directly from our ATF Approved Type 4 Magazine(s), set up at the display site, and used. Any and all unused product will return to said magazine(s) directly.

Sincerely,

Michael Freeland PGI/CS/CI

VP Marketing

ACE Pyro, LLC

MKF/ms/GenoaStor.doc



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
6/8/2015

PRODUCER Phone: 425-455-5640 Fax: 425-455-6727
The Partners Group Ltd
11225 SE 6th St., Suite 110
Bellevue WA 98004

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

| INSURED | INSURERS AFFORDING COVERAGE | NAIC # |
|--|------------------------------------|--------|
| Ace Pyro, LLC 13001 E. Austin Rd Manchester MI 48158 | INSURER A T.H.E. Insurance Company | 12866 |
| | INSURER B | |
| | INSURER C | |
| | INSURER D | |
| | INSURER E | |

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY

| INSR ADD'L LTR | INSRD | TYPE OF INSURANCE | POLICY NUMBER | POLICY EFFECTIVE DATE (MM/DD/YYYY) | POLICY EXPIRATION DATE (MM/DD/YYYY) | LIMITS |
|----------------|-------|--|---------------|------------------------------------|-------------------------------------|--|
| A | X | GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC | CPP010442900 | 11/1/2014 | 11/1/2015 | EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$100,000 MED EXP (Any one person) \$ Excluded PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$N/A PRODUCTS - COMP/OP AGG \$2,000,000 |
| A | | AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS | CPP010442900 | 11/1/2014 | 11/1/2015 | COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ |
| | | GARAGE LIABILITY <input type="checkbox"/> ANY AUTO | | | | AUTO ONLY - EA ACCIDENT \$ OTHER THAN EA ACC \$ AUTO ONLY: AGG \$ |
| A | | EXCESS / UMBRELLA LIABILITY <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE DEDUCTIBLE RETENTION \$ | ELP001174700 | 11/1/2014 | 11/1/2015 | EACH OCCURRENCE \$9,000,000 AGGREGATE \$9,000,000 \$ \$ \$ |
| | | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> If yes, describe under SPECIAL PROVISIONS below | | | | WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$ |
| | | OTHER | | | | |

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS
The following are Additional Insured on General Liability as their interest may appear as respects operations performed by or on behalf of the Named Insured, as required by written contract.
Additional Insured: Genoa Township, the Oak Pointe Homeowners Association and Oak Pointe Marina
Event Location: From floating platform(s) in West Crooked Lake, GPS Coordinates 42.537066, -83.857656
Event Date: 7/3/2015 RD: 7/4/2015

| CERTIFICATE HOLDER | CANCELLATION |
|---|---|
| Oak Pointe Country Club 4500 Club Drive Brighton MI 48116 | SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES. AUTHORIZED REPRESENTATIVE |



Google earth

feet
meters



**420' RAD. FROM CENTER
POINT PER NFPA 1123 (a)
OF 70' PER 1" OF AERIAL
SHELL DIA.**



U.S. Department of Justice
Bureau of Alcohol, Tobacco, Firearms and Explosives
Federal Explosives Licensing Center
244 Needy Road
Martinsburg, West Virginia 25405

901090: CRR/FLS
5400
File Number: 4MI12625

09/18/2014

SUBJECT: EMPLOYEE POSSESSOR LETTER OF CLEARANCE for:

MICHAEL KENNETH FREELAND

GENERAL LABOR
(248)676-2305

and is **ONLY** valid under the following Federal explosive license/permit:

4-MI-161-20-7D-12625

ACE PYRO, LLC
73801 E AUSTIN RD
MANCHESTER, MI 48158

Dear MICHAEL FREELAND:

You have been approved to transport, ship, receive or possess explosive materials as an employee possessor under the Federal explosive license or permit indicated above. **This clearance is only valid under the license or permit referenced above.**

Sincerely,

Christopher R. Reeves
Chief, Federal Explosives Licensing Center (FELC)

FELC Customer Service. If you believe that information on your "Letter of Clearance" is incorrect, please return a COPY of the letter to the Chief, Federal Explosives Licensing Center (FELC), with a statement showing the nature of the error. The Chief, FELC, shall correct the error, and return an amended letter to you.

Mail: ATF
Chief, FELC
Attn.: LOC Correction
244 Needy Road
Martinsburg, West Virginia 25405

Fax: 1-304-616-4401
Chief, FELC
Attn.: LOC Correction


Call toll-free: 1-877-283-3352

MICHAEL KENNETH FREELAND

Employee Possessor Letter of Clearance for:

MEMORANDUM

TO: Township Board

FROM: Michael Archinal 

DATE: 6/12/15

RE: Laptop and Tablet Upgrades

Please find attached a memorandum from Adam VanTassell regarding the issues we have been facing recently with our larger Board and Planning Commission packets. We are recommending an accelerated replacement plan to address the higher level of content we need to deal with.

Please consider the following action:

Moved by _____, supported by _____, to approve laptop and tablet purchases as proposed at a cost of \$8,645.84.

Memorandum

TO: Michael Archinal, Township Manager

FROM: Adam VanTassell

DATE: June 10, 2015

RE: Accelerated tablet/laptop upgrades

Recently, Genoa Township staff and board members have been encountering issues with the board packets. Specifically, those packets which have a higher level of content (drawings, graphics) are causing the older tablets to crash more frequently. We are proposing to move up the upgrade date for Township Board, Planning Commission and ZBA tablets/laptops to this fiscal year.

Staff recommends the following purchases:

14 iPad Air 2 tablets – 6,986.00 (499.00 each)


14 tablet with Bluetooth keyboard cases – 1,119.86 (79.99 each)

2 Lenovo B50-80 Laptops – 1,539.98 (769.99 each)

Total cost: \$8,645.84

MEMORANDUM

TO: Township Board

FROM: Michael Archinal 

DATE: 6/12/15

RE: Howell Area Parks and Recreation Budget

As a full member of HAPRA we approve the budget annually. Attached you will find the budget for the fiscal year ending 6/30/15. Please consider the following action:

Moved by _____, supported by _____, to approve the Howell Area Parks and Recreation budget for the fiscal year ending 6/30/2015.

ADMINISTRATION

ENDING DATE 6-30-2016

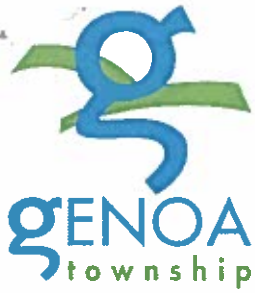
FUND 208

| GL NUMBER | DESCRIPTION | 2015-2016 BUDGET |
|-----------------------|--|-------------------|
| REVENUES | | |
| 208-751-587.001 | PK/RC MARION TWP PARTICIPATION | 103,225.00 |
| 208-751-587.002 | PK/RC GENOA TWP PARTICIPATION | 103,225.00 |
| 208-751-587.003 | PK/RC OCEOLA TWP PARTICIPATION | 103,225.00 |
| 208-751-587.005 | PK/RC HOWELL CITY PARTICIPATION | 103,225.00 |
| 208-751- | DOG PARK MAINTENANCE SERVICES FEES | 5,000.00 |
| 208-751-649.003 | PK & REC GUIDE ADVERTISEMENT | 500.00 |
| 208-751-651.020 | BENNETT BUILDING RENTAL FEES | 10,000.00 |
| 208-751-651.022 | OCEOLA BUILDING RENTAL FEES | 14,000.00 |
| 208-751-665.000 | INVESTMENT INTEREST | 200.00 |
| 208-751-671.002 | MISC REVENUES | 500.00 |
| 208-751-675.003 | DONATIONS - GENERAL | 500.00 |
| 208-751-678.010 | SPONSORSHIP FEES | 1,000.00 |
| 208-751-678.013 | YOUTH SCHOLARSHIP FUND | 400.00 |
| TOTAL REVENUES | | 445,000.00 |
| EXPENSES | | |
| 208-751-702.001 | SALARY & WAGES - DIRECTOR | 65,000.00 |
| 208-751-702.002 | SALARY & WAGES - FINANCE ADMINISTRATOR | 28,600.00 |
| 208-751-702.030 | SALARY & WAGES - FRONT OFFICE | 38,000.00 |
| 208-751-702.024 | SALARY & WAGES -MARKETING | 20,000.00 |
| 208-751-702.034 | SALARY & WAGE - FACILITIES MAINTENANCE | 20,000.00 |
| 208-751-714.004 | ICMA RETIREMENT | 4,000.00 |
| 208-751-717.000 | FRINGE BENEFITS | 25,000.00 |
| 208-751-727.000 | OFFICE SUPPLIES | 2,000.00 |
| 208-751-730.000 | POSTAGE | 20,000.00 |
| 208-751-740.000 | OPERATING SUPPLIES - GENERAL | 1,500.00 |
| 208-751-740.025 | OPERATING SUPPLIES - HUMAN RESOURCES | 500.00 |
| 208-751-740.026 | OPERATING SUPPLIES - STAFF SHIRTS/BADGES | 1,000.00 |
| 208-751-751.000 | GASOLINE & DIESEL FUEL | 1,500.00 |
| 208-751-801.000 | PROFESSIONAL SERVICES | 35,000.00 |
| 208-751-804.000 | CONTRACTUAL SERVICES | 3,000.00 |
| 208-751-840.000 | DUES, SUBSCRIPTIONS & MEMBERSHIPS | 3,000.00 |
| 208-751-850.000 | COMMUNICATION - TELEPHONES | 12,000.00 |
| 208-751-850.008 | COMMUNICATION - INTERNET & CABLE | 3,000.00 |
| 208-751-860.000 | TRAVEL | 200.00 |
| 208-751-900.000 | MARKETING, PRINTING & PUBLISHING | 30,000.00 |
| 208-751-910.000 | INSURANCE | 35,000.00 |
| 208-751-920.000 | UTILITIES - ELECTRICITY - BENNETT CENTER | 10,000.00 |
| 208-751-920.001 | UTILITIES - GAS - BENNETT CENTER | 6,000.00 |
| 208-751-920.002 | UTILITIES - WATER/SEWER - BENNETT CENTER | 1,500.00 |
| 208-751-920.003 | UTILITIES - RUBBISH - BENNETT CENTER | 1,500.00 |
| 208-751-920.006 | UTILITIES - GAS - BARNARD CENTER | 0.00 |
| 208-751-920.007 | UTILITIES - ELECTRICITY - BARNARD CENTER | 0.00 |
| 208-751-920.008 | UTILITIES - RUBBISH - BARNARD CENTER | 0.00 |
| 208-751-920.009 | UTILITIES - WATER-SEWER - BARNARD CENTER | 0.00 |
| 208-751-920.012 | UTILITIES - ELECTRICITY - OCEOLA CENTER | 10,000.00 |
| 208-751-920.013 | UTILITIES - GAS - OCEOLA CENTER | 10,000.00 |
| 208-751-920.014 | UTILITIES - WATER/SEWER - OCEOLA CENTER | 1,500.00 |
| 208-751-920.015 | UTILITIES - RUBBISH - OCEOLA CENTER | 1,500.00 |
| 208-751-930.000 | GROUNDS MAINTENANCE - BENNETT CENTER | 1,000.00 |

| | | |
|---|--|-------------------|
| 208-751-930.006 | REPAIR & MAINTENANCE - VEHICLES | 1,500.00 |
| 208-751-930.013 | GROUNDS MAINTENANCE - BARNARD CENTER | 0.00 |
| 208-751-930.014 | GROUNDS MAINTENANCE - OCEOLA CENTER | 2,000.00 |
| 208-751-931.000 | BUILDING REPAIRS & MTCE. AND SUPPLIES - BENNETT CENTER | 8,000.00 |
| 208-751-931.003 | BUILDING REPAIRS & MTCE. AND SUPPLIES - BARNARD CENTER | 0.00 |
| 208-751-931.014 | BUILDING REPAIRS & MTCE. AND SUPPLIES - OCEOLA CENTER | 8,000.00 |
| 208-751-940.000 | EQUIPMENT RENTAL - COPIERS | 7,000.00 |
| 208-751-956.000 | MISCELLANEOUS | 500.00 |
| 208-751-956.003 | BANK CHARGES & FEES | 20,000.00 |
| 208-751-957.000 | EDUCATION / TRAINING | 2,000.00 |
| 208-751-965.000 | FACILITY RENTALS | 3,000.00 |
| 208-751-980.000 | OFFICE EQUIPMENT | 500.00 |
| 208-751-980.004 | EQUIPMENT - COMPUTER HARDWARE | 1,000.00 |
| 208-751-980.005 | EQUIPMENT - COMPUTER SOFTWARE | 200.00 |
| 208-751-981.002 | VEHICLES | 0.00 |
| | | |
| TOTAL EXPENDITURES | | 445,000.00 |
| TOTAL REVENUES | | 445,000.00 |
| TOTAL EXPENDITURES | | 445,000.00 |
| NET OF REVENUES & EXPENDITURES | | 0.00 |
| | | ----- |

| ADULT SPORTS | ENDING DATE 6-30-2016 | FUND 212 | |
|---|--|-------------------------|------------------|
| GL NUMBER | DESCRIPTION | 2015-2016 BUDGET | |
| REVENUES | | | |
| 212-751-650.090 | PROGRAM FEES - VOLLEYBALL | 7,000.00 | |
| 212-751-650.091 | PROGRAM FEES - KICKBALL | 1,000.00 | |
| 212-751-650.092 | PROGRAM FEES - DISC GOLF | 1,000.00 | |
| 212-751-650.093 | PROGRAM FEES - SOCCER | 1,000.00 | |
| 212-751-650.094 | PROGRAM FEES - SOFTBALL | 1,000.00 | |
| 212-751-650.095 | PROGRAM FEES - BASKETBALL | 5,000.00 | |
| 212-751-650.096 | DROP IN BASKETBALL | 3,500.00 | |
| 212-751-651.009 | PAGE FIELD RENTAL | 20,000.00 | Clery University |
| TOTAL REVENUES | | 39,500.00 | |
| EXPENDITURES | | | |
| 212-751-702.082 | SALARY & WAGES - ADULT SPORTS MANAGER | 15,000.00 | 50% |
| 212-751-702.084 | SALARY & WAGES - ADULT SPORTS COORDINATORS | 5,000.00 | |
| 212-751-714.004 | ICMA RETIREMENT | 0.00 | |
| 212-751-717.000 | FRINGE BENEFITS | 500.00 | |
| 212-751-727.000 | OFFICE SUPPLIES | 200.00 | |
| 212-751-730.000 | POSTAGE | 200.00 | |
| 212-751-740.000 | OPERATING SUPPLIES GENERAL | 600.00 | |
| 212-751-740.080 | OPERATING SUPPLIES - VOLLEYBALL SHIRTS | 400.00 | |
| 212-751-740.081 | OPERATING SUPPLIES - SOCCER SHIRTS | 400.00 | |
| 212-751-740.083 | OPERATING SUPPLIES - KICKBALL SHIRTS | 400.00 | |
| 212-751-740.084 | OPERATING SUPPLIES - SOFTBALL SHIRTS | 400.00 | |
| 212-751-740.085 | OPERATING SUPPLIES - BASKETBALL SHIRTS | 400.00 | |
| 212-751-804.009 | CONTRACT SERVICES - OFFICIALS & COACHES | 2,000.00 | |
| 212-751-804.010 | CONTRACT SERVICES - FIELD MAINTENANCE | 1,500.00 | |
| 212-751-840.000 | DUES & MEMBERSHIPS | 1,000.00 | |
| 212-751-942.001 | PORTA JOHN RENTALS | 0.00 | |
| 212-751-956.000 | MISCELLANEOUS | 100.00 | |
| 212-751-957.000 | EDUCATION / TRAINING | 500.00 | |
| 212-751-964.001 | PROGRAM REFUNDS | 400.00 | |
| 212-751-965.000 | FACILITY RENTALS HOWELL SCHOOLS | 10,000.00 | |
| 212-751-965.012 | FIELD RENTALS | 500.00 | |
| TOTAL EXPENDITURES | | 39,500.00 | |
| TOTAL REVENUES | | 39,500.00 | |
| TOTAL EXPENDITURES | | 39,500.00 | |
| NET OF REVENUES & EXPENDITURES | | 0.00 | |

| AQUATIC CENTER | ENDING DATE 6-30-2016 | FUND 213 | |
|---|---|-------------------------|----------------------------------|
| GL NUMBER | DESCRIPTION | 2015-2016 BUDGET | |
| REVENUES | | | |
| 213-751-649.002 | AQUATIC CENTER CONCESSIONS | 1,000.00 | |
| 213-751-650.003 | PROGRAM FEES - SPECIAL EVENTS | 6,000.00 | |
| 213-751-675.003 | DONATIONS - GENERAL | 0.00 | |
| 213-751-678.010 | SPONSORSHIP FEES | 0.00 | |
| 213-751-680.002 | AQUATIC CENTER MANAGEMENT FEE | 108,000.00 | \$ 9,000.00 per month |
| 213-751-680.004 | AQUATIC CENTER INCENTIVE | 15,000.00 | Average 2011 & 2012 is \$ 20,000 |
| TOTAL REVENUES | | 130,000.00 | |
| EXPENDITURES | | | |
| 213-751-702.029 | SALARY & WAGES - AQUATIC CENTER MANAGER | 40,000.00 | |
| 213-751-702.060 | SALARY & WAGES - AQUATIC COORDINATORS | 38,000.00 | |
| 213-751-714.004 | ICMA RETIREMENT | 2,500.00 | |
| 213-751-717.000 | FRINGE BENEFITS | 30,000.00 | |
| 213-751-727.000 | OFFICE SUPPLIES | 200.00 | |
| 213-751-730.000 | POSTAGE | 200.00 | |
| 213-751-740.000 | OPERATING SUPPLIES - GENERAL | 200.00 | |
| 213-751-740.003 | OPERATING SUPPLIES - T-SHIRTS | 1,500.00 | |
| 213-751-740.035 | OPERATING SUPPLIES - SPECIAL EVENTS | 7,000.00 | |
| 213-751-740.037 | CONCESSION SUPPLIES | 1,000.00 | |
| 213-751-740.060 | FUNDRAISER PRODUCT PURCHASE | 1,000.00 | |
| 213-751-740.061 | OPERATING SUPPLIES - FITNESS | 1,500.00 | |
| 213-751-840.000 | DUES & MEMBERSHIPS | 500.00 | |
| 213-751-860.000 | CONFERENCE /TRANSPORTATION | 500.00 | |
| 213-751-900.000 | PRINTING & PUBLISHING | 200.00 | |
| 213-751-957.000 | EDUCATION / TRAINING | 2,000.00 | |
| 213-751-964.001 | PROGRAM REFUNDS | 200.00 | |
| 213-751-980.000 | OFFICE EQUIPMENT | 1,000.00 | |
| 213-751-980.004 | EQUIP / COMPUTER HARDWARE | 2,000.00 | |
| 213-751-980.005 | EQUIP / COMPUTER SOFTWARE | 500.00 | |
| TOTAL EXPENDITURES | | 130,000.00 | |
| TOTAL REVENUES | | 130,000.00 | |
| TOTAL EXPENDITURES | | 130,000.00 | |
| NET OF REVENUES & EXPENDITURES | | 0.00 | |



MEMORANDUM

TO: Township Board of Trustees
FROM: Ron Akers, Zoning Official
DATE: 6/10/15

RE: 2015-2021 Capital Improvement Program

Manager Review: 

2911 Dorr Road
Brighton, MI 48116
810.227.5225
810.227.3420 fax
genoa.org

Based on the comments and feedback received at the March 30, 2015 Joint Township Board/Planning Commission Meeting and the decision of the Planning Commission at their June 8, 2015 regular meeting, please find attached to this memo the revised Capital Improvement Program for 2015-2021. The differences between the current proposed plan and the plan submitted at the March 30, 2015 meeting are highlighted as follows:

A. Land and Major Facilities

- a. Based on interest for more senior focused activity at the Township Hall Park, Outdoor Fitness Equipment was replaced with a senior citizen playground. More information about this can be found at the following link:
<http://www.noahsplay.com/playground-equipment-needs/developer/seniorfit-wellness-motion-equipment-gold-pkg/>
- b. Solar Panel Installation was removed from the plan per the Planning Commission's decision at their June 8, 2015 meeting.
- c. Shaded Benches were added as a project in 2019-20.
- d. The installation of a Park Informational Sign was moved from future projects to 2020-21.

B. Services Support

- a. No changes

C. Sidewalks

- a. For sidewalk installation on Crooked Lake Road, Dorr Road, and Challis Road, additional funds were added for tree installation. The funds were calculated estimating the installation of one (1) tree per fifty (50) linear feet of sidewalk. The cost of the tree was estimated at \$350 per tree.

D. Gravel Road Improvements

- a. Moved the installation of Crushed Limestone at Herbst Road to fiscal year 2017-18.

E. Paved Road Improvements

- a. Removed the installation of Mast Arms at the Grand Oaks Road and S. Latson Road intersection.
- b. Added estimated Livingston County Road Commission Cost for Round-about installation at the Chilson Road and Coon Lake Road intersection.

SUPERVISOR

Gary T. McCririe

CLERK

Paulette A. Skolarus

TREASURER

Robin L. Hunt

MANAGER

Michael C. Archinal

TRUSTEES

H. James Mortensen
Jean W. Ledford
Todd W. Smith
Linda Rowell

- c. Removed all projects which were associated with the 2013 Road Millage request per the Planning Commission's decision at their June 8, 2015 meeting.

Solar Panel Cost/Payback Analysis

The Planning Commission and the Township Board requested at the joint meeting on March 30, 2015 that staff provide a cost savings and payback period analysis for solar panel installation. According to the information provided by The Green Panel, approximate annual cost savings on a 7.28kW solar panel system would be \$1,090 in year 1. At a cost of \$27,193 and an estimated 4% rate of inflation on energy costs, the payback period for the investment would be approximately 18 years and the total energy savings over a 30 year system life would be \$58,131.

OPEN PUBLIC HEARING #5...Request for review of amendments to the Genoa Charter Township Capital Improvement Plan.

Planning Commission disposition of petition

A. Disposition of Capital Improvement Plan

Motion by John McManus to table this. Support by Diana Lowe. Motion carried unanimously.

Administrative Business:

- *Staff report*
- *Approval of April 27, 2015 Planning Commission meeting minutes. Upon motion of Barbara Figurski and support by Diana Lowe, the minutes were approved as corrected. Motion carried unanimously.*
- *Member discussion*
- *Adjournment. Upon motion by John McManus and support by Diana Lowe, the meeting was adjourned at 11:00 p.m. Motion carried unanimously.*

Mike Barrett addressed the Planning Commission. He asked for clarification regarding percentage of brick.

Colleen Bussy addressed the Planning Commission and indicated she thinks the structure is too big. Jay Johnston again addressed the Planning Commission regarding the color. Andrea Spanford indicated she thinks it looks like a warehouse.

The call to the public was closed.

The architect is present and agrees with all of the ideas/comments.

Planning Commission disposition of petition

A. Disposition of Amended Site Plan Building Elevations (received on 05-29-15)

Motion by James Mortensen to recommend approval of the amended site plan subject to future approval of exterior building materials. Staff may issue a temporary land use permit to allow the petition to continue working on the interior. The temporary land use permit will expire on July 21, 2015 if not renewed. Support by Diana Lowe. **Motion carried unanimously.**

OPEN PUBLIC HEARING #3...Review of the Genoa Charter Township Capital Improvement Plan.

Mr. Mortensen has an issue with the road projects rejected by the voters being included. He is also opposed to the solar panels.

Planning Commission disposition of petition

A. Disposition of Capital Improvement Plan

Motion by James Mortensen to adopt the capital improvement plan with the exception of the road projects and solar panel. Support by Diana Lowe. **Motion carried unanimously.**

Administrative Business:

- *Staff report.* Kelly VanMarter gave a staff report to the Planning Commission.
- *Approval of May 11, 2015 Planning Commission meeting minutes.* **Motion** by Barbara Figurski and support by James Mortensen to adopt the minutes as amended. **Motion carried unanimously.**
- *Member discussion.*
- *Adjournment.* **Motion** to adjourn by Barbara Figurski at 10:04 p.m. Support by John McManus. **Motion carried unanimously.**

Genoa Charter Township Capital Improvement Program 2015-2021



May 2015

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INTRODUCTION

In order to effectively budget for capital improvement expenditures it is important for a community to create a plan in order to strategically allocate funds and to assess current and future needs. A capital improvement plan is a six year schedule of all proposed major capital improvement projects. This plan identifies specific capital improvements, assesses their priority, estimates cost, determines potential methods of financing (if necessary) and evaluates their impact on current and future operating costs. There are several benefits to creating a capital improvement plan. These benefits include:

- Ensuring consistency of public facilities with the Township Master Plan.
- Allowing proposed improvements to be scrutinized systematically, and tested against funding and land use policies.
- Improving the scheduling of public improvements.
- Providing a system for long range financial planning and management.
- Enhancing the opportunities to participate in federal and state grant –in-aid programs.

In addition to the specified benefits, Genoa Township is required by the Michigan Planning Enabling Act of 2008 to “annually prepare a capital improvements program of public structures and improvements” because we “own and operate a water supply and sewage disposal system.” This document serves to not only meet our statutory requirement, but to provide the benefits of capital expenditure planning.

A successful process not only includes staff suggestions, but input from the public, the Planning Commission and Township Board of Trustees. I look forward to furthering the discussion of how our community will grow in the future.

Respectfully Submitted,

Ronald A. Akers
Zoning Official

ACKNOWLEDGEMENTS

TOWNSHIP BOARD OF TRUSTEES

Gary McCririe, Supervisor

Robin Hunt, Treasurer

Polly Skolarus, Clerk

Jean Ledford

Jim Mortensen

Linda Rowell

Todd Smith

PLANNING COMMISSION

Doug Brown, Chair

Diana Lowe, Vice-Chair

Barbara Figurski, Secretary

Chris Grajek

John McManus

Jim Mortensen

Eric Rauch

TOWNSHIP STAFF

Michael Archinal, AICP, Township Manager

Kelly VanMarter, AICP, Assistant Township Manager/Community Development Director

Ron Akers, Zoning Official

Adam VanTassell, IT Director/Facilities Manager

Angie Williams, Bookkeeper Specialist

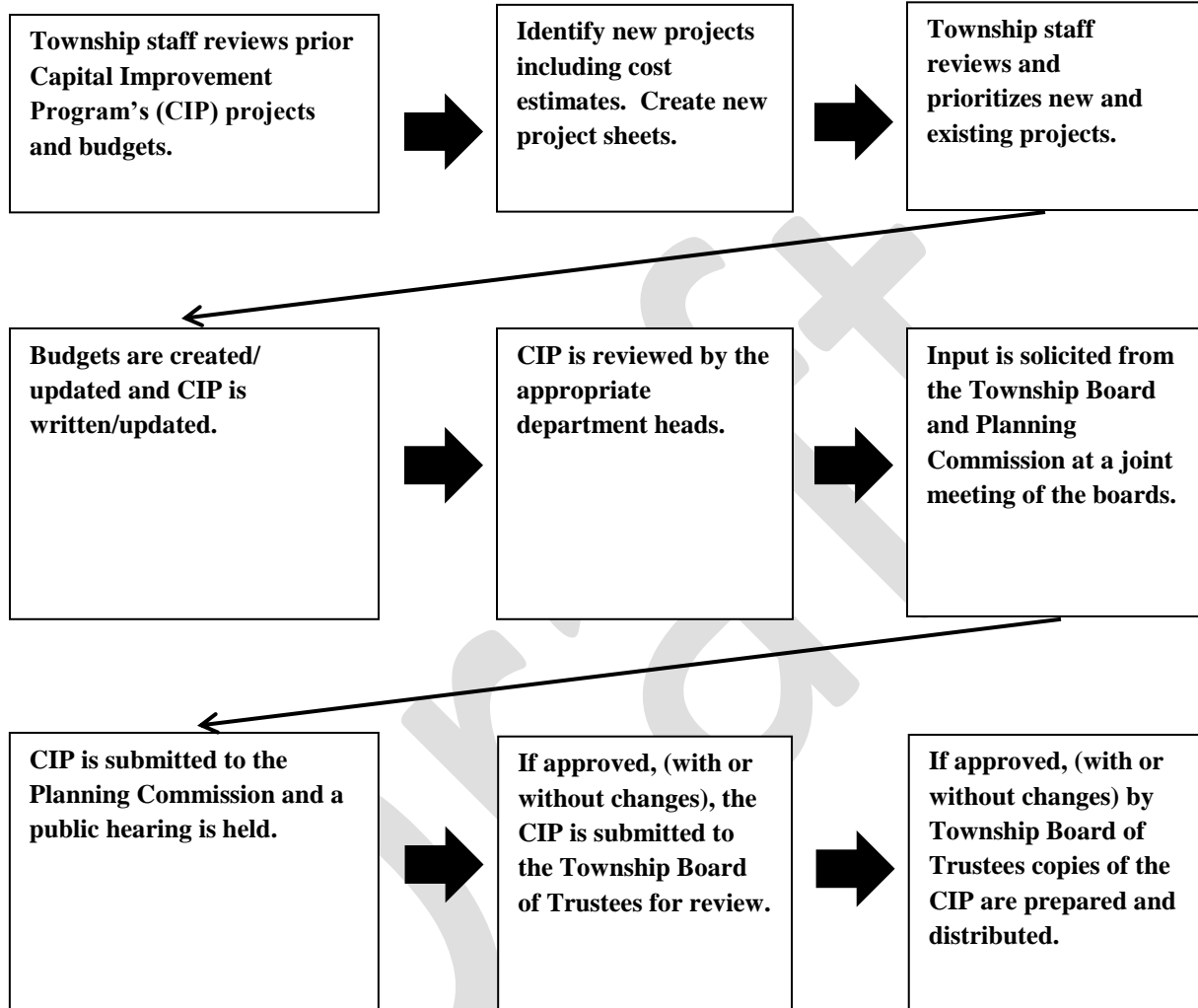
Kathryn Poppy, Administrative Assistant

Kathleen Murphy, Administrative Assistant

Cindy Overby, Accounts Payable/Payroll

CAPITAL IMPROVEMENTS PROGRAM PROCESS

The following is the input process for the creation and development of the Capital Improvement Program:



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FINANCIAL SUMMARY/IMPACT

REVENUES

In order to effectively implement a Capital Improvement Plan it is important to identify the way proposed projects are intended to be funded, evaluate the available resources and what impact the capital expenditures will have on the Genoa Township's financial resources. Available resources have a strong impact on how projects are evaluated and prioritized. The following are the different types of revenue sources identified in the capital improvements plan.

GENOA TOWNSHIP REVENUES

General Fund #101

The General Fund is the fund from which primary governmental activities are financed. In the Capital Improvement Plan, revenue from the General Fund directly goes toward expenditures in the Service Support area and transfers from the General Fund finance the majority of the other governmental funds.

General Fund Road Improvement #101

General Fund Road Improvement #101 is a specific line item within the General Fund #101 and is primarily used for road maintenance projects such as crack sealing, crushed limestone application or other pavement maintenance projects. The amount allocated each year is approximately \$250,000, but the amount may vary based on project type and scope.

Cemetery & Building Reserve Fund #271

The Cemetery & Building Reserve Fund is primarily used for building, grounds and cemetery improvements and maintenance. The amount of money that is allocated to this fund varies annually based upon proposed projects.

Future Parks & Recreation Fund #270

The Future Parks & Recreation Fund is primarily used for property acquisition for public parks, park improvement/maintenance, and sidewalk/pathway installation. Approximately \$250,000 to \$300,000 is transferred from the General Fund to the Future Parks & Recreation Fund per year, but this amount varies based upon proposed projects.

Road Reimbursement Fund #264

The Road Reimbursement Fund is a revolving loan fund for road improvement projects in the Township. These funds are reimbursed to the Township via a special assessment district (SAD) that is usually paid off over a 3-10 year period. The Township has a history of matching

subdivision special assessment districts at a rate of 25% or \$1,000 per parcel, whichever is less. This fund also finances invasive lake weed removal.

Future Road Projects Fund #261

The Future Road Projects Fund is a “savings” fund which over time allows the Township to save large amounts of money for major road projects. A major road project can include contributions toward Michigan Department of Transportation or Livingston County Road Commission projects such as paving a portion of a gravel road, rerouting an existing road or intersection improvements such as round-a-bout installation. Approximately \$250,000 each year is transferred from the General Fund to the Future Road Projects Fund.

GRANT MONEY AND OTHER AGENCY

Michigan Natural Resources Trust Fund

The Michigan Natural Resources Trust Fund is a competitive state grant program which is administered by the Michigan Department of Natural Resources. The program’s purpose is to provide a source of funding for the public acquisition of lands for resource protection and public outdoor recreation.

Transportation Alternatives Program

The Transportation Alternatives Program (TAP) is a competitive federal grant program administered by the Michigan Department of Transportation (MDOT) and the Southeast Michigan Council of Governments. TAP offers funding opportunities for different types of transportation improvements such as pedestrian and bicycle infrastructure and safety programs, historic preservation and rehabilitation of transportation facilities, environmental mitigation activities and Safe Routes to School Programs.

Safe Routes to School

The Michigan Safe Routes to School Program is a competitive federal grant program administered by MDOT with support from the Michigan Fitness Foundation. The purposes of this program are to enable and encourage children in grades K-8 to walk and bicycle to school; to make bicycling and walking to school a safer and more appealing transportation choice, thereby encouraging a healthy and active lifestyle from an early age; and to facilitate the planning, development and implementation of projects and activities that will improve safety and reduce traffic, fuel consumption, and air pollution in the vicinity of elementary schools.

Michigan Department of Natural Resources Recreational Passport

The Recreational Passport program is a competitive state grant program which is administered by the Michigan Department of Natural Resources. The program’s purpose is to provide funds to be used for the development of public recreation facilities for local units of government and is

focused on renovating and improving existing parks. The development of new parks is eligible for this program.

OTHER AGENCY CONTRIBUTIONS

Marion Township

On road improvement projects for roads which share a border with other municipalities, the capital improvement plan identifies contribution from those adjacent municipalities. This plan lists Marion Township as sharing a portion of the cost of road improvement projects for Fisk Road and a portion of Brighton Road. This has not been previously discussed with Marion Township and at the time preliminary planning occurs an effort needs to be made to discuss participation in the project.

Hamburg Township

On road improvement projects for roads which share a border with other municipalities, the capital improvement plan identifies contribution from those adjacent municipalities. This plan lists Hamburg Township as sharing a portion of the cost of a road improvement project for a portion of Schafer Road. This has not been previously discussed with Hamburg Township and at the time preliminary planning occurs an effort needs to be made to discuss participation in the project.

Oceola Township

On road improvement projects for roads which share a border with other municipalities, the capital improvement plan identifies contribution from those adjacent municipalities. This plan lists Oceola Township as sharing a portion of the cost of a road improvement project for Golf Club Road.

Livingston County Road Commission

The Livingston County Road Commission is responsible for the majority of the public roads in Genoa Township. They receive a funding each year from the State of Michigan which they use for various road maintenance and improvement projects. The capital improvement plan identifies projects which estimate participation from both the Livingston County Road Commission and Genoa Township. The project that the Livingston County Road Commission is financing in this plan is the round-a-bout installation at the Coon Lake Road and Chilson Road intersection.

Unknown

Due to the high cost of certain projects identified in the plan, the need for other agency participation, and uncertainty regarding who will participate and how much will they contribute to a project, we have listed the funding method as unknown. The uncertainty with regards to road funding in the State of Michigan will have a large impact on the timeframe in which these projects are completed or if they are completed. As the capital improvement plan is updated every year, revenue sources will be added annually as they are identified.

EXPENDITURES

Land and Major Facilities

Expenditures which fall under this category include non-utility buildings or infrastructure involving new construction, building and grounds maintenance/upkeep, vehicle and equipment purchases, and land acquisition.

Services Support

Expenditures that fall under this category include computer/tablet purchases, software and website maintenance and updates, Master Plan updates, Zoning Ordinance updates, etc.

Sidewalks

Expenditures that fall under this category include sidewalk and pathway installation.

Gravel Road Improvements

Expenditures that fall under this category include gravel road improvements such as crushed limestone application.

Paved Road Improvements

Expenditures that fall under this category include paved road improvements such as road surface maintenance, new road construction, intersection improvements and traffic signal improvements.

IMPACT ON TOWNSHIP RESOURCES

Capital expenditures have substantial impacts on Township resources. In order to effectively plan for these large expenditures and ensure that sufficient funds remain for non-capital expenses, it is important to analyze the impacts these expenditures will have on the various fund balances that revenue is obtained from. The following are tables which depict the impacts the projected capital expenditures will have on various fund balances:

TABLE A: GENOA CHARTER TOWNSHIP CIP FINANCIAL SUMMARY

| | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | TOTAL |
|---|--------------------|------------------|------------------|------------------|------------------|------------------|--------------------|
| REQUIRED REVENUE: | | | | | | | |
| General Fund #101 | \$99,200 | \$42,800 | \$45,000 | \$59,600 | \$37,200 | \$37,800 | \$321,600 |
| Cemetery & Building Reserve Fund #271 | \$62,500 | \$0 | \$12,500 | \$25,000 | \$0 | \$0 | \$100,000 |
| Future Parks & Recreation Fund #270 | \$393,000 | \$31,350 | \$302,000 | \$166,250 | \$235,000 | \$250,000 | \$1,377,600 |
| General Fund - Road Improvement #101 | \$101,000 | \$0 | \$200,000 | \$148,000 | \$183,000 | \$0 | \$632,000 |
| Road Reimbursement Fund #264 | \$637,500 | \$0 | \$0 | \$0 | \$0 | \$0 | \$637,500 |
| Future Road Projects Fund #261 | \$212,500 | \$0 | \$0 | \$0 | \$0 | \$0 | \$212,500 |
| Various Grants & Other Agency Contribution | \$399,000 | \$600,000 | \$0 | \$308,750 | \$45,000 | \$0 | \$1,352,750 |
| TOTAL REVENUES: | \$1,904,700 | \$674,150 | \$559,500 | \$707,600 | \$500,200 | \$287,800 | \$4,633,950 |
| | | | | | | | |
| EXPENDITURES | | | | | | | |
| Land & Major Facilities | \$62,500 | \$31,350 | \$22,500 | \$25,000 | \$25,000 | \$2,000 | \$168,350 |
| Services Support | \$99,200 | \$42,800 | \$45,000 | \$59,600 | \$37,200 | \$37,800 | \$321,600 |
| Sidewalk Installation | \$393,000 | \$0 | \$292,000 | \$475,000 | \$255,000 | \$248,000 | \$1,663,000 |
| Gravel Road Improvements | \$0 | \$0 | \$200,000 | \$148,000 | \$183,000 | \$0 | \$531,000 |
| Paved Road Improvements | \$1,350,000 | \$600,000 | \$0 | \$0 | \$0 | \$0 | \$1,950,000 |
| TOTAL EXPENDITURES | \$1,904,700 | \$674,150 | \$559,500 | \$707,600 | \$500,200 | \$287,800 | \$4,633,950 |
| Required Revenue Over/(Under) Expenditures | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

TABLE B: GENERAL FUND #101 SUMMARY

| | 2012-13 - Actual | 2013-14 - Actual | 2014-15 - Projected | 2015-16 - Projected | 2016-17 - Projected | 2017-18 - Projected | 2018-19 - Projected | 2019-20 - Projected | 2020-21 - Projected |
|---|---------------------|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| REVENUE: (After 2015-16 Projected 1% Increase Each Fiscal Year) | | | | | | | | | |
| Taxes, Fees, State Shared, Transfers | \$3,950,804 | \$3,983,953 | \$4,257,500 | \$4,288,500 | \$4,331,385 | \$4,374,699 | \$4,418,446 | \$4,462,630 | \$4,507,257 |
| TOTAL REVENUES: | \$3,950,804 | \$3,983,953 | \$4,257,500 | \$4,288,500 | \$4,331,385 | \$4,374,699 | \$4,418,446 | \$4,462,630 | \$4,507,257 |
| | | | | | | | | | |
| EXPENDITURES: (After 2015-16 Project 3% Increase Each Fiscal Year) | | | | | | | | | |
| Services Support | - | - | - | \$99,200 | \$42,800 | \$45,000 | \$59,600 | \$37,200 | \$37,800 |
| Non-Capital Expenditures | \$2,936,170 | \$3,138,022 | \$3,342,500 | \$3,443,000 | \$3,546,290 | \$3,652,679 | \$3,762,259 | \$3,875,127 | \$3,991,381 |
| Road Improvement | \$116,695 | \$194,572 | \$250,000 | \$101,000 | \$0 | \$200,000 | \$148,000 | \$183,000 | \$0 |
| Transfer to Future Road Projects Fund #261 | \$200,000 | \$250,000 | \$250,000 | \$250,000 | \$10,000 | \$10,000 | \$50,000 | \$10,000 | \$10,000 |
| Transfer to Road Reimbursement Fund #264 | \$350,000 | \$500,000 | \$250,000 | \$250,000 | \$200,000 | \$200,000 | \$200,000 | \$200,000 | \$200,000 |
| Transfer to Future Parks & Recreation Fund #270 | \$379,000 | \$250,000 | \$350,000 | \$450,000 | \$200,000 | \$290,000 | \$191,000 | \$148,000 | \$257,000 |
| Transfer to Cemetery & Building Reserve Fund #271 | \$0 | \$200,000 | \$0 | \$10,000 | \$10,000 | \$10,000 | \$10,000 | \$10,250 | \$10,250 |
| | | | | | | | | | |
| TOTAL EXPENDITURES | \$3,981,865 | \$4,532,594 | \$4,442,500 | \$4,603,200 | \$4,009,090 | \$4,407,679 | \$4,420,859 | \$4,463,577 | \$4,506,431 |
| | | | | | | | | | |
| NET REVENUE/EXPENDITURES | (\$31,061) | (\$548,641) | (\$185,000) | (\$314,700) | \$322,295 | (\$32,980) | (\$2,413) | (\$947) | \$826 |
| BEGINNING GENERAL FUND BALANCE | \$2,593,463 | \$2,562,402 | \$2,013,761 | \$1,828,761 | \$1,514,061 | \$1,836,356 | \$1,803,376 | \$1,800,963 | \$1,800,016 |
| ENDING GENERAL FUND BALANCE | \$2,562,402 | \$2,013,761 | \$1,828,761 | \$1,514,061 | \$1,836,356 | \$1,803,376 | \$1,800,963 | \$1,800,016 | \$1,800,842 |
| GENERAL FUND BALANCE AS % OF EXPENDITURES | 64.35% | 44.43% | 41.17% | 32.89% | 45.80% | 40.91% | 40.74% | 40.33% | 39.96% |
| | | | | | | | | | |
| Future Road Projects Fund #261 Ending Balance | \$833,821 | \$939,276 | \$1,187,776 | \$1,225,276 | \$1,235,276 | \$1,245,276 | \$1,295,276 | \$1,305,276 | \$1,315,276 |
| Road Reimbursement Fund #264 Ending Balance | \$816,648 | \$644,726 | \$919,326 | \$617,126 | \$916,426 | \$1,215,726 | \$1,515,026 | \$1,814,326 | \$2,113,626 |
| Future Parks & Recreation Fund #270 Ending Balance | \$718,042 | \$496,837 | \$557,237 | \$562,407 | \$674,567 | \$598,403 | \$551,749 | \$388,499 | \$310,472 |
| Cemetery & Building Reserve Fund #271 Ending Balance | \$200,921 | \$282,543 | \$267,599 | \$215,399 | \$225,699 | \$223,499 | \$208,799 | \$219,349 | \$229,899 |
| BALANCE | \$2,569,432 | \$2,363,382 | \$2,931,938 | \$2,620,208 | \$3,051,968 | \$3,282,904 | \$3,570,850 | \$3,727,450 | \$3,969,273 |
| | | | | | | | | | |
| TOTAL BALANCE (GENERAL FUND & OTHER LISTED FUNDS) | \$5,131,834 | \$4,377,143 | \$4,760,699 | \$4,134,269 | \$4,888,324 | \$5,086,280 | \$5,371,813 | \$5,527,466 | \$5,770,116 |
| TOTAL BALANCE AS A % OF GENERAL FUND EXPENDITURES | 128.88% | 96.57% | 107.16% | 89.81% | 121.93% | 115.40% | 121.51% | 123.83% | 128.04% |

TABLE C: CEMETERY & BUILDING FUND #271 SUMMARY

| | 2012-13 - Actual | 2013-14 - Actual | 2014-15 - Projected | 2015-16 - Projected | 2016-17 - Projected | 2017-18 - Projected | 2018-19 - Projected | 2019-20 - Projected | 2020-21 - Projected |
|---------------------------------|---------------------|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| REVENUE: | | | | | | | | | |
| Interest Income | \$400 | \$275 | \$400 | \$300 | \$300 | \$300 | \$300 | \$300 | \$300 |
| Transfer from General Fund #101 | \$0 | \$200,000 | \$0 | \$10,000 | \$10,000 | \$10,000 | \$10,000 | \$10,250 | \$10,250 |
| Misc. Income | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL REVENUES: | \$400 | \$200,275 | \$400 | \$10,300 | \$10,300 | \$10,300 | \$10,300 | \$10,550 | \$10,550 |
| EXPENDITURES: | | | | | | | | | |
| Capital Improvements | | \$118,622 | \$50,000 | \$62,500 | \$0 | \$12,500 | \$25,000 | \$0 | \$0 |
| Misc/Audit | \$0 | \$31 | \$250 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL EXPENDITURES | \$0 | \$118,653 | \$50,250 | \$62,500 | \$0 | \$12,500 | \$25,000 | \$0 | \$0 |
| NET REVENUE/EXPENDITURES | \$400 | \$81,622 | (\$49,850) | (\$52,200) | \$10,300 | (\$2,200) | (\$14,700) | \$10,550 | \$10,550 |
| BEGINNING FUND BALANCE | \$200,521 | \$200,921 | \$282,543 | \$267,599 | \$215,399 | \$225,699 | \$223,499 | \$208,799 | \$219,349 |
| ENDING FUND BALANCE | \$200,921 | \$282,543 | \$267,599 | \$215,399 | \$225,699 | \$223,499 | \$208,799 | \$219,349 | \$229,899 |

TABLE D: FUTURE PARKS & RECREATION FUND #270 SUMMARY

| | 2012-13 - Actual | 2013-14 - Actual | 2014-15 - Projected | 2015-16 - Projected | 2016-17 - Projected | 2017-18 - Projected | 2018-19 - Projected | 2019-20 - Projected | 2020-21 - Projected |
|---|---------------------|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| REVENUE: | | | | | | | | | |
| Interest Income | \$2,561 | \$1,219 | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,000 | \$2,000 |
| Transfer from General Fund #101 | \$379,000 | \$250,000 | \$350,000 | \$450,000 | \$200,000 | \$290,000 | \$191,000 | \$148,000 | \$257,000 |
| Misc. Income | \$40,051 | \$12,750 | \$11,900 | \$11,900 | \$11,900 | \$11,900 | \$11,900 | \$11,900 | \$11,900 |
| TOTAL REVENUES: | \$421,612 | \$263,969 | \$363,900 | \$463,900 | \$213,900 | \$303,900 | \$204,900 | \$161,900 | \$270,900 |
| EXPENDITURES: | | | | | | | | | |
| Capital Improvements | \$404,750 | \$484,374 | \$302,000 | \$393,000 | \$31,350 | \$302,000 | \$166,250 | \$235,000 | \$250,000 |
| Township Hall Path and Recreation Maintenance | - | - | - | \$60,000 | \$61,800 | \$63,654 | \$65,564 | \$67,531 | \$69,556 |
| Additional Sidewalk Maintenance | - | - | - | \$4,230 | \$7,090 | \$12,910 | \$18,240 | \$21,120 | \$27,870 |
| Misc/Audit | \$2,047 | \$800 | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$1,500 |
| TOTAL EXPENDITURES | \$406,797 | \$485,174 | \$303,500 | \$458,730 | \$101,740 | \$380,064 | \$251,554 | \$325,151 | \$348,926 |
| NET REVENUE/EXPENDITURES | \$14,815 | (\$221,205) | \$60,400 | \$5,170 | \$112,160 | (\$76,164) | (\$46,654) | (\$163,251) | (\$78,026) |
| BEGINNING FUND BALANCE | \$703,227 | \$718,042 | \$496,837 | \$557,237 | \$562,407 | \$674,567 | \$598,403 | \$551,749 | \$388,499 |
| ENDING FUND BALANCE | \$718,042 | \$496,837 | \$557,237 | \$562,407 | \$674,567 | \$598,403 | \$551,749 | \$388,499 | \$310,472 |

TABLE E: FUTURE ROAD PROJECT FUND #261 SUMMARY

| | 2012-13 - Actual | 2013-14 - Actual | 2014-15 - Projected | 2015-16 - Projected | 2016-17 - Projected | 2017-18 - Projected | 2018-19 - Projected | 2019-20 - Projected | 2020-21 - Projected |
|--|---------------------|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| REVENUE: | | | | | | | | | |
| Interest Income | \$900 | \$520 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 |
| Transfer from General Fund #101 | \$200,000 | \$250,000 | \$250,000 | \$250,000 | \$10,000 | \$10,000 | \$50,000 | \$10,000 | \$10,000 |
| Misc. Income | \$0 | \$139,416 | \$0 | \$0 | | \$0 | \$0 | \$0 | \$0 |
| TOTAL REVENUES: | \$200,900 | \$389,936 | \$251,000 | \$251,000 | \$11,000 | \$11,000 | \$51,000 | \$11,000 | \$11,000 |
| EXPENDITURES: | | | | | | | | | |
| Capital Improvements | \$537,703 | \$283,763 | \$0 | \$212,500 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Misc/Audit | \$657 | \$718 | \$2,500 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 |
| TOTAL EXPENDITURES | \$538,360 | \$284,481 | \$2,500 | \$213,500 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 |
| NET REVENUE/EXPENDITURES | (\$337,460) | \$105,455 | \$248,500 | \$37,500 | \$10,000 | \$10,000 | \$50,000 | \$10,000 | \$10,000 |
| BEGINNING FUND BALANCE | \$1,171,281 | \$833,821 | \$939,276 | \$1,187,776 | \$1,225,276 | \$1,235,276 | \$1,245,276 | \$1,295,276 | \$1,305,276 |
| ENDING FUND BALANCE | \$833,821 | \$939,276 | \$1,187,776 | \$1,225,276 | \$1,235,276 | \$1,245,276 | \$1,295,276 | \$1,305,276 | \$1,315,276 |

TABLE F: ROAD REIMBURSEMENT FUND #264 SUMMARY

| | 2012-13 - Actual | 2013-14 - Actual | 2014-15 - Projected | 2015-16 - Projected | 2016-17 - Projected | 2017-18 - Projected | 2018-19 - Projected | 2019-20 - Projected | 2020-21 - Projected |
|----------------------------------|-----------------------------|-----------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| REVENUE: | | | | | | | | | |
| Interest Income | \$558 | \$918 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 |
| Revenue from Special Assessments | \$114,567 | \$191,744 | \$174,400 | \$227,300 | \$241,300 | \$241,300 | \$241,300 | \$241,300 | \$241,300 |
| Transfer from General Fund #101 | \$350,000 | \$500,000 | \$250,000 | \$250,000 | \$200,000 | \$200,000 | \$200,000 | \$200,000 | \$200,000 |
| Misc. Income | \$3,500 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL REVENUES: | \$468,625 | \$692,662 | \$425,400 | \$478,300 | \$442,300 | \$442,300 | \$442,300 | \$442,300 | \$442,300 |
| EXPENDITURES: | | | | | | | | | |
| Capital Improvements | \$136,460 | \$741,403 | \$7,300 | \$637,500 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Lake Weed Removal | \$77,649 | \$120,543 | \$140,500 | \$140,000 | \$140,000 | \$140,000 | \$140,000 | \$140,000 | \$140,000 |
| Misc/Audit | \$2,559 | \$2,638 | \$3,000 | \$3,000 | \$3,000 | \$3,000 | \$3,000 | \$3,000 | \$3,000 |
| TOTAL EXPENDITURES | \$216,668 | \$864,584 | \$150,800 | \$780,500 | \$143,000 | \$143,000 | \$143,000 | \$143,000 | \$143,000 |
| NET REVENUE/EXPENDITURES | \$251,957 | (\$171,922) | \$274,600 | (\$302,200) | \$299,300 | \$299,300 | \$299,300 | \$299,300 | \$299,300 |
| BEGINNING FUND BALANCE | \$564,691 | \$816,648 | \$644,726 | \$919,326 | \$617,126 | \$916,426 | \$1,215,726 | \$1,515,026 | \$1,814,326 |
| ENDING FUND BALANCE | \$816,648 | \$644,726 | \$919,326 | \$617,126 | \$916,426 | \$1,215,726 | \$1,515,026 | \$1,814,326 | \$2,113,626 |

FIGURE 1: TOTAL CAPITAL EXPENDITURES 2015-2021

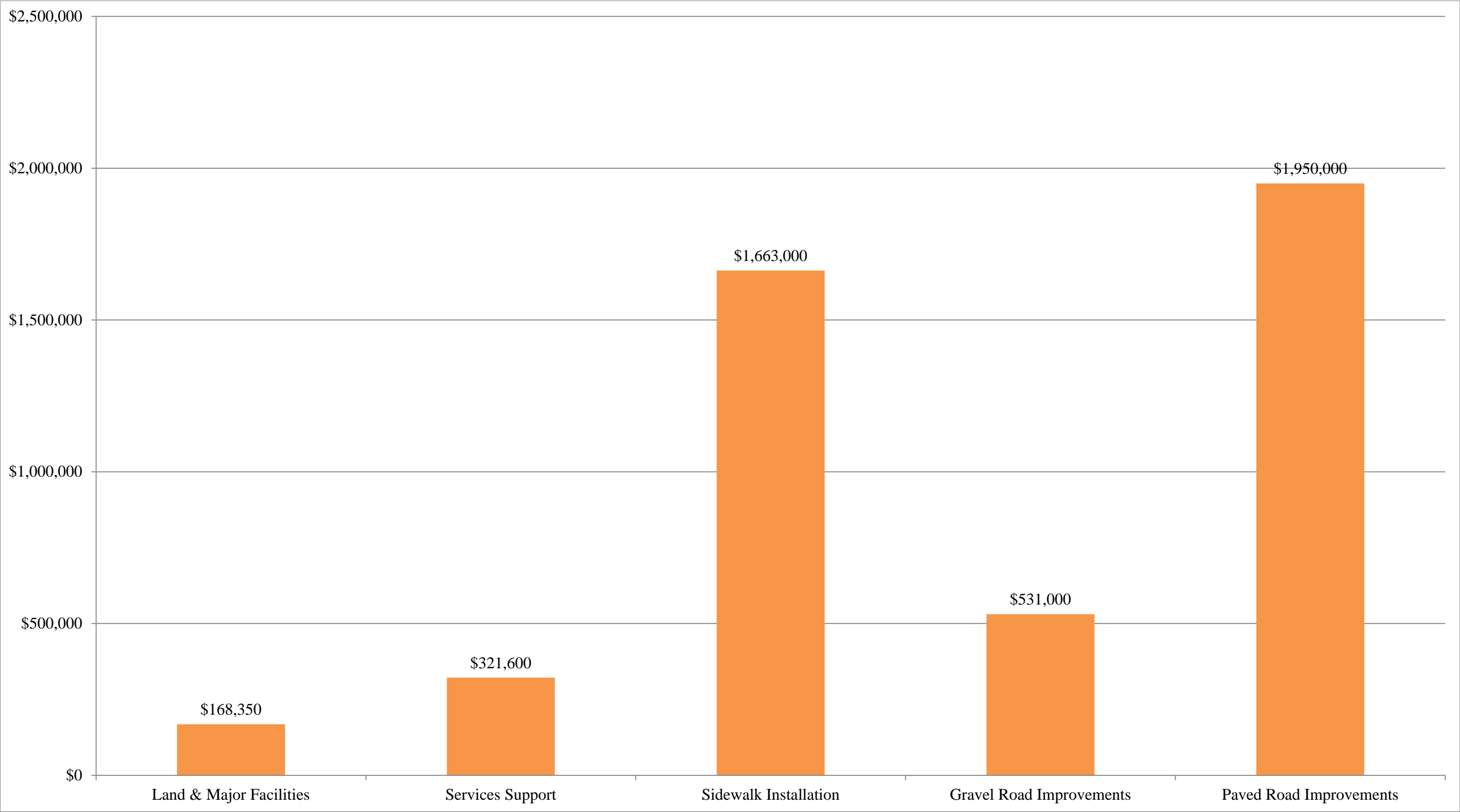


FIGURE 2: TOTAL CAPITAL EXPENDITURES 2015-16 FISCAL YEAR

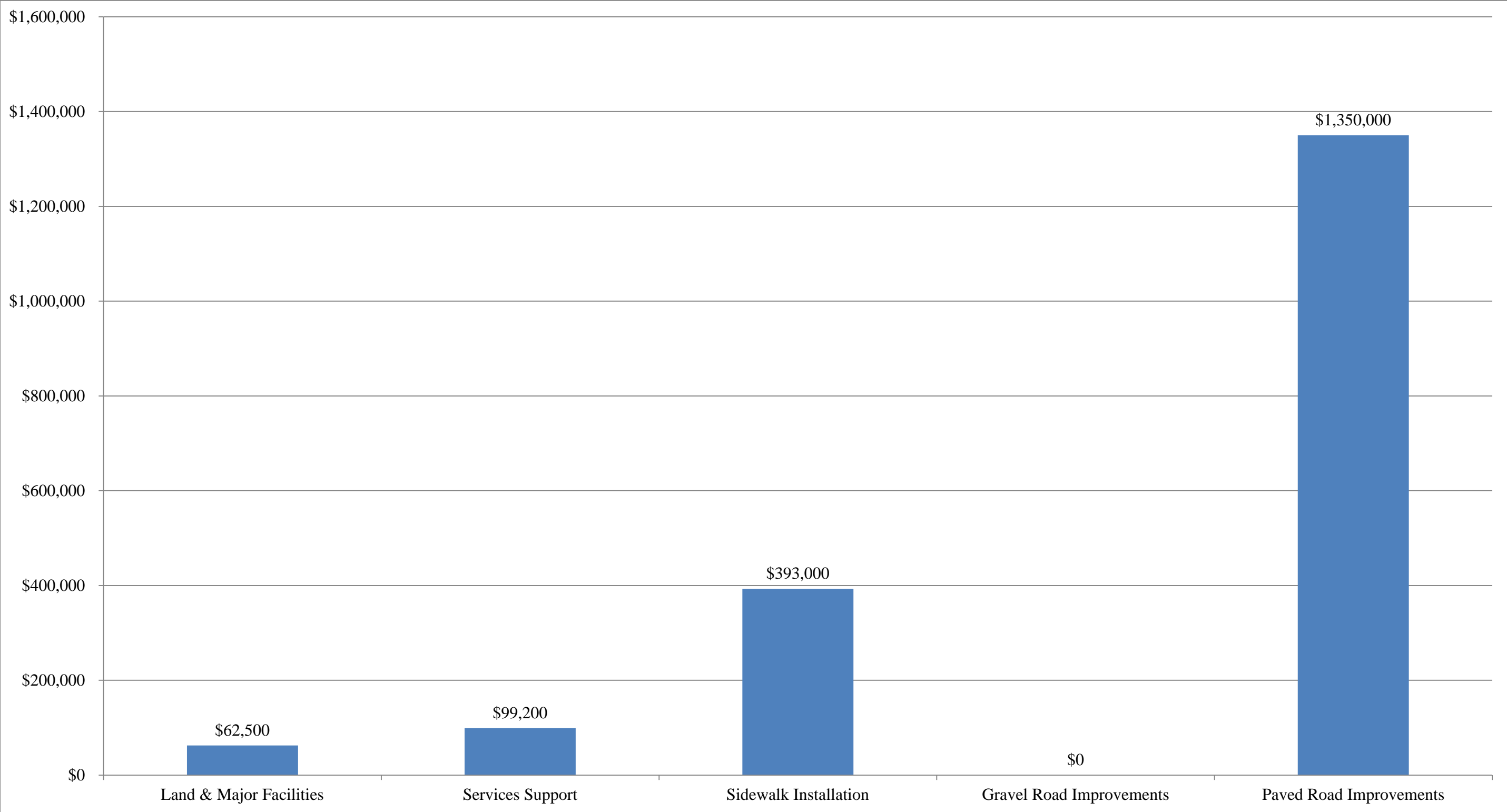


FIGURE 3: FISCAL YEAR ENDING FUND BALANCES

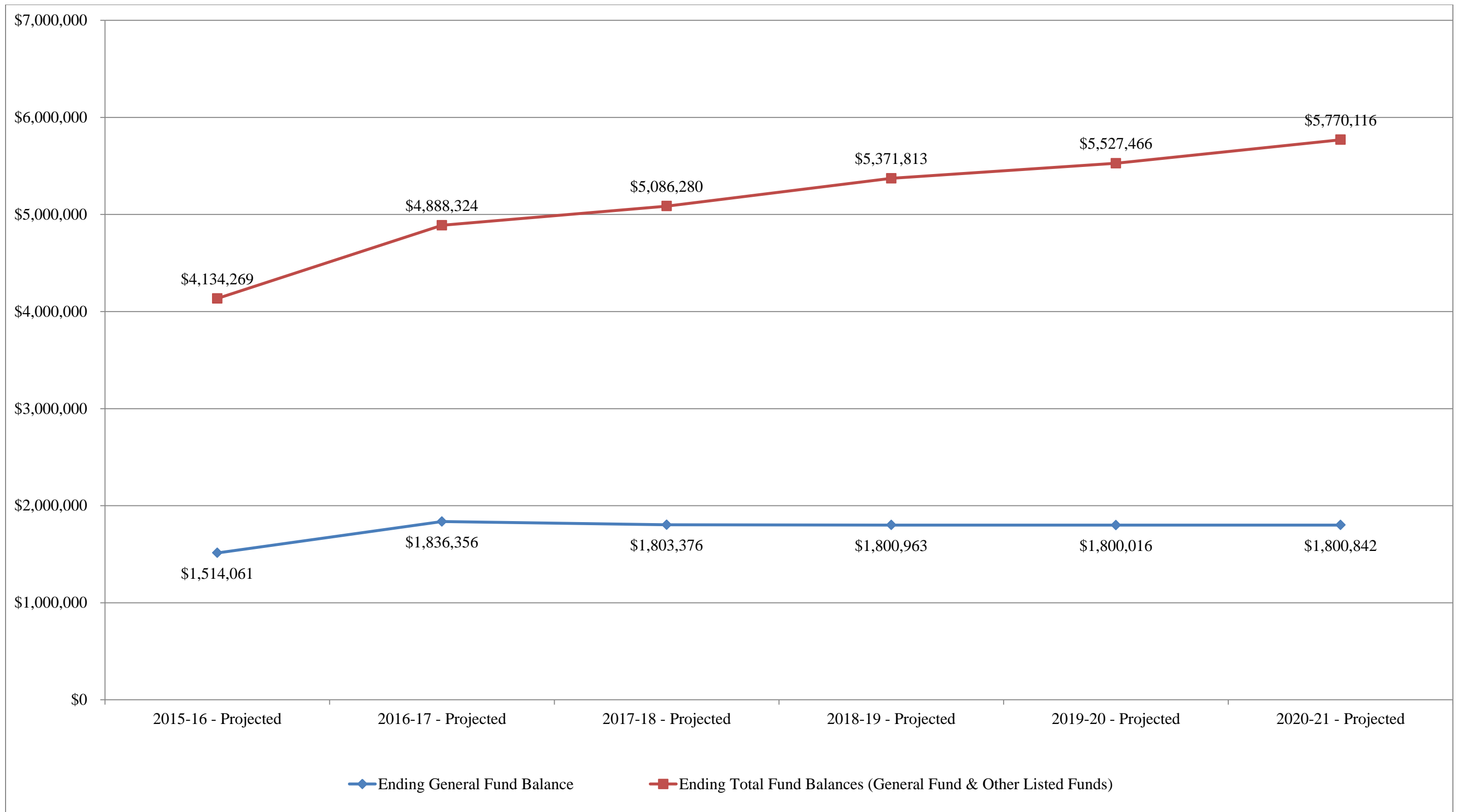


FIGURE 4: FUND BALANCES AS A % OF GENERAL FUND EXPENDITURES

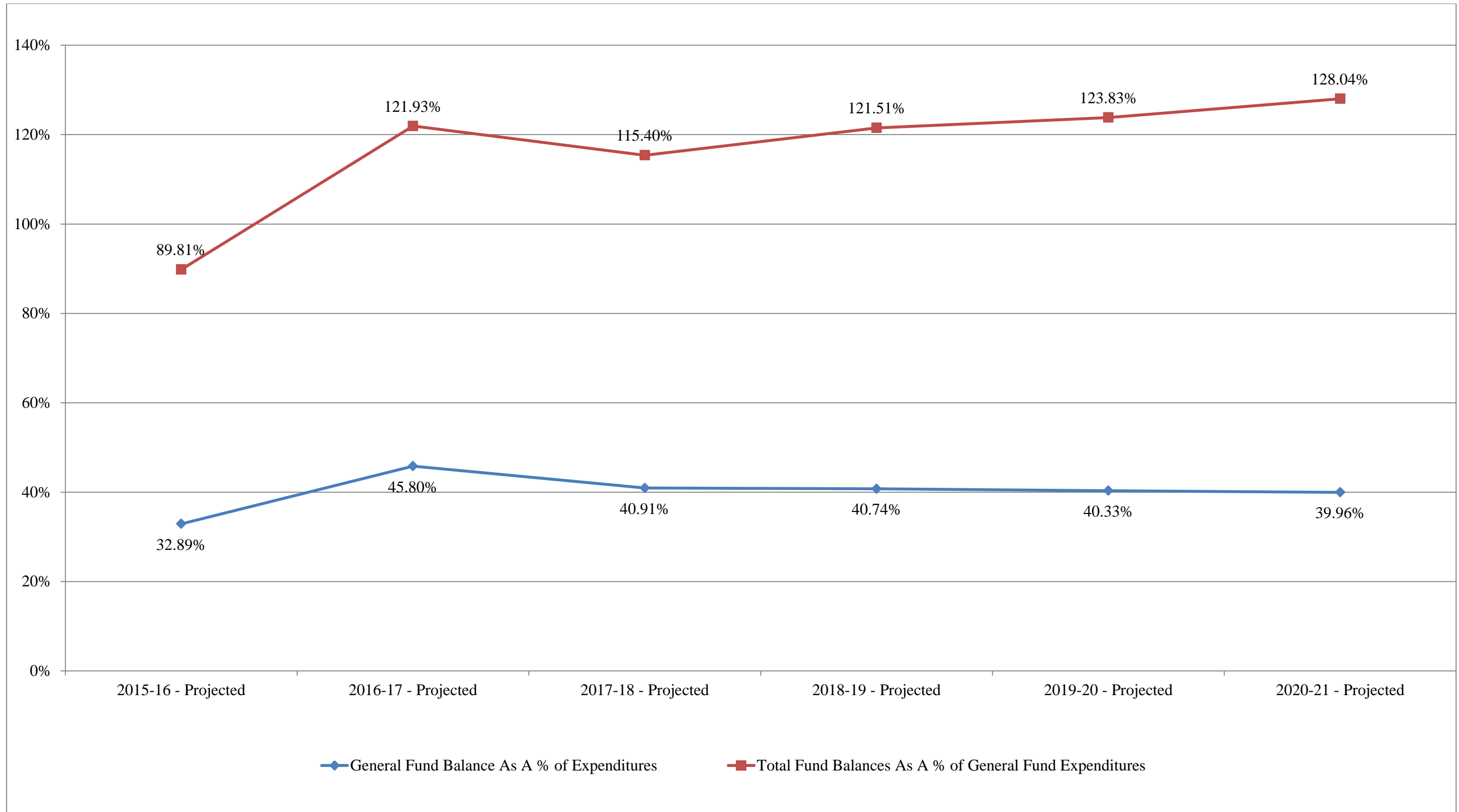


TABLE G: LAND & MAJOR FACILITIES PROJECTS

| PROJECT | FUND SOURCE | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | FUTURE | TOTAL |
|--|---------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|--------------------|--------------------|
| Park Acquisition | Future Parks & Recreation Fund #270 | | | | | | | \$500,000 | \$650,000 |
| | MNRTF | | | | | | | \$150,000 | |
| Senior Citizen Playground | Future Parks & Recreation Fund #270 | | \$31,350 | | | | | | \$31,350 |
| Irrigation System for Lower Fields | Future Parks & Recreation Fund #270 | | | | | | | \$28,000 | \$28,000 |
| Park Information Sign | Future Parks & Recreation Fund #270 | | | | | | \$2,000 | | \$2,000 |
| Shaded Park Benches | Future Parks & Recreation Fund #270 | | | | | \$25,000 | | | \$25,000 |
| Softball/baseball Complex | Future Parks & Recreation Fund #270 | | | | | | | \$1,330,000 | \$1,630,000 |
| | MNRTF | | | | | | | \$300,000 | |
| Township Hall Carpet replacement | Cemetery & Building Reserve Fund #271 | \$12,500 | | \$12,500 | | | | | \$25,000 |
| Repair and Replace Township Hall Parking Lot | Cemetery & Building Reserve Fund #271 | \$50,000 | | | | | | | \$50,000 |
| Township Park Path System | Future Parks & Recreation Fund #270 | | | | | | | \$98,000 | \$98,000 |
| Township Truck Replacement | Cemetery & Building Reserve Fund #271 | | | | \$25,000 | | | | \$25,000 |
| Township Hall Park Build-out Plan | Future Parks & Recreation Fund #270 | | | \$10,000 | | | | | \$10,000 |
| TOTAL | | \$62,500 | \$31,350 | \$22,500 | \$25,000 | \$25,000 | \$2,000 | \$2,406,000 | \$2,574,350 |

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LAND & MAJOR FACILITIES - PROJECT DESCRIPTION

| | |
|------------------------|---|
| Project Title: | Park Acquisition |
| Funding Source: | Future Parks & Recreation Fund #270; Michigan Natural Resources Trust Fund |

| | | | | | | | |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
| Est. Cost: | 0 | 0 | 0 | 0 | 0 | 0 | \$650,000 |

| Project Description and Location |
|--|
| <p>This project involves the purchase of property for future Township recreational needs. The Genoa Township Recreation Plan adopted in 2002 highlights three areas where the Township should focus their efforts with regards to land acquisition. These areas are near Kellogg Road and McClements Road; Brighton Road and Chilson Road; and Crooked Lake Road and S. Latson Road. Due to Livingston County looking at plans to develop a park near Kellogg Road and McClements Road, efforts should be focused on expansion of the existing Township Hall Park.</p> |

| Justification |
|---|
| <p>The Genoa Township Master Plan highlights two specific goals attributed to park acquisition. These goals are to, “Provide high-quality centralized parks, recreation facilities and open space to meet the needs of Township residents,” and to, “Provide public spaces that meet the needs of Township residents and can expand or adapt to meet the needs of the future population.”</p> |

| Schedule |
|--|
| <p>There is no specific timeline listed in the Capital Improvement Program for park acquisition. It is unpredictable when ideal property will become available for sale. Due to this it is important to maintain adequate fund balances to allow for the purchase of property when it becomes available.</p> |

| Impact on Operating Expenses |
|--|
| <p>Cost projections are an approximate estimate based on recent land costs in the Township. As property is purchased more funding will need to be set aside for maintenance and eventual improvement of park property.</p> |

LAND & MAJOR FACILITIES - PROJECT DESCRIPTION

| | |
|------------------------|-------------------------------------|
| Project Title: | Senior Citizen Playground |
| Funding Source: | Future Parks & Recreation Fund #270 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | 0 | \$31,350 | 0 | 0 | 0 | 0 | 0 |

| Project Description and Location |
|---|
| This project involves purchasing and installing exercise equipment specifically made for senior citizens at the Township Hall Park. |

| Justification |
|---|
| This project promotes active recreation, further enhances the Township Hall Park and provides an additional recreation opportunity to promote healthy activity. |

| Schedule |
|---|
| This project is estimated to be completed in fiscal year 2016-17. |

| Impact on Operating Expenses |
|---|
| Annual expenses to this project will include routine maintenance. |

LAND & MAJOR FACILITIES - PROJECT DESCRIPTION

| | |
|------------------------|-------------------------------------|
| Project Title: | Irrigation System of Lower Field |
| Funding Source: | Future Parks & Recreation Fund #270 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | 0 | 0 | 0 | 0 | 0 | 0 | \$28,000 |

| Project Description and Location |
|---|
| <p>This project involves the installation of an irrigation system for the fields at the base of the sled hill on the Township Hall Park property.</p> |

| Justification |
|---|
| <p>Promoting active recreation was identified in the 2002 Parks and Recreation Plan. By irrigating the fields, the condition could be improved so the area could be used for soccer or lacrosse fields.</p> |

| Schedule |
|--|
| <p>This project is listed as a future project. This project should be scheduled after the creation of a Township Hall property master plan which will give the Township Board the opportunity to determine what necessary park improvements should be.</p> |

| Impact on Operating Expenses |
|---|
| <p>Annual maintenance and inspections will need to occur if the system is installed, which will increase the annual maintenance costs of the Township Hall Park property.</p> |

LAND & MAJOR FACILITIES - PROJECT DESCRIPTION

| | |
|------------------------|-------------------------------------|
| Project Title: | Park Information Sign |
| Funding Source: | Future Parks & Recreation Fund #270 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | 0 | 0 | 0 | 0 | 0 | \$2,000 | 0 |

| Project Description and Location |
|--|
| This project involves the installation of an information sign at the Township Park depicting a map of the property and information regarding the facilities. |

| Justification |
|---|
| Enhancing the Township Hall Park through interpretive signage was identified in the 2002 Parks and Recreation Plan. |

| Schedule |
|--|
| This project is scheduled for the 2020-21 fiscal year. |

| Impact on Operating Expenses |
|--|
| Installation should have a limited impact on operating expenses. |

LAND & MAJOR FACILITIES - PROJECT DESCRIPTION

| | |
|------------------------|-------------------------------------|
| Project Title: | Shaded Park Benches |
| Funding Source: | Future Parks & Recreation Fund #270 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | 0 | 0 | 0 | 0 | \$25,000 | 0 | 0 |

| Project Description and Location |
|--|
| <p>This project involves the installation of shaded seating areas at the Township Hall Park.</p> |

| Justification |
|--|
| <p>The goal, “Genoa Township will provide its residents a destination to recreate with friends, family and neighbors that offers a variety of recreation activities to serve the needs and interests of the community” was identified in the 2002 Parks and Recreation Plan. We have had feedback from the residents regarding the lack of shaded seating areas facing the playground areas of the Township Hall Park.</p> |

| Schedule |
|---|
| <p>This project is scheduled for the 2019-20 fiscal year.</p> |

| Impact on Operating Expenses |
|---|
| <p>Additional facilities or equipment will need routine maintenance and upkeep.</p> |

LAND & MAJOR FACILITIES - PROJECT DESCRIPTION

| | |
|------------------------|--|
| Project Title: | Softball/Baseball Complex |
| Funding Source: | Future Parks & Recreation Fund #270 Michigan Natural Resources Trust Fund |

| | | | | | | | |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
| Est. Cost: | 0 | 0 | 0 | 0 | 0 | 0 | \$1,630,000 |

| Project Description and Location |
|---|
| <p>This project involves the construction of a softball/baseball field complex and the associated parking and buildings. The location is unknown.</p> |

| Justification |
|--|
| <p>“Offer a community park that can be used for fundamental active recreation such as ball fields and soccer fields to enhance community and regional recreation programs” was identified in the 2002 Parks and Recreation Plan as an objective.</p> |

| Schedule |
|--|
| <p>This project is listed as a future project. The existing Township Hall property is not adequately sized for softball/baseball fields. Additional property would need to be acquired to accomplish this. The project should be scheduled when additional property is acquired.</p> |

| Impact on Operating Expenses |
|---|
| <p>The development of a softball/baseball complex would have a large impact on operating expenses. Additional funds will need to be set aside for lawn and field maintenance.</p> |

LAND & MAJOR FACILITIES - PROJECT DESCRIPTION

| | |
|------------------------|---------------------------------------|
| Project Title: | Township Hall Carpet Replacement |
| Funding Source: | Cemetery & Building Reserve Fund #271 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | \$12,500 | 0 | \$12,500 | 0 | 0 | 0 | 0 |

| Project Description and Location |
|---|
| This project involves the replacement of the carpet at Township Hall which is starting to show signs of wear. |

| Justification |
|--|
| The existing carpet is 17 years old and expected wear and tear is visible. |

| Schedule |
|--|
| Preparation, removal and installation should take approximately one week. The replacement of the Boardroom carpet at Township Hall is scheduled for fiscal year 2015-16 and the replacement of the office areas carpet is scheduled for fiscal year 2017-18. |

| Impact on Operating Expenses |
|---|
| This project would have a limited impact on operating expenses. The use of carpet tiles would make carpet repairs easier and more cost effective. |

LAND & MAJOR FACILITIES - PROJECT DESCRIPTION

| | |
|------------------------|---|
| Project Title: | Repair and Replace the Township Hall Parking Lots |
| Funding Source: | Cemetery & Building Reserve Fund #271 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | \$50,000 | 0 | 0 | 0 | 0 | 0 | 0 |

| Project Description and Location |
|--|
| This project involves the pavement maintenance and repair on the Township Hall Parking lot in order to extend the parking lot's useful life. |

| Justification |
|---|
| Project will extend the useful life of the parking lot. |

| Schedule |
|--|
| This project is scheduled for the 2015-16 fiscal year. |

| Impact on Operating Expenses |
|--|
| This project would have a limited impact if any on operating expenses. |

LAND & MAJOR FACILITIES - PROJECT DESCRIPTION

| | |
|------------------------|-------------------------------------|
| Project Title: | Township Park Path System |
| Funding Source: | Future Parks & Recreation Fund #270 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | 0 | 0 | 0 | 0 | 0 | 0 | \$98,000 |

| Project Description and Location |
|--|
| This project involves installing additional pathway in the Township Hall Park to complete a one (1) mile long trail. |

| Justification |
|--|
| The 2002 Parks and Recreation Plan states, “Enhance the Township Hall park through passive recreation improvements, nature trails and interpretive signage” as an objective. |

| Schedule |
|---|
| This project is listed as a future project. This project should be scheduled after the creation of a Township Hall property master plan which will give the Township Board the opportunity to determine what necessary park improvements should be. |

| Impact on Operating Expenses |
|--|
| This project would increase annual maintenance costs for the Township Hall Park. |

LAND & MAJOR FACILITIES - PROJECT DESCRIPTION

| | |
|------------------------|---------------------------------------|
| Project Title: | Township Truck Replacement |
| Funding Source: | Cemetery & Building Reserve Fund #271 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | 0 | 0 | 0 | \$25,000 | 0 | 0 | 0 |

| Project Description and Location |
|--|
| This project involves the purchase of a new Township pickup truck. |

| Justification |
|---|
| The Township truck is used by the Facilities Manager, Assessing and Ordinance Enforcement Officers. A pickup truck is required due to the number of items that need to be transported during elections and for the removal of signs in the road right-of-way. |

| Schedule |
|---|
| This project is scheduled in the 2018-19 fiscal year. |

| Impact on Operating Expenses |
|--|
| Operating expenses should remain consistent by replacing the Township truck. Depending on the fuel efficiency of the new truck, the Township may save money in fuel costs, but any savings would be minimal. |

LAND & MAJOR FACILITIES - PROJECT DESCRIPTION

| | |
|------------------------|---------------------------------------|
| Project Title: | Township Hall Park Build Out Plan |
| Funding Source: | Cemetery & Building Reserve Fund #271 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | 0 | 0 | \$10,000 | 0 | 0 | 0 | 0 |

| Project Description and Location |
|---|
| This project involves the creation of a master development plan of the Township Hall Park property. |

| Justification |
|---|
| To plan for the future development of Township Hall Park and recreation facilities. |

| Schedule |
|--|
| This project is scheduled for the 2017-18 fiscal year. |

| Impact on Operating Expenses |
|---|
| If implemented it should promote efficient and effective use of Township resources by focusing the needs and desires of the community and evaluating this based on existing facilities. |

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TABLE H: SERVICES SUPPORT PROJECTS

| PROJECT | FUND SOURCE | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | FUTURE | TOTAL |
|--|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Computer Rotation | General Fund #101 | \$ 6,000 | \$ 6,000 | \$ 6,000 | | | | | \$ 18,000 |
| Tablet Rotation | General Fund #101 | | \$ 3,000 | \$ 3,000 | \$ 3,000 | | | | \$ 9,000 |
| Server Replacements | General Fund #101 | | | | | | | \$ 10,000 | \$ 10,000 |
| Software | | | | | | | | | |
| <i>BSA</i> | General Fund #101 | \$ 4,600 | \$ 4,700 | \$ 4,800 | \$ 4,900 | \$ 5,000 | \$ 5,100 | | \$ 29,100 |
| <i>Springbrook</i> | General Fund #101 | \$ 6,600 | \$ 6,900 | \$ 7,200 | \$ 7,500 | \$ 7,800 | \$ 8,100 | | \$ 44,100 |
| <i>ArcGIS Map</i> | General Fund #101 | \$ 5,000 | \$ 5,200 | \$ 5,400 | \$ 5,600 | \$ 5,800 | \$ 6,000 | | \$ 33,000 |
| Software Total | | \$ 16,200 | \$ 16,800 | \$ 17,400 | \$ 18,000 | \$ 18,600 | \$ 19,200 | | |
| Copier/Printer Maintenance & Replacement | General Fund #101 | \$ 17,000 | \$ 17,000 | \$ 18,600 | \$ 18,600 | \$ 18,600 | \$ 18,600 | | \$ 108,400 |
| Website Update | General Fund #101 | \$ 10,000 | | | | | | | \$ 10,000 |
| Zoning Ordinance Update | General Fund #101 | \$ 50,000 | | | | | | | \$ 50,000 |
| Master Plan Update | General Fund #101 | | | | \$ 20,000 | | | | |
| TOTAL | | \$ 99,200 | \$ 42,800 | \$ 45,000 | \$ 59,600 | \$ 37,200 | \$ 37,800 | \$ 10,000 | \$ 311,600 |

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SERVICES SUPPORT - PROJECT DESCRIPTION

| | |
|------------------------|-------------------|
| Project Title: | Computer Rotation |
| Funding Source: | General Fund #101 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | \$6,000 | \$6,000 | \$6,000 | 0 | 0 | 0 | 0 |

| Project Description and Location |
|--|
| <p>This is a program for the replacement of computer workstations. There are currently twenty-five (25) workstation desktops and staff has devised a schedule to replace machines approximately every three to five years.</p> |

| Justification |
|--|
| <p>The useful life of a desktop is approximately three to five years. Worker productivity suffers and maintenance costs increase when machines start to become obsolete. Capital costs of new equipment are spread out via a replacement schedule.</p> |

| Schedule |
|---|
| <p>Please see the replacement schedule.</p> |

| Impact on Operating Expenses |
|--|
| <p>New machines will reduce ongoing maintenance costs.</p> |

SERVICES SUPPORT - PROJECT DESCRIPTION

| | |
|------------------------|-------------------|
| Project Title: | Tablet Rotation |
| Funding Source: | General Fund #101 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | 0 | \$3,000 | \$3,000 | \$3,000 | 0 | 0 | 0 |

| Project Description and Location |
|--|
| <p>This is a program for the replacement of the 19 tablets currently in use by the Township staff, elected officials, and appointed officials.</p> |

| Justification |
|--|
| <p>The useful life of a tablet is approximately three to ten years. Worker productivity suffers and maintenance costs increase when machines start to become obsolete. Capital costs of new equipment are spread out via a replacement schedule.</p> |

| Schedule |
|---|
| <p>Please see the replacement schedule.</p> |

| Impact on Operating Expenses |
|---|
| <p>This project will have a limited impact on operating expenses.</p> |

SERVICES SUPPORT - PROJECT DESCRIPTION

| | |
|------------------------|---------------------|
| Project Title: | Server Replacements |
| Funding Source: | General Fund #101 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | 0 | 0 | 0 | 0 | 0 | 0 | \$10,000 |

| Project Description and Location |
|---|
| This project involves replacing a server at Township Hall to maintain the Township's information systems network. |

| Justification |
|--|
| To ensure information integrity and data security, it is important to ensure this technology is regularly updated. |

| Schedule |
|--|
| This project is scheduled as a future project. One (1) server was replaced in the 2014-15 fiscal year. |

| Impact on Operating Expenses |
|--|
| This project will have a limited impact on operating expenses. |

SERVICES SUPPORT - PROJECT DESCRIPTION

| | |
|------------------------|--------------------|
| Project Title: | Software Purchases |
| Funding Source: | General Fund #101 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | \$16,200 | \$16,800 | \$17,400 | \$18,000 | \$18,600 | \$19,200 | 0 |

| Project Description and Location |
|--|
| This project includes several anticipated software purchases and upgrades. |

| Justification |
|---|
| The listed software performs several different functions. Springbrook is an accounting software used by the Clerk's department. ArcGIS is mapping software used by the Manager's, Assessor's and the Utility departments. BS&A is a database management software used by the Manager's, Assessing and Treasurer's department. |

| Schedule |
|--------------------------------------|
| Maintenance costs are paid annually. |

| Impact on Operating Expenses |
|--|
| Annual maintenance costs are taken from the General Fund operating budget. |

SERVICES SUPPORT - PROJECT DESCRIPTION

| | |
|------------------------|--|
| Project Title: | Copier/Printer Maintenance and Replacement |
| Funding Source: | General Fund #101 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | \$17,000 | \$17,000 | \$18,600 | \$18,600 | \$18,600 | \$18,600 | 0 |

| Project Description and Location |
|---|
| The Township contracts with a company which owns and maintains the printers and copiers in the Township Hall Office. This cost includes annual maintenance and replacement of our printers and copiers. |

| Justification |
|--|
| Printers and copiers are necessary for day-to-day office duties and for the printing of bi-annual tax bills and assessment change notices. |

| Schedule |
|---|
| It is anticipated that a copier will need to be replaced in the 2017-18 fiscal year which will increase annual operating costs. |

| Impact on Operating Expenses |
|--|
| The annual maintenance costs will increase after a proposed copier replacement in 2017-18. |

SERVICES SUPPORT - PROJECT DESCRIPTION

| | |
|------------------------|-------------------|
| Project Title: | Website Update |
| Funding Source: | General Fund #101 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | \$10,000 | 0 | 0 | 0 | 0 | 0 | 0 |

| Project Description and Location |
|---|
| This project is to update the Township website in order to ensure that we are keeping up with new technology and providing an attractive, professional website to Township residents. |

| Justification |
|--|
| Keeping up with new technology allows the Township to communicate information to our residents more effectively. |

| Schedule |
|--|
| This project is proposed in the 2015-16 fiscal year and should take approximately one (1) to two (2) months. |

| Impact on Operating Expenses |
|---|
| This project should have a limited impact on operating costs. |

SERVICES SUPPORT - PROJECT DESCRIPTION

| | |
|------------------------|-------------------------|
| Project Title: | Zoning Ordinance Update |
| Funding Source: | General Fund #101 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | \$50,000 | 0 | 0 | 0 | 0 | 0 | 0 |

| Project Description and Location |
|---|
| In 2013 the Township Master Plan was updated. There were several changes to the Master Plan which resulted in various recommendations to change the Zoning Ordinance. Due to these recommendations and the age of our existing Zoning Ordinance, we have proposed to rewrite and reformat the Zoning Ordinance. |

| Justification |
|--|
| The Michigan Zoning Enabling Act requires that a Zoning Ordinance be based on the Township Master Plan. It is in the best interest of the Township to ensure these documents are aligned and that our Zoning Ordinance is updated to ensure we are responsive to community trends. |

| Schedule |
|--|
| This project was approved at the January 20, 2015 Township Board of Trustees Meeting. This project will take approximately 4-6 months to complete. |

| Impact on Operating Expenses |
|--|
| This project will have no direct impact on operating expenses. |

SERVICES SUPPORT - PROJECT DESCRIPTION

| | |
|------------------------|--------------------|
| Project Title: | Master Plan Update |
| Funding Source: | General Fund #101 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | 0 | 0 | 0 | \$20,000 | 0 | 0 | 0 |

| Project Description and Location |
|---|
| <p>The Michigan Planning Enabling Act requires the Township to review its Master Plan every five (5) years. The last review of the Master Plan was in 2013. This expense is budgeted for in the event it is determined that an update to the Master Plan is required.</p> |

| Justification |
|---|
| <p>This review of the Township Master Plan every five (5) years is a statutory requirement.</p> |

| Schedule |
|--|
| <p>This project is scheduled for the fiscal year 2018-19 and will take 3-5 months to complete.</p> |

| Impact on Operating Expenses |
|---|
| <p>This project will have no direct impact on operating expenses.</p> |

TABLE I: TABLET ROTATION

| ASSET ID | EMPLOYEE | DATE ACQUIRED | DESCRIPTION | DATE OF REPLACEMENT |
|-----------------|-------------------|----------------------|--------------------|----------------------------|
| 1 | Linda Rowell | 4/1/2012 | iPad2 | 4/1/2016 |
| 2 | Jim Mortensen | 4/1/2012 | iPad2 | 4/1/2016 |
| 3 | Polly Skolarus | 4/1/2012 | iPad2 | 4/1/2016 |
| 4 | Robin Hunt | 4/1/2012 | iPad2 | 4/1/2016 |
| 5 | Gary McCririe | 4/1/2012 | iPad2 | 4/1/2016 |
| 6 | Todd Smith | 4/1/2012 | iPad2 | 4/1/2016 |
| 7 | Jean Ledford | 4/1/2012 | iPad2 | 4/1/2016 |
| | | | | |
| 8 | Chris Grajek | 4/1/2012 | iPad2 | 4/1/2017 |
| 9 | Jeff Dhaenens | 4/1/2012 | iPad2 | 4/1/2017 |
| 10 | Marianne McCreary | 4/1/2012 | iPad2 | 4/1/2017 |
| 11 | Diana Lowe | 4/1/2012 | iPad2 | 4/1/2017 |
| 12 | Doug Brown | 4/1/2012 | iPad2 | 4/1/2017 |
| 13 | John McManus | 4/1/2012 | iPad2 | 4/1/2017 |
| 14 | Eric Rauch | 4/1/2012 | iPad2 | 4/1/2017 |
| | | | | |
| 15 | Ron Akers | 4/1/2012 | iPad2 | 4/1/2018 |
| 16 | Kelly VanMarter | 4/1/2012 | iPad2 | 4/1/2018 |
| 17 | Michael Archinal | 4/1/2012 | iPad2 | 4/1/2018 |
| 18 | Laura Mroczka | 4/1/2012 | iPad2 | 4/1/2018 |
| 19 | Adam VanTassell | 4/1/2012 | iPad2 | 4/1/2018 |

TABLE J: COMPUTER ROTATION

| ASSET ID | EMPLOYEE | DATE ACQUIRED | DESCRIPTION | DATE OF REPLACEMENT |
|-----------------|---------------------|----------------------|-------------------------|----------------------------|
| 1 | Cindy Overby | 7/1/2011 | Dell Optiplex | 7/1/2016 |
| 2 | Kristen Sapienza | 7/1/2011 | Dell Optiplex | 7/1/2016 |
| 3 | Michael Archinal | 7/1/2011 | Dell Optiplex | 7/1/2016 |
| 4 | Adam VanTassell | 7/1/2011 | Dell Optiplex | 7/1/2016 |
| 5 | Laura Mrocзка | 7/1/2011 | Dell Optiplex | 7/1/2016 |
| 6 | Deborah Rojewski | 7/1/2011 | Dell Optiplex | 7/1/2016 |
| 7 | Kelly VanMarter | 7/1/2011 | Dell Optiplex | 7/1/2016 |
| 8 | Amy Ruthig | 7/1/2011 | Dell Optiplex | 7/1/2016 |
| 9 | Robin Hunt | 7/1/2011 | Dell Optiplex | 7/1/2016 |
| 10 | Sharon Stone | 7/1/2011 | Dell Optiplex | 7/1/2016 |
| 11 | Angie Williams | 7/1/2011 | Dell Optiplex | 7/1/2016 |
| 12 | Tammy Lindberg | 7/1/2011 | Dell Optiplex | 7/1/2016 |
| | | | | |
| 13 | Spare Computer | 4/1/2013 | Dell Optiplex 790 | 4/1/2018 |
| 14 | Kathryn Poppy | 4/1/2013 | Dell Optiplex 790 | 4/1/2018 |
| 15 | Kathleen Murphy | 4/1/2013 | Dell Optiplex 790 | 4/1/2018 |
| 16 | Ron Akers | 4/1/2013 | Dell Optiplex 790 | 4/1/2018 |
| | | | | |
| 17 | Sue Sitner | | State supplied computer | |
| 18 | Clerk Front Counter | 7/1/2013 | Unknown | 7/1/2018 |
| 19 | Map Room Computer | 7/1/2007 | Unknown | 7/1/2015 |
| 20 | Tax Front Counter | 7/1/2005 | Unknown | As Needed |
| 21 | Vacant, Clerk | 7/1/2005 | Unknown | As Needed |
| 22 | Vacant, Assessing | 7/1/2012 | Unknown | As Needed |
| | | | | |
| 23 | Polly Skolarus | 7/1/2012 | Laptop | As Needed |
| 24 | Gary McCririe | 7/1/2010 | Laptop | As Needed |

TABLE K: SIDEWALK PROJECTS

| SIDEWALK LOCATION | FUND SOURCE | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | FUTURE | TOTAL |
|--|----------------------------------|------------|---------|------------|------------|------------|------------|--------------|--------------|
| Grand River Ave. | Future Parks and Recreation #270 | | | | | | | | \$ 1,474,000 |
| <i>S. Hacker Rd to 242 Church, S. Side of Road, St. Joseph Mercy to Kellogg Rd N. Side of Road</i> | Future Parks and Recreation #270 | \$ 393,000 | | | | | | | \$ 393,000 |
| <i>Sunrise Park Rd to Kellogg Rd, N. Side of Road</i> | Future Parks and Recreation #270 | | | \$ 292,000 | | | | | \$ 292,000 |
| <i>S. Latson to West Township Limit, S. Side of Road</i> | Future Parks and Recreation #270 | | | | | | | \$ 386,000 | \$ 386,000 |
| <i>S. Latson to 242 Church, S. Side of Road</i> | Future Parks and Recreation #270 | | | | | | | \$ 347,000 | \$ 347,000 |
| <i>St. Joseph Mercy to Hacker, N. Side of Road</i> | Future Parks and Recreation #270 | | | | | | | \$ 56,000 | \$ 56,000 |
| Crooked Lake Rd (S. Latson Rd to Dorr Rd) | Future Parks and Recreation #270 | | | | \$ 166,250 | | | | \$ 475,000 |
| | TAP | | | | \$ 308,750 | | | | |
| Dorr Rd (Township Hall to Challis Rd) | Future Parks and Recreation #270 | | | | | \$ 210,000 | | | \$ 255,000 |
| | DNR Recreational Passport | | | | | \$ 45,000 | | | |
| Challis Rd (Dorr Rd to Bauer Rd) | Future Parks and Recreation #270 | | | | | | \$ 248,000 | | \$ 248,000 |
| Brighton Rd (Brookwood Meadows to Honors Way) | Future Parks and Recreation #270 | | | | | | | \$ 350,000 | \$ 800,000 |
| | MNRTF | | | | | | | \$ 250,000 | |
| | Safe Routes to School | | | | | | | \$ 200,000 | |
| Chilson Rd (Brighton Rd to Coon Lake Rd) | Future Parks and Recreation #270 | | | | | | | \$ 166,000 | \$ 166,000 |
| Hughes Rd | Future Parks and Recreation #270 | | | | | | | \$ 482,000 | \$ 482,000 |
| Power Corridor (Golf Club Rd to Grand River Ave) | Future Parks and Recreation #270 | | | | | | | \$ 204,000 | \$ 204,000 |
| S. Latson Rd (Crooked Lake Rd to Chilson Rd) & Chilson Rd (S. Latson Rd to Coon Lake Rd) | Future Parks and Recreation #270 | | | | | | | \$ 264,000 | \$ 264,000 |
| Chilson Rd (Chilson Hills to Grand River Ave) | Future Parks and Recreation #270 | | | | | | | \$ 89,000 | \$ 89,000 |
| TOTAL | | \$ 393,000 | \$ - | \$ 292,000 | \$ 475,000 | \$ 255,000 | \$ 248,000 | \$ 2,794,000 | \$ 4,457,000 |

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SIDEWALKS – PROJECT DESCRIPTION

| | |
|------------------------|--|
| Project Title: | E. Grand River Ave. (Hacker Road to 242 Church on S. Side of Road & St. Joseph Mercy to Kellogg Road on N. Side of Road) |
| Funding Source: | Future Parks & Recreation #270 |

| | | | | | | | |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
| Est. Cost: | \$393,000 | 0 | 0 | 0 | 0 | 0 | 0 |

| Project Description and Location |
|--|
| This project involves the installation of a five (5) foot wide concrete sidewalk on the south side of E. Grand River Avenue from Hacker Road to 242 Church then on the north side of E. Grand River Avenue from Woodland Medical Center to Kellogg Road. |

| Justification |
|---|
| The 2002 Parks and Recreation Plan lists an objective to, “Complete the pathway system along Grand River Avenue.” |

| Schedule |
|--|
| This project is scheduled for the 2015-16 fiscal year. Estimated project completion time will depend on amount of right-of-way acquisition needed. |

| Impact on Operating Expenses |
|---|
| Additional sidewalk installation will lead to an increase in maintenance costs. Based on the 2014-15 maintenance expenses we have estimated annual maintenance costs for sidewalks to be approximately \$0.50 per linear foot of sidewalk. Costs are projected to increase at this rate as new sidewalk is installed. |

SIDEWALKS - PROJECT DESCRIPTION

| | |
|------------------------|---|
| Project Title: | E. Grand River Ave. (Sunrise Park to Kellogg Road on N. Side of Road) |
| Funding Source: | Future Parks & Recreation #270 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | 0 | 0 | \$292,000 | 0 | 0 | 0 | 0 |

| Project Description and Location |
|---|
| <p>This project would involve the installation of five (5) foot wide concrete sidewalk along the north side of E. Grand River Avenue from Boulevard Drive (entrance to Sunrise Park) to Kellogg Road.</p> |

| Justification |
|--|
| <p>The 2002 Parks and Recreation Plan lists an objective to, “Complete the pathway system along Grand River Avenue.”</p> |

| Schedule |
|---|
| <p>This project is scheduled for the 2017-18 fiscal year. Time of completion would depend upon the amount of right-of-way acquisition required to complete the project.</p> |

| Impact on Operating Expenses |
|--|
| <p>Additional sidewalk installation will lead to an increase in maintenance costs. Based on the 2014-15 maintenance expenses we have estimated annual maintenance costs for sidewalks to be approximately \$0.50 per linear foot of sidewalk. Costs are projected to increase at this rate as new sidewalk is installed.</p> |

SIDEWALKS - PROJECT DESCRIPTION

| | |
|------------------------|---|
| Project Title: | Crooked Lake Road (S. Latson Road to Dorr Road) |
| Funding Source: | Future Parks & Recreation #270, TAP |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | 0 | 0 | 0 | \$475,000 | 0 | 0 | 0 |

| Project Description and Location |
|--|
| <p>This project would involve the installation of ten (10) foot wide asphalt sidewalk along Crooked Lake Road from S. Latson Road to the Genoa Township Hall Park on Dorr Road. This project also estimates the planting of one (1) tree every fifty (50) linear feet to mitigate the effects of potential tree removal.</p> |

| Justification |
|---|
| <p>The 2002 Parks and Recreation Plan states, “Genoa Township will have a complete pathway system that links key destination areas within the community and connects to the regional pathway system.”</p> |

| Schedule |
|---|
| <p>This project is scheduled for the 2018-19 fiscal year. Time of completion would depend upon the amount of right-of-way acquisition required to complete the project.</p> |

| Impact on Operating Expenses |
|--|
| <p>Additional sidewalk installation will lead to an increase in maintenance costs. Based on the 2014-15 maintenance expenses we have estimated annual maintenance costs for sidewalks to be approximately \$0.50 per linear foot of sidewalk. Costs are projected to increase at this rate as new sidewalk is installed.</p> |

SIDEWALKS - PROJECT DESCRIPTION

| | |
|------------------------|---|
| Project Title: | Dorr Road (Township Hall Property to Challis Road) |
| Funding Source: | Future Parks & Recreation #270, DNR Recreational Passport |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | 0 | 0 | 0 | 0 | \$255,000 | 0 | 0 |

| Project Description and Location |
|--|
| <p>This project involves the installation of eight (8) foot wide asphalt sidewalk from the Township Hall Park property to Challis Road. This project also estimates the planting of one (1) tree every fifty (50) linear feet to mitigate the effects of potential tree removal.</p> |

| Justification |
|---|
| <p>The 2002 Parks and Recreation Plan states, “Genoa Township will have a complete pathway system that links key destination areas within the community and connects to the regional pathway system.”</p> |

| Schedule |
|---|
| <p>This project is scheduled for the 2019-20 fiscal year. Time of completion would depend upon the amount of right-of-way acquisition required to complete the project.</p> |

| Impact on Operating Expenses |
|--|
| <p>Additional sidewalk installation will lead to an increase in maintenance costs. Based on the 2014-15 maintenance expenses we have estimated annual maintenance costs for sidewalks to be approximately \$0.50 per linear foot of sidewalk. Costs are projected to increase at this rate as new sidewalk is installed.</p> |

SIDEWALKS - PROJECT DESCRIPTION

| | |
|------------------------|--------------------------------|
| Project Title: | Challis Road to Bauer Road |
| Funding Source: | Future Parks & Recreation #270 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | 0 | 0 | 0 | 0 | 0 | \$248,000 | 0 |

| Project Description and Location |
|--|
| <p>This project involves the installation of eight (8) foot wide asphalt sidewalk from the existing pathway near the Challis and Bauer Road intersection to the Challis and Dorr Road intersection. This project also estimates the planting of one (1) tree every fifty (50) linear feet to mitigate the effects of potential tree removal.</p> |

| Justification |
|---|
| <p>The 2002 Parks and Recreation Plan states, “Genoa Township will have a complete pathway system that links key destination areas within the community and connects to the regional pathway system.”</p> |

| Schedule |
|---|
| <p>This project is scheduled for the 2020-21 fiscal year.</p> |

| Impact on Operating Expenses |
|--|
| <p>Additional sidewalk installation will lead to an increase in maintenance costs. Based on the 2014-15 maintenance expenses we have estimated annual maintenance costs for sidewalks to be approximately \$0.50 per linear foot of sidewalk. Costs are projected to increase at this rate as new sidewalk is installed.</p> |

SIDEWALKS - PROJECT DESCRIPTION

| | |
|------------------------|--|
| Project Title: | Brighton Road (Brookwood Meadows to Honors Way) |
| Funding Source: | Future Parks & Recreation #270, Safe Routes to School; Michigan Natural Resources Trust Fund |

| | | | | | | | |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
| Est. Cost: | 0 | 0 | 0 | 0 | 0 | 0 | \$800,000 |

| Project Description and Location |
|---|
| <p>This project involves the installation of eight (8) foot wide asphalt sidewalk from Brookwood Meadows Drive to Honors Way.</p> |

| Justification |
|---|
| <p>The 2002 Parks and Recreation Plan states, “Genoa Township will have a complete pathway system that links key destination areas within the community and connects to the regional pathway system.”</p> |

| Schedule |
|---|
| <p>This project is scheduled as a future project. Time of completion would depend upon the amount of right-of-way acquisition required to complete the project. It is expected that this project will be scheduled in future program updates.</p> |

| Impact on Operating Expenses |
|--|
| <p>Additional sidewalk installation will lead to an increase in maintenance costs. Based on the 2014-15 maintenance expenses we have estimated annual maintenance costs for sidewalks to be approximately \$0.50 per linear foot of sidewalk. Costs are projected to increase at this rate as new sidewalk is installed.</p> |

SIDEWALKS - PROJECT DESCRIPTION

| | |
|------------------------|---|
| Project Title: | Future Sidewalk Projects Other than Brighton Road |
| Funding Source: | Future Parks & Recreation #270 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | 0 | 0 | 0 | 0 | 0 | 0 | \$1.994M |

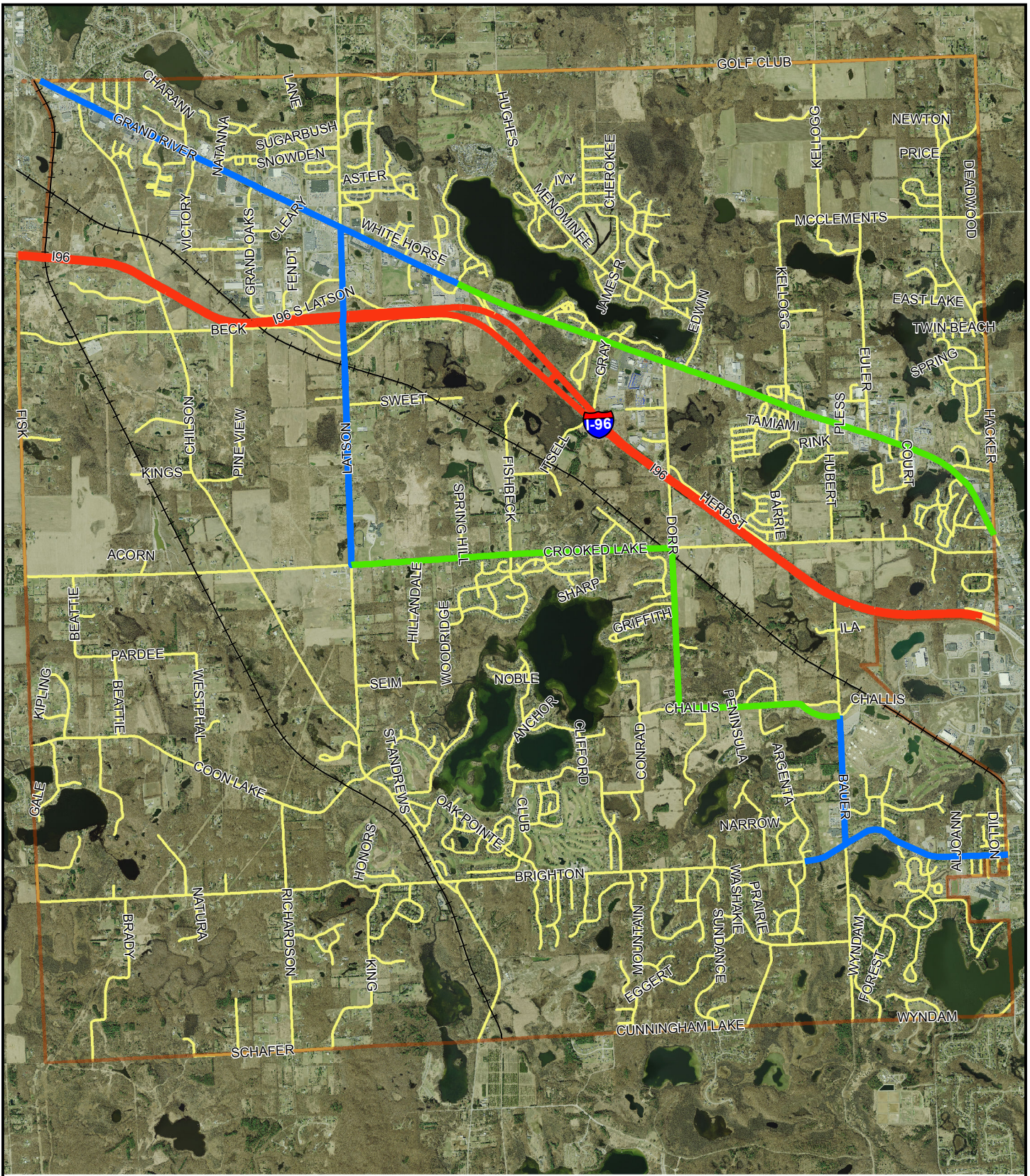
| Project Description and Location |
|--|
| <p>There are various projects identified as future sidewalk projects. These projects should be prioritized in future program updates based on available resources from outside agencies.</p> |

| Justification |
|---|
| <p>The 2002 Parks and Recreation Plan states, “Genoa Township will have a complete pathway system that links key destination areas within the community and connects to the regional pathway system.”</p> |

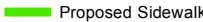


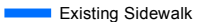

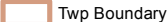
| Schedule |
|--|
| <p>These projects are scheduled as future projects. Time of completion would depend upon the amount of right-of-way acquisition required to complete the projects. It is expected that these projects are scheduled in future program updates.</p> |


| Impact on Operating Expenses |
|--|
| <p>Additional sidewalk installation will lead to an increase in maintenance costs. Based on the 2014-15 maintenance expenses we have estimated annual maintenance costs for sidewalks to be approximately \$0.50 per linear foot of sidewalk. Costs are projected to increase at this rate as new sidewalk is installed.</p> |

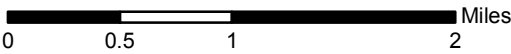
Map 1: Proposed Sidewalk Projects: 2015-2021



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| | | |
|---|--|---|
|  Proposed Sidewalk |  Roads |  Railroad |
|  Existing Sidewalk |  Interstate |  Twp Boundary |

 NORTH

 Miles

Road Data Source:
 Livingston County G.I.S.
 Map Prepared By:
 Genoa Township on
 3/23/2015

TABLE L: GRAVEL ROAD IMPROVEMENT PROJECTS - CRUSHED LIMESTONE APPLICATION

| ROAD NAME | FUND SOURCE | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | FUTURE | TOTAL |
|---|--------------------------------------|------------|------------|------------------|------------------|------------------|------------|--------------------|--------------------|
| Herbst Rd (Gravel Portion East of Dorr Rd to Township Line) | General Fund #101 - Road Improvement | | | \$200,000 | | | | | \$200,000 |
| Bauer Rd (River Ridge to Township Limit) | General Fund #101 - Road Improvement | | | | \$148,000 | | | | \$148,000 |
| McClements Rd (West Kellogg Rd to Hacker Rd) | General Fund #101 - Road Improvement | | | | | \$183,000 | | | \$183,000 |
| Crooked Lake Rd (Chilson Rd to Fisk Rd) | General Fund #101 - Road Improvement | | | | | | | \$334,000 | \$334,000 |
| Fishbeck Rd (Crooked Lake Rd to Itsell Rd) | General Fund #101 - Road Improvement | | | | | | | \$119,000 | \$119,000 |
| Fisk Rd | General Fund #101 - Road Improvement | | | | | | | \$175,000 | \$350,000 |
| | Marion Township | | | | | | | \$175,000 | |
| Cunningham Lake Rd (Sundance Rd to Bauer Rd) | General Fund #101 - Road Improvement | | | | | | | \$222,000 | \$222,000 |
| King Rd | General Fund #101 - Road Improvement | | | | | | | \$157,000 | \$157,000 |
| Schafer Rd (King Rd to Mar Char Dr) | General Fund #101 - Road Improvement | | | | | | | \$80,000 | \$160,000 |
| | Hamburg Township | | | | | | | \$80,000 | |
| Sweet Rd | General Fund #101 - Road Improvement | | | | | | | \$134,000 | \$134,000 |
| Brighton Rd (Treasure Lake Dr to Township Limits) | General Fund #101 - Road Improvement | | | | | | | \$189,000 | \$209,000 |
| | Marion Township | | | | | | | \$20,000 | |
| Euler Rd | General Fund #101 - Road Improvement | | | | | | | \$246,000 | \$246,000 |
| Bauer Rd (N. of Challis Rd) | General Fund #101 - Road Improvement | | | | | | | \$111,000 | \$111,000 |
| Hubert Rd (Pavement to Herbst Rd) | General Fund #101 - Road Improvement | | | | | | | \$153,000 | \$153,000 |
| Itsell Rd | General Fund #101 - Road Improvement | | | | | | | \$120,000 | \$120,000 |
| Brady Rd | General Fund #101 - Road Improvement | | | | | | | \$140,000 | \$140,000 |
| TOTAL | | \$0 | \$0 | \$200,000 | \$148,000 | \$183,000 | \$0 | \$2,149,000 | \$2,986,000 |

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GRAVEL ROAD IMPROVEMENTS - PROJECT DESCRIPTION

| | |
|------------------------|---|
| Project Title: | Crushed Limestone Application to Gravel Roads |
| Funding Source: | General Fund #101 – Road Improvement |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | 0 | 0 | \$200,000 | \$148,000 | \$183,000 | 0 | \$2.149M |

| Project Description and Location |
|--|
| <p>This project involves the installation of crushed limestone to specified gravel roads in the Township. Gravel roads are prioritized by their annual average daily traffic counts and the time frame of when crushed limestone was previously installed.</p> |

| Justification |
|--|
| <p>Genoa Township consistently has invested in road improvement projects. Due to the low density development patterns, the vast majority of our residents use automobiles to meet their daily needs. Due to the lack of funding the Livingston County Road Commission receives from the State, municipalities in Livingston County have contributed to road maintenance and improvement to ensure the County’s road system remains intact.</p> |

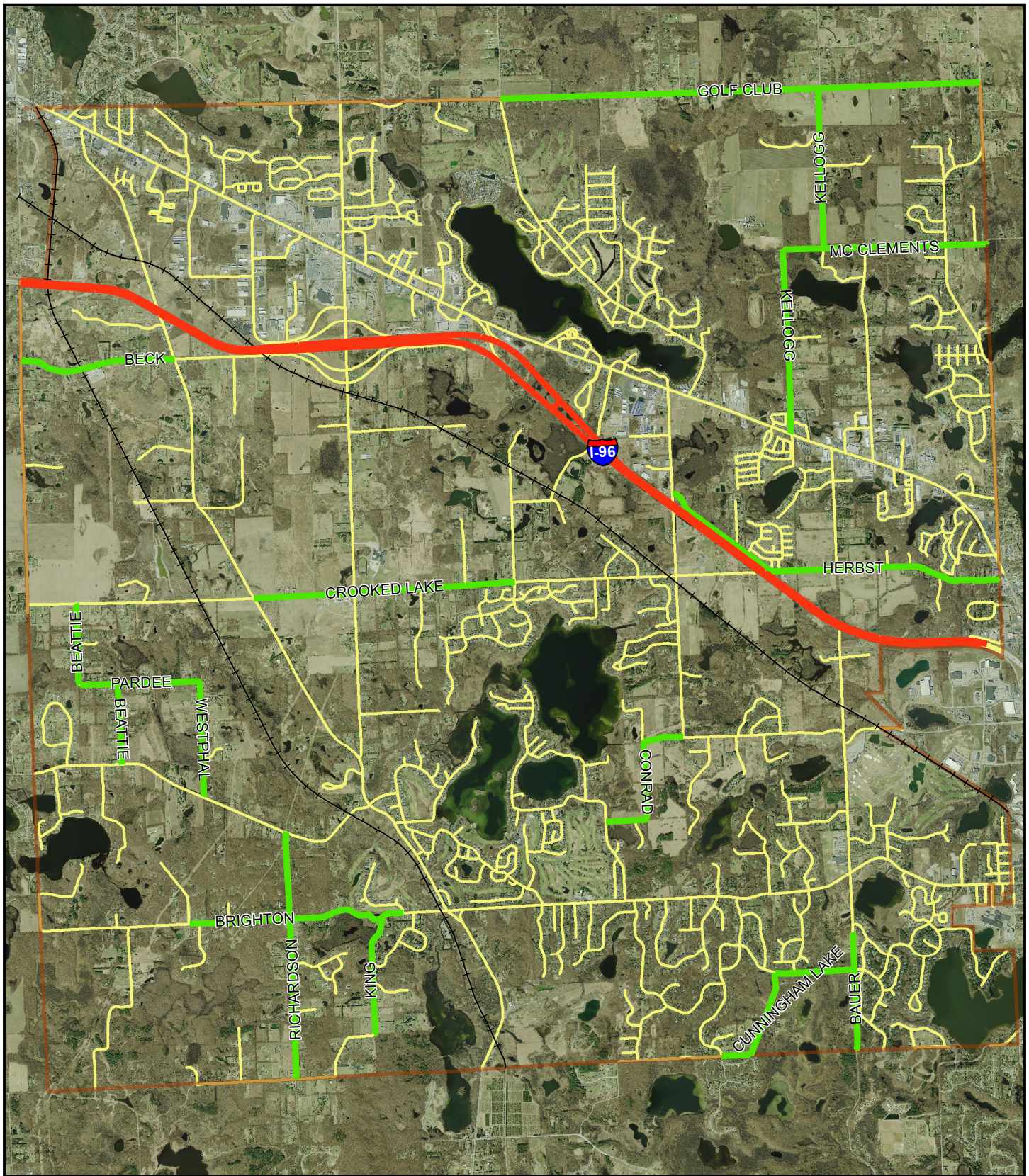
| Schedule |
|--|
| <p>The schedule of crushed limestone application is depicted in tables L and M. Installation depending on the size and scope of the project will take approximately three (3) weeks.</p> |


| Impact on Operating Expenses |
|--|
| <p>The Township has consistently set aside approximately \$250,000 annual for road improvement projects. The roads are maintained by the Livingston County Road Commission and there would be no direct impact on Township operating expenses.</p> |


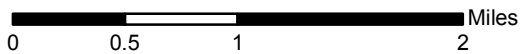
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Map 2: Previous Crushed Limestone Projects: 1998-2014




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
— Crushed Limestone Projects 1998-2014
 — Interstate
 Twp Boundary
— Roads
 —+— Railroad




Road Data Source:
 Livingston County G.I.S.
 Map Prepared By:
 Genoa Township on
 3/23/2015


Map 3: Proposed Crushed Limestone Projects: 2015-2021



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| | | |
|---|--|--|
|  Proposed Crushed Limestone Projects |  Interstate |  Twp Boundary |
|  Roads |  Railroad | |

 NORTH

 Miles

Road Data Source:
 Livingston County G.I.S.
 Map Prepared By:
 Genoa Township on
 3/25/2015

TABLE M: CRUSHED LIMESTONE ROAD IMPROVEMENT ANALYSIS 1998-2015

| ROAD NAME | AVERAGE DAILY TRAFFIC COUNTS | LINEAR FEET | PROJECTED LIMESTONE THICKNESS FOR NEW PROJECT | ESTIMATED PROJECT COST | ESTIMATED YEAR OF FIRST LIMESTONE APPLICATION OR YEAR OF PREVIOUS IMPROVEMENT | ESTIMATED YEAR OF ADDITIONAL APPLICATION (ASSUMING 15 YEAR LIFE) |
|---|------------------------------|-------------|--|------------------------|---|--|
| Crooked Lake Rd (Fishbeck Rd to Chilson Rd) | 1,285.0 | 7,000 | 4" Fishbeck to S. Latson & 8" S. Latson to Chilson | - | 2014 | 2029 |
| Conrad Rd (Clifford Rd to Challis Rd) & Challis Rd (Dorr Rd to Conrad Rd) | 1,135.0 | 5,300 | 4" | - | 2004 | 2019 |
| Bauer Rd (River Ridge to Township Limit) | 1,085.0 | 4,330 | 6" | \$147,493 | Between 1998-2002 | 2016 |
| Herbst Rd (Dorr Rd to Township Limits) | 910.0 | 8,600 | 6" | \$200,000 | 1999 | 2015 |
| Golf Club Rd (Hacker Rd to Hughes Rd) | 760.0 | 15,840 | 6" | - | 2009 | 2024 |
| Beck Rd (Chilson Rd to Fisk Rd) | 550.0 | 5,250 | 8" | - | 2013 | 2028 |
| Brighton Rd (King Rd to Treasure Lake Rd) | 500.0 | 6,850 | 4" | - | 2013 | 2028 |
| McClements Rd (Kellogg Rd to Hacker Rd) | 463.3 | 5,370 | 6" | \$182,919 | 2003 | 2017 |
| Crooked Lake Rd (Chilson Rd to Fisk Rd) | 445.0 | 7,500 | 8" | \$333,788 | 2018-19 | 2034 |
| Fishbeck Rd | 420.0 | 2,660 | 8" | \$118,383 | 2019-20 | 2035 |
| Fisk (Crooked Lake Rd to Francis Rd) | 416.7 | 10,220 | 8" | \$348,124 | 2020-21 | 2036 |
| Kellogg Rd (Golf Club Rd to McClements Rd) | 410.0 | 5,290 | 8" | - | 2011 | 2026 |
| King Rd | 370.0 | 6,280 | 4" | - | 1999 | 2014 |
| Cunningham Lake Rd (Sundance Rd to Bauer Rd) | 370.0 | 6,500 | 6" | - | Between 1998-2002 | 2016 |
| Kellogg Rd (McClements Rd to W. Grand River Ave.) | 350.0 | 6,160 | 6" | - | 2006 | 2021 |
| Richardson Rd (Coon Lake Rd to Schafer Rd) | 315.0 | 8,250 | 4" | - | 2005 | 2020 |
| Schafer Rd (King Rd to Township Limit) | 300.0 | 4,690 | 6" | - | Future | Future |
| Sweet Rd | 270.0 | 3,920 | 6" | - | Future | Future |
| Brighton Rd (Treasure Lake to Township Limit) | 240.0 | 6,090 | 6" | - | Future | Future |
| Euler Rd | 240.0 | 7,210 | 6" | - | Future | Future |
| Bauer Rd (N. of Challis) | 200.0 | 3,230 | 6" | - | Future | Future |
| Hubert Rd | 190.0 | 2,635 | 8" | - | Future | Future |
| Itsell Rd | 170.0 | 3,500 | 6" | - | Future | Future |
| Beattie Rd - Pardee Rd - Westphal Rd | 132.5 | 13,200 | 6" | - | 2008 | 2023 |
| Brady Rd | 40.0 | 6,800 | 4" | - | Future | Future |

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TABLE N: PROPOSED PAVEMENT AND FUTURE LARGE ROAD IMPROVEMENT PROJECTS

| ROAD NAME | PROJECT | FUND SOURCE | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | FUTURE | TOTAL |
|--|--|--|--------------------|------------------|------------|------------|------------|------------|------------|--------------------|
| Coon Lake Rd & Chilson Rd Intersection | Intersection Reconstruction (Round-A-Bout) | Livingston County Road Commission | | \$600,000 | | | | | | \$600,000 |
| Golf Club Rd (E. Grand River Ave. to S. Latson Rd) | Mill and Overlay | General Fund #101 - Road Improvement | \$101,000 | | | | | | | \$500,000 |
| | | Oceola Township | \$399,000 | | | | | | | |
| Grand Oaks Rd (Grand River Ave to Fendt Dr) | Mill and Overlay | Future Road Projects Fund #261 (25% Match) | \$212,500 | | | | | | | \$850,000 |
| | | Reimbursable Road Project Fund #264 | \$637,500 | | | | | | | |
| TOTAL | | | \$1,350,000 | \$600,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,950,000 |

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PAVED ROAD IMPROVEMENT– PROJECT DESCRIPTION

| | |
|------------------------|---|
| Project Title: | Golf Club Rd (E. Grand River Ave. to S. Latson Road) – Mill and Overlay |
| Funding Source: | General Fund #101 – Road Improvement, Oceola Township |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | \$500,000 | 0 | 0 | 0 | 0 | 0 | 0 |

| Project Description and Location |
|--|
| This project involves pavement improvements (Mill & Overlay and Spot Based Repair) on Golf Club Road between E. Grand River Ave. and S. Latson Road. |

| Justification |
|---|
| Genoa Township consistently has invested in road improvement projects. Due to the low density development patterns, the vast majority of our residents use automobiles to meet their daily needs. Due to the limited amount of funding the Livingston County Road Commission receives from the State, municipalities in Livingston County have contributed to road maintenance and improvement to ensure the County’s road system remains intact. |

| Schedule |
|--|
| This project is scheduled for the fiscal year 2015-16. |

| Impact on Operating Expenses |
|---|
| The Township has consistently set aside funds annual for road improvement and maintenance projects. The roads are maintained by the Livingston County Road Commission and there would be no direct impact on Township operating expenses. |

PAVED ROAD IMPROVEMENT– PROJECT DESCRIPTION

| | |
|------------------------|---|
| Project Title: | Grand Oaks Road (E. Grand River Ave. to Fendt Drive) – Mill and Overlay |
| Funding Source: | Future Road Projects Fund #261, Road Reimbursement Fund #264 |

| | | | | | | | |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
| Est. Cost: | \$850,000 | 0 | 0 | 0 | 0 | 0 | 0 |

| Project Description and Location |
|---|
| <p>This project involves pavement improvements to Grand Oaks Road via the creation of a special assessment district. It is estimated that the Township will match the project at 25%.</p> |

| Justification |
|---|
| <p>Genoa Township has consistently invested in road improvement projects. Due to the low density development patterns, the vast majority of our residents use automobiles to meet their daily needs. Due to the limited amount of funding the Livingston County Road Commission receives from the State, municipalities in Livingston County have contributed to road maintenance and improvement to ensure the County’s road system remains intact. Typically we use the Road Reimbursement fund for subdivision roads, but in this case Grand Oaks is road in an industrial park. Due to this, the fact that Grand Oaks provides a secondary route to two (2) major primary roads, and the industrial parcels contribute significantly more in annual property taxes, the Township should consider contributing at a higher match rate.</p> |

| Schedule |
|---|
| <p>This project is scheduled for the fiscal year 2015-16.</p> |

| Impact on Operating Expenses |
|--|
| <p>The Township has consistently set aside funds annual for road improvement and maintenance projects. The roads are maintained by the Livingston County Road Commission and there would be no direct impact on Township operating expenses.</p> |

PAVED ROAD IMPROVEMENT– PROJECT DESCRIPTION

| | |
|------------------------|------------------------------|
| Project Title: | Reimbursable Road Projects |
| Funding Source: | Road Reimbursement Fund #264 |

| Fiscal Year: | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | Future |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Est. Cost: | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Project Description and Location |
|--|
| <p>There are several road projects in the preliminary planning stage which would use resources from the Road Reimbursement Fund #264. The CIP estimates that \$200,000 will be transferred to this fund over the six year period to cover potential project costs.</p> |

| Justification |
|--|
| <p>Genoa Township has consistently invested in road improvement projects. Due to the low density development patterns, the vast majority of our residents use automobiles to meet their daily needs. Due to the limited amount of funding the Livingston County Road Commission receives from the State, municipalities in Livingston County have contributed to road maintenance and improvement to ensure the County’s road system remains intact.</p> |

| Schedule |
|---|
| <p>The schedule of work will depend on the scope of the project. No funding is scheduled for these projects because they are an early planning stage.</p> |

| Impact on Operating Expenses |
|--|
| <p>The Township has consistently set aside funds annual for road improvement and maintenance projects. The roads are maintained by the Livingston County Road Commission or in the case of private roads, the property owners who access the private road. Due to this there would be no direct impact on Township operating expenses.</p> |

Map 4: Pavement and Future Large Road Improvement Projects 2015-2021



Genoa Charter Township
 Livingston County, MI
 810-227-5225
www.genoa.org

Intersection Improvements
 Road Pavement Projects
 Interstate
 Twp Boundary
 Roads
 Railroad

NORTH

0 0.5 1 2 Miles

Road Data Source:
 Livingston County G.I.S.
 Map Prepared By:
 Genoa Township on
 3/25/2015

UTILITIES

INTRODUCTION

Genoa Township owns the Oak Pointe Sanitary Sewer & Water System which services the Oak Pointe and Northshore communities and the Lake Edgewood Sanitary Sewer System which services the Grand River Avenue corridor from Kellogg Road to Conference Center Drive. The day to day operation, planning, and operation of these systems are overseen by the Genoa Township Utility Department, also known as the MHOG Utility Department. A capital improvement plan for each system for the time period 2010-2016 has been previously created by the Utility Department. For the purposes of this plan we will include the existing capital improvement plans for each system and provide a status update on the proposed projects. Capital improvement plans for the other systems MHOG operates, including Marion, Howell, Oceola, Genoa (MHOG) Water System and the Genoa-Oceola (G-O) Sanitary Sewer System, will not be included in this plan despite Genoa Township having membership in the authority. The reason for this is that Genoa Township is not exclusively responsible for these systems, but rather the responsibility lies on the Authority Board.

REVENUE

Each system has an individual proprietary fund in which revenues are obtained primarily from user fees. The specific projects are intended to be funded from an operation and maintenance budget, grant money and capital improvement bonds. The specific impact each project has on operating expenses are outlined in each plan.

CAPITAL IMPROVEMENT PLAN UPDATE

Oak Pointe Sanitary Sewer & Water System:

1. Pump Station Stand-by Generators:
 - a. Status: Partially Completed. One (1) portable generator was purchased.
2. Painting Oak Pointe Water Tower:
 - a. Status: Not Completed. The water tower painting has been authorized by the Township Board and is scheduled for spring 2015.
3. Oak Pointe Waste Water Treatment Plant (WWTP) Upgrades:
 - a. Status: Not Needed. The upgrades to the WWTP were only required if the re-routing of Oak Pointe WWTP flows to Genoa-Oceola WWTP was unable to be accomplished.
4. Re-Route Oak Pointe Waste Water Treatment Plant (WWTP) flows to Genoa-Oceola Waste Water Treatment Plant (WWTP):
 - a. Status: In Progress. The project was approved by the Genoa Township Board in summer 2014. Work on the project has commenced and is projected to be completed August 2015.
5. Sodium and Chloride Corrective Actions:
 - a. Status: Not Needed. Due to the re-route of WWTP flows to Genoa-Oceola these corrective actions are not necessary.

6. Collection System SCADA System:
 - a. Status: Completed
7. Redundant Water Main Loop to Northshore.
 - a. Status: Not Completed.
8. MHOG Water to Oak Pointe:
 - a. Status: Not Completed. The estimated project cost in the plan has been determined to be very low compared to the actual cost of the project.

Lake Edgewood Sanitary Sewer System:

1. Valve Actuators at Waste Water Treatment Plant (WWTP):
 - a. Status: Completed.
2. Muffin Monster at Waste Water Treatment Plant (WWTP):
 - a. Status: Completed
3. Improved Alum Addition:
 - a. Status: Completed.
4. Waste Water Treatment Plant (WWTP) Additional Blowers (2 Total):
 - a. Status: Not Completed.
5. Pump Station Standby Generators (3 Total):
 - a. Status: Not Completed.
6. New Roof on Old Side of Waste Water Treatment Plant (WWTP):
 - a. Status: Completed.
7. Re-Route Lake Edgewood Waste Water Treatment Plant (WWTP) Flows to Genoa-Oceola Waste Water Treatment Plant (WWTP):
 - a. Status: Not Completed. Per discussion with MHOG staff, this project is likely to be removed from their next capital improvement plan.

Utility Department

1. Grinder Pump Replacement:
 - a. Status: Completed.
2. Vactor Truck:
 - a. Status: Completed. The Utility Department purchased a Grinder Van in lieu of a vactor truck.
3. Sewer Line Camera:
 - a. Status: Completed. The Utility Department purchased a push camera in lieu of a sewer line camera.
4. Flow Meters
 - a. Status: Partially Completed. The Utility Department purchased 1 meter.

Oak Pointe Sanitary Sewer and Water

Genoa Charter Township

2010 - 2016

Capital Improvement Plan



March 8, 2010

INTRODUCTION

Presented is the 2010 – 2016 Genoa Charter Township Capital Improvement Plan (CIP) for the Oak Pointe Sanitary Sewer and Water Systems. Capital improvements are defined as those physical facilities which involve a substantial investment and last a long time. This plan was developed to provide a tool to assess the long-term capital project requirements of the Oak Pointe Sewer and Water Systems and allow the Township to prioritize and plan for the investment in its infrastructure for long term sustainability.

OAK POINTE WASTEWATER SYSTEM

The Oak Pointe wastewater system was originally privately constructed to serve an individual development. The Township took over this system to provide proper oversight and to provide protection to the residents. In the late 1990s, the State of Michigan became concerned with sodium and chloride from groundwater discharge plants. Sodium and chloride are introduced into the waste stream from the use of a sodium based water softener salt and the placement of regeneration brine into the wastewater system. Current wastewater treatment methods are incapable of removing these contaminants.

Upon investigation, it was determined that the Oak Pointe Wastewater System impacted downstream groundwater and residential drinking water wells. As a result, the Township and the MDEQ entered into a consent judgment that dictated requirements and restrictions. Since 2003 the Oak Pointe system has been seeking a funding source to eliminate the ground water discharge at this site. Currently the Township is pursuing a federal appropriation to re-route the flows normally received at the Oak Pointe wastewater treatment plant (WWTP) to the Genoa Oceola WWTP. Since the Township is actively pursuing taking this plant off line, only minimal capital improvement funds have been invested at this plant since 2003. Additional WWTP upgrades will be necessary, should federal appropriations not develop, to continue to adequately operate the system and reduce the labor involved in operation.

Additionally, the Oak Pointe Wastewater system has several other unique challenges facing it, which include:

- Wastewater Treatment Plant is at capacity;
- Small number of users connected to system resulting in a low annual operating budget;
- Limited amount of system owned and operated service equipment such as vactor trucks, flow meters, and cameras;
- Risk associated with the remote lift stations;
- Low replacement reserve funds; and,
- Sodium and chloride plume in local groundwater from historic discharge.

OAK POINTE WATER SYSTEM

The Oak Pointe water system consists of an iron removal plant, an elevated water storage tank, a ground storage tank, four wells, and 79,000 linear feet of pipe. Geographically, the distribution system can be divided into two separate areas: 1) the Oak Pointe service area and, 2) the Northshore service area. The Oak Pointe water system has unique challenges facing it, which include:

- Water Treatment Plant is at capacity;
- Small number of users connected to system resulting in a low annual operating budget;
- Low replacement reserve funds;
- Water Treatment Plant provides iron removal only; and
- Difficulty maintaining pressures in Northshore during Max Day Demands

GOALS

Developing a CIP for a small utility in the current economy is a difficult task. The system cannot rely on development or new users to fund capital improvements, and given its small size, assessments and capital improvement charges against existing users are unfavorable. Therefore, the goals of the CIP are to address the existing system deficiencies within both reasonable budgets and the existing challenges. The goals of the CIP are:

- Work Towards Consolidation of the Systems
 - Consolidate the Wastewater System with Genoa-Oceola Wastewater Treatment Plant
 - Consolidate the Water System with MHOG
- Reduce the Risk of the Remote Lift Stations
- Perform Plant Improvements

SUMMARY

Eight projects have been identified for the Oak Pointe CIP for the calendar years 2010 – 2016. Each project has been classified as critical, important, or preferred, and the CIP is organized by this classification. Those projects which are classified as “Critical” are listed first. A critical project requires immediate attention, has a large financial risk, and/or has the ability to greatly improve system operation and reliability. Projects classified as “Important” are listed secondly. Important projects should be completed; however there is no funding source available for them. Finally, “Preferred” projects are listed, which are primarily projects that are growth dependent.

A summary of the total cost for each classification is listed below:

| Classification | Budget Amount |
|-----------------------|----------------------|
| Critical | \$325,000 |
| Important | \$8,600,000 |
| Preferred | \$2,650,000 |

The table on the next page outlines each of the eight capital improvement projects, a timetable for each project, and the anticipated funding source. Following the project summary table is a brief report for each project, which describes the project and provides the justification for completing the project.

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TABLE O: OAK POINTE CAPTIAL IMPROVEMENT PROJECT SUMMARY 2010-2016

| No | Project | Classification | Trigger | Budget Amount | 2010 | | 2011 | | 2012 | | 2013 | | 2014 | | 2015 | |
|--------------|---|----------------|----------------------|---------------------|------------|------------|-----------------|------------------|------------------|--------------------|------------------|------------|------------------|------------|------------------|--------------------|
| | | | | | O&M | Other | O&M | Other | O&M | Other | O&M | Other | O&M | Other | | |
| 1 | Pump Station Stand-by Generators | Critical | Funding | \$175,000 | \$0 | \$0 | \$43,750 | \$0 | \$43,750 | \$0 | \$43,750 | \$0 | \$43,750 | \$0 | \$0 | \$0 |
| 2 | Painting Oak Pointe Water Tower | Critical | Age | \$150,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$150,000 | \$0 | \$0 | \$0 |
| 3 | Oak Pointe WWTP Upgrades <i>(only required if re-routing is unable to be accomplished)</i> | Important | Age | \$600,000 | \$0 | \$0 | \$50,000 | \$0 | \$100,000 | \$0 | \$100,000 | \$0 | \$200,000 | \$0 | \$150,000 | \$0 |
| 4 | Re-Route Oak Pointe WWTP flows to GO WWTP | Important | Funding / Regulatory | \$7,000,000 | \$0 | \$0 | \$0 | \$500,000 | \$0 | \$6,500,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 5 | Sodium and Chloride Corrective Actions | Important | Regulatory | \$1,000,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,000,000 |
| 6 | Collection System SCADA System | Preferred | Funding | \$150,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$150,000 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 7 | Redundant Water Main Loop to Northshore | Preferred | Funding | \$500,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$500,000 |
| 8 | MHOG Water to Oak Pointe | Preferred | Additional Flow | \$2,000,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,000,000 |
| Total | | | | \$11,575,000 | \$0 | \$0 | \$93,750 | \$500,000 | \$143,750 | \$6,500,000 | \$293,750 | \$0 | \$393,750 | \$0 | \$150,000 | \$3,500,000 |

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OAK POINTE 2010-2016 PROJECT DESCRIPTION

Project Title: Oak Pointe Pump Station Standby Generators
 Project Type: Water and Sewer Utilities
 Useful Life: 25 Years
 Re-submittal/New Project: New Project
 Classification: Critical

PROJECT DESCRIPTION

Installation of standby generators at the key major lift stations 54, 60, 56, 57 would make service of the other remaining stations manageable with the existing portable generator in the event of a large power outage.

JUSTIFICATION

Currently, the wastewater system has 10 pump stations, none of which have standby generators. One portable generator is available to operate the 10 pump stations as well as the water booster station. As a result, during a power outage, operators must work continuously to operate portable generators to maintain sanitary service in this area. This is a dangerous situation that could result in the backup of a sanitary pump station during a widespread power outage, which could cause significant property and environmental damage.

SCHEDULE

Due to limited funds in the operating budget, one generator per year, with an average installation price of \$43,750 will be purchased and installed. This will result in the four generators being installed by 2015.

IMPACT ON OPERATING EXPENSES

Since the funding source is operation and maintenance fees, the project will have a short term increase in Operation and Maintenance Rates to cover the cost of installation. However, after project implementation, the project will result in reduced overtime and reduced liability, resulting in savings on insurance coverage. Additionally, there will be immeasurable savings from the protection to personal property from preventing a sewer backup event.

EXPENDITURE SCHEDULE

| FUND SOURCE | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| O.P. Operating Fund | \$0 | \$43,750 | \$43,750 | \$43,750 | \$43,750 | \$0 | \$175,000 |

OAK POINTE 2010-2016 PROJECT DESCRIPTION

Project Title: Interior and Exterior Painting of the Oak Pointe Water Tower
Project Type: Water and Sewer Utilities
Useful Life: 10 Years
Re-submittal/New Project: New Project
Classification: Critical

PROJECT DESCRIPTION

The Oak Pointe 250,000 gallon elevated water storage tank was placed in operation in 1991. The tower exterior was painted in 2004 and the interior is the original paint. The project consists of the painting of the interior and exterior of the Oak Pointe elevated water storage tank.

JUSTIFICATION

Painting will extend the life of the tower. Steel water towers can have a useful life of nearly 100 years if properly maintained. Typically, interior and exterior painting is required every ten years for a steel tower. This planned second exterior painting and initial interior re-coating will provide the scheduled maintenance to maintain the maximum useful life of this elevated storage tank.

SCHEDULE

It is planned that the painting of the Oak Pointe Tower will be required in the year 2014.

IMPACT ON OPERATING EXPENSES

The Oak Pointe Water System, due to small size and limited customer base, has been unable to maintain reserve funds to cover significant operational expenditures such as water tower painting. Currently, there is a \$10 / Qtr. capital charge assigned to all bills. This charge was established for 5 years to cover the cost of the water treatment plant painting and green sand replacement that occurred in 2009. This charge will be continued to cover the cost of painting the elevated storage tank.

EXPENDITURE SCHEDULE

| FUND SOURCE | FY 2010 | FY 2011 | FY 2012 | FY 2013 | FY 2014 | FY 2015 | TOTAL |
|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|
| Capital Charge on Bills | \$0 | \$0 | \$0 | \$0 | \$150,000 | \$0 | \$150,000 |

OAK POINTE 2010-2016 PROJECT DESCRIPTION

Project Title: Oak Pointe Waste Water Treatment Plant Upgrades
Project Type: Water and Sewer Utilities
Useful Life: 10 Years
Re-submittal/New Project: New Project
Classification: Important

PROJECT DESCRIPTION

The existing Oak Pointe WWTP equipment was placed in operation in 1991. The treatment process consists of four sequencing batch reactors that remove BOD, PO₄, and Total Inorganic Nitrogen (TIN) prior to discharge to the groundwater via too rapid infiltration basins. This project involves improvements to the WWTP including variable frequency drives (VFDs) for blowers, installation of dissolved oxygen (DO) probes, recycle pump replacement, and automation of the sludge wasting process.

JUSTIFICATION

Since 2003 the Oak Pointe system has been seeking a funding source to eliminate the ground water discharge at this site, which has been plagued by historic sodium and chloride violations. Currently the Township is pursuing a federal appropriation to combine the Oak Pointe system with the Genoa Oceola system. Since the Township is actively pursuing taking this plant off line only minimal capital improvement funds have been invested at this plant since 2003. Capital improvements that have been completed include the addition of an alum chemical feed system, a new control panel, SCADA controls, and refurbishing the rapid infiltration basins. Even with the improvements implemented thus far, the Oak Pointe WWTP remains a highly labor intensive operation (> 6 hrs day) and relies on equipment that is 20 years old under continuous operation. Additional WWTP upgrades will be necessary, should federal appropriations not develop, to continue to adequately operate the system and reduce the labor involved in operation.

SCHEDULE

It is planned that these improvements will occur in a phased approach beginning in 2011 should the Oak Pointe System not obtain federal appropriation assistance.

IMPACT ON OPERATING EXPENSES

These improvements will have a significant impact on reducing operating expenses by reducing overtime and lower operator time at the facility. However, as Oak Pointe has no reserve funds, these improvements will significantly impact operating rates. Therefore, it will be necessary to phase in the improvements to minimize the impact to operational rates.

EXPENDITURE SCHEDULE

| FUND SOURCE | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL |
|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Capital Charge on Bills | \$0 | \$50,000 | \$100,000 | \$100,000 | \$200,000 | \$150,000 | \$600,000 |

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OAK POINTE 2010-2016 PROJECT DESCRIPTION

Project Title: Re-Route Oak Pointe WWTP Flows to Genoa-Oceola WWTP
Project Type: Water and Sewer Utilities
Useful Life: 50 Years
Re-submittal/New Project: New Project
Classification: Important

PROJECT DESCRIPTION

The Oak Pointe WWTP discharges to groundwater and the effluent contains elevated concentrations of sodium and chloride. In 1999 Genoa Township began an investigation to monitor the sodium and chloride plume. Currently the plume is delineated by the existing monitoring well network, and the Township conducts annual groundwater sampling and provides reverse osmosis units to those private wells impacted by the plume. The Township's goal is to eliminate the source of sodium and chloride in WWTP effluent. This will be accomplished by re-routing the wastewater flows normally received at the Oak Pointe WWTP to the Genoa-Oceola WWTP.

This project will include the installation of approximately 25,000 linear feet of force main, a new pump station, upgrades to existing PS-57 and PS-60, upgrades to the Oak Pointe WWTP to convert the plant to an equalization basin and pumping facility, and upgrades to the Genoa-Oceola WWTP to create additional sludge handling capacity. The location of the proposed improvements is shown on the attached figure.

JUSTIFICATION

This project is required to eliminate the source of sodium and chloride in the groundwater near the Oak Pointe WWTP site. The Genoa-Oceola WWTP is a newer plant with a superior treatment process. Additionally, consolidation of the Township's WWTPs provides the benefits of reduced labor costs, reduced energy use, reduced chemical use, reduced O&M fees due to a larger system and customer base, and reduced points of discharge to the environment. Furthermore, due to capacity concerns at the Oak Pointe WWTP site, growth may also result in the implementation of this project.

SCHEDULE

The Township will continue to pursue funding for the re-routing of Oak Pointe to Genoa-Oceola. This schedule assumes a State and Tribal Assistance Grant (STAG) is obtained in FY 2011 for design and FY 2012 for construction.

IMPACT ON OPERATING EXPENSES

There is no funding available for this project at this time. However, should growth or sodium chloride corrective actions be required, this project will have to be implemented earlier than anticipated.

It is assumed that a STAG grant will be obtained to fund this project. After implementation it is anticipated that the annual O&M budget expenditures will decrease due to the elimination of the existing reverse osmosis program, due to chemical cost reduction, labor savings, and energy savings. These O&M reductions will be utilized to provide the Township's 45% match for the STAG grant. If a grant is not obtained and regulatory requirements mandate the project, then the project will likely be funded by assessments against existing users.

EXPENDITURE SCHEDULE

| FUND SOURCE | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Grant & Loan | \$0 | \$500,000 | \$6,500,000 | \$0 | \$0 | \$0 | \$7,000,000 |

OAK POINTE 2010-2016 PROJECT DESCRIPTION

Project Title: Sodium and Chloride Corrective Actions
Project Type: Water and Sewer Utilities
Useful Life: 30 Years
Re-submittal/New Project: New Project
Classification: Important

PROJECT DESCRIPTION

The Oak Pointe WWTP discharges to groundwater and the effluent contains elevated concentrations of sodium and chloride. In 1999, Genoa Township began an investigation to monitor the sodium and chloride plume. Currently the plume is delineated by the existing monitoring well network. The Township is required to complete annual groundwater sampling, and since the investigation began in 1999 the plume has traveled from the Oak Pointe WWTP site in a southwesterly direction.

The elevated sodium and chloride concentrations being discharged from the Oak Pointe WWTP have impacted approximately 25 residential private water wells downstream of the plant. The Township is responsible for providing a safe drinking water supply to these residents. The interim solution the Township has implemented is providing reverse osmosis systems to the impacted residents. The long term plan is to eliminate the source of sodium and chloride by re-routing the Oak Pointe WWTP effluent to the Genoa Oceola WWTP. However, this ultimate solution may be cost prohibitive. If the Township cannot eliminate the source of the sodium and chloride then a permanent alternate drinking water will be provided to the impacted residents south of the WWTP. This project consists of running municipal water from the Oak Pointe system approximately 2,500 linear feet south of Brighton Road. It should be noted that the exiting Oak Pointe water system is at capacity, and improvements to the water supply for the Oak Pointe system will have to be implemented prior to installing this water main. The costs for the Oak Pointe water system improvements are not included in this project cost.

JUSTIFICATION

Genoa Township has been providing the interim solution of reverse osmosis units for approximately 10 years, and during this time has maintained sodium and chloride concentrations at or near permit effluent levels. However, allowable groundwater concentrations are lower than the plants permitted effluent limits, resulting in continued impacts. If the Township cannot eliminate the source of sodium and chloride in the Oak Pointe WWTP effluent below groundwater concentrations, then this project may be required by the State of Michigan to provide a permanent alternate drinking water source to the impacted residents.

SCHEDULE

It is assumed that the Township will continue to pursue the re-routing of Oak Pointe to Genoa-Oceola over the next six years. For planning purposes this project is included at the end of this capital improvement plan, although regulations may accelerate this schedule.

IMPACT ON OPERATING EXPENSES

There is no funding available for this project at this time. Dependent on regulatory pressure, this project will have a significant impact on operating expenses, should this project be required to be completed with existing user funds. After implementation, it is anticipated that the annual O&M budget expenditures will decrease due to the elimination of the existing reverse osmosis program. Also, additional revenue will be available in the water O&M budget due to the new users on the system that this project will provide.

EXPENDITURE SCHEDULE

| FUND SOURCE | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Unknown | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,000,000 | \$1,000,000 |

OAK POINTE 2010-2016 PROJECT DESCRIPTION

Project Title: Collection System SCADA System
Project Type: Water and Sewer Utilities
Useful Life: 20 Years
Re-submittal/New Project: New Project
Classification: Preferred

PROJECT DESCRIPTION

The Oak Pointe WWTP collection system consists of 175,000 linear feet of sanitary sewer pipe and 10 pump stations. Each of the 10 pump stations is monitored via on-site dialers. The dialers utilize phone lines to alert operations staff when an alarm occurs at a remote pump station site. This project will upgrade the monitoring system for the 10 lift stations from dialers to a Supervisory Control and Data Acquisition (SCADA) system. The SCADA system will communicate with operators via a radio system. A radio will be installed at each pump station. A control computer and Programmable Logic Controller will be installed at the WWTP.

JUSTIFICATION

A SCADA system will provide more reliable communication with the remote lift stations, therefore reducing liability and required physical inspections. In addition, a SCADA system will gather data throughout the collection system. Finally, a SCADA system will be compatible with the Genoa-Oceola SCADA system if these two systems are combined.

SCHEDULE

There is a definite cost savings to completing the entire SCADA system at one time, so even though there is limited funding in the Oak Pointe system, there is not a benefit to completing portions of this each year. It is therefore assumed that the SCADA system will be installed in FY 2013.

IMPACT ON OPERATING EXPENSES

This project will be funded out of the Oak Pointe operation and maintenance budget, which will result in additional expenditures in the year this project is completed. After implementation it is anticipated that the annual O&M budget expenditures will decrease due to increased reliability.

EXPENDITURE SCHEDULE

| FUND SOURCE | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL |
|--------------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| O-P Operating Fund | \$0 | \$0 | \$0 | \$150,000 | \$0 | \$0 | \$150,000 |

OAK POINTE 2010-2016 PROJECT DESCRIPTION

Project Title: Redundant Water Main Loop to the Northshore Community
Project Type: Water and Sewer Utilities
Useful Life: 50 Years
Re-submittal/New Project: New Project
Classification: Preferred

PROJECT DESCRIPTION

The Oak Pointe water system consists of an iron removal plant, an elevated water storage tank, a ground storage tank, four wells, and 79,000 linear feet of pipe. Geographically, the distribution system can be divided into two separate areas: 1) the Oak Pointe service area and, 2) the Northshore service area. Both the ground storage and elevated tank and the plant are located in the Oak Pointe service area. The Northshore service area is supplied with water via by a single water main from the Oak Pointe service area. The purpose of this project is to provide a redundant loop to the Northshore service area. Two options were evaluated, providing a loop to the east along Crooked Lake, Dorr Road, and Conrad (approximately 14,000 linear feet of pipe) and providing a loop to the west directly adjacent to the existing single feed line (approximately 4,500 linear feet of pipe). Due to the costs savings this project is anticipated to be installed via the western loop line. The attached figure shows the existing Oak Pointe water infrastructure, the Northshore and Oak Pointe service areas, the cost prohibitive easterly water main loop, and the proposed westerly loop line.

JUSTIFICATION

Water main loops provide increased reliability, increased pressure, increased fire protection, and increased water quality. The main goal of the westerly loop line is to provide increased reliability; so if the existing water main breaks there is a secondary means of providing potable drinking water to the Northshore service area. It is anticipated that a small increase in pressure and fire flow will also result from this improvement. The easterly loop would provide a greater increase in pressure, fire protection, and water quality; however it is cost prohibitive to construct

SCHEDULE

There is no funding available for this project at this time and funding through existing O&M rates would be cost prohibitive. However, this is a very important project to provide reliability to the Oak Pointe System. For budgeting purposes, it is anticipated that the project will be completed at the end of this capital improvement plan.

IMPACT ON OPERATING EXPENSES

This project will be likely be funded by a grant, or growth that could provide the funds to complete this loop.

EXPENDITURE SCHEDULE

| FUND SOURCE | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Grant or Growth | \$0 | \$0 | \$0 | \$0 | \$0 | \$500,000 | \$500,000 |

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OAK POINTE 2010-2016 PROJECT DESCRIPTION

Project Title: MHOG Water to Oak Pointe
Project Type: Water and Sewer Utilities
Useful Life: 50 Years
Re-submittal/New Project: New Project
Classification: Preferred

PROJECT DESCRIPTION

The Oak Pointe water system provides iron removal for a population of approximately 2,000 residents located in the Oak Pointe and Northshore Developments in south central Genoa Township. The Marion Howell Oceola Genoa (MHOG) water system provides softened water to approximately 15,000 customers throughout each of the four Townships. This project would consolidate the Oak Pointe and MHOG water systems. It is anticipated that approximately 8,000 linear feet of pipe will be required to connect to the two systems from Dorr Road and Brighton Pines Court to Crooked Lake Road and Sharp Drive. The existing system boundaries and the proposed water main are shown on the attached figure. Based on preliminary modeling, it is known that the existing MHOG system cannot effectively serve the existing Oak Pointe system without some distribution system improvements. It is assumed that Oak Pointe has sufficient storage capacity, but an additional booster station and looping of the water main within MHOG would have to be completed as part of this project.

JUSTIFICATION

Connection of the Oak Pointe water system to the MHOG water system will provide increase reliability, increased pressure, increased fire projection, and increased water quality. Additionally, the Oak Pointe water system is at capacity and the State of Michigan will not approve any expansions to the current system. Expansion of the existing well fields for Oak Pointe is not possible due to lack of a sufficient aquifer. Therefore, this project must be completed prior to adding any new users to the Oak Pointe water system. Lastly, the current treatment process provides iron removal only. The MHOG water treatment plant provides lime softening of the water, and can be effectively blended with the Oak Pointe water. This would provide an increase in water quality to the Oak Pointe water users. This project could also potentially eliminate the source of sodium and chloride to the Oak Pointe WWTP.

SCHEDULE

Currently, there is no funding available for this project. However, should growth or sodium chloride corrective actions be required, this project will have to be implemented earlier than anticipated.

IMPACT ON OPERATING EXPENSES

This project will be likely be funded by a grant, growth, or assessments against existing users in the event of regulatory requirements.

EXPENDITURE SCHEDULE

| FUND SOURCE | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL |
|--------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Grant, Growth, or Special Assessment | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,000,000 | \$2,000,000 |

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Lake Edgewood Wastewater System

Genoa Charter Township

2010 - 2016

Capital Improvement Plan



March 8, 2010

INTRODUCTION

Presented is the 2010 – 2016 Genoa Charter Township Capital Improvement Plan (CIP) for the Lake Edgewood Sanitary Sewer System. Capital improvements are defined as those physical facilities which involve a substantial investment and last a long time. This plan was developed to provide a tool to assess the long-term capital project requirements of the Lake Edgewood Sewer System and allow the Township to prioritize and plan for the investment in its infrastructure for long term sustainability.

SYSTEM CHALLENGES

The Lake Edgewood wastewater system was originally privately constructed to serve an individual development. The Township took over this system to provide proper oversight and to provide protection to the residents. The original wastewater treatment plant (WWTP) was expanded in 2000 to a 0.5 MGD system to account for planned growth in the eastern portion of Genoa Township. Concurrently with the expansion, the State of Michigan became concerned with sodium and chloride from groundwater discharge plants. Sodium and chloride are introduced into the waste stream from the use of a sodium based water softener salt and the placement of regeneration brine into the wastewater system. Current wastewater treatment methods are incapable of removing these contaminants.

Upon investigation, it was determined that the Lake Edgewood Wastewater System impacted downstream groundwater and residential drinking water wells. As a result, the Township and the MDEQ entered into a consent judgment that dictated requirements and restrictions. Currently the Township is pursuing a federal appropriation to re-route the flows normally received at the Lake Edgewood wastewater treatment plant (WWTP) to the Genoa Oceola WWTP. Additional WWTP upgrades will be necessary, should federal appropriations not develop, to continue to adequately operate the system and reduce the labor involved in operation.

In addition the Lake Edgewood Wastewater system has unique challenges facing it, which include:

- Wastewater Treatment Plant is significantly under capacity;
- Small number of users connected to system resulting in a low annual operating budget;
- Limited amount of system owned and operated service equipment such as vactor trucks, flow meters, and cameras;
- Risk associated with the remote lift stations;
- Low replacement reserve funds;
- Difficulty maintaining compliance with the WWTP sodium and chloride effluent limitations; and,
- Sodium and chloride plume in local groundwater from historic discharge.

GOALS

Developing a CIP for a small utility in the current economy is a difficult task. The system cannot rely on development or new users to fund capital improvements, and given its small size,

assessments and capital improvement charges against existing users are financially unfeasible. Therefore, the goals of the CIP are to address the existing system deficiencies within both reasonable budgets and the existing challenges. The specific goals of the Lake Edgewood CIP are:

- Work Towards Consolidation of the Wastewater System with the Genoa-Oceola Wastewater Treatment Plant
- Reduce the Risk of the Remote Lift Stations
- Perform Necessary Plant Improvements

SUMMARY

Seven projects have been identified for the Lake Edgewood CIP for the calendar years 2010 – 2016. Each project has been classified as critical or important and the CIP is organized by this classification. Those projects which are classified as “Critical” are listed first. A critical project requires immediate attention, has a large financial risk, and/or has the ability to greatly improve system operation and reliability. Projects classified as “Important” are listed secondly. Important projects should be completed; however they do not pose an immediate risk to health safety and welfare. In addition, important projects may be funding dependent.

A summary of the total cost for each classification is listed below:

| Classification | Budget Amount |
|-----------------------|----------------------|
| Critical | \$113,000 |
| Important | \$1,735,000 |

The table on the next page outlines each of the seven capital improvement projects, a timetable for each project, and the anticipated funding source. Following the project summary table is a brief report for each project, which describes the project and provides the justification for completing the project.

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TABLE P: LAKE EDGEWOOD CAPTIAL IMPROVEMENT PROJECT SUMMARY 2010-2016

| N o. | Project | Classificati on | Trigger | Budget Amount | 2010 | | 2011 | | 2012 | | 2013 | | 2014 | | 2015 | |
|--------------|--|--------------------|------------------------|--------------------|-----------------|------------|-----------------|------------------|-----------------|--------------------|-----------------|------------|-----------------|------------|------------|------------------|
| | | | | | O&M | Other | O&M | Other | O&M | Other | O&M | Other | O&M | Other | | |
| 1 | Valve Actuators at WWTP | Critical | Ongoing | \$60,000 | \$0 | \$0 | \$0 | \$60,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2 | Muffin Monster at WWTP (complete) | Critical | Aging | \$23,000 | \$23,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 3 | Improved Alum Addition | Critical | Performance | \$30,000 | \$0 | \$0 | \$30,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 4 | WWTP Additional Blowers (2 Total) | Important | More Flow | \$100,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$100,000 |
| 5 | Pump Station Standby Generators (3 Total) | Important | Funding | \$120,000 | \$0 | \$0 | \$0 | \$0 | \$40,000 | \$0 | \$40,000 | \$0 | \$40,000 | \$0 | \$0 | \$0 |
| 6 | New Roof on Old side of WWTP | Important | Age | \$15,000 | \$0 | \$0 | \$15,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 7 | Re-Route LE WWTP Flows to GO WWTP | Important | Funding/Regulat ory | \$1,500,000 | \$0 | \$0 | \$0 | \$250,000 | \$0 | \$1,250,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total | | | | \$1,848,000 | \$23,000 | \$0 | \$45,000 | \$310,000 | \$40,000 | \$1,250,000 | \$40,000 | \$0 | \$40,000 | \$0 | \$0 | \$100,000 |

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LAKE EDGEWOOD 2010-2016 PROJECT DESCRIPTION

Project Title: Valve Actuators at Wastewater Treatment Plant
Project Type: Water and Sewer Utilities
Useful Life: 20 Years
Re-submittal/New Project: New Project
Classification: Critical

PROJECT DESCRIPTION

This project involves the installation of six (6) new automated valve actuators at the Lake Edgewood Wastewater Treatment Plan (WWTP). These actuators will allow operation of all three of the sequencing batch reactor tanks (SBRs) at the WWTP.

JUSTIFICATION

Valve actuators are important components of the SBR treatment process, opening and closing valves that allow for the fill, decant, and wasting processes to occur in each of the SBRs. Currently, only two of the three SBRs at the WWTP are operable due to failure of the existing automated valve actuators. Failure of the valves to operate properly is a dangerous situation as tanks cannot be taken down for service or placed in operation in the event of a plant upset.

SCHEDULE

Due to limited funds in the operating budget, there is not existing funds on hand to replace the actuators. It is planned to replace the actuators in 2011. It should be noted that the Township is currently pursuing a federal appropriation request to consolidate this plant with the Genoa-Oceola WWTP. If this funding is obtained, the additional valve actuators will not be installed.

IMPACT ON OPERATING EXPENSES

The installation of new actuators has the potential to lower operating expenses in the event of a plant upset as the system can more readily respond to permit excursions. Additionally, the actuators can assist in routine maintenance. However, with only a \$300,000 annual operating budget, it is difficult to budget for a \$60,000 expenditure. If operating expenses can match revenue, then the existing new user funds can be used to fund this improvement.

EXPENDITURE SCHEDULE

| FUND SOURCE | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| New User Funds | \$0 | \$60,000 | \$0 | \$0 | \$0 | \$0 | \$60,000 |

LAKE EDGEWOOD 2010-2016 PROJECT DESCRIPTION

Project Title: Muffin Monster at Wastewater Treatment Plant
Project Type: Water and Sewer Utilities
Useful Life: 10 Years
Re-submittal/New Project: New Project
Classification: Critical

PROJECT DESCRIPTION

A Muffin Monster[®] is a grinder that macerates large incoming solid objects in wastewater to prevent these objects from interfering with the Sequencing Batch Reactor (SBR) process. This project involves the installation of a refurbished muffin monster influent grinder at the Lake Edgewood WWTP.

JUSTIFICATION

The Lake Edgewood WWTP was placed in operation in 2000. The original Muffin Monster[®] is still in operation at the WWTP and has surpassed its useful life. As a result, excess solids are impacting operations by causing rag build-up on floats and mixers. Installation of a refurbished grinder will improve system operation.

SCHEDULE

Due to age and poor performance, it is necessary to replace the Muffin Monster[®] as soon as possible.

IMPACT ON OPERATING EXPENSES

It will be necessary to fund this improvement with existing operation and maintenance fees, which may cause an increase in rates. The installation of a new muffin monster has the potential to lower operating expenses due to improved operation.

EXPENDITURE SCHEDULE

| FUND SOURCE | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| L.E. Operating Fund | \$23,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$23,000 |

LAKE EDGEWOOD 2010-2016 PROJECT DESCRIPTION

Project Title: Improved Alum Addition at Wastewater Treatment Plant
Project Type: Water and Sewer Utilities
Useful Life: 20 Years
Re-submittal/New Project: New Project
Classification: Critical

PROJECT DESCRIPTION

The Lake Edgewood WWTP utilizes chemical feed alum addition to assist in phosphorous removal. This project involves the installation of an updated alum system that will introduce alum in the proper reaction phase and result in reduced chemical addition and cost.

JUSTIFICATION

The Lake Edgewood WWTP was placed in operation in 2000 and utilizes alum addition, in conjunction with biological phosphorous removal, to reduce phosphorous concentrations to levels that comply with the facility’s groundwater discharge permit. The optimum time to introduce alum in a SBR process cycle is at the end of the react phase. The current alum system introduces alum during the entire cycle, resulting in chemical addition for over 5 hours per batch. Revising the chemical feed system to only introduce alum at the optimum phase would reduce the total chemical addition time to approximately one hour per batch. This improvement would greatly reduce alum usage and would save over \$5,000 per year in chemical costs.

SCHEDULE

The schedule to implement this improvement is during 2011.

IMPACT ON OPERATING EXPENSES

The installation of an updated alum addition system has the potential to significantly reduce chemical usage and cost at the Lake Edgewood WWTP. In 2010 a project cost analysis will be performed to evaluate the savings that can be utilized to fund the improvement with no impact on operation and maintenance rates. The improvement will be implemented in the 2011 budget cycle.

EXPENDITURE SCHEDULE

| FUND SOURCE | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL |
|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| L.E. Operating Funds | \$0 | \$30,000 | \$0 | \$0 | \$0 | \$0 | \$30,000 |

LAKE EDGEWOOD 2010-2016 PROJECT DESCRIPTION

Project Title: Waste Water Treatment Plant Additional Blowers
Project Type: Water and Sewer Utilities
Useful Life: 30 Years
Re-submittal/New Project: New Project
Classification: Important

PROJECT DESCRIPTION

The existing Lake Edgewood WWTP consists of a sequencing batch reactor (SBR) process. The SBR process for treating wastewater consists of alternating between cycles of filling, aeration, anoxic reaction, settling, and decanting. The aeration process encourages the multiplication of aerobic bacteria, which are necessary to consume the nutrients in the wastewater and facultative anaerobic bacteria that reduce nitrate. Blowers are used for aeration to increase dissolved oxygen concentrations for the oxidation of ammonia to nitrate. This project involves the purchase of two additional blowers for the WWTP site to reduce cycle times and increase dissolved oxygen concentrations to assist in ammonia oxidation.

JUSTIFICATION

The existing blowers at the WWTP are not large enough to introduce enough air to the process if additional flow is treated at this site. It should be noted that Lake Edgewood is seeking federal appropriations to decommission the Lake Edgewood WWTP site. Therefore, the additional blowers at Lake Edgewood will only be necessary if the plant is not decommissioned and flow increases greater than 33% more than the existing daily average of 150,000 gpd.

SCHEDULE

This project is strictly dependent on flows increasing significantly in the next five years and concurrently the inability to combine this facility with the Genoa-Oceola WWTP. For budgeting purposes, this project is budgeted for 2015.

IMPACT ON OPERATING EXPENSES

These improvements will be funding out of operation and maintenance, which will result in an increase in expenditures. The increase in flow will off-set the expenditure as additional flow will generate additional revenue. After implementation it is assumed that electrical costs will increase.

EXPENDITURE SCHEDULE

| FUND SOURCE | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL |
|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| LE Operating Fund | \$0 | \$0 | \$0 | \$0 | \$0 | \$100,000 | \$100,000 |

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LAKE EDGEWOOD 2010-2016 PROJECT DESCRIPTION

Project Title: Lake Edgewood Pump Station Standby Generators
Project Type: Water and Sewer Utilities
Useful Life: 25 Years
Re-submittal/New Project: New Project
Classification: Important

PROJECT DESCRIPTION

The Lake Edgewood collection system consists of 58,000 linear feet of pipe and 5 pump stations. Two of the five pump stations have on-site stand by generators. This project would involve the installation of natural gas standby generators at the remaining three pump stations in the Lake Edgewood System; known as PS-39, PS-62, and PS-68.

JUSTIFICATION

Permanent standby generators run the pump stations in the event of a power outage. Permanent generators at the pump station sites provide reduced liability for the municipality and reduce overtime during power outages.

SCHEDULE

Due to limited funds in the operating budget, one generator per year, with an average installation price of \$40,000 will be purchased and installed. This will result in the three generators being installed by 2015.

IMPACT ON OPERATING EXPENSES

Since the funding source is operation and maintenance fees, the project will have a short term increase in Operation and Maintenance Rates to cover the cost of installation. However, after project implementation, the project will result in reduced overtime and reduced liability, resulting in savings on insurance coverage. Additionally, there will be immeasurable savings from the protection to personal property from preventing a sewer backup event.

EXPENDITURE SCHEDULE

| FUND SOURCE | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| L.E. Operating Fund | \$0 | \$0 | \$40,000 | \$40,000 | \$40,000 | \$0 | \$120,000 |

LAKE EDGEWOOD 2010-2016 PROJECT DESCRIPTION

Project Title: New Roof on Old Portion of Wastewater Treatment Plant
Project Type: Water and Sewer Utilities
Useful Life: 20 Years
Re-submittal/New Project: New Project
Classification: Important

PROJECT DESCRIPTION

The Lake Edgewood WWTP was constructed in two phases. The original plant was constructed in the late 1980s. In 2000, a new WWTP was built to accommodate growth and anticipated future flows. This project involves replacement of the roof on the original WWTP, which has been converted into a storage facility for all systems associated with Genoa-Township Utilities, including MHOG, G-O, and Oak Pointe.

JUSTIFICATION

The existing roof at the facility has exceeded its useful life. A new roof is required to prevent leaks and damage to the building support structure and the equipment stored inside.

SCHEDULE

The schedule to implement this improvement is during the 2011/2012 budget cycle.

IMPACT ON OPERATING EXPENSES

The old portion of the WWTP has been converted into a storage facility that is used for all systems. The building is used to store pumps, safety equipment, repair bands, couplings, and valves. This equipment is used for all systems, and therefore the roof costs will be shared by all systems based on the proportion of customers in each system. Therefore, the Lake Edgewood operating expenses will not be impacted by this improvement.

EXPENDITURE SCHEDULE

| FUND SOURCE | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| All System Funds | \$0 | \$15,000 | \$0 | \$0 | \$0 | \$0 | \$15,000 |

LAKE EDGEWOOD 2010-2016 PROJECT DESCRIPTION

Project Title: Re-Route Lake Edgewood WWTP Flows to the Genoa-Oceola
WWTP
Project Type: Water and Sewer Utilities
Useful Life: 50 Years
Re-submittal/New Project: New Project
Classification: Important

PROJECT DESCRIPTION

The Lake Edgewood WWTP discharges to groundwater and the effluent contains elevated concentrations of sodium and chloride. In 1999, Genoa Township began an investigation to monitor the sodium and chloride plume. Currently the plume is delineated by the existing monitoring well network and the Township conducts annual groundwater sampling and provides reverse osmosis units to those private wells impacted by the plume. The Township's goal is to eliminate the source of sodium and chloride in WWTP effluent. This will be accomplished by re-routing the effluent from the Lake Edgewood WWTP to the Genoa Oceola WWTP.

This project will include the installation of approximately 16,000 linear feet of force main, a new pump station, upgrades to the Lake Edgewood WWTP to convert the plant to an equalization basin and pumping facility, and upgrades to the Genoa Oceola WWTP to create additional sludge handling capacity. To avoid additional collection system upgrades, this project shall be completed in conjunction with the re-routing of the Oak Pointe WWTP effluent. The attached figure shows the location of the proposed improvements.

JUSTIFICATION

This project is required to eliminate the source of sodium and chloride in the groundwater near the Lake Edgewood WWTP site. In addition, the Genoa Oceola WWTP is a newer plant with a superior treatment process. Lastly, consolidation of the Township's WWTPs provides the benefits of reduced labor costs, reduced energy use, reduced chemical use, reduced O&M fees due to a larger system and customer base, and reduced points of discharge to the environment.

SCHEDULE

The Township will continue to pursue funding for the re-routing of Lake Edgewood to Genoa Oceola. This schedule assumes a State and Tribal Assistance Grant (STAG) is obtained in FY 2011 for design and FY 2012 for construction.

IMPACT ON OPERATING EXPENSES

There is no funding available for this project at this time. It is assumed that a STAG grant will be obtained to fund this project. After implementation it is anticipated that the annual O&M budget expenditures will decrease due to the elimination of the existing reverse osmosis program, due to chemical cost reduction, labor savings, and energy savings. These O&M reductions will be utilized to provide the Township's match for the STAG grant. It should be noted that if this project is not completed in conjunction with the re-routing of the Oak Pointe WWTP effluent, the project costs will increase by approximately \$3,000,000.

EXPENDITURE SCHEDULE

| FUND SOURCE | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| STAG Grant | \$0 | \$250,000 | \$1,250,000 | \$0 | \$0 | \$0 | \$1,500,000 |

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Utility Department
Genoa Charter Township
2010 - 2016
Capital Improvement Plan



March 8, 2010

INTRODUCTION

Presented is the 2010 – 2016 Genoa Charter Township Capital Improvement Plan (CIP) for the Genoa Township Utility Department (Department). Capital improvements are defined as those physical facilities which involve a substantial investment and last a long time. This plan was developed to allow the Utility Department to better serve the public by improving internal capabilities and service.

UTILITY DEPARTMENT

The Genoa Township Utility Department is responsible for the operation, maintenance, billing, planning, data management, financial management, and oversight of four municipal water and sanitary sewer districts:

- Marion Howell Oceola Genoa (MHOG) Water
- Genoa Oceola (GO) Sanitary Sewer
- Oak Pointe Water and Sanitary Sewer
- Lake Edgewood Sanitary Sewer

This service to four separate sewer and/or water districts allows the Department to efficiently serve many residents which provides those individual district residents rate savings by having their costs for professional services shared by a larger population.

GOALS

The goal of the Utility Department CIP is to purchase equipment that will:

- Replace individual home grinder pumps that have exceeded their useful life and provide a new pump in place of rebuilding services that will cost less money over time; and
- Reduce labor time, reduce costs from outside vendors, and assist with maintenance of each of the systems.

SUMMARY

Four capital improvement expenditures have been identified for the Utility Department CIP for the calendar years 2010 – 2016. Each project has been classified as critical or preferred, and the CIP is organized by this classification. Those projects which are classified as “Critical” are listed first. A critical project requires immediate attention, has a large financial risk, and/or has the ability to greatly improve system operation and reliability. Projects classified as “Preferred” are listed secondly. Preferred projects should be completed; however they do not pose an immediate risk to health safety and welfare. In addition, preferred projects may be funding dependent.

A summary of the total cost for each classification is listed below:

| Classification | Budget Amount |
|-----------------------|----------------------|
| Critical | \$225,000 |
| Preferred | \$400,000 |

The table on the next page outlines each of the four capital improvement projects and a timetable for each project. Following the project summary table is a brief report for each project, which describes the project and provides the justification for completing the project.

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TABLE Q: UTILITY DEPARTMENT EQUIPMENT CAPITAL IMPROVEMENT PROJECT SUMMARY 2010-2016

| No. | Project | Classification | Trigger | Budget Amount | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|--------------|--------------------------|----------------|-----------------------|------------------|----------|----------|-----------|----------|----------|-----------|
| 1 | Grinder Pump Replacement | Critical | Age | \$225,000 | \$15,000 | \$25,000 | \$35,000 | \$50,000 | \$50,000 | \$50,000 |
| 2 | Vactor Truck | Preferred | Ongoing/Cost Analysis | \$250,000 | \$0 | \$0 | \$250,000 | \$0 | \$0 | \$0 |
| 3 | Sewer Line Camera | Preferred | Age | \$120,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$120,000 |
| 4 | Flow Meters | Preferred | Performance | \$30,000 | \$8,000 | \$7,000 | \$5,000 | \$5,000 | \$5,000 | \$0 |
| Total | | | | \$625,000 | \$23,000 | \$32,000 | \$290,000 | \$55,000 | \$55,000 | \$170,000 |

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UTILITY DEPARTMENT EQUIPMENT 2010-2016 PROJECT DESCRIPTION

Project Title: Grinder Pump Replacement in Sanitary Systems
Project Type: Water and Sewer Utilities
Useful Life: 20 Years
Re-submittal/New Project: New Project
Classification: Critical

PROJECT DESCRIPTION

A portion of the Genoa-Oceola, Oak Pointe, and Lake Edgewood Sanitary Sewer Systems utilize grinder pumps to convey wastewater from the homes to the collection system. Many of these grinder pumps were initially installed in the mid-1990s and are exceeding 15 years of age. This project involves the replacement of the original grinder pumps.

JUSTIFICATION

Typically, a residential grinder unit can operate for five years prior to requiring any service. These systems, with minor parts, are able to be repaired and returned to service many times, with continued reliable operation. However, due to advances in pump design and parts manufacturing, many components of the original pump systems have become obsolete and very expensive to repair. Therefore, due to the expense of parts versus a new pump (\$1,200 vs 1,500 respectively), it has become more cost effective to replace the grinder pumps rather than to rebuild and repair them.

SCHEDULE

The schedule to implement this improvement is ongoing, based on pump service. Pumps will be replaced during the course of this capital improvement plan.

IMPACT ON OPERATING EXPENSES

The installation of new pumps will be performed within the existing operating budgets for the sanitary sewer systems.

EXPENDITURE SCHEDULE

| FUND SOURCE | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| All System Funds | \$15,000 | \$25,000 | \$35,000 | \$50,000 | \$50,000 | \$50,000 | \$225,000 |

UTILITY DEPARTMENT EQUIPMENT 2010-2016 PROJECT DESCRIPTION

Project Title: Vactor Truck Purchase for Sewer and Water Systems
Project Type: Water and Sewer Utilities
Useful Life: 10 Years
Re-submittal/New Project: New Project
Classification: Preferred

PROJECT DESCRIPTION

The Genoa-Oceola, Oak Pointe, and Lake Edgewood Sanitary Sewer Systems utilize outside contracted vactor truck services to assist in emergency response activities and to perform maintenance on gravity sewers and pump stations, including removal of grease, grit, and debris. Additionally, the MHOG Water System utilizes vactor services for hydro-excavation during water service leads to safely identify other closely installed utilities. This project involves the purchase of a vactor truck to be shared by the combined utilities, and operated by existing staff.

JUSTIFICATION

In an average year, the utility systems expend over \$60,000 for outside vactor services. There are additional costs associated with extended timeframes between cleaning maintenance, delays in waiting for outside services to arrive, and additional property and environmental damage due to delays in response.

SCHEDULE

The schedule to implement this improvement is dependent upon performance of a cost / benefit analysis of the annual cost for purchase of a vactor truck compared to utilization of outside services. It is assumed that budgetary numbers for this analysis would be obtained from the 2009-2010 budget years and if favorable the vactor purchase would occur in the 2011 budget cycle.

IMPACT ON OPERATING EXPENSES

The purchase of a vactor truck would only occur if it resulted in a positive impact on operating expenses. This cost would be spread amongst all systems associated with Genoa Township Utility Department based on system size and demand for truck usage.

EXPENDITURE SCHEDULE

| FUND SOURCE | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| All System Funds | \$0 | \$0 | \$250,000 | \$0 | \$0 | \$0 | \$250,000 |

UTILITY DEPARTMENT EQUIPMENT 2010-2016 PROJECT DESCRIPTION

Project Title: Sewer Line Camera
 Project Type: Water and Sewer Utilities
 Useful Life: 10 Years
 Re-submittal/New Project: New Project
 Classification: Preferred

PROJECT DESCRIPTION

This project includes the purchase of a sewer line camera. A sewer line camera will be used to inspect the inside of gravity sewer line pipes. This is a useful tool for finding sewer lines, identifying where leads tie into the sewer, identifying areas of Inflow & Infiltration, and identifying areas that need replacement, repair or cleaning.

JUSTIFICATION

Currently the Utility Department utilizes outside services to camera sewer lines, which is primarily performed only on an emergency basis. It is anticipated that there will be a cost savings over time if this service is brought in-house, by allowing for preventative maintenance. It is also anticipated that there would be an increase in use of the sewer line camera, allowing the municipality to better manage the system by prioritizing repairs.

SCHEDULE

The schedule to implement this improvement is dependent upon performance of a cost / benefit analysis of the annual cost for purchase of a sewer camera compared to utilization of outside services. In addition, funds are limited for this larger capacity purchase. Therefore, it is assumed that the camera will be purchased in 2015.

IMPACT ON OPERATING EXPENSES

The purchase of a sewer line camera will only occur if it resulted in a positive impact on operating expenses. This cost would be spread amongst all systems associated with Genoa Township Utilities.

EXPENDITURE SCHEDULE

| FUND SOURCE | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| All System Funds | \$0 | \$0 | \$0 | \$0 | \$0 | \$120,000 | \$120,000 |

UTILITY DEPARTMENT EQUIPMENT 2010-2016 PROJECT DESCRIPTION

Project Title: Collection System Flow Meters
Project Type: Water and Sewer Utilities
Useful Life: 10 Years
Re-submittal/New Project: New Project
Classification: Preferred

PROJECT DESCRIPTION

Rainwater and groundwater enter the Township's three sanitary sewer collection systems, which is classified as inflow and infiltration (I&I). Flow meters are a useful tool to evaluate the collection system to identify areas of the system that are impacted by I&I. The Utility Department currently has one flow meter. This project includes the purchase of four additional flow meters.

JUSTIFICATION

Additional flow meters will allow the Utility Department to study different areas of the collection system during the same time period. This is necessary to evaluate the collection system's I&I. In addition, the municipal sanitary sewer systems pay to convey and treat I&I. Lastly, I&I flows utilize capacity within both the collection systems and the wastewater treatment plants.

SCHEDULE

Due to limited staff to manage, plan, and maintain both the flow meters and the subsequent data, it is assumed the flow meters will be purchased on an annual basis. This will allow time for staff to improve efficiency of installation and data management. Additionally, meters become less expensive over time as software and large bands do not have to be purchased. Even if staff levels do not increase for full implementation, the meters will provide a savings on rental fees from outside consultants.

IMPACT ON OPERATING EXPENSES

Currently, the DPW equipment annual budget is \$10,000, therefore the purchase of the flow meters will result in a slight increase in the expenditures from the DPW budget that are spread amongst the three sanitary systems. Additionally, this capital purchase has the ability to save money over time, as it will allow in-house staff to study areas rather than outside consultants. For example, a single, 1-month study by an outside firm costs \$35,000, which would cover the total capital purchase of all of the flow meters.

EXPENDITURE SCHEDULE

| FUND SOURCE | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | TOTAL |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| All System Funds | \$8,000 | \$7,000 | \$5,000 | \$5,000 | \$5,000 | \$0 | \$30,000 |

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Mike Archinal

From: Matt Foisy <mattf@xelapack.com>
Sent: Tuesday, June 02, 2015 10:35 AM
To: Mike Archinal
Cc: maureenfoisy@yahoo.com; Polly; Robin Hunt; Gary McCririe; 'Jim Mortensen'; Linda Rowell; Tsmith; 'Jim Mortensen'; Kelly VanMarter
Subject: RE: Excessive speeds on McClements

Good Morning Mike,
My wife and I attended the Township meeting last night. The board approved the speed study. I just wanted to thank you and the board for hearing us, I am looking forward to the next step.
Thank you
Matthew & Maureen Foisy
7666 McClements Rd
Brighton Mi. 48114

From: Matt Foisy [<mailto:mattf@xelapack.com>]
Sent: Thursday, May 28, 2015 11:46 AM
To: 'Mike Archinal'
Cc: 'maureenfoisy@yahoo.com'; 'Polly'; 'Robin Hunt'; 'Gary McCririe'; 'Jim Mortensen'; 'Linda Rowell'; 'Tsmith'; 'Jim Mortensen'; 'Kelly VanMarter'
Subject: RE: Excessive speeds on McClements

Thank you

From: Mike Archinal [<mailto:Mike@genoa.org>]
Sent: Thursday, May 28, 2015 10:41 AM
To: Matt Foisy
Cc: maureenfoisy@yahoo.com; Polly; Robln Hunt; Gary McCririe; Jim Mortensen; Linda Rowell; Tsmith; Jim Mortensen; Kelly VanMarter
Subject: RE: Excessive speeds on McClements

Matt,

I am asking that the Township Board formally request a speed study from the Livingston County Road Commission for McClements between Kellogg and Hacker. This is the first step in considering a speed limit change. They will consider this matter on Monday June 1, 2015. Their meeting starts at 6:30 PM. The meeting is public and you are welcome to attend. The Board packet, including my cover report, will be available on-line by the end of the day. You can find the link here: <http://www.genoa.org/meetings/boardminutes/1>. Please let me know if you have any questions.

Michael C. Archinal
Township Manager



10 Board 6/15/15



Huron
River
Watershed
Council

Protecting the river since 1965

1100 N. Main Street Suite 210
Ann Arbor, MI 48104
(734) 769-5123
www.hrwc.org

May 26, 2015

To: *Huron River Watershed Council Member Communities*
From: *Laura Rubin, Executive Director*

I'm writing to thank you for your support of the Watershed Council, to provide you with a brief update on the accomplishments of the past year, and to submit an invoice for services in the coming year.

First, thank you for your continued support of the Watershed Council's work. I know that your budgets are tight and that every dollar counts. Your membership counts; it goes directly to protect clean water, recreational opportunities and to a high quality of life. It allows us to provide services and conduct research not otherwise provided through grant funding and provide matching funds for grants. The Watershed Council currently matches each dollar of government member dues with over twenty dollars from other sources.

This past year the Watershed Council continued to expand its programs and services and to receive accolades for that work. The enclosed material gives you an overview of the services we provide to member governments and a brief summary of our successes in 2014.

The formula for calculating dues for membership in the Watershed Council remains the same:

- The formula for cities, villages, and townships is \$0.10 per capita;
- The formula for counties is \$0.05 per capita plus \$1.50 per square mile in the watershed.

Dues have been calculated based on the 2010 estimated census data; the minimum value for annual dues remains at \$400; dues for larger communities have no cap; and communities are only billed for the percentage of their population estimated to live within the watershed.

We understand the financial pressures on local resources and are happy to come to your board meeting to talk about the benefits of membership and answer questions. Please feel free to call me or your Watershed Council Board representative.

Again, thank for your membership in the Huron River Watershed Council. We look forward to another year of working collectively to protect and restore the Huron.

Yours truly,

Laura Rubin
Executive Director
lrubin@hrwc.org

HURON RIVER WATERSHED COUNCIL

Services Provided to Member Governments

The Huron River Watershed Council is a public, nonprofit coalition of local governments, businesses, and citizens established to protect the Huron River and its tributary streams, lakes, wetlands, and groundwater. Membership is voluntary for municipalities located wholly or partially within the Huron River Watershed. Annual membership dues for townships, cities, and villages are assessed at a rate of \$0.10 per capita (based on 2010 census figures). Annual dues for counties are assessed at a rate of \$0.05 per capita (watershed population) plus \$1.50 per square mile of watershed area. Each community is able to appoint one representative and an alternate to the Council for each 20,000 in population. For counties, representation is based upon the population of eligible communities not otherwise represented. The following are programs and services of the Council that communities receive for their membership.

I. Water Quality Monitoring and Education

A. Promote and Coordinate Studies Regarding Water Resources

1. HRWC staff, board members, and volunteers serve on local river/watershed related committees and work with lake associations, municipal agencies and departments as requested;
2. The Council performs fieldwork to generate water quality information (stream and river quality, too), and utilizes that and other existing water quality and quantity information to develop watershed management plans for priority areas of the Huron River Basin;
3. The Adopt-A-Stream program generates creek reports for the creeks and streams in the monitoring program.

B. Prepare periodic reports concerning emerging issues within the Huron River Watershed

C. Provide specific information to the public regarding the Huron River, its lakes, streams, flood plains, wetlands and groundwater, and research conducted by the Council

D. Distribute a quarterly newsletter on water resource issues

The newsletter informs members of Council activities and emerging issues regarding water quality and the Huron River. Copies are provided for each member of the community's governing board and planning commission. Additional copies are provided for distribution to the public visiting the municipal offices and through area public libraries. Additional action bulletins/e-mails are distributed when the need arises to detail important initiatives affecting the river.

E. Conduct presentations, workshops, and hands-on educational programs on the Huron River and its ecosystem

1. We train teachers in the use of environmental education materials on rivers, wetlands, and groundwater, and develop new curricula to augment existing curricula;
2. The Council has developed the State's premiere Adopt-A-Stream program through which citizen volunteers receive hands-on training to learn stream ecology, assess the health of area creeks and take action locally to protect these sensitive systems;

3. Staff is available to do video and slide presentations.

II. Technical Assistance and Policy Development

- A. Provide technical analysis of data and reports regarding water resources**
- B. Provide technical assistance in the development of water resource protection policy and ordinances**
 1. We assist local planners in stormwater management planning, and in developing ordinances/policies for protecting wetlands, flood plains, riparian zones and groundwater resources;
 2. The Council also provides statewide leadership in issues related to watershed protection.
- C. Permit and development proposal review/assessment of potential impacts to surface and groundwater resources**
 1. HRWC staff and technical advisors review permit applications under Michigan's Goemaere-Anderson Wetland Protection Act, Inland Lakes and Streams Act, Flood Plain Regulatory Authority, and National Pollution Discharge Elimination Program and other programs administered by State and Federal Agencies;
 2. We also provide technical assistance on proposed development plans and environmental management plans and practices.

III. Regional, State and Federal Representation

- A. Provide member governments with a forum for the resolution of inter-governmental disputes or inter-jurisdictional problems arising from the management of shared water resources.**
- B. Provide regional representation by serving on committees**
- C. Comment upon State and Federal legislation, polity or planning initiatives that affect local governments and water resources.**

In addition, the Council will perform more in-depth work on each of the above services on a fee-for-service based system. Some additional services not mentioned above include:

- Informational and educational "tip" cards providing steps/ideas on how to conserve water in the home, care for a septic system, use watershed-friendly lawn care products, properly dispose of hazardous waste and more.
- Land Use planning tools
- Stormwater permits
- Natural feature mapping/GIS
- Facilitation of inter-governmental planning

Annual Report

2013-2014



Huron
River
Watershed
Council

As we near HRWC's 50th anniversary, I am reminded of the immense history of the river—how long it's been flowing by, transporting water and sediment downstream, and how long it will continue to do so.

What we see now, is not what it's been like or what it may look like in the future. This used to be a meandering river that was used primarily for navigation, drinking water, and waste disposal. There were explorers, the beaver and mink trappers, the loggers, all using the river for transportation. When the railroads penetrated the region, Mills developed along the river (cider, woolen, saw, grain, paper). The Huron was exploited for water-powered manufacturing with 17 dams built on the river. The watershed landscape changed dramatically as a result of the clearing of the land and filling in of wetlands for farming.

In addition, industry was drawn here for the plentiful supply of water for the use and disposal of waste and for the abundance of metals and gravel. Automotive plants, paper mills and tanneries made the banks of the Huron home. This region grew on the base of plentiful natural resources and industrialization flourished.

This use and depletion of these resources came to a head in the 1950s, 60s and 70s. We saw the horror of our actions on the natural world. The Cuyahoga river in Ohio caught on fire in 1969, a fish kill by Rotenone in 1973 caused 400 tons of fish to die in Ford and Belleville Lakes, swimming restrictions were common, and the negative effects of chemicals and polluted air and water quality became evident.

We responded. We knew the beauty and ecology of the river was there waiting to recover. We spoke out, attended Earth Day rallies, protested, and wrote letters. We passed sweeping legislation, we started recycling, composting, and using alternative transportation and energy, we began protecting land, and building an ethic of sustainability. We valued the protection of natural resources while building a strong economy.

And now we're seeing the affects. Water quality is improving in the Huron.

- Phosphorus levels in Ford Lake are substantially reduced, as are the size and duration of algae blooms. There has been a decrease of 6.3 tons of phosphorus kept out of Ford Lake each year, less polluting industries and less discharging to the river!
- 8,000 acres of land are protected (wetland, floodplain, natural areas).
- Stronger local and regional regulations are passed on stormwater, riparian buffers, and more money is invested in pollution prevention, water infrastructure, restoration, and natural resource protection.
- In Ann Arbor's Malletts Creek, volunteers discovered greater diversity of insect life since monitoring began in 1993—a direct result of nine years of restoration efforts
- Two years of watershed planning and two more years of public education and land use planning on Portage Creek has boosted the insect family count to twenty, making Portage Creek one of the best places in the watershed.

Photo: J. Lloyd



Photo: J. Oleksinski

Getting the interest and investment for a healthy and clean river takes a lot of work. This past year HRWC made tremendous progress in engaging citizens, governments, and businesses in protecting and restoring the river and watershed.

Program Success

Through leading the Michigan Clean Waters Corps for the State of Michigan, HRWC has built and trained a network of lake and stream monitoring volunteers who collect water quality data across Michigan. In 2013-14, 15 stream monitoring groups and 225 lake groups participated. HRWC worked with DEQ and DNR to establish a new monitoring parameter, the *Road/Stream Crossing Inventory*, in which groups assess ways in which road crossings impact the quality and flow of a stream. HRWC and its partners also piloted *Score the Shore*, a monitoring parameter in which lake residents score the quality of the natural areas along the lakeshore.

HRWC and a team of researchers and public health managers studied a *new method* for detecting failed septic systems to reduce pollutants entering the Huron River and yield a cost-effective approach for county health departments to monitor and rectify problem septic systems. The three year study tested the use of color, infrared and thermal aerial photography to predict the functional status of septic systems. The intent was to use the information to help homeowners correct failing septic systems (or extend the life of those functioning well) by providing specific recommendations and information on proper operation and maintenance. Saving money and improving water quality were the main drivers of this project. The project determined that using aerial image analysis to identify at-risk properties is a viable approach when coupled with strong supporting data such as installation permit records and/or time-of-sale inspections and recommendations. The method requires refinement, including improved supporting data and more information on how failing systems are revealed by impacts to surrounding property.

Photo: J. Oleksinski



Photo: G. Hieber

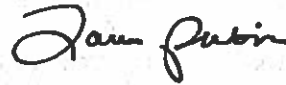
Together we are engaging in and creating new and old ways of thinking about river problems.

In the last year we've seen tremendous interest and vitality in the watershed. Breweries are opening up and down the river, our liveries are the most heavily used in the state, the economic impact of the Huron River Water Trail is \$33 million annually in Washtenaw County alone, two new fly fishing stores have opened in the last five years, kayaking, stand-up paddle boards, and tubing have exploded on the river, the City of Dexter has seen resurgence of riverfront interest and activity since removing the Mill Pond Dam and the rebuilding of the Mill Pond Park, our trail towns are investing millions in clean-up and reuse of contaminated or old properties along the river from DTE in Ann Arbor, to DAPCO in Dexter, to Water Street in Ypsilanti, and our parks departments are investing over \$27 million in parks improvements along the river.

What's going on? A River Renaissance. Together, we are defining what the future of this river looks like.

Thank you for your help in making this all happen. We couldn't do our work without your volunteering, donating, and stewardship.

For the river,



Laura Rubin,
Executive Director



Photo: G. Hieber

Cover Photo: A. Savage



Photo: M. Akemann

Photo: J. Lloyd



Adapting to climate change

Through its Climate Resilient Communities project HRWC aims to equip stakeholders in the watershed with the Information they need to make good decisions about adapting to climate change Impacts. The stakeholders review various climate scenarios, discuss best practices and case studies on adaptation strategies and gain commitments for action. The project strives to create "climate-resilient communities" that know how to reduce their vulnerability and risk associated with current and forecasted conditions.

In the last year, participants defined the following adaptation strategies:

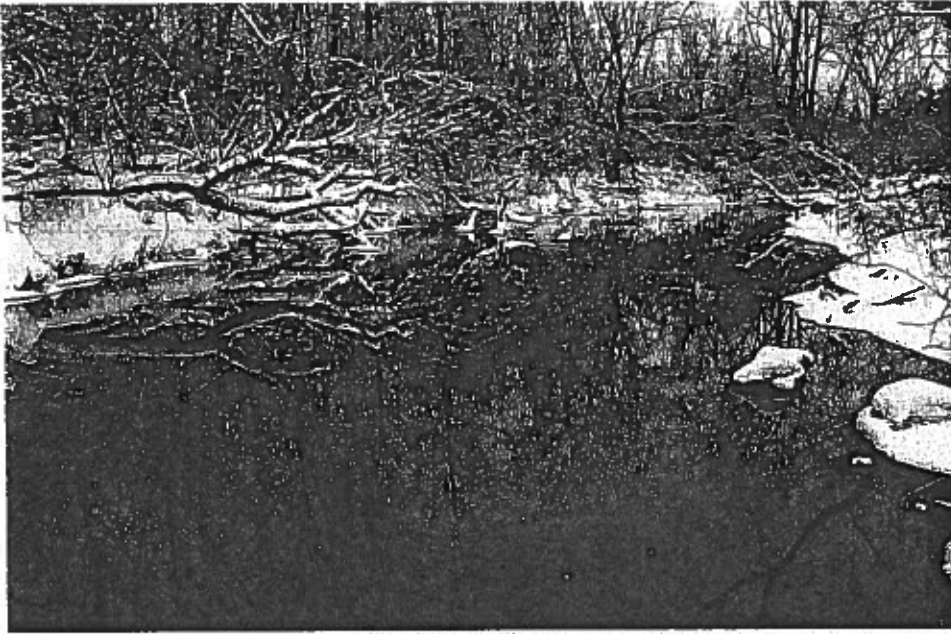
The **Water Infrastructure** team advocated for and succeeded in securing precipitation frequency data that reflects the best available climatic information. Precipitation frequency curves establish the severity, duration and probability of occurrence of storm events and form the basis of many decisions such as storm drain sizing and definition of floodplains. The team also established a list of "no-regrets" actions that if pursued would create resiliency to climate change.

The **In-Stream Flows** team established a network of dam operators to better coordinate the management of flows in the river in anticipation of more extreme flow conditions. The network facilitates improved day-to-day management of individual dams, the river as a whole and improves readiness for flood conditions and drought.

The **Natural Infrastructure** team investigated how key tree species in the watershed are expected to be impacted by changing temperature and precipitation regimes. Understanding if future conditions are expected to be favorable or unfavorable to various species will give insights as to how natural communities may change. This has implications for acquisition, management and restoration of natural lands. A primer on climate impacts and resiliency strategies for tree species of the Huron River watershed was produced.



Photo: J. Lloyd



Adapting to climate change

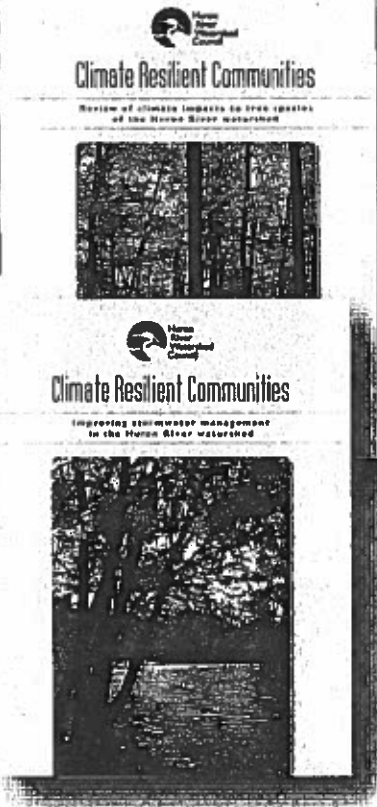
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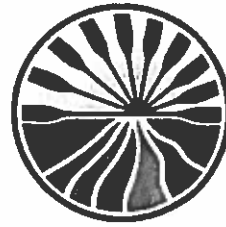
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RiverUp!



Huron River WATER TRAIL

By sparking a river renaissance, the Huron River is becoming the “Main Street” of our river towns where residents and tourists recreate, live, gather, commute, do business and treasure their riverfront locations. And we can measure our progress towards that goal.

HRWC enhanced river-based recreation opportunities via the Huron River Water Trail, by promoting river-friendly business opportunities, and by engaging new and diverse partners and funders in the revitalization of the river corridor. In the 2 years since RiverUp! launched:

- \$28 million invested in 22 riverfront parks and recreation projects by partners that leverages the nearly \$1 million raised by the RiverUp! campaign
- DTE Energy Broadway property is much closer to full remediation and becoming an asset
- 24 trail events from paddle trips to walks from clean-ups to road races
- Two access improvement projects complete and another eight in the pipeline
- 35 active business partners in the five Trail Towns and their connected river sections
- 80% of Paddler’s Companions sold and a second edition in development
- 20 new partner and funding organizations
- 50% of Water Trail way-finding signs installed along 104 river miles
- One Economic Development Director (Flat Rock) with 25% of job duties

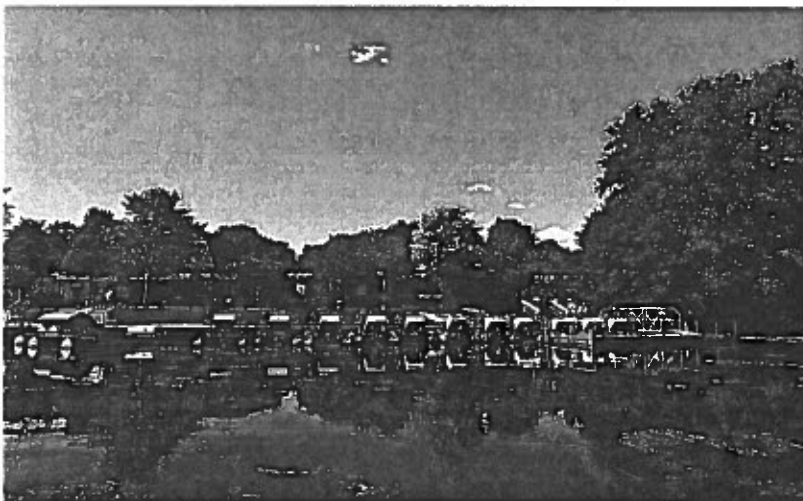
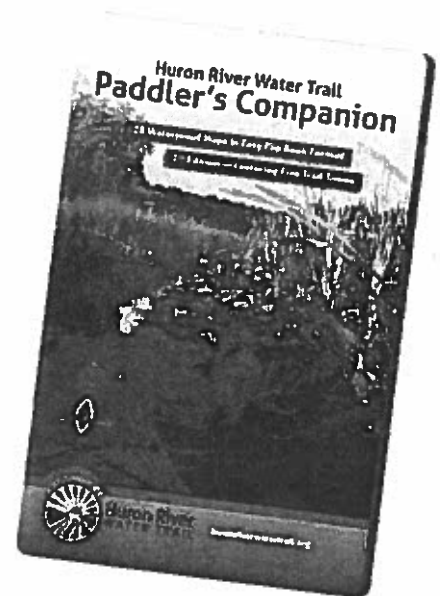
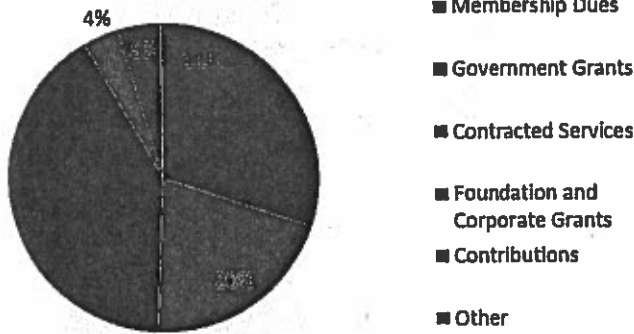


Photo: D. Coombe

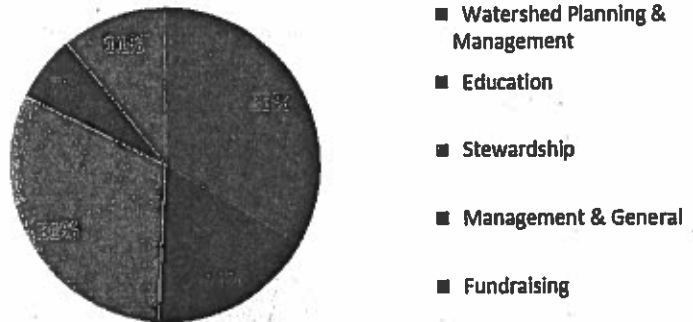


Photo: M. Rowe

Revenue 2013-14



Expenses 2013-14



Statement of Activities

HURON RIVER WATERSHED COUNCIL

STATEMENT OF ACTIVITIES

Fiscal Year April 1, 2013 to March 31, 2014



REVENUE

| | | |
|---------------------------------------|------------------|-------------|
| Membership Dues | \$144,733 | 11% |
| Government Grants | 240,096 | 19% |
| Contracted Services | 263,122 | 21% |
| Foundation and Corporate Grants | 524,031 | 41% |
| Contributions | 47,134 | 4% |
| Other | 58,712 | 5% |
| TOTAL REVENUES | 1,277,828 | 100% |

EXPENSES

| | | |
|--------------------------------------|------------------|-------------|
| Program Service Costs | | |
| Watershed Planning & Management | 411,121 | 33% |
| Education | 215,047 | 17% |
| Stewardship | 386,911 | 31% |
| Management & General | 84,174 | 7% |
| Fundraising | 133,817 | 11% |
| TOTAL EXPENSES | 1,231,070 | 100% |
| CHANGE IN NET ASSETS | 46,758 | |
| Net Assets, beginning of year | 525,551 | |
| Net Assets, end of year | 572,309 | |

Volunteers, members, and donors for FY 2013-14

What we could never do alone, we accomplish working together with our dedicated volunteers and donors. It is through their efforts that HRWC's stewardship work has gained so much attention and acclaim. THANK YOU for making our programs possible.

| | | | | | |
|------------------|---------------------|-------------------|---------------------|---------------------|-------------------------|
| VOLUNTEERS | Diane Goff | Anandhi Chandran | Martha Friedlander | Mikaylah Huff | Jake Lister |
| Administration | Juli Bissonette | Jimmy Chang | Emily Furuichi | Eric Hutchinson | John Lloyd |
| Janis Bobrin | Beth Blanchard | Richard Chase | Dawn Fyrclak | Donald Jacobson | Pauline Loewenhardt |
| Eunice Burns | Bob Blanchard | Anna Chen | Nate Gainer | Katherine Johnson | Abe Lofy |
| John Langs | Robert Blanchard | Sangjo Choi | John Gannon | Lindsey Johnson | John Lofy |
| Barry Lonik | Cameron Blochwitz | Alex Choo | Jennifer Garland | Robb Johnston | Leo Lofy |
| Larry Scheer | David Blochwitz | William Cooney | Matt Gauthier | Kermit Jones | Carlo Lopez |
| Karen Snyder | Steve Bognar | Aline Cotel | Walter Gauthier | Leena Jongpaibookit | Barbara Lucas |
| Steven Wright | Joe Bognar | Margaret Counihan | Valerie Gavrila | Aba Jung | Claudia Luzon |
| Adopt-A-Stream | Brendon Bonner | Rodney Cox | Julie Gebhardt | Kinga Jung | Perry Maddox |
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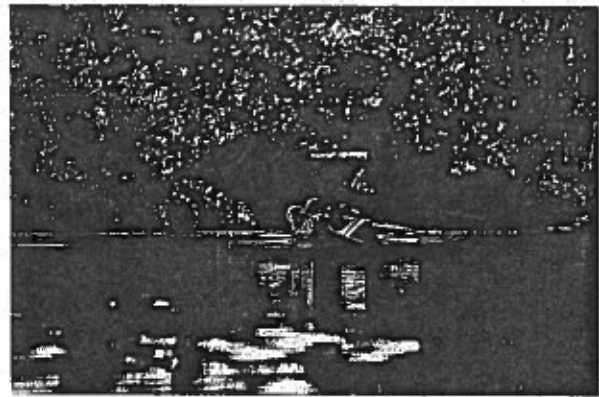


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