

June 14th, 2021 **AGENDA** Thornapple Township

Our Vision: Your vibrant and natural community, with a small-town heart.

Our Mission: To maintain effective government contributing to sustainable growth through sound investment while preserving the small-town heritage, recreational spaces, active agriculture, and the rural feel of our township.

NOTICE

Zoom Access Computer or Phone

Meeting ID: 823 8526 2223

Passcode: 046158

+1 312 626 6799 US (Chicago)

+1 929 436 2866 US (New York)

1. Invocation

2. Pledge of Allegiance

3. Roll Call:

[] Schaefer [] Buckowing [] Campbell [] DeMaagd [] Selleck [] Rairigh [] Willshire

4. Approval of Printed Agenda:

[] approve as presented [] approve as amended

5. Approval of Consent Agenda: [] approve as presented [] approve as amended

- a. [Minutes of the Regular Meeting of May 10th 2021](#)
- b. [Meeting Minutes Feb 10th Special Board](#)
- c. [Revenue and Expenditure Report](#)
- d. Invoice GL Distribution Report and Approval List totaling: \$83964.94
[Vendor Check Run](#) [Fund Register](#) [AP Invoice Approval](#)
- e. [Financial Activities and Investments Report](#)
- f. [Emergency Services Committee Minutes of June 9th 2021](#)
- g. [Chief's TTES Run Report](#)
- h. [Planning and Zoning Report](#)
- i. [Code Enforcement Report](#)
- j. [T.A.P.R.C. Meeting Minutes of May 6th 2021](#)
- k. Correspondence

6. First Public Comment: (Please limit comments to 3 minutes)

7. County Report: Commissioner Catherine Getty

8. Reserved Time:

9. Clerk's Report:

10. Treasurer's Report:

11. Emergency Services Report:

- a. [Garage Door Safety Switch Repairs \(NTE \\$3700\)](#)
- b. Hiring of two people
- c. Chiefs Run Report Summary
- d. Summary

12. Unfinished Business:

- a. [IVS Comm Phone Quote](#) [IVC Comm Point to Point Quote](#)

13. New Business:

- a. [Agenda Request 7% Insurance Underage 11/20/2019 Special Meeting Minutes](#)
[Catch up Calculation](#)
- b. [Amend GL 804-000-702.000 to \\$13440](#) (Clerical Error)
- c. [Agenda Request Oak Opening Committee](#) (Sarah Nelson)
- d. [Barry County Fair Booth costs](#) [Volunteer Sign up](#)
- e. [DLSA Rate Study 2021](#)

14. Committee Reports:

- a. Administration (Schaefer, Buckowing, Willshire)
- b. Cemetery (Willshire, DeMaagd, Rairigh)
- c. Middleville DDA Report (Schaefer)
- d. Elections (Willshire, Buckowing, Schaefer)
- e. Emergency Services (DeMaagd, Schaefer, Rairigh)
- f. Finance (Buckowing, Willshire, Rairigh)
- g. Parks and Recreation Report (Getty)
- h. Personnel – Compensation (Willshire, Campbell, Schaefer)
- i. Property and Public Utilities (Sellek, DeMaagd, Campbell)
- j. Roads and Highways (Campbell, DeMaagd, Selleck)
- k. Duncan Lake Sewer (Campbell, Selleck, Schaefer)

15. Second Public Comment Period (Please limit comments to 5 minutes)

16. Poll of Members:

Kim Selleck (Trustee)
Sandy Rairigh (Trustee)
Ross DeMaagd (Trustee)
Curt Campbell (Trustee)
Deb Buckowing (Treasurer)
Cindy Willshire (Clerk)
Eric Schaefer (Supervisor)

Adjournment time: _____ pm

Next regular monthly meeting scheduled for July 12th, 2021 @ 7:00 p.m.

TOWNSHIP OF THORNAPPLE

Eric Schaefer, *Supervisor* / Debra K Buckowing, *Treasurer* / Cindy A. Willshire, *Clerk*
Curt Campbell, *Trustee* / Ross DeMaagd, *Trustee* / Kim Selleck, *Trustee* / Sandra Rairigh, *Trustee*

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PO Box 459 - 200 E Main St. - Middleville, MI 49333



REGULAR MEETING ZOOM MEETING & IN PERSON May 10, 2021

1. INVOCATION
2. PLEDGE OF ALLEGIANCE
3. ROLL CALL

TIME: 7:00 P.M.

ROLL CALL:	Buckowing: Campbell: DeMaagd: Rairigh:	Present Present Present Present	Schaefer: Selleck: Willshire :	Present Present Present
OTHERS PRESENT:	Brad Lambert, Frank Fiala, Bryan Finkbeiner, Catherine Getty, Chief Randy Eaton, Amy Brown. Via Zoom: Patty Rayl and Thye Fischman and Rebecca Pierce			

4. APPROVAL OF PRINTED AGENDA:

MOTION STATED:	Buckowing – Motion to approve printed agenda as amended with the addition of 13c. Dust abatement budget amendment of GL# 101-449-930.100 to \$16,200.00 and 13d. Gravel roads budget amendment of GL# 101-449-930.300 to \$22,000.00.
MOTION SUPPORTED:	Willshire
MOTION STATUS:	Motion approved with 7 voice votes.

5. APPROVAL OF CONSENT AGENDA:

MOTION STATED:	Willshire – Motion to approve the consent agenda as presented.
MOTION SUPPORTED:	Buckowing
MOTION STATUS:	Motion approved with 7 voice votes.

6. FIRST PUBLIC COMMENT: None.

7. COUNTY REPORT:

County Commissioner Catherine Getty:	Getty stated the county board had taken several actions including: approving a map change from conservation reserve to rural residential in Irving Township, Spectrum Health Pennock is allowing some land next to the urgent care in Hastings to be used as community garden, declared April as Child Abuse Prevention Month, reappointed Jack Minor and Joyce Snow to the Barry Co. Planning Commission, appointed Jessica Bontrager as a citizen-at-large to the animal shelter advisory board, reappointed Anne Richards to the Barry Co. jury board, approved change of software providers from Tyler Tech to Fidlar Tech for the upgrade of vital records and land records, approved some staffing changes in the register of deeds and land and information offices, authorized issuance of a bond for the Village of
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	Middleville's sewer system upgrade, approved the MERS health care agreements and approved the update to the hazard mitigation plan.
Board Response:	No questions offered. Schaefer thanked Getty for the information.

8. RESERVED TIME: Brad Lambert, Barry County Road Commission – Lambert presented a slide presentation to the board (included in the board packet) which outlined the current state of the roads in the township as compared with the rest of the state. He stated that 15% of the roads in Barry County are considered in poor condition which is the best in the state. The PASER rating for the county is 7.1 and in Thornapple township it is 6.14 which is slightly lower than the county average. This indicates that the roads are aging and need to have more maintenance work done to improve the PASER score. Lambert presented the spending trend by the township versus the cost of road maintenance showing the growing disparity. Also, Lambert showed spending by the township in previous decades where the spending was high and what that amount would be given an inflation rate of 3% vs 7%. Lambert pointed out that the cost of materials has risen significantly and therefore the cost of the repairs. He recommended several roadway projects based on what the board had already approved as a 4-year budget of \$100,000.00 per year. Lambert explained the cost of each project and gave the funds to be contributed by the road commission which come from their general revenue. He explained that the revenue comes from gas and weight taxes mostly. Frank Fiala another member of the Barry County Road Commission added that some funds also come from a 4.5 mill bond that was approved and allows them to work ahead of funding from the townships. He said it was important to get the right fix at the right time. Lambert also gave examples of other townships with 10-year plans of maintenance and have passed a millage to provide funding for it. Lambert explained that Thornapple Township is the fastest growing area in Barry County and the most populated township and he would like to see the PASER rating come up some, however, it could only be done successfully in partnership with the township board. He asked if the board had any questions and Buckowing asked if, based on the previously approved 4-year spending plan of \$100,000.00 per year, the township would receive an invoice from the Road Commission and if so when. Lambert explained that they would send an invoice and usually they send it in August or September, but they would be open to trying to accommodate the township if another time in the calendar worked better. Selleck asked about the projects listed and had they already been started? If so, how if it hasn't been paid for yet? Lambert explained that yes, some projects have already started but some are federally funded projects. DeMaagd asked if the road commission would still spend the funds even if the township voted against these projects? Lambert replied that the road commission would spend the funds on some projects, but he wouldn't be able to say where in the county it would be spent if the township did not want to partner with the road commission on those projects. He stated that the Cherry Valley project that has already begun is funded with federal dollars mainly with some gas and weight tax dollars. Buckowing asked if the board had already approved the 4 years of funding, does it need to approve these specific projects? Lambert said, yes, the board should approve the specific projects they are willing to partner with the road commission on funding. Rairigh asked about how the repairs on 108th were paid for? Lambert explained that roads which border on two counties are assigned as jurisdiction to each specific county road commission throughout the state. This makes the work more efficient. For example, when the road needs to be snow plowed, one county road commission does it rather than plowing one side of the road and then having to wait for another county road commission to come and plow the other half. That wouldn't be as efficient so there are no shared jurisdictions each county takes ownership of a segment. Campbell thanked Lambert for the road commission filling in potholes on Noffke Dr. However, he realizes that once we get some more rain those may open back up. DeMaagd asked if the widening of the road on Cherry Valley near

Finkbeiner is going to include a bike lane? Lambert indicated that it is not technically a bike lane but is the wider shoulder and is often used as such. DeMaagd asked about the section that is not widened and were there plans to fill that gap between where it widens. Lambert stated that he did not know of that specific area and what DeMaagd was referring to but was willing to look into it. He said that generally that doesn't happen that way and would not expect this project to turn out that way.

9. CLERK'S REPORT: Willshire stated that she had completed the cancellation of voter master cards of those who have not voted in the past five years and purged them. All continuing education offered at this time for elections has been completed. The Cemetery committee has met and is waiting on bids for the repair of some private roads within the cemetery. The Department of Conservation has scheduled a meeting to discuss options for dealing with the sassafras in the old section. The committee also recommends putting some money toward repair of old foundations and headstones. Dates are set for the general and health insurance ad-hoc committees. Willshire stated she has begun reviewing the general ordinances as well as updating the uniform chart of accounts.

10. TREASURER'S REPORT: None.

11. PLANNING AND ZONING REPORT: Getty shared her report on the boardroom's monitor which was also included in the packet and stated that zoning permits are continuing to be issued. Also, she had just received her first request for a permit for a new house for the 2021 building season. Getty asked if the board had any questions about her report? No questions were offered.

12. EMERGENCY SERVICES REPORT:

A. Replacement of fire hoses from capital improvements, NTE \$6,000.00 – Chief Eaton stated that this had been discussed at the April board meeting and that they would really like to go ahead and replace the fire hoses at this time. They had tested out a 2-inch leader hose at a fire about a month ago and really liked how it worked. Eaton felt it was worth purchasing as currently they have a hose which they have to pry into the reel with a broom handle and then is difficult to unreel.

MOTION STATED:	Buckowing – Motion to approve the replacement of fire hose (including the 2-inch attack hose) expenditure not to exceed the cost of \$6,000.00.
MOTION SUPPORTED:	Willshire
MOTION STATUS:	Motion approved by roll call. 7 yes and 0 no votes.

ROLL CALL VOTE:	Buckowing:	Yes	Schaefer:	Yes
	Campbell:	Yes	Selleck:	Yes
	DeMaagd:	Yes	Willshire:	Yes
	Rairigh:	Yes		

B. Summary – Chief Eaton reviewed the monthly summary with the board saying that there were a 109 calls in the month of April. With the busiest day having 9 calls. There were 29 of 30 days that had calls and 8 days with 2 hits which is up from March. The year to date total was 389 calls and last year to date had 306 calls. Campbell asked Chief Eaton if this was true to the national average? Eaton replied that it was.

13. UNFINISHED BUSINESS:

A. Personnel Committee recommendation regarding ‘Overtime Policy’ and ‘Insurance Deductible Policy.’ Schaefer stated that it is the third time this has been brought before the board. Willshire clarified it is the first time for the overtime policy and the third time for the insurance deductible. DeMaagd asked if the full-time employees have been consulted about the policy change. Chief Eaton said they didn’t hesitate to say yes. Willshire also explained that it is hard enough to get the shifts filled and that with the comp time off then those extra shifts would need to get filled which is a challenge.

MOTION STATED:	Campbell – Motion to approve the overtime policy and insurance deductible policy.
MOTION SUPPORTED:	Rairigh
MOTION STATUS:	Motion approved by 7 voice votes.

B. Lion’s Club Contract and YMCA Contract – Schaefer included a chart in the board packet showing the budgeted amount of \$8,000 for various community promotions. Most of the funds have already been allocated with only \$1,050.00 left remaining. Schaefer said he is looking for recommendations to either increase the budget or split the remaining funds between the Lion’s Club and the YMCA. Buckowing said she felt the board had cut too much from the budget because they were basing it on the previous year that had been cut due to Covid. Selleck agreed that the budget was cut too much, and he would like to see the board spend \$2,500.00 on the fireworks and \$1,050 to the YMCA because the fireworks brings a lot of people into the community and it’s a nice celebration. Buckowing agreed about the fireworks but clarified that the YMCA was only asking for \$500.00. Schaefer asked if it made sense to amend the budget to \$10,000 from the \$8,000. Rairigh reminded the board that Green Gables had been in the consent agenda as well. Buckowing reminded the board that another project was Memorial Day not just being the parade but also the collective funds left over that come from the Village of Middleville and Lyon’s Club and the township go toward helping a veteran’s honor flight to Washington DC. Willshire asked if the budget could be amended to \$12,000 or \$14,000 since \$10,000 would only cover the Lyon’s Club fireworks and the YMCA. Selleck agreed it would be better to budget more since this is only the second month of the new budget. Campbell reminded the board of the Barry County Fair. Buckowing thanked Campbell for reminding them as the booth at the fair is really an opportunity to network with the village and county board members. Getty added that along with the expense of the booth there is also the cost of the promotional materials that let you engage with residents. Schaefer asked if \$12,000 was more reasonable. Buckowing agreed that it was a better idea. Schaefer asked if there were any further questions. DeMaagd asked where the money would be coming from? Buckowing stated it would come from the general fund. DeMaagd asked if there was enough there? Buckowing said yes, it is physically there, and the fund is as healthy as it has ever been. DeMaagd thanked Buckowing for that assessment.

MOTION STATED:	Buckowing – Motion to approve a budget amendment of the community
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	promotions account to \$12,000.
MOTION SUPPORTED:	Willshire
MOTION STATUS:	Motion approved by roll call. 7 yes and 0 no votes.

ROLL CALL VOTE:	Buckowing:	Yes	Schaefer:	Yes
	Campbell:	Yes	Selleck:	Yes
	DeMaagd:	Yes	Willshire:	Yes
	Rairigh:	Yes		

Fireworks - Buckowing then made the motion regarding the fireworks and Schaefer asked the board if there were any questions, comments or concerns. Rairigh reminded the board that during the last discussion about the fireworks it was said that the budget was cut due to Covid but that they had talked about going back to the same amount spent in 2019. Rairigh asked what that amount was. DeMaagd thought it was \$500.00. Rairigh said that was last year's amount, but she was asking about the year prior. Schaefer clarified that the Lyon's Club was asking for \$2,500 because they wouldn't be asking small businesses to contribute this year after such a difficult year. DeMaagd said he felt that \$1,500 would be more reasonable and still a step up from what they had done in the past. Buckowing agreed that it was, but again it was to make up for what they would normally have gotten from small businesses.

MOTION STATED:	Buckowing – Motion to approve an expenditure of \$2,500.00 to contract with the Lyon's Club for a July 4 th fireworks display.
MOTION SUPPORTED:	Selleck
MOTION STATUS:	Motion approved by roll call. 5 yes and 2 no votes.

ROLL CALL VOTE:	Buckowing:	Yes	Schaefer:	Yes
	Campbell:	Yes	Selleck:	Yes
	DeMaagd:	No	Willshire:	Yes
	Rairigh:	No		

YMCA – Schaefer asked if anyone would like to make a motion to partner with the YMCA? Rairigh asked if this would also need to be a contract. Buckowing stated yes, they would have to send an invoice for contractual services. DeMaagd asked where the services would be provided? However, then decided that the discussion would be after the motion was made. Schaefer asked again if anyone would like to make a motion. No one responded. DeMaagd said he would like to hear from them before presenting a motion. Schaefer said that it had been included with last month's board packet but that he could invite them to next month's meeting as well.

C. Dust Abatement Budget Amendment – Buckowing requested to Schaefer that perhaps they could combine C and D and discuss them together? Schaefer agreed. Buckowing explained that the dust abatement and gravel roads was just missed when the budget was originally discussed.

MOTION STATED:	Buckowing – Motion to amend the dust abatement budget GL# 101-449-930.100 to \$16,200.00
MOTION SUPPORTED:	Willshire
MOTION STATUS:	Motion approved by roll call. 7 yes and 0 no votes.

ROLL CALL VOTE:	Buckowing: Yes	Schaefer: Yes
	Campbell: Yes	Selleck: Yes
	DeMaagd: Yes	Willshire: Yes
	Rairigh: Yes	

MOTION STATED:	Buckowing – Motion to amend the gravel roads budget GL# 101-449-930.300 to \$22,000.
MOTION SUPPORTED:	Willshire
MOTION STATUS:	Motion approved by roll call. 7 yes and 0 no votes.

ROLL CALL VOTE:	Buckowing: Yes	Schaefer: Yes
	Campbell: Yes	Selleck: Yes
	DeMaagd: Yes	Willshire: Yes
	Rairigh: Yes	

D. Gravel Road Budget Amendment - See above.

MOTION STATED:	Buckowing – Motion to approve the Barry County Road Commission's 4-year road projects plan as presented for Thornapple Township roads.
MOTION SUPPORTED:	Willshire
MOTION STATUS:	Motion approved by roll call. 7 yes and 0 no votes.

ROLL CALL VOTE:	Buckowing: Yes	Schaefer: Yes
	Campbell: Yes	Selleck: Yes
	DeMaagd: Yes	Willshire: Yes
	Rairigh: Yes	

14. NEW BUSINESS:

A. Progressive AE Design and Construction Services for Duncan Lake Sewer expansion \$53,758.00 and \$4,200.00 for rate study. Buckowing asked if the rate study expenditure be voted on first. Selleck asked if the

funds were available. Buckowing confirmed the funds are there in the sewer fund account. Selleck asked if someone had said they needed an ordinance to establish a rate. Campbell stated that the hook-up rates were updated in the fall, but he did not recall needing an ordinance. Finkbeiner explained that there was a discussion about an ordinance, but clarified it would be something that could happen after the rate study was completed. Campbell said that a lot of people are fuzzy on how the original numbers got created and then the rates got stagnate for a while and then we said, we need to bump that up because it's not enough to cover the costs and that is how we got where we are. Campbell agreed with Selleck that at some point it would be wise to get the rates into an ordinance. Campbell said he would like to see that happen based on whatever comes out of the study. Selleck agreed with that plan. Buckowing asked if the sewer system is going to be expanded to include new entities. The Township is not allowed to pay for any of that. Buckowing asked if there are new entities or individuals will they bear any financial burden? Campbell explained that they will. There is about \$400,000.00 in the Duncan Lake Sewer Authority Fund to be used to expand the system in two pieces. There is \$110,000 in efficiency to upgrade the facility. Those who are already on the system are intended to pay for that upgrade. Then there is about another \$300,000 that is going to be used to expand the system from 150 to 180 REU's, That would be expected to be paid for by the additional users – new homes, the church or whoever - would be expecting to pay for that in time. They are trying to work on a way to come up with the funds up front to pay for it that would be paid off over time. Larry Schaidt is trying to work out a plan. Buckowing questioned with whom he would be working on that? Buckowing explained that the rules that govern government money are different from the rules that govern private borrowing so it's important to understand those rules ahead of time. Campbell said he is confident that Larry is not looking at the Township fronting it. Buckowing stated that we do have legal counsel available to help assist them through the process. Campbell said that Schaidt is swizzling something up and he is sure he will see something about that in the paper. Campbell said he thought Larry would be at the meeting but hasn't made it. Selleck added that looking at the facility there are things that are 30 years old and this is trying to bring it into this century, so it won't be adding a lot of construction, but a lot of mechanics and that makes how we're going to get the extra REU's out of it. Selleck asked Finkbeiner to clarify. Finkbeiner said just to let the board know, they are talking about raising the system to 180 REU's, but this is not to add more customers. It's just those blank lots that are on Noffke Drive that will allow us to handle the flow. Otherwise, the system is maxed out as far as Spring discharges. Peace Church was explored as an option in the beginning to see if it would help share the cost while expanding the system, but there are no plans to include them in the system now. Finkbeiner said he believes this is not in the interest of the Township or the residents on Duncan Lake. Rairigh asked if she understood correctly that the \$53,758.00 is paid for by the Duncan Lake Sewer Authority Fund. Schaefer and Buckowing said yes, through the GL account starting with 804. Campbell said they have reserves to cover that. Buckowing said they have about \$180,000.00, so enough to cover the cost of \$53,758.00.

MOTION STATED:	Buckowing – Motion to approve an expenditure of \$4200 from the Duncan Lake Sanitary Sewer Fund to pay for Progressive AE to do a rate study.
MOTION SUPPORTED:	Willshire
MOTION STATUS:	Motion approved by roll call. 7 yes and 0 no votes.

ROLL CALL VOTE:	Buckowing:	Yes	Schaefer:	Yes
	Campbell:	Yes	Selleck:	Yes

	DeMaagd: Rairigh:	Yes Yes	Willshire:	Yes
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MOTION STATED:	Campbell – Motion to approve an expenditure from the Duncan Lake Sewer Fund of \$53,758 to pay Progressive AE for engineering and administrative services on sewer updates and expansion design of the system only for those currently using the system.
MOTION SUPPORTED:	Selleck
MOTION STATUS:	Motion approved by roll call. 7 yes and 0 no votes.

ROLL CALL VOTE:	Buckowing: Campbell: DeMaagd: Rairigh:	Yes Yes Yes Yes	Schaefer: Selleck: Willshire:	Yes Yes Yes
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B. Phone Committee Recommendations (IVS, Spectrum, ATT) – Schaefer explained that Denise has done a lot of work on this project. The IVS will cost \$150.00 per month, but the Township will have to buy their own phones. They would be limited to 3,000 minutes per month. Schaefer explained that if they go over and go to 4,500 minutes, it would be an extra \$75.00 per month. Rairigh asked how many minutes do we currently use. Schaefer said AT&T doesn't track that number. Schaefer said this is just for informational purposes and Campbell asked if there was a meeting this week. Schaefer answered yes on Thursday, May 13, and invited anyone to come. Buckowing asked if the committee was ready to make a motion on this. Schaefer said more information would be given them in the meeting and that they expected the price to change as there would have to be changes at the TTES building. Campbell felt it would revise some of what was in the packet. DeMaagd asked if it was hard-wire or internet-based? Campbell answered that it would be internet. Selleck asked if this would change the internet provider as well. Campbell said yes at the Township hall but not at the TTES building. Schaefer said that the current internet plan has 20 mbps, but the people he talked to said that an office our size should be getting at least 200 mbps. Selleck stated he went from AT&T to Spectrum and went from 10 to 100. The other items in the packet are just for informational purposes. Schaefer said he was going to talk to AT&T about breaking the contract because the Township hasn't been getting the speed they promised. Schaefer said the slow speeds could be because of Aunalytics rather than AT&T. Schaefer said they would be talking more about this at the next meeting.

15. COMMITTEE REPORTS:

A. Administration (Schaefer, Buckowing, Willshire)

B. Cemetery (Willshire, DeMaagd, Rairigh) Rairigh asked about recommending a budget amendment for the foundation repairs. Willshire said yes, the \$1400.00. She stated she hadn't drawn up a formal request on it. Rairigh asked if the board needed to vote on it? Willshire said it is the same as the previous year.

Rairigh asked if it should be amended since it will be spent on foundation repair rather than mapping? Willshire explained that both those items are in the same GL account, so it isn't really necessary, but she would be happy to make that motion. Buckowing stated she would support that. Schaefer then requested a roll call. DeMaagd said he still has 5 different people looking at the paving situation, so he will have more on that later.

MOTION STATED:	Willshire – Motion to approve spending \$1400.00 on headstone restoration rather than mapping within the Cemetery budget.
MOTION SUPPORTED:	Buckowing
MOTION STATUS:	Motion approved by roll call. 7 yes and 0 no votes.

ROLL CALL VOTE:	Buckowing:	Yes	Schaefer:	Yes
	Campbell:	Yes	Selleck:	Yes
	DeMaagd:	Yes	Willshire:	Yes
	Rairigh:	Yes		

C. Middleville DDA Report (Schaefer)

D. Elections (Willshire, Buckowing, Schaefer)

E. Emergency Services (DeMaagd, Schaefer, Rairigh)

F. Finance (Buckowing, Willshire, Rairigh)

G. Parks and Recreation Representative (Getty) Baseball and softball games started tonight. They are scheduled for Mondays and Wednesdays. Picture Day is on Saturday and in conjunction with that they are having a public input session for the Sheridan Road Park Project. A booth will be set up behind Page Elementary to see what people would like to see besides baseball and softball fields.

H. Personnel – Compensation (Willshire, Campbell, Schaefer)

I. Property and Public Utilities (Selleck, DeMaagd, Campbell)

J. Roads and Highways (Campbell, DeMaagd, Selleck) Campbell said he felt we'd covered that and thanked the Barry County Road Commission for coming out.

K. Duncan Lake Sewer (Campbell, Selleck, Schaefer) Campbell said again that we'd covered that as well.

16. SECOND PUBLIC COMMENT PERIOD: Thye Fischman wanted to give a brief legislative update. Rep Calley has been busy in Lansing. She recently co-sponsored a House Resolution granting to the House Oversight Committee subpoena power as a result of some of the things that have happened with the executive branch and it's about transparency so that the public can understand what's been going on with closed door agreements. Election reforms are continuing. Rep Calley co-sponsored a bill that mainly would require county

clerks to update the qualified voter file and going back and cleaning up that data. The city or township clerks would then review that cancellation and under the plan it would be performed weekly and four to five days before the election which would keep records clean and restore voter trust across the state. The Covid Recovery Plan continues on and Rep Calley believes this is laying the foundation for a brighter future, specifically helping struggling families and helping children who are behind in terms of education. This is House Bill 4420 and is coming up shortly for a vote. Rep Calley recently celebrated the Lofts in Middleville which was a great project in partnership with the Michigan Economic Development Corporation. Finally, Rep Calley continues to host office hours in person on Fridays at the end of every month. The Thursday prior to the office hours you can schedule an appointment time for in person or a zoom meeting if you like. Feel free to reach out with any concerns.

Chief Eaton reminds the board that starting on the evening of May 20 and going to May 23, they will be holding the swift water rescue class. A few people from Cascade and Caledonia will be coming to fill the additional slots they have available.

17. POLL OF MEMBERS:

Kim Selleck (Trustee) – None

Sandy Rairigh (Trustee) – Thank you to Barry County Road Commission for coming to tonight's meeting.

Ross DeMaagd (Trustee) – Asked Getty about code enforcement of home business? Seems odd. Getty explained that this is an ongoing situation and does not pertain to working from home due to Covid.

Curt Campbell (Trustee) – Thank you to Barry County Road Commission.

Deb Buckowing (Treasurer) – Thank you to Duncan Lake Sewer Authority.

Cindy Willshire (Clerk) – None

Eric Schaefer (Supervisor) – Thank you to Bryan, Brad and Frank for being here tonight.

18. ADJOURNMENT:

TIME: 8:42 P.M.

MOTION STATED:	Buckowing
MOTION SUPPORTED:	Willshire
MOTION STATUS:	Approved by 7 voice votes.

Amy Brown, Recording Secretary

Approved_____/2020__

THORNAPPLE TOWNSHIP BOARD

Special Meeting, Wednesday, February 10, 2021

1. The meeting was called to order by Supervisor Schaefer at 7:37 a.m. by Zoom meeting (virtual).
2. Present: Eric Schaefer, Deb Buckowing, Ross DeMaagd, Sandy Rairigh, Curt Campbell, Kim Selleck and Cindy Willshire. Also present: Catherine Getty and Chief Randy Eaton

New Business

3. **MOTION** by Buckowing, support by DeMaagd for the Township to commit to paved roads in the amount of \$100,000 a year for the next four years starting FY 2021-22. **MOTION APPROVED** with 7 yes voice votes.
4. Ad-Hoc committee for new phone system: Chief Eaton, Campbell and Denise Piering (Chair).
5. 2021-2022 Budget: Budget discussion continued.
6. **MOTION** by Campbell, support by DeMaagd to freeze the salaries of all elected officials for the fiscal year 2021-2022. **MOTION FAILED** with 2 yes voice votes (Campbell & DeMaagd) and 5 no voice votes.
7. **MOTION** by Rairigh, support by Buckowing to increase salaries across the board for all staff, including elected officials, by 3%. **MOTION APPROVED** with 5 yes voice votes and 2 no voice votes (Campbell and DeMaagd).
8. **MOTION** by Rairigh, support by Buckowing that medical contributions for those receiving insurance will be reviewed and adjusted by July 1 for the insurance year of 2021-2022. **MOTION APPROVED** with 7 yes voice votes.
9. Ad-Hoc committee for investigating insurance: Willshire, Chief Eaton, Rairigh and Buckowing.

MOTION by Buckowing, support by Campbell to adjourn the meeting. **MOTION APPROVED** with 7 yes voice votes.

Adjournment of meeting at 10:34 a.m.

Approved _____

Cindy A. Willshire, Clerk

PERIOD ENDING 05/31/2021
 % Fiscal Year Completed: 16.71

GL NUMBER	DESCRIPTION	2021-22		YTD BALANCE 05/31/2021	ACTIVITY FOR MONTH 05/31/2021		AVAILABLE BALANCE	% BDT USED
		AMENDED BUDGET	NORMAL (ABNORMAL)		INCREASE (DECREASE)	NORMAL (ABNORMAL)		

Fund 101 - GENERAL FUND

Revenues

Dept 000								
101-000-402.000	CURRENT TAX COLLECTION	290,819.00	10,774.11	4.63	280,044.89	3.70		
101-000-403.000	HILLTOP LITE/SP ASSESSMENT	2,220.00	60.00	0.00	2,160.00	2.70		
101-000-447.000	PROP TAX ADMINISTRATION FEES	128,500.00	3,451.22	0.00	125,048.78	2.69		
101-000-450.000	MOBILE HOME FEES	1,500.00	0.00	0.00	1,500.00	0.00		
101-000-574.000	STATE SHARED REVENUE	400,370.00	68,683.00	0.00	331,687.00	17.15		
101-000-626.100	CHG FOR SERV/SUMMER SCHOOL TAX	8,350.00	0.00	0.00	8,350.00	0.00		
101-000-626.200	CHRG FOR SERV/ZONING	6,500.00	1,490.00	1,000.00	5,010.00	22.92		
101-000-643.000	SALE OF CEMETERY LOTS	2,500.00	6,200.00	5,800.00	(3,700.00)	248.00		
101-000-643.100	CEM OPEN/CLOSING FEES	10,000.00	3,095.00	1,750.00	6,905.00	30.95		
101-000-643.200	CEM FOUNDATION FEES	6,000.00	901.32	648.24	5,098.68	15.02		
101-000-665.000	EARNED INTEREST	6,000.00	137.29	47.47	5,862.71	2.29		
101-000-694.000	MISC REVENUE	500.00	0.00	0.00	500.00	0.00		
101-000-694.100	METRO ACT	6,000.00	0.00	0.00	6,000.00	0.00		

Total Dept 000		869,259.00	94,791.94	9,250.34	774,467.06	10.90		
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Dept 441 - PERSONAL PROPERTY TAXES REIMBURSEMENT
 101-441-402.200 PERSONAL PROPERTY TAX REIMBURSEMENT

Total Dept 441 - PERSONAL PROPERTY TAXES REIMBURSEMENT		1,000.00	0.00	0.00	1,000.00	0.00		
TOTAL REVENUES		870,259.00	94,791.94	9,250.34	775,467.06	10.89		

Expenditures

Dept 103 - TOWNSHIP BOARD

101-103-702.000	SALARIES/TRUSTEES	10,000.00	1,220.00	600.00	8,780.00	12.20		
101-103-702.100	OTHER WAGES/RECORDING SECRETARY	1,000.00	75.00	0.00	925.00	7.50		
101-103-715.000	FICA/MEDICARE CONTRIBUTION	1,000.00	99.85	45.91	900.15	9.99		
101-103-719.000	PENSION PLAN	200.00	10.00	0.00	190.00	5.00		
101-103-956.000	MISCELLANEOUS	100.00	0.00	0.00	100.00	0.00		
101-103-960.000	EDUCATION AND TRAINING	1,500.00	0.00	0.00	1,500.00	0.00		

Total Dept 103 - TOWNSHIP BOARD		13,800.00	1,404.85	645.91	12,395.15	10.18		
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Dept 175 - SUPERVISOR

101-175-702.000	SALARIES	32,660.00	4,991.97	2,511.98	27,668.03	15.28		
101-175-702.001	NON-STATUTORY DUTY SALARY	5,763.00	880.98	443.32	4,882.02	15.29		
101-175-715.000	FICA/MEDICARE CONTRIBUTION	2,500.00	428.67	215.77	2,071.33	17.15		
101-175-718.000	HEALTH INSURANCE PREMIUM	26,500.00	6,838.18	2,234.48	19,661.82	25.80		
101-175-719.000	PENSION PLAN	2,000.00	0.00	0.00	2,000.00	0.00		
101-175-956.000	MISCELLANEOUS	250.00	0.00	0.00	250.00	0.00		
101-175-960.000	EDUCATION AND TRAINING	2,000.00	0.00	0.00	2,000.00	0.00		

Total Dept 175 - SUPERVISOR		71,673.00	13,139.80	5,405.55	58,533.20	18.33		
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Dept 191 - ELECTIONS

101-191-702.000	SALARIES	3,000.00	0.00	0.00	3,000.00	0.00		
101-191-719.000	PENSION PLAN	40.00	0.00	0.00	40.00	0.00		
101-191-730.000	POSTAGE	3,000.00	0.00	0.00	3,000.00	0.00		
101-191-740.000	OFFICE/OPERATING SUPPLIES	4,000.00	0.00	0.00	4,000.00	0.00		

REVENUE AND EXPENDITURE REPORT FOR THORNAPPLE TOWNSHIP

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PERIOD ENDING 05/31/2021

% Fiscal Year Completed: 16.71

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GL NUMBER	DESCRIPTION	2021-22		YTD BALANCE		ACTIVITY FOR		AVAILABLE		% BDGT USED
		AMENDED BUDGET	NORMAL (ABNORMAL)	05/31/2021	05/31/2021	MONTH 05/31/2021	INCREASE (DECREASE)	NORMAL (ABNORMAL)	BALANCE	
Fund 101 - GENERAL FUND										
Expenditures										
101-191-808.000	PROFESSIONAL SERVICES-MISC	400.00	0.00	0.00	0.00	0.00	0.00	400.00	0.00	0.00
101-191-905.000	PUBLISHING	500.00	0.00	0.00	0.00	0.00	0.00	500.00	0.00	0.00
101-191-956.000	MISCELLANEOUS	200.00	0.00	0.00	0.00	0.00	0.00	200.00	0.00	0.00
Total Dept 191 - ELECTIONS		11,140.00	0.00	0.00	0.00	0.00	0.00	11,140.00	0.00	0.00
Dept 209 - ASSESSOR										
101-209-730.000	POSTAGE	3,000.00	0.00	0.00	0.00	0.00	0.00	3,000.00	0.00	0.00
101-209-808.000	PROF SERVICES - CONTRACTOR	51,500.00	4,326.00	4,326.00	4,326.00	4,326.00	0.00	47,174.00	8.40	8.40
101-209-808.100	PROF SERV - OTHER	300.00	235.00	235.00	0.00	0.00	0.00	65.00	78.33	78.33
101-209-826.000	LEGAL FEES	5,000.00	0.00	0.00	0.00	0.00	0.00	5,000.00	0.00	0.00
Total Dept 209 - ASSESSOR		59,800.00	4,561.00	4,561.00	4,326.00	4,326.00	0.00	55,239.00	7.63	7.63
Dept 215 - CLERK										
101-215-702.000	SALARIES	31,796.00	4,860.54	4,860.54	2,445.86	2,445.86	0.00	26,935.46	15.29	15.29
101-215-702.001	NON-STATUTORY DUTY SALARY	13,627.00	2,083.09	2,083.09	1,048.22	1,048.22	0.00	11,543.91	15.29	15.29
101-215-702.100	OTHER WAGES/DEPUTY CLERK	27,810.00	3,945.80	3,945.80	1,990.36	1,990.36	0.00	23,864.20	14.19	14.19
101-215-715.000	FICA/MEDICARE CONTRIBUTION	5,500.00	925.30	925.30	465.82	465.82	0.00	4,574.70	16.82	16.82
101-215-718.100	PYMT IN LIEU OF INSURANCE	4,231.20	705.20	705.20	352.60	352.60	0.00	3,526.00	16.67	16.67
101-215-719.000	PENSION PLAN	4,000.00	500.82	500.82	252.04	252.04	0.00	3,499.18	12.52	12.52
101-215-956.000	MISCELLANEOUS	250.00	0.00	0.00	0.00	0.00	0.00	250.00	0.00	0.00
101-215-960.000	EDUCATION AND TRAINING	1,200.00	0.00	0.00	0.00	0.00	0.00	1,200.00	0.00	0.00
Total Dept 215 - CLERK		88,414.20	13,020.75	13,020.75	6,554.90	6,554.90	0.00	75,393.45	14.73	14.73
Dept 247 - BOARD OF REVIEW										
101-247-702.000	SALARIES	2,400.00	0.00	0.00	0.00	0.00	0.00	2,400.00	0.00	0.00
101-247-715.000	FICA/MEDICARE CONTRIBUTION	200.00	0.00	0.00	0.00	0.00	0.00	200.00	0.00	0.00
101-247-956.000	MISCELLANEOUS	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
101-247-960.000	EDUCATION AND TRAINING	400.00	0.00	0.00	0.00	0.00	0.00	400.00	0.00	0.00
Total Dept 247 - BOARD OF REVIEW		3,100.00	0.00	0.00	0.00	0.00	0.00	3,100.00	0.00	0.00
Dept 253 - TREASURER										
101-253-702.000	SALARIES	39,800.00	6,083.96	6,083.96	3,061.48	3,061.48	0.00	33,716.04	15.29	15.29
101-253-702.001	NON-STATUTORY DUTY SALARY	9,950.00	1,520.96	1,520.96	765.36	765.36	0.00	8,429.04	15.29	15.29
101-253-702.100	OTHER WAGES	28,840.00	4,120.96	4,120.96	2,070.99	2,070.99	0.00	24,719.04	14.29	14.29
101-253-715.000	FICA/MEDICARE CONTRIBUTION	6,000.00	921.26	921.26	463.43	463.43	0.00	5,078.74	15.35	15.35
101-253-718.000	HEALTH INSURANCE PREMIUM	26,500.00	6,838.18	6,838.18	2,234.48	2,234.48	0.00	19,661.82	25.80	25.80
101-253-719.000	PENSION PLAN	4,000.00	586.29	586.29	294.89	294.89	0.00	3,413.71	14.66	14.66
101-253-956.000	MISCELLANEOUS	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
101-253-960.000	EDUCATION AND TRAINING	1,500.00	0.00	0.00	0.00	0.00	0.00	1,500.00	0.00	0.00
Total Dept 253 - TREASURER		116,690.00	20,071.61	20,071.61	8,890.63	8,890.63	0.00	96,618.39	17.20	17.20
Dept 265 - TOWNSHIP HALL										
101-265-808.000	PROFESSIONAL SERVICES	5,000.00	765.00	765.00	340.00	340.00	0.00	4,235.00	15.30	15.30
101-265-920.000	UTILITIES	5,500.00	319.65	319.65	319.65	319.65	0.00	5,180.35	5.81	5.81
101-265-930.000	REPAIR & MAINT/ BLDG & GRNDS	4,000.00	839.83	839.83	365.00	365.00	0.00	3,160.17	21.00	21.00
101-265-956.000	MISCELLANEOUS	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00

REVENUE AND EXPENDITURE REPORT FOR THORNAPPLE TOWNSHIP

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GL NUMBER	DESCRIPTION	2021-22 AMENDED BUDGET	YTD BALANCE 05/31/2021 NORMAL (ABNORMAL)	ACTIVITY FOR MONTH 05/31/2021 INCREASE (DECREASE)	AVAILABLE BALANCE NORMAL (ABNORMAL)	% BDT USED
Fund 101 - GENERAL FUND						
Expenditures						
101-265-970.000	CAPITAL OUTLAY	10,000.00	0.00	0.00	10,000.00	0.00
Total Dept 265 - TOWNSHIP HALL		24,600.00	1,924.48	1,024.65	22,675.52	7.82
Dept 276 - CEMETERY						
101-276-740.000	OFFICE/OPERATING SUPPLIES	200.00	0.00	0.00	200.00	0.00
101-276-808.000	PROFESSIONAL SERVICES-MISC	26,800.00	2,150.00	0.00	24,650.00	8.02
101-276-808.100	OPEN/CLOSING FEES	10,000.00	1,650.00	0.00	8,350.00	16.50
101-276-808.200	FOUNDATION FEES	6,000.00	2,581.12	0.00	3,418.88	43.02
101-276-808.300	PLANNING & ENGINEERING	5,000.00	0.00	0.00	5,000.00	0.00
101-276-930.000	REPAIR & MAINT	12,000.00	884.00	584.00	11,116.00	7.37
101-276-931.000	BUDG & GROUNDS IMPROVEMENTS	1,000.00	272.94	272.94	727.06	27.29
101-276-956.000	MISCELLANEOUS	600.00	0.00	0.00	600.00	0.00
101-276-960.000	EDUCATION AND TRAINING	100.00	0.00	0.00	100.00	0.00
Total Dept 276 - CEMETERY		61,700.00	7,538.06	856.94	54,161.94	12.22
Dept 299 - ADMINISTRATION						
101-299-702.000	SALARIES	23,175.00	3,385.50	1,705.91	19,789.50	14.61
101-299-702.200	SALARIES-TAPRC REC DIRECTOR	0.00	(1,211.54)	(2,423.08)	1,211.54	100.00
101-299-715.000	FICA/MEDICARE CONTRIBUTION	1,800.00	166.31	(54.87)	1,633.69	9.24
101-299-719.000	PENSION PLAN	1,160.00	0.00	0.00	1,160.00	0.00
101-299-719.100	PENSION ADMIN EXPENSE	800.00	0.00	0.00	800.00	0.00
101-299-730.000	POSTAGE	4,000.00	150.00	0.00	3,850.00	3.75
101-299-740.000	OFFICE/OPERATING SUPPLIES	13,000.00	1,595.36	932.57	11,404.64	12.27
101-299-803.000	AUDIT EXPENSE	4,200.00	0.00	0.00	4,200.00	0.00
101-299-808.000	PROFESSIONAL SERVICES-MISC	52,000.00	4,354.00	2,262.00	47,646.00	8.37
101-299-826.000	LEGAL FEES	6,000.00	0.00	0.00	6,000.00	0.00
101-299-850.000	TELEPHONE EXPENSE	9,000.00	1,951.43	634.01	7,048.57	21.68
101-299-880.000	COMMUNITY PROMOTIONS	8,000.00	0.00	0.00	8,000.00	0.00
101-299-905.000	PUBLISHING	1,000.00	42.75	42.75	957.25	4.28
101-299-908.000	TOWNSHIP NEWSLETTER	900.00	0.00	0.00	900.00	0.00
101-299-910.000	INSURANCE AND BONDS	7,500.00	8,653.50	0.00	(1,153.50)	115.38
101-299-930.000	REPAIR & MAINT-GENERAL	4,000.00	0.00	0.00	4,000.00	0.00
101-299-956.000	MISCELLANEOUS	300.00	30.00	10.00	270.00	10.00
101-299-956.200	PRIOR YEAR TAX	200.00	112.45	112.45	87.55	56.23
101-299-956.300	PRIOR YEAR TAX ADMIN FEES	200.00	41.25	41.25	158.75	20.63
101-299-958.000	MEMBERSHIP AND DUES	6,500.00	6,048.20	6,048.20	451.80	93.05
101-299-960.000	EDUCATION AND TRAINING	500.00	0.00	0.00	500.00	0.00
101-299-979.000	EQUIPMENT - LEASED	3,500.00	0.00	0.00	3,500.00	0.00
Total Dept 299 - ADMINISTRATION		147,735.00	25,319.21	9,311.19	122,415.79	17.14
Dept 400 - PLANNING & ZONING						
101-400-702.000	SALARIES/PLANNING COMMISSION & CHAIR	5,000.00	710.00	665.00	4,290.00	14.20
101-400-702.100	OTHER WAGES / RECORDING SECRETARY	500.00	80.00	80.00	420.00	16.00
101-400-702.200	ZONING ADMIN/ENF OFFICER	45,423.63	7,443.63	3,494.08	37,979.37	16.39
101-400-702.300	ZONING BOARD OF APPEALS	1,000.00	0.00	0.00	1,000.00	0.00
101-400-702.600	ORDINANCE ENFORCEMENT OFFICER	7,365.00	1,001.22	504.28	6,363.78	13.59
101-400-715.000	FICA/MEDICARE CONTRIBUTION	4,550.00	728.00	372.85	3,822.00	16.00
101-400-718.000	HEALTH INSURANCE PREMIUM	11,550.00	2,325.62	759.72	9,224.38	20.14
101-400-719.000	PENSION PLAN	2,270.00	374.58	177.10	1,895.42	16.50
101-400-808.000	PROFESSIONAL SERVICES-MISC	2,000.00	0.00	0.00	2,000.00	0.00

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GL NUMBER	DESCRIPTION	2021-22 AMENDED BUDGET	YTD BALANCE 05/31/2021 NORMAL (ABNORMAL)	ACTIVITY FOR MONTH 05/31/2021 INCREASE (DECREASE)	AVAILABLE BALANCE NORMAL (ABNORMAL)	% BDST USED
Fund 101 - GENERAL FUND						
Expenditures						
101-400-826.000	LEGAL FEES	1,500.00	0.00	0.00	1,500.00	0.00
101-400-905.000	PUBLISHING	500.00	79.20	79.20	420.80	15.84
101-400-956.000	MISCELLANEOUS	1,500.00	70.00	0.00	1,430.00	4.67
101-400-958.000	MEMBERSHIP AND DUES	625.00	60.00	0.00	565.00	9.60
101-400-960.000	EDUCATION AND TRAINING	2,000.00	0.00	0.00	2,000.00	0.00
Total Dept 400 - PLANNING & ZONING		85,783.00	12,872.25	6,132.23	72,910.75	15.01
Dept 445 - DRAINS						
101-445-808.000	PROFESSIONAL SERVICES-DRAINS	1,500.00	0.00	0.00	1,500.00	0.00
Total Dept 445 - DRAINS		1,500.00	0.00	0.00	1,500.00	0.00
Dept 448 - STREETLIGHTING						
101-448-920.200	OTHER STREET LIGHTING	3,500.00	360.43	360.43	3,139.57	10.30
101-448-920.300	UTILITIES / HILLTOP	2,200.00	178.72	178.72	2,021.28	8.12
Total Dept 448 - STREETLIGHTING		5,700.00	539.15	539.15	5,160.85	9.46
Dept 449 - HIGHWAYS						
101-449-930.600	PAVED ROADS	100,000.00	0.00	0.00	100,000.00	0.00
101-449-991.000	DEBT SERVICE PRINCIPAL	15,285.00	0.00	0.00	15,285.00	0.00
101-449-995.000	INTEREST PAID	847.75	0.00	0.00	847.75	0.00
Total Dept 449 - HIGHWAYS		116,132.75	0.00	0.00	116,132.75	0.00
Dept 900 - LAND ACQUISITION						
101-900-974.000	LAND IMPROVEMENTS	150,000.00	0.00	0.00	150,000.00	0.00
Total Dept 900 - LAND ACQUISITION		150,000.00	0.00	0.00	150,000.00	0.00
TOTAL EXPENDITURES		957,767.95	100,391.16	43,687.15	857,376.79	10.48
Fund 101 - GENERAL FUND:						
TOTAL REVENUES		870,259.00	94,791.94	9,250.34	775,467.06	10.89
TOTAL EXPENDITURES		957,767.95	100,391.16	43,687.15	857,376.79	10.48
NET OF REVENUES & EXPENDITURES		(87,508.95)	(5,599.22)	(34,436.81)	(81,909.73)	6.40

REVENUE AND EXPENDITURE REPORT FOR THORNAPPLE TOWNSHIP

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% Fiscal Year Completed: 16.71

GL NUMBER	DESCRIPTION	2021-22 AMENDED BUDGET	YTD BALANCE 05/31/2021 NORMAL (ABNORMAL)	ACTIVITY FOR MONTH 05/31/2021 INCREASE (DECREASE)	AVAILABLE BALANCE NORMAL (ABNORMAL)	% BGT USED
Fund 205 - EMERGENCY SERVICES MILLAGE						
Revenues						
Dept 000						
205-000-402.000	CURRENT TAX COLLECTION	577,000.00	20,148.93	8.65	556,851.07	3.49
205-000-665.000	EARNED INTEREST	0.00	0.70	0.56	(0.70)	100.00
Total Dept 000		577,000.00	20,149.63	9.21	556,850.37	3.49
Dept 441 - PERSONAL	PROPERTY TAXES REIMBURSEMENT					
205-441-402.200	PERSONAL PROPERTY TAX REIMBURSEMENT	26,600.00	0.00	0.00	26,600.00	0.00
Total Dept 441 - PERSONAL	PROPERTY TAXES REIMBURSEMENT	26,600.00	0.00	0.00	26,600.00	0.00
TOTAL REVENUES		603,600.00	20,149.63	9.21	583,450.37	3.34
Expenditures						
Dept 000						
205-000-956.200	PRIOR YEAR TAX	0.00	210.30	210.30	(210.30)	100.00
Total Dept 000		0.00	210.30	210.30	(210.30)	100.00
Dept 206 - FIRE						
205-206-999.000	TRANSFER TO OTHER FUNDS-FIRE	346,200.00	0.00	0.00	346,200.00	0.00
Total Dept 206 - FIRE		346,200.00	0.00	0.00	346,200.00	0.00
Dept 303 - AMBULANCE						
205-303-999.000	TRANSFER TO OTHER FUNDS-AMB	173,100.00	0.00	0.00	173,100.00	0.00
Total Dept 303 - AMBULANCE		173,100.00	0.00	0.00	173,100.00	0.00
Dept 403 - ES CAPITAL PROJECTS						
205-403-999.000	TRANSFER TO OTHER FUNDS-ES CAPITAL PROJ	57,700.00	0.00	0.00	57,700.00	0.00
Total Dept 403 - ES CAPITAL PROJECTS		57,700.00	0.00	0.00	57,700.00	0.00
TOTAL EXPENDITURES		577,000.00	210.30	210.30	576,789.70	0.04
Fund 205 - EMERGENCY SERVICES MILLAGE:						
TOTAL REVENUES		603,600.00	20,149.63	9.21	583,450.37	3.34
TOTAL EXPENDITURES		577,000.00	210.30	210.30	576,789.70	0.04
NET OF REVENUES & EXPENDITURES		26,600.00	19,939.33	(201.09)	6,660.67	74.96

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GL NUMBER	DESCRIPTION	2021-22 AMENDED BUDGET	YTD BALANCE 05/31/2021 NORMAL (ABNORMAL)	ACTIVITY FOR MONTH 05/31/2021 INCREASE (DECREASE)	AVAILABLE BALANCE NORMAL (ABNORMAL)	% BDT USED
Fund 206 - FIRE DEPT						
Revenues						
Dept 000						
206-000-632.200	CONTRACT PYMT-TRVING	59,270.00	9,880.00	0.00	49,390.00	16.67
206-000-665.000	EARNED INTEREST	500.00	23.30	14.65	476.70	4.66
206-000-694.300	TRAINING	0.00	2,050.00	2,050.00	(2,050.00)	100.00
206-000-699.000	APPROPRIATION TRANSFER IN	346,200.00	0.00	0.00	346,200.00	0.00
Total Dept 000		405,970.00	11,953.30	2,064.65	394,016.70	2.94
TOTAL REVENUES		405,970.00	11,953.30	2,064.65	394,016.70	2.94
Expenditures						
Dept 000						
206-000-702.000	SALARIES	33,500.00	5,117.23	2,575.02	28,382.77	15.28
206-000-702.100	FIRE ON-CALL	74,000.00	7,354.57	4,282.44	66,645.43	9.94
206-000-702.400	FIRE/AMB OVERTIME FULL TIME	8,000.00	0.00	0.00	8,000.00	0.00
206-000-702.500	FIRE/AMB-FULL TIME MEDICS	83,800.00	14,102.62	7,165.21	69,697.38	16.83
206-000-715.000	FTCA/MEDICARE CONTRIBUTION	17,250.00	2,022.66	1,068.33	15,227.34	11.73
206-000-716.000	MT UNEMPLOYMENT COMP	2,700.00	0.00	0.00	2,700.00	0.00
206-000-718.000	HEALTH INSURANCE PREMIUM	39,000.00	12,328.38	4,027.38	26,671.62	31.61
206-000-719.000	PENSION PLAN	1,900.00	498.04	257.26	1,401.96	26.21
206-000-719.100	PENSION ADMIN EXPENSE	150.00	0.00	0.00	150.00	0.00
206-000-730.000	POSTAGE	75.00	15.75	15.75	59.25	21.00
206-000-740.000	OFFICE/OPERATING SUPPLIES	7,000.00	1,140.23	1,130.23	5,859.77	16.29
206-000-751.000	GASOLINE AND OIL	3,400.00	468.82	468.82	2,931.18	13.79
206-000-768.000	UNIFORMS/PROTECTIVE GEARS	11,000.00	102.00	102.00	10,898.00	0.93
206-000-803.000	AUDIT EXPENSE	4,000.00	0.00	0.00	4,000.00	0.00
206-000-804.000	PHYSICALS EXAMINATIONS	2,300.00	327.00	0.00	1,973.00	14.22
206-000-806.000	LICENSES	200.00	0.00	0.00	200.00	0.00
206-000-808.000	PROFESSIONAL SERVICES-MISC	27,500.00	4,459.11	1,118.71	23,040.89	16.21
206-000-826.000	LEGAL FEES	1,000.00	0.00	0.00	1,000.00	0.00
206-000-850.000	TELEPHONE EXPENSE	1,700.00	228.43	101.50	1,471.57	13.44
206-000-880.000	COMMUNITY PROMOTIONS	1,000.00	0.00	0.00	1,000.00	0.00
206-000-905.000	PRINTING AND PUBLISHING	200.00	0.00	0.00	200.00	0.00
206-000-910.000	INSURANCE AND BONDS	18,000.00	14,780.57	0.00	3,219.43	82.11
206-000-910.100	WORKERS' COMP	7,000.00	6,003.65	0.00	996.35	85.77
206-000-910.200	DISABILITY/LIFE	2,000.00	0.00	0.00	2,000.00	0.00
206-000-920.000	UTILITIES	12,500.00	879.14	816.64	11,620.86	7.03
206-000-930.000	REPAIR & MAINT-GENERAL	10,000.00	779.12	510.47	9,220.88	7.79
206-000-931.000	REPAIR & MAINT-BLDG/GROUNDS	10,000.00	197.75	22.50	9,802.25	1.98
206-000-939.000	REPAIR & MAINT-VEHICLES	14,000.00	117.32	0.00	13,882.68	0.84
206-000-956.000	MISCELLANEOUS	7,500.00	2,749.23	2,737.58	4,750.77	36.66
206-000-958.000	MEMBERSHIP AND DUES	1,200.00	70.00	70.00	1,130.00	5.83
206-000-960.000	EDUCATION AND TRAINING	10,000.00	8,580.48	8,580.48	1,419.52	85.80
206-000-961.000	EDUCATION & TRAINING-OTHERS	2,000.00	0.00	0.00	2,000.00	0.00
206-000-970.000	CAPITAL OUTLAY	20,000.00	0.00	0.00	20,000.00	0.00
Total Dept 000		433,875.00	82,322.10	35,050.32	351,552.90	18.97
TOTAL EXPENDITURES		433,875.00	82,322.10	35,050.32	351,552.90	18.97

Fund 206 - FIRE DEPT:

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GL NUMBER	DESCRIPTION	2021-22		YTD BALANCE		ACTIVITY FOR		AVAILABLE		% BDT USED
		AMENDED BUDGET	NORMAL	(ABNORMAL)	05/31/2021	MONTH 05/31/2021	INCREASE (DECREASE)	NORMAL	(ABNORMAL)	
Fund 206 - FIRE DEPT										
TOTAL REVENUES		405,970.00			11,953.30		2,064.65		394,016.70	2.94
TOTAL EXPENDITURES		433,875.00			82,322.10		35,050.32		351,552.90	18.97
NET OF REVENUES & EXPENDITURES		(27,905.00)			(70,368.80)		(32,985.67)		42,463.80	252.17

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		2021-22		YTD BALANCE		ACTIVITY FOR		AVAILABLE			
GL NUMBER	DESCRIPTION	AMENDED BUDGET	NORMAL	05/31/2021	(ABNORMAL)	MONTH 05/31/2021	INCREASE (DECREASE)	NORMAL	(ABNORMAL)	% BDC	USED
Fund 220 - WEED CONTROL ASSESSMENTS											
Revenues											
Dept 000											
220-000-405.100	LAKE IMPROV/ASSESSMT	12,600.00		315.28		0.00		12,284.72		2.50	
220-000-665.000	EARNED INTEREST	20.00		0.89		0.71		19.11		4.45	
Total Dept 000		12,620.00		316.17		0.71		12,303.83		2.51	
TOTAL REVENUES											
		12,620.00		316.17		0.71		12,303.83		2.51	
Expenditures											
Dept 000											
220-000-803.000	AUDIT EXPENSE	275.00		0.00		0.00		275.00		0.00	
Total Dept 000		275.00		0.00		0.00		275.00		0.00	
Dept 442 - WEED CONTROL											
220-442-801.000	WEED CONTROL	12,000.00		0.00		0.00		12,000.00		0.00	
Total Dept 442 - WEED CONTROL		12,000.00		0.00		0.00		12,000.00		0.00	
TOTAL EXPENDITURES											
		12,275.00		0.00		0.00		12,275.00		0.00	
Fund 220 - WEED CONTROL ASSESSMENTS:											
TOTAL REVENUES		12,620.00		316.17		0.71		12,303.83		2.51	
TOTAL EXPENDITURES		12,275.00		0.00		0.00		12,275.00		0.00	
NET OF REVENUES & EXPENDITURES		345.00		316.17		0.71		28.83		91.64	

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GL NUMBER	DESCRIPTION	2021-22 AMENDED BUDGET	YTD BALANCE 05/31/2021 NORMAL (ABNORMAL)	ACTIVITY FOR MONTH 05/31/2021 INCREASE (DECREASE)	AVAILABLE BALANCE NORMAL (ABNORMAL)	% BDT USED
Fund 301 - ES EQUIPMENT BOND PAYMENT FUND						
Revenues						
Dept 000						
301-000-402.000	CURRENT TAX COLLECTION	0.00	3,637.42	1.56	(3,637.42)	100.00
301-000-665.000	EARNED INTEREST	0.00	0.28	0.22	(0.28)	100.00
Total Dept 000		0.00	3,637.70	1.78	(3,637.70)	100.00
TOTAL REVENUES		0.00	3,637.70	1.78	(3,637.70)	100.00
Expenditures						
Dept 299 - ADMINISTRATION						
301-299-956.200	PRIOR YEAR TAX	0.00	38.14	38.14	(38.14)	100.00
Total Dept 299 - ADMINISTRATION		0.00	38.14	38.14	(38.14)	100.00
TOTAL EXPENDITURES		0.00	38.14	38.14	(38.14)	100.00
Fund 301 - ES EQUIPMENT BOND PAYMENT FUND:						
TOTAL REVENUES		0.00	3,637.70	1.78	(3,637.70)	100.00
TOTAL EXPENDITURES		0.00	38.14	38.14	(38.14)	100.00
NET OF REVENUES & EXPENDITURES		0.00	3,599.56	(36.36)	(3,599.56)	100.00

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GL NUMBER	DESCRIPTION	2021-22 AMENDED BUDGET	YTD BALANCE 05/31/2021 NORMAL (ABNORMAL)	ACTIVITY FOR MONTH 05/31/2021 INCREASE (DECREASE)	AVAILABLE BALANCE NORMAL (ABNORMAL)	% BDT USED

Fund 303 - AMBULANCE ENTERPRISE FUND

Revenues						
Dept 000						
303-000-626.000	CHARGE FOR SERVICES	450,000.00	77,310.86	49,670.42	372,689.14	17.18
303-000-626.100	INSURANCE/CONTRACT ADJ	(150,000.00)	(25,698.80)	(10,839.61)	(124,301.20)	17.13
303-000-627.000	TAP MEMBERSHIP	7,600.00	45.00	0.00	7,555.00	0.59
303-000-665.000	EARNED INTEREST	150.00	5.63	4.41	144.37	3.75
303-000-699.000	APPROPRIATION TRANSFER IN	173,100.00	0.00	0.00	173,100.00	0.00
Total Dept 000		480,850.00	51,662.69	38,835.22	429,187.31	10.74

TOTAL REVENUES

480,850.00	51,662.69	38,835.22	429,187.31	10.74
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Expenditures

Dept 000						
303-000-702.000	SALARIES	33,500.00	5,117.15	2,574.98	28,382.85	15.28
303-000-702.100	OTHER WAGES	154,100.00	25,245.81	12,470.65	128,854.19	16.38
303-000-702.400	FIRE/AMB OVERTIME FULL TIME	8,000.00	0.00	0.00	8,000.00	0.00
303-000-702.500	FIRE/AMB OTHER-FULL TIME MEDICS	83,800.00	14,101.88	7,164.90	69,698.12	16.83
303-000-715.000	FICA/MEDICARE CONTRIBUTION	17,250.00	3,389.66	1,694.13	13,860.34	19.65
303-000-716.000	MI UNEMPLOYMENT COMP	2,700.00	0.00	0.00	2,700.00	0.00
303-000-718.000	HEALTH INSURANCE PREMIUM	39,000.00	12,328.38	4,027.38	26,671.62	31.61
303-000-719.000	PENSION PLAN	1,900.00	473.59	250.79	1,426.41	24.93
303-000-719.100	PENSION ADMIN EXPENSE	200.00	0.00	0.00	200.00	0.00
303-000-730.000	POSTAGE	75.00	0.00	0.00	75.00	0.00
303-000-740.000	OFFICE/OPERATING SUPPLIES	7,000.00	148.21	138.21	6,851.79	2.12
303-000-741.000	AMB OPERATING	16,000.00	2,534.04	1,691.74	13,465.96	15.84
303-000-751.000	GASOLINE AND OIL	8,000.00	1,871.67	1,871.67	6,128.33	23.40
303-000-768.000	UNIFORMS/PROTECTIVE GEARS	2,000.00	101.99	101.99	1,898.01	5.10
303-000-803.000	AUDIT EXPENSE	3,800.00	0.00	0.00	3,800.00	0.00
303-000-804.000	PHYSICALS EXAMINATIONS	2,000.00	0.00	0.00	2,000.00	0.00
303-000-806.000	LICENSES	300.00	0.00	0.00	300.00	0.00
303-000-808.000	PROFESSIONAL SERVICES-MISC	19,000.00	2,237.40	1,118.70	16,762.60	11.78
303-000-808.100	ACCUMED BILLING FEES	22,000.00	1,642.25	1,642.25	20,357.75	7.46
303-000-826.000	LEGAL FEES	1,800.00	0.00	0.00	1,800.00	0.00
303-000-850.000	TELEPHONE EXPENSE	2,600.00	330.22	101.50	2,269.78	12.70
303-000-880.000	COMMUNITY PROMOTIONS	750.00	0.00	0.00	750.00	0.00
303-000-905.000	PUBLISHING	200.00	0.00	0.00	200.00	0.00
303-000-910.000	INSURANCE AND BONDS	14,000.00	10,853.25	0.00	3,146.75	77.52
303-000-910.100	WORKERS' COMP	2,000.00	2,187.70	0.00	(187.70)	109.39
303-000-910.200	DISABILITY/LIFE	2,000.00	0.00	0.00	2,000.00	0.00
303-000-920.000	UTILITIES	13,200.00	879.14	816.64	12,320.86	6.66
303-000-931.000	REPAIR & MAINT-GENERAL	10,000.00	357.97	178.29	9,642.03	3.58
303-000-939.000	REPAIR & MAINT-VEHICLES	10,000.00	197.76	22.50	9,802.24	1.98
303-000-955.000	BAD DEBTS	9,000.00	1,888.66	1,883.91	7,111.34	20.99
303-000-956.000	MISCELLANEOUS	15,000.00	0.00	0.00	15,000.00	0.00
303-000-958.000	MEMBERSHIP AND DUES	700.00	39.96	28.31	660.04	5.71
303-000-960.000	EDUCATION AND TRAINING	1,200.00	500.00	500.00	700.00	41.67
303-000-961.000	EDUCATION & TRAINING-OTHERS	3,000.00	0.00	0.00	3,000.00	0.00
303-000-968.000	DEPRECIATION EXP	1,000.00	0.00	0.00	1,000.00	0.00
		20,000.00	0.00	0.00	20,000.00	0.00
Total Dept 000		527,075.00	86,426.69	38,278.54	440,648.31	16.40

TOTAL EXPENDITURES

527,075.00	86,426.69	38,278.54	440,648.31	16.40
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2021-22 YTD BALANCE ACTIVITY FOR MONTH 05/31/2021 AVAILABLE BALANCE % BUDGET USED
 AMENDED BUDGET NORMAL (ABNORMAL) INCREASE (DECREASE) NORMAL (ABNORMAL)

Fund 303 - AMBULANCE ENTERPRISE FUND

Fund 303 - AMBULANCE ENTERPRISE FUND:							
TOTAL REVENUES	480,850.00	51,662.69	38,835.22	429,187.31	10.74		
TOTAL EXPENDITURES	527,075.00	86,426.69	38,278.54	440,648.31	16.40		
NET OF REVENUES & EXPENDITURES	(46,225.00)	(34,764.00)	556.68	(11,461.00)	75.21		

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GL NUMBER	DESCRIPTION	2021-22 AMENDED BUDGET	YTD BALANCE 05/31/2021 NORMAL (ABNORMAL)	ACTIVITY FOR MONTH 05/31/2021 INCREASE (DECREASE)	AVAILABLE BALANCE NORMAL (ABNORMAL)	% BDC USED
Fund 403 - EMERGENCY SERVICES CAPITAL IMPROVEMENTS						
Revenues						
Dept 000						
403-000-665.000	EARNED INTEREST	1,000.00	44.38	23.88	955.62	4.44
Total Dept 000		1,000.00	44.38	23.88	955.62	4.44
Dept 205 - ES MILLAGE						
403-205-699.000	APPROPRIATION TRANSFER IN	57,700.00	0.00	0.00	57,700.00	0.00
Total Dept 205 - ES MILLAGE		57,700.00	0.00	0.00	57,700.00	0.00
TOTAL REVENUES		58,700.00	44.38	23.88	58,655.62	0.08
Expenditures						
Dept 000						
403-000-956.000	MISCELLANEOUS	0.00	(1,465.00)	(1,465.00)	1,465.00	100.00
Total Dept 000		0.00	(1,465.00)	(1,465.00)	1,465.00	100.00
Dept 206 - FIRE						
403-206-970.000	CAPITAL OUTLAY-FIRE	0.00	2,568.00	2,568.00	(2,568.00)	100.00
Total Dept 206 - FIRE		0.00	2,568.00	2,568.00	(2,568.00)	100.00
Dept 303 - AMBULANCE						
403-303-970.000	CAPITAL OUTLAY-AMBULANCE	220,000.00	0.00	0.00	220,000.00	0.00
Total Dept 303 - AMBULANCE		220,000.00	0.00	0.00	220,000.00	0.00
TOTAL EXPENDITURES		220,000.00	1,103.00	1,103.00	218,897.00	0.50
Fund 403 - EMERGENCY SERVICES CAPITAL IMPROVEMENTS:						
TOTAL REVENUES		58,700.00	44.38	23.88	58,655.62	0.08
TOTAL EXPENDITURES		220,000.00	1,103.00	1,103.00	218,897.00	0.50
NET OF REVENUES & EXPENDITURES		(161,300.00)	(1,058.62)	(1,079.12)	(160,241.38)	0.66

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Fund 804 - SEWER O & M FUND

Revenues

Dept 000						
804-000-626.000	CHARGE FOR SERVICES	135,000.00	33,605.00	0.00	101,395.00	24.89
804-000-626.300	MISC EQUIP/INSTALL FEES-SEWER	25,000.00	0.00	0.00	25,000.00	0.00
804-000-665.000	EARNED INTEREST	50.00	6.31	4.98	43.69	12.62
804-000-669.000	PENALTY/INTEREST ON LATE PYMTS	500.00	170.00	170.00	330.00	34.00

Total Dept 000

160,550.00

33,781.31

174.98

126,768.69

21.04

TOTAL REVENUES

160,550.00

33,781.31

174.98

126,768.69

21.04

Expenditures

Dept 000						
804-000-702.000	SAL / OPER CONTRACT	1,300.00	1,120.00	1,120.00	180.00	86.15
804-000-702.100	OTHER WAGES	200.00	0.00	0.00	200.00	0.00
804-000-715.000	FICA/MEDICARE CONTRIBUTION	25.00	0.00	0.00	25.00	0.00
804-000-719.000	PENSION PLAN	25.00	0.00	0.00	25.00	0.00
804-000-740.000	OFFICE/OPERATING SUPPLIES	500.00	266.93	266.93	233.07	53.39
804-000-740.100	OPERATING SUPPLIES-PUMPS/EQUIPMT	12,500.00	0.00	0.00	12,500.00	0.00
804-000-740.200	OPERATING SUPPLIES-SEPTIC COMMENT	2,000.00	0.00	0.00	2,000.00	0.00
804-000-743.000	LAB EXPENSE	6,500.00	1,217.98	957.50	5,282.02	18.74
804-000-803.000	AUDIT EXPENSE	1,000.00	0.00	0.00	1,000.00	0.00
804-000-808.000	PROFESSIONAL SERVICES-ALUM/PHOSPHATE	16,000.00	7,065.00	3,532.50	8,935.00	44.16
804-000-808.100	PROF SERVICES/COLLECTION SYSTEM MAINT	30,000.00	2,650.00	2,650.00	27,350.00	8.83
804-000-808.200	COLLECTION SYSTEM-PUMPING TANKS	35,000.00	3,025.00	3,025.00	31,975.00	8.64
804-000-808.300	COLLECTION SYSTEM-ELECTRICAL	3,150.00	155.00	155.00	2,995.00	4.92
804-000-808.400	PROF SERV LAGOON ENGINEERING	0.00	2,580.00	80.00	(2,580.00)	100.00
804-000-826.000	LEGAL FEES	2,000.00	0.00	0.00	2,000.00	0.00
804-000-910.000	INSURANCE AND BONDS	2,000.00	902.68	0.00	1,097.32	45.13
804-000-920.000	UTILITIES	5,500.00	1,104.45	0.00	4,395.55	20.08
804-000-930.000	REPAIR & MAINT-GENERAL	5,500.00	1,186.58	80.00	4,313.42	21.57
804-000-930.100	REPAIR & MAINT-MC/DUCK WEED/PLM	2,500.00	0.00	0.00	2,500.00	0.00
804-000-931.000	REPAIR & MAINT-BLDG/GROUNDS/MOWING	5,500.00	610.00	610.00	4,890.00	11.09
804-000-956.000	ANNUAL FEES MISC	1,500.00	0.00	0.00	1,500.00	0.00

Total Dept 000

132,700.00

21,883.62

12,476.93

110,816.38

16.49

TOTAL EXPENDITURES

132,700.00

21,883.62

12,476.93

110,816.38

16.49

Fund 804 - SEWER O & M FUND:

TOTAL REVENUES	160,550.00	33,781.31	174.98	126,768.69	21.04
TOTAL EXPENDITURES	132,700.00	21,883.62	12,476.93	110,816.38	16.49
NET OF REVENUES & EXPENDITURES	27,850.00	11,897.69	(12,301.95)	15,952.31	42.72

TOTAL REVENUES - ALL FUNDS	2,592,549.00	216,337.12	50,360.77	2,376,211.88	8.34
TOTAL EXPENDITURES - ALL FUNDS	2,860,692.95	292,375.01	130,844.38	2,568,311.94	10.22
NET OF REVENUES & EXPENDITURES	(268,143.95)	(76,037.89)	(80,483.61)	(192,106.06)	28.36

INVOICE GL DISTRIBUTION REPORT FOR THORNAPPLE TOWNSHIP

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PAID

Fund 101 GENERAL FUND					
Dept 175 SUPERVISOR	HEALTH INSURANCE PREMIUM	GUARDIAN	6/1-6/30/2021 COVERAGE	221.90	23459
101-175-718.000	HEALTH INSURANCE PREMIUM	PRIORITY HEALTH	6/1-6/30/2021 COVERAGE	2,147.32	23468
101-175-718.000		Total For Dept 175 SUPERVISOR		2,369.22	

Dept 209 ASSESSOR	PROFESSIONAL SERVICES-MISC	DANIEL R. SCHEUERMAN, ASSI	MAY 2021 CONTRACT	4,326.00	23501
101-209-808.000		Total For Dept 209 ASSESSOR		4,326.00	

Dept 253 TREASURER	HEALTH INSURANCE PREMIUM	GUARDIAN	6/1-6/30/2021 COVERAGE	221.90	23459
101-253-718.000	HEALTH INSURANCE PREMIUM	PRIORITY HEALTH	6/1-6/30/2021 COVERAGE	2,147.32	23468
101-253-718.000		Total For Dept 253 TREASURER		2,369.22	

Dept 265 TOWNSHIP HALL	PROFESSIONAL SERVICES	SPARKLING SOLUTIONS	JUNE 2021 - 4 VISITS	340.00	23495
101-265-808.000	UTILITIES-TWP HALL	CONSUMERS ENERGY	TWP HALL 4/06 TO 5/04/21 UTILITIES ACCT	319.65	23454
101-265-930.000	REPAIR & MAINT/ BLDG & GRNDS	BSB COMMUNICATIONS INC.	RECONNECT TTES PHONES TO TWP PHONE SYST	324.70	23453
101-265-930.000	REPAIR & MAINT/ BLDG & GRNDS	AUNALYTICS, INC.	CREDIT FOR BSB INVOICE TO RECONNECT PHC	(324.70)	23475
		Total For Dept 265 TOWNSHIP HALL		659.65	

Dept 276 CEMETERY	REPAIR & MAINT	NTA PROPERTY MANAGEMENT, I	TOPSOIL FOR MT. HOPE CEMETERY	325.00	23466
101-276-930.000	REPAIR & MAINT	NTA PROPERTY MANAGEMENT, I	MULCH FOR MT. HOPE - VET MEMORIAL	159.00	23488
101-276-930.000	REPAIR & MAINT-GENERAL	PARMALEE UNITED METHODIST	CEMETERY WATER	50.00	23490
101-276-930.000	REPAIR & MAINT	PETTY CASH-THORNAPPLE TWP	PETTY CASH REIMBURSEMENT	50.00	23491
101-276-931.000	BLDG & GROUNDS IMPROVEMENTS	JIM'S PICKUP SERVICE	MT HOPE CEMETERY (APRIL & MAY) & TTES	75.00	23462
101-276-931.000	BLDG & GROUNDS IMPROVEMENTS	SYNCH/AMAZON	TWP HALL OFFICE SUPPLIES & CEMETERY FLR	197.94	23472
		Total For Dept 276 CEMETERY		856.94	

Dept 299 ADMINISTRATION	OFFICE/OPERATING SUPPLIES	FIRST BANKCARD	CC STATEMENT 4-1 TO 4-30-2021	86.95	23456
101-299-740.000	OFFICE/OPERATING SUPPLIES	GOVERNMENTAL BUSINESS SYS	MINUTE BOOK	172.15	23457
101-299-740.000	OFFICE/OPERATING SUPPLIES	INTEGRITY BUSINESS SOLUTIC	PAPER	32.49	23460
101-299-740.000	OFFICE/OPERATING SUPPLIES	SYNCH/AMAZON	TWP HALL OFFICE SUPPLIES	22.54	23472
101-299-740.000	OFFICE/OPERATING SUPPLIES	SYNCH/AMAZON	TWP HALL OFFICE SUPPLIES	7.74	23472
101-299-740.000	OFFICE/OPERATING SUPPLIES	SYNCH/AMAZON	1-YR PRIME MEMBERSHIP	59.67	23472
101-299-740.000	OFFICE/OPERATING SUPPLIES	SYNCH/AMAZON	TWP HALL OFFICE SUPPLIES & CEMETERY FLR	14.46	23472
101-299-740.000	OFFICE/OPERATING SUPPLIES	SYNCH/AMAZON	TWP HALL OFFICE SUPPLIES	13.99	23472
101-299-740.000	OFFICE/OPERATING SUPPLIES	GREAT AMERICA FINANCIAL	ST 4/10 TO 5/09/2021	477.80	23482
101-299-740.000	OFFICE/OPERATING SUPPLIES	PETTY CASH-THORNAPPLE TWP	PETTY CASH REIMBURSEMENT	44.78	23491
101-299-808.000	PROFESSIONAL SERVICES-MISC	AUNALYTICS, INC.	JULY SERVICES	2,113.00	23475
101-299-850.000	TELEPHONE EXPENSE	AT & T	TWP HALL MONTHLY INTERNET ACCT#382	634.01	23451
101-299-850.000	TELEPHONE EXPENSE	VERIZON WIRELESS	CELL PHONE SERVICE: 4/20/21 - 5/19/21	203.56	23459
101-299-880.000	COMMUNITY PROMOTIONS	MIDDLEVILLE LIONS CLUB	4TH OF JULY FIREWORKS CELEBRATION	2,500.00	23486
101-299-910.000	INSURANCE AND BONDS	MMU WORKERS' COMP FUND	POLICY PREMIUM 7/1/2021-7/1/2022	602.65	23487
101-299-956.000	MISCELLANEOUS	GUARDIAN	6/1-6/30/2021 COVERAGE	10.00	23459
101-299-956.200	PRIOR YEAR TAX	BARRY COUNTY TREASURER	PRIOR YEAR TAXABLE VALUE CHANGE	112.45	23476
101-299-956.300	PRIOR YEAR TAX ADMIN FEES	BARRY COUNTY TREASURER	PRIOR YEAR TAXABLE VALUE CHANGE	41.25	23476
101-299-958.000	MEMBERSHIP AND DUES	MICHIGAN TOWNSHIP ASSOCIAT	ANNUAL DUES 7/1/2021-6/30/2022	6,048.20	23485
		Total For Dept 299 ADMINISTRATION		13,197.69	

Dept 400 PLANNING & ZONING	HEALTH INSURANCE PREMIUM	GUARDIAN	6/1-6/30/2021 COVERAGE	65.72	23459
101-400-718.000					

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Fund 101 GENERAL FUND					
Dept 400 PLANNING & ZONING	HEALTH INSURANCE PREMIUM	PRIORITY HEALTH	6/1-6/30/2021 COVERAGE	740.46	23468
101-400-718.000		STERRY BRAD WILLIAMS	105 MILES 5/4-5/27/21	58.80	23497
101-400-956.000	MISCELLANEOUS	Total For Dept 400 PLANNING & ZONING		864.98	
Dept 448 STREETLIGHTING					
101-448-920.200	OTHER STREET LIGHTING	CONSUMERS ENERGY	STREET LIGHTS 4/01/21 - 4/30/21 ACCT#11	353.34	23454
101-448-920.200	OTHER STREET LIGHTING	CONSUMERS ENERGY	LED STREET LIGHTS 4/01/21 - 4/30/21 ACCT#11	7.09	23454
101-448-920.300	UTILITIES / HILLTOP	CONSUMERS ENERGY	STREET LIGHTS 4/01/21 - 4/30/21 ACCT#11	178.72	23454
		Total For Dept 448 STREETLIGHTING		539.15	
Total For Fund 101 GENERAL FUND				25,182.85	
Fund 205 EMERGENCY SERVICES MILLAGE					
Dept 000	PRIOR YEAR TAX	BARRY COUNTY TREASURER	PRIOR YEAR TAXABLE VALUE CHANGE	210.30	23476
205-000-956.200		Total For Dept 000		210.30	
Total For Fund 205 EMERGENCY SERVICES MILLAGE				210.30	
Fund 206 FIRE DEPT					
Dept 000	HEALTH INSURANCE PREMIUM	GUARDIAN	6/1-6/30/2021 COVERAGE	349.21	23459
206-000-718.000	HEALTH INSURANCE PREMIUM	PRIORITY HEALTH	6/1-6/30/2021 COVERAGE	3,924.41	23468
206-000-730.000	POSTAGE	PETTY CASH-THORNAPPLE TWP	PETTY CASH REIMBURSEMENT	6.95	23491
206-000-730.000	POSTAGE	RANDY EATON	REIMB FOR SHIPPING PD - AIR SAMPLE	8.80	23494
206-000-740.000	OFFICE/OPERATING SUPPLIES	FIRST BANKCARD	CC STATEMENT 4-1 TO 4-30-2021	8.98	23456
206-000-740.000	OFFICE/OPERATING SUPPLIES	INTEGRITY BUSINESS SOLUTIONS	INTEGRITY BUSINESS SOLUTIONS	58.59	23460
206-000-740.000	OFFICE/OPERATING SUPPLIES	SYNCH/AMAZON	1-YR PRIME MEMBERSHIP	59.67	23472
206-000-740.000	OFFICE/OPERATING SUPPLIES	CALDONIA VILLAGE ACE	TOOLS FOR TRES BUILDING MAINTENANCE	10.99	23480
206-000-751.000	GASOLINE AND OIL	WEX BANK	MAY TRES FUEL	121.66	23500
206-000-768.000	UNIFORMS/PROTECTIVE GEAR	BOUND TREE MEDICAL LLC	1 OF 6 WINTER COATS FY 2021 BACKORDERED	102.00	23477
206-000-808.000	PROFESSIONAL SERVICES-MISC	AUNALYTICS, INC.	JULY SERVICES	1,056.50	23475
206-000-808.000	PROFESSIONAL SERVICES-MISC	SPECTRUM BUSINESS	128 HIGH ST-TV, INTERNET & VOICE	62.21	23496
206-000-850.000	TELEPHONE EXPENSE	SPECTRUM BUSINESS	128 HIGH ST-TV, INTERNET & VOICE	101.50	23496
206-000-850.000	TELEPHONE EXPENSE	VERIZON WIRELESS	CELL PHONE SERVICE: 4/20/21 - 5/19/21	25.44	23499
206-000-910.100	WORKERS' COMP	MML WORKERS' COMP FUND	POLICY PREMIUM 7/1/2021-7/1/2022	6,003.65	23487
206-000-920.000	UTILITIES	CONSUMERS ENERGY	128 HIGH ST - NATURAL GAS 4/05 - 5/03/21	209.76	23454
206-000-920.000	UTILITIES	CONSUMERS ENERGY	128 HIGH ST - ELECTRIC 4/05 - 5/03/21	544.38	23454
206-000-920.000	UTILITIES	SPECTRUM BUSINESS	128 HIGH ST-TV, INTERNET & VOICE	62.50	23496
206-000-930.000	REPAIR & MAINT-GENERAL	BSB COMMUNICATIONS INC.	RECONNECT TRES PHONES TO TWP PHONE SYST	324.70	23453
206-000-930.000	REPAIR & MAINT-GENERAL	FIRST BANKCARD	CC STATEMENT 4-1 TO 4-30-2021	332.18	23456
206-000-930.000	REPAIR & MAINT-GENERAL	AUNALYTICS, INC.	MAY 2021 MAINTENANCE AGREEMENT	178.29	23470
206-000-930.000	REPAIR & MAINT-GENERAL	C & R FIRE EQUIPMENT	CREDIT FOR BSB INVOICE TO RECONNECT PHC	(324.70)	23475
206-000-930.000	REPAIR & MAINT-GENERAL	C & R FIRE EQUIPMENT	SALES ALUM HOSE COUPLINGS 1.75 QTY 12, 2.5 QTY 12	2,568.40	23479
206-000-930.000	REPAIR & MAINT-GENERAL	TRANSCOMMERCIAL SYSTEMS	REPAIR RADIANT FLOOR MIXING	546.49	23479
206-000-931.000	REPAIR & MAINT-GENERAL	JIM'S PICKUP SERVICE	MT HOPE CEMETERY (APRIL & MAY) & TRES	22.50	23462
206-000-956.000	MISCELLANEOUS	ESO SOLUTIONS, INC.	6/12/2021 - 6/11/2022 TRACKING SOFTWARE	2,709.27	23455
206-000-956.000	MISCELLANEOUS	RANDY EATON	MILEAGE 4/16/21 TO 5/10/21 101.1 MILES	28.31	23471
206-000-956.000	MISCELLANEOUS	RANDY EATON	MILEAGE 5/11/21 TO 5/31/21 92.2 MILES	25.82	23494
206-000-958.000	MEMBERSHIP AND DUES	BARRY COUNTY MCA/ BCF	2021 ANNUAL DUES - MEDICAL CONTROL AUTH	70.00	23452
206-000-960.000	EDUCATION AND TRAINING	MICHIGAN RESCUE CONCEPTS	SWIFT WATER RESCUE CLASS 5/20-5/23/2021	8,580.48	23464

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Fund 206 FIRE DEPT Dept 000						
		Total For Dept 000			28,068.54	
		Total For Fund 206 FIRE DEPT			28,068.54	
Fund 220 WEED CONTROL ASSESSMENTS Dept 442 WEED CONTROL 220-442-801.000	WEED CONTROL	PLM LAKE & LAND MANAGEMENT 5/24/2021 ALGAE & WEED TREATMENT OF DUN			3,550.00	23492
		Total For Dept 442 WEED CONTROL			3,550.00	
		Total For Fund 220 WEED CONTROL ASSESSMENTS			3,550.00	
Fund 301 ES EQUIPMENT BOND PAYMENT FUND Dept 299 ADMINISTRATION 301-299-956.200	PRIOR YEAR TAX	BARRY COUNTY TREASURER		PRIOR YEAR TAXABLE VALUE CHANGE	38.14	23476
		Total For Dept 299 ADMINISTRATION			38.14	
		Total For Fund 301 ES EQUIPMENT BOND PAYMENT FUND			38.14	
Fund 303 AMBULANCE ENTERPRISE FUND Dept 000						
303-000-718.000	HEALTH INSURANCE PREMIUM	GUARDIAN		6/1-6/30/2021 COVERAGE	349.21	23459
303-000-718.000	HEALTH INSURANCE PREMIUM	PRIORITY HEALTH		6/1-6/30/2021 COVERAGE	3,924.41	23468
303-000-740.000	OFFICE/OPERATING SUPPLIES	FIRST BANKCARD		CC STATEMENT 4-1 TO 4-30-2021	8.98	23456
303-000-740.000	OFFICE/OPERATING SUPPLIES	INTEGRITY BUSINESS SOLUTION PAPER			58.59	23460
303-000-740.000	OFFICE/OPERATING SUPPLIES	SYNCH/AMAZON		1-YR PRIME MEMBERSHIP	59.66	23472
303-000-740.000	OFFICE/OPERATING SUPPLIES	CALEDONIA VILLAGE ACE HARD TOOLS FOR TTES BUILDING MAINTENANCE			10.98	23480
303-000-741.000	AMB OPERATING	J & B MEDICAL SUPPLY INC		AMB SUPPLIES	277.35	23461
303-000-741.000	AMB OPERATING	MCKESSON MEDICAL - SURGIC/AMB SUPPLIES			22.59	23463
303-000-741.000	AMB OPERATING	MCKESSON MEDICAL - SURGIC/AMB SUPPLIES			852.14	23463
303-000-741.000	AMB OPERATING	PURITY CYLINDER GASES INC		OXYGEN CYLINDERS 2 REFILLED	65.85	23469
303-000-741.000	AMB OPERATING	PURITY CYLINDER GASES INC		ITCLAMP50 1 BOX OF 10	473.81	23484
303-000-741.000	AMB OPERATING	PURITY CYLINDER GASES INC		OXYGEN CYLINDERS 1 REFILLED	47.61	23493
303-000-751.000	GASOLINE AND OIL	MEX BANK		MAY TTES FUEL	1,076.14	23500
303-000-768.000	UNIFORMS/PROTECTIVE GEARS	BOUND TREE MEDICAL LLC		1 OF 6 WINTER COATS FY 2021 BACKORDERED	101.99	23477
303-000-808.000	PROFESSIONAL SERVICES-MISC	AUNALYTICS, INC.		JULY SERVICES	1,056.50	23475
303-000-808.000	PROFESSIONAL SERVICES-MISC	AUNALYTICS, INC.		128 HIGH ST-TV, INTERNET & VOICE	62.20	23496
303-000-808.100	ACCUMED BILLING FEES	ACCUMED GROUP		MAY BILLING SERVICE FEE	1,429.62	23474
303-000-850.000	TELEPHONE EXPENSE	SPECTRUM BUSINESS		128 HIGH ST-TV, INTERNET & VOICE	101.50	23496
303-000-850.000	TELEPHONE EXPENSE	SPECTRUM BUSINESS		CELL PHONE SERVICE: 4/20/21 - 5/19/21	127.23	23499
303-000-910.100	WORKERS' COMP	VERIZON WIRELESS		POLICY PREMIUM 7/1/2021-7/1/2022	2,187.70	23487
303-000-920.000	UTILITIES	CONSUMERS ENERGY		128 HIGH ST - NATURAL GAS 4/05 - 5/03/21	209.76	23454
303-000-920.000	UTILITIES	CONSUMERS ENERGY		128 HIGH ST - ELECTRIC 4/05 - 5/03/21	544.38	23454
303-000-920.000	UTILITIES	SPECTRUM BUSINESS		128 HIGH ST-TV, INTERNET & VOICE	62.50	23496
303-000-930.000	REPAIR & MAINT-GENERAL	BSB COMMUNICATIONS INC.		RECONNECT TTES PHONES TO TWP PHONE SYS	324.70	23453
303-000-930.000	REPAIR & MAINT-GENERAL	QUALITY AIR		MAY 2021 MAINTENANCE AGREEMENT	178.29	23470
303-000-930.000	REPAIR & MAINT-GENERAL	AUNALYTICS, INC.		CREDIT FOR BSB INVOICE TO RECONNECT PHC	(324.70)	23475
303-000-930.000	REPAIR & MAINT-GENERAL	TRANE COMMERCIAL SYSTEMS		REPAIR RADIANT FLOOR MIXING	290.00	23498
303-000-931.000	REPAIR & MAINT-BLDG/GROUNDS	JIM'S PICKUP SERVICE		MT HOPE CEMETERY (APRIL & MAY) & TTES	22.50	23462
303-000-939.000	REPAIR & MAINT-VEHICLES	TECH MASTERS		MEDIC 51 - FRONT SHOCKS, OIL CHANGE	1,251.35	23473
303-000-939.000	REPAIR & MAINT-VEHICLES	TECH MASTERS		MEDIC 51 - REPLACED 3 BATTERIES	632.56	23473
303-000-956.000	MISCELLANEOUS	RANDY EATON		MILEAGE 4/16/21 TO 5/10/21 101.1 MILES	28.31	23471
303-000-956.000	MISCELLANEOUS	RANDY EATON		MILEAGE 5/11/21 TO 5/31/21 92.2 MILES	25.81	23494
303-000-956.000	MEMBERSHIP AND DUES	BARRY COUNTY MCA/ BCF		2021 ANNUAL DUES - MEDICAL CONTROL AUTO	500.00	23452

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Fund 303 AMBULANCE ENTERPRISE FUND
Dept 000

Total For Dept 000

16,039.52

Total For Fund 303 AMBULANCE ENTERPRISE FUND

16,039.52

Fund 804 SEWER O & M FUND

Dept 000
804-000-702.000
804-000-743.000
804-000-743.000
804-000-808.000
804-000-808.000
804-000-808.100
804-000-808.200
804-000-808.300
804-000-920.000
804-000-931.000

SAL / OPER CONTRACT
LAB EXPENSE
LAB EXPENSE
PROFESSIONAL SERVICES-ALUM/PHOSP
PROFESSIONAL SERVICES-ALUM/PHOSP
PROF SERVICES/COLLECTION SYSTEM
COLLECTION SYSTEM-PUMPING TANKS
COLLECTION SYSTEM-ELECTRICAL
UTILITIES
REPAIR & MAIN-BLDG/GROUNDS/MOWIN

BRYAN FINKBEINER
PACE ANALYTICAL (TRIMATRI) DUNCAN LAKE WWTP PROJECT# 50287195
PACE ANALYTICAL (TRIMATRI) DUNCAN LAKE WWTP PROJECT# 50287322
LAND MANAGEMENT ALUM TREATMENT OF LAGOON
JOE & BARB'S SEPTIC SERVICE MAY 2021: ADMIN FEE, 9 SERVICE CALLS, 4
MORGAN ELECTRICAL SERVICE: CHANGE FLOATS AT 7606 NOFFKE
CONSUMERS ENERGY
PARMALEE RD. 4/26/21 - 5/24/21 ACCT# 59
VEGETATION TREATMENT AT SEWER LAGOONS

1,120.00 23478
242.50 23489
55.00 23489
1,766.25 23467
1,766.25 23492
2,350.00 23483
2,475.00 23483
155.00 23465
545.59 23481
400.00 23458

Total For Dept 000

10,875.59

Total For Fund 804 SEWER O & M FUND

10,875.59

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Fund Totals:

Fund 101 GENERAL FUND	25,182.85
Fund 205 EMERGENCY SERV.	210.30
Fund 206 FIRE DEPT	28,068.54
Fund 220 WEED CONTROL AS	3,550.00
Fund 301 ES EQUIPMENT BK	38.14
Fund 303 AMBULANCE ENTER	16,039.52
Fund 804 SEWER O & M FUI	10,875.59

Total For All Funds:	83,964.94
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Total for fund 101 GENERAL FUND	25,182.85
Total for fund 205 EMERGENCY SERVICES MILLAGE	210.30
Total for fund 206 FIRE DEPT	28,068.54
Total for fund 220 WEED CONTROL ASSESSMENTS	3,550.00
Total for fund 301 ES EQUIPMENT BOND PAYMENT FUND	38.14
Total for fund 303 AMBULANCE ENTERPRISE FUND	16,039.52
Total for fund 804 SEWER O & M FUND	10,875.59
TOTAL - ALL FUNDS	83,964.94

INVOICE APPROVAL LIST
For Board Meeting June 14, 2021

Account Name and Number	Date			Fund Total
Finance Committee Mtg:	5/19/2021	6/2/2021	6/2/21 -2nd batch	
GENERAL FUND - 101	\$8,380.06	\$12,476.79	\$4,326.00	\$25,182.85
EMERGENCY SERVICES MILLAGE - 205	\$0.00	\$210.30	\$0.00	\$210.30
FIRE FUND - 206	\$17,400.73	\$10,667.81	\$0.00	\$28,068.54
CEMETERY - 209	\$0.00	\$0.00	\$0.00	\$0.00
WEED CONTROL ASSMTS - 220	\$0.00	\$3,550.00	\$0.00	\$3,550.00
SPENCER/RITA DRIVE MTC - 221	\$0.00	\$0.00	\$0.00	\$0.00
ES EQUIPMT BOND PMT FUND - 301	\$0.00	\$38.14	\$0.00	\$38.14
AMBULANCE FUND - 303	\$9,310.63	\$6,728.89	\$0.00	\$16,039.52
SPENCER/RITA DR - 304	\$0.00	\$0.00	\$0.00	\$0.00
EMS - EQUIPMENT BOND - 401	\$0.00	\$0.00	\$0.00	\$0.00
EMS - CAPITAL IMPROVEMENT - 403	\$0.00	\$0.00	\$0.00	\$0.00
TRUST AND AGENCY - 701	\$0.00	\$0.00	\$0.00	\$0.00
SEWER FUND - 804	\$2,321.25	\$8,554.34	\$0.00	\$10,875.59
TOTAL BY DATE:	\$37,412.67	\$42,226.27	\$4,326.00	\$83,964.94

Total to Approve:

Online invoice:

Treasurer's Financial Summary/Investment Report

For Month Ending May 2021

	Beginning Balance	Revenues	Transfer to / from Accounts	Expenditures	Ending Fund Balance
GENERAL	\$ 1,495,809.40	26,158.42		52,886.55	\$ 1,469,081.27
FIRE	\$ 480,208.74	2,064.65		38,042.04	\$ 444,231.35
AMB	\$ 172,037.95	23,266.52		37,404.59	\$ 157,899.88
RESTRICTED FUNDS					
EMER. SRVS. MILLAGE*	\$ 20,227.19	1,474.21			\$ 21,701.40
EMS CAPITAL IMPROV.*	\$ 129,313.21	3.65			\$ 129,316.86
EMS CAPITAL IMPROV.*	\$ 476,485.89	20.23			\$ 476,506.12
TRUST & AGENCY	\$ 20,614.64	1,000.35		200.00	\$ 21,414.99
BOND PAYMENT	\$ 8,000.39	1.78			\$ 8,002.17
BOND PROCEEDS FUND	\$ -				\$ -
SHAW CEMETERY	\$ 54,635.84	1.90			\$ 54,637.74
SEWER	\$ 188,303.54	4,374.98		14,260.13	\$ 178,418.39
DUNCAN LAKE W/C	\$ 25,525.20	0.71			\$ 25,525.91
Total Funds					\$ 2,986,736.08

*Self Restricted Funds

TOWNSHIP FUNDS

Month End Balance	Cash	Invested	Total Fund Balance
GENERAL	\$ 1,007,409.96	\$ 461,671.31	\$ 1,469,081.27
FIRE	\$ 289,753.52	\$ 154,477.83	\$ 444,231.35
AMB	\$ 157,899.88	\$ -	\$ 157,899.88
TOTAL	\$ 1,455,063.36	\$ 616,149.14	\$ 2,071,212.50

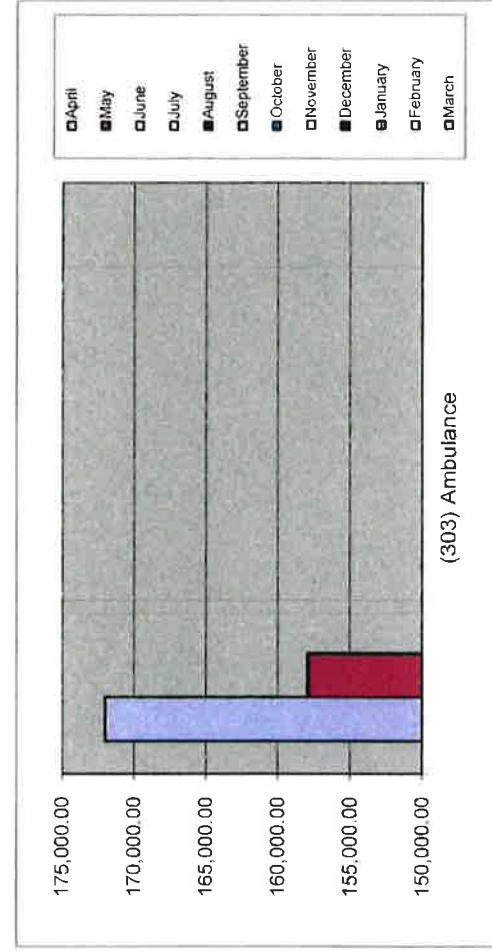
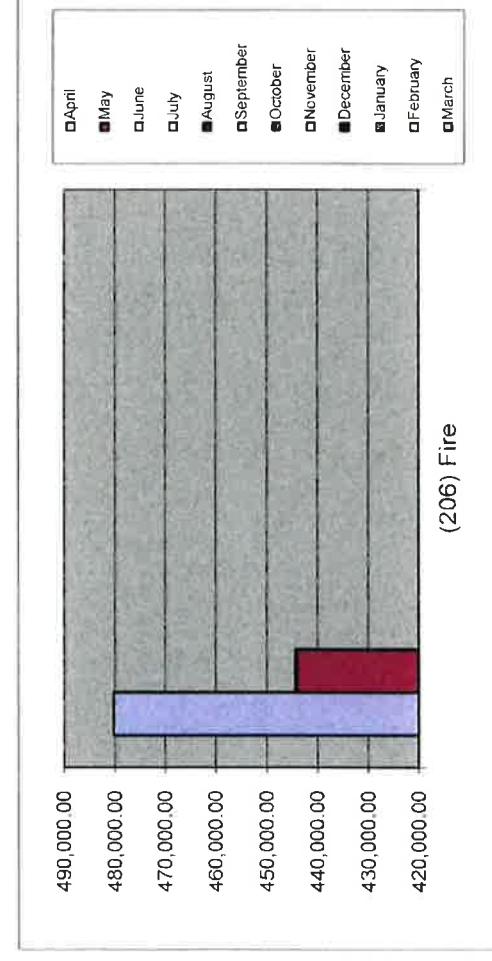
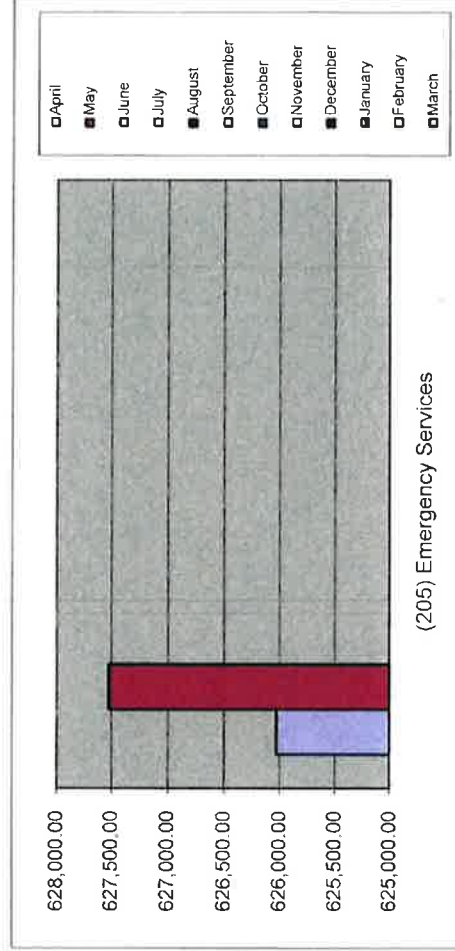
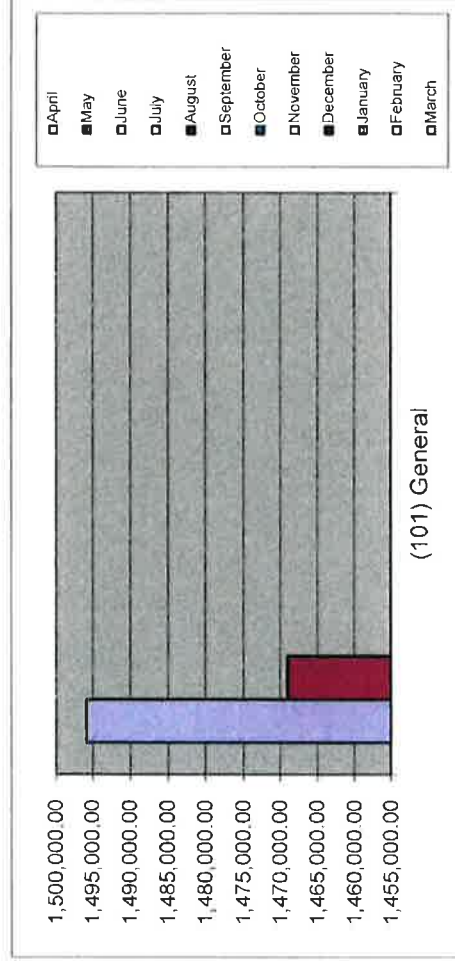
RESTRICTED USE FUNDS

Month End Balance	Cash	Invested	Total Restricted Use
EMER. SRVS. MILLAGE	\$ 21,701.40		\$ 21,701.40
EMS CAPITAL IMPROVEMENT	\$ 129,376.91	\$ 476,446.07	\$ 605,822.98
TRUST & AGENCY	\$ 21,414.99	\$ -	\$ 21,414.99
BOND PAYMENT	\$ 8,002.17	\$ -	\$ 8,002.17
TTES BOND (NEW)	\$ -	\$ -	\$ -
SHAW CEMETERY	\$ 28,891.43	\$ 25,746.31	\$ 54,637.74
SEWER	\$ 178,418.39		\$ 178,418.39
DUNCAN LK W/C	\$ 25,525.91	\$ -	\$ 25,525.91
TOTAL	\$ 413,331.20	\$ 502,192.38	\$ 915,523.58

Please consider this Treasurers Investment Report required by PA20.

Summary Fund Charts

	April	May	June	July	August	September	October	November	December	January	February	March
(101) General	1,495,809.40	1,469,081.27										
(205) Emer. Srvs	626,026.29	627,524.38										
(206) Fire	480,208.74	444,231.35										
(303) Ambulance	172,037.95	157,899.88										



General Fund (101, 203, 221, 304, 402)
For Month Ending May 2021

Balance Forward		\$ 1,495,809.40
Revenues		
Prior year taxes	4.63	
Spencer / Rita Drive	12,187.00	
Cemetery Lot Fees	5,800.00	
Misc. Cemetery fees	2,398.24	
Interest	47.47	
Misc: Zoning	1,000.00	
Reimbursement: TAPRC payroll	3,912.66	
Reimbursement - Employee Healthcare	808.42	
Transfer From Other Funds		
Total Revenues	<u>\$ 26,158.42</u>	<u>\$ 1,521,967.82</u>
Expenditures		
A/P Expenses	27,275.59	
Payroll & Payroll Taxes	25,461.96	
Bank Fees	149.00	
Transfer To Other Funds		
Total Expenditures	<u>\$ 52,886.55</u>	
TOTAL GENERAL FUND		\$ 1,469,081.27

Fire Fund (206)

For Month Ending May 2021

Balance Forward		\$	480,208.74
Revenues			
Swiftwater/Training Center Reimbursement	2,050.00		
Interest	14.65		
Total Revenues	\$ 2,064.65		
		\$	482,273.39
Expenditures			
A/P Expenses	22,693.78		
Payroll & Payroll Taxes	15,348.26		
Total Expenditures	\$ 38,042.04		
MONTH END BALANCE (CASH)		\$	444,231.35

Emergency Services Millage Fund (205)

For Month Ending May 2021

Balance Forward		\$	20,227.19
Revenues			
PPT Reimbursement	8.65		
Interest	0.56		
Memorial Donations - Mike Cravero	1,465.00		
Transfer From Other Funds	-		
Total Revenues	\$ 1,474.21		
		\$	21,701.40
Expenditures			
Transfer To Other Funds	-		
Total Expenditures	\$ -		
		\$	21,701.40

Restricted Capital Improvement Fund (403)

Beginning Balance		\$	129,313.21
Interest	\$ 3.65		
A/P			
Total	\$ 3.65		
		\$	129,316.86

Restricted Money Market Fund (403)

Beginning Balance	\$ 476,485.89		
Interest	\$ 20.23		
Total		\$	476,506.12

MONTH END BALANCE (CASH)		\$	627,524.38
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Ambulance Fund (303) For Month Ending May 2021

Balance Forward		\$	172,037.95
Revenues			
Ach'ed Payments	22,527.77		
Interest	4.41		
Collection Receivable	734.34		
Total Revenues	\$ 23,266.52		
		\$	195,304.47
Expenditures			
A/P Expenses			
Payroll & Payroll Taxes	24,155.45		
Transfer To Other Funds	13,249.14		
Total Expenditures	\$ 37,404.59		

MONTH END BALANCE (CASH)	\$ 157,899.88
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Shaw Cemetery (209) For Month Ending May 2021

Hastings City Bank	
Beginning Balance	54,635.84
Interest	1.90
Total	\$ 54,637.74

MONTH END BALANCE	\$ 54,637.74
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Trust & Agency Fund (701)
For Month Ending May 2021

Chemical Bank

Balance Forward		\$	20,614.64
Revenues			
Escrow Holdings	1,000.00		
Interest	0.35		
Total Revenues	\$ 1,000.35		
		\$	21,614.99
Expenditures			
Refund Room Deposit	200.00		
Transfer To Other Funds			
Total Expenditures	\$ 200.00		

TOTAL TRUST & AGENCY FUND	\$ 21,414.99
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Sewer O & M Fund (804)
For Month Ending May 2021

Chemical Bank

Balance Forward		\$	188,303.54
Revenues			
Charge for Services	4,370.00		
Interest	4.98		
Total Revenues	\$ 4,374.98		
		\$	192,678.52
Expenditures			
A/P Expenses	14,260.13		
Total Expenditures	\$ 14,260.13		

TOTAL SEWER O & M FUND	\$ 178,418.39
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Bond Payment Fund (301)
For Month Ending May 2021

Chemical Bank

Balance Forward		\$	8,000.39
Revenues			
PPT tax payment	1.56		
Interest	0.22		
Total Revenues	\$ 1.78		
		\$	8,002.17
Expenditures			
Bond Payment			
Total Expenditures	\$ -		

TOTAL BOND PAYMENT FUND	\$ 8,002.17
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TTES Bond Proceeds Fund (401) NEW
For Month Ending May 2021

Chemical Bank

Balance Forward		\$	-
Revenues			
Interest	-		
Refund Bank Fees			
Total Revenues	\$ -		
		\$	-
Expenditures			
Transfer to Other Funds			
Total Expenditures	\$ -		

TOTAL BOND PROCEEDS FUND	\$ -
---------------------------------	-------------

Duncan Lake Weed Control (220)
For Month Ending May 2021

Chemical Bank

Beginning Balance			25,525.20
Revenues			
Prior Year Tax Collections	-		
Interest	0.71		
Total Revenues	0.71		
Expenditures			
A/P Expenses	-		
Total Expenditures	\$ -		

TOTAL DUNCAN LAKE WEED CONTROL	\$ 25,525.91
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Depository and Investment Report

Account Balances as of 5/31/21

		TOTAL	CASH	Money Market	Investment (MI Class)
101	General Fund	1,437,286.96	975,557.68	334,744.16	126,985.12
203	Moe Road Dust Control	1.12	1.12		
205	Emergency Services	20,236.40	20,236.40		
206	Fire	444,231.35	289,734.05	154,497.30	
209	Shaw Cemetery	54,637.74	28,888.19	25,749.55	
220	Weed Control	25,525.91	25,525.91		
221	Spencer / Rita	6,650.06	6,650.06		
301	Bond Tax Fund	8,002.17	8,002.17		
303	Ambulance	157,899.88	157,899.88		
304	Spencer / Rita	25,143.13	25,143.13		
403	Emergency Services - Capital Improvement	607,287.98	130,781.86	476,506.12	
804	Sewer	178,418.39	178,418.39		
	P/R	507.98	507.98		
	A/P	4,056.60	4,056.60		
Disbursement / Sweep account Total		\$ 2,969,885.67	\$ 1,851,403.41	\$ 991,497.14	\$ 126,985.12
401	Bond Proceeds	0.00	0.00		
701	Trust & Agency	21,414.99	21,414.99		
	Tax	2,652.98	2,652.98		
		\$ 24,067.97	\$ 24,067.97		
TOTAL of ALL Accounts		\$ 2,993,953.64			

**Minutes of the Thornapple Township
Emergency Services Committee Meeting
June 9, 2021**

DeMaagd called the meeting to order at 8:01 AM

Attending: Chief Randy Eaton, Township Supervisor Eric Schaefer, Trustee Ross DeMaagd, Trustee Sandy Rairigh, and Middleville Village Manager Patricia Rayl

Chief Eaton reported on:

1. Administration:

A. The May 2021 Run Report will be provided to Eric Schaefer to be included in the June 2021 Township Board packet.

B. Coverage by the TTES has been requested for:

- (i) July 19 and/or 20 at the Barry County Fair (July 17-24);
- (ii) August 7-8 for the 24-Hour Bike Challenge through Middleville; and
- (iii) A date (yet to be determined) in October, 2021, for the Page Elementary Career Day.

C. The Swift Water Rescue class was deemed to be a huge success with eleven (11) members of TTES and five (5) members from other departments attending. Several deficiencies in equipment owned were recognized. A "wish list" was assembled and an application for use of a \$12,000 grant through Parks & Recreation has been requested. This grant is to be utilized for safety and health purposes and has a fast-approaching deadline for use. There is a 25% match required. Chief Eaton has stated that he would be planning to realign the EMS budget to accommodate this match if approval for utilizing this grant comes to fruition.

2. Personnel:

A. Proposed Hires: Justin Miles (currently a 2nd shift electrician at Lacks Industries) is interested in joining the on-call service with the department on the fire side. Hannah Hollis will be re-taking her EMT exam and is interested in joining the service on both the fire and ambulance side.

3. Equipment:

A. Fire:

Tanker 54 had a couple of issues on a recent run. The siren stopped working mid-way through and also the transmission failed to downshift while making a turn at a corner. The tanker will be taken in for service soon.

B. Ambulance:

(i) There was a meeting June 8, of the Barry County Medical Control Board. Discussion was had as to proposing that Ambulance Service would be designated as an "Essential Service", thereby increasing funding options. Rep. Julie Calley was in attendance and will be looking further into this proposition;

(ii) Medicaid reimbursement is a massive problem. The allocated amount for payment rarely (if ever) covers even the most basic run, on top of which the State recently instituted a "transport tax". Again, Rep. Julie Calley has been made aware of this issue;

(iii) Overall, there has been an approximate increase of over 18% in the number of calls within the State of Michigan this year;

(iv) The new ambulance is nearly ready and the expected delivery is most likely to be early July, 2021.

4. Station:

The six (6) overhead garage doors at the station have problems with non-functioning sensors to reverse the doors should there be an item in the way of its closing. Several options were explored, and it is felt best that the "Light Curtain" option at a cost not to exceed \$3,310.20, would be most suitable - assuming that the Chief gets a couple of additional questions answered to his satisfaction.

5. Next Meeting: July 7, 2021 (Wednesday) at 8:00 AM

Meeting was closed at 9:07 AM

Respectfully submitted,

Sandy Rairigh

Thornapple Township Emergency Services - Monthly Report

Township or Village	Runs for May 2021	Year to Date	
Thornapple Township			
Fire	10	29	
Medical	17	74	Total runs
Fire and EMS	2	18	121
Village of Middleville			
Fire	3	14	
Medical	32	145	Total runs
Fire and EMS	0	7	166
Irving Township			
Fire	1	6	
Medical	2	23	Total runs
Fire and EMS	0	1	30
			Total runs
			0
Transfers	10		
Lift Assist	2		
Medicals TOT	5		TOT / response area
TOT = turn over to			0 = IR, 2 = TT, 3 = MV,
Medicals TOTF	21		TOTF breakdown
TOTF = turn over from			mercy = 11, life = 3, waems = 5, other = 2
EMS Mutual Aid	0		
Fire Mutual Aid	5		CFD = 2, HFD = 2, WFD = 0, YS = 1
Stand by	0		
Other Assists / LE	0		0 = LE, 0 = smoke detect. install
			0 = welfare check
Total calls	110		

May at a Glance

1 day with 9 calls
 4 days with 6 calls
 4 day with 5 calls
 6 days with 4 calls
 5 days with 3 calls
 8 days with 2 calls
 2 days with 1 call

Comparisons

May 2020 = 78
YTD - 2020 = 388
YTD - 2021 = 499

Up 111 calls from last year

Double Hits - 12 times w/ 5 lost transports
 Average 3.54 calls per day
 30 of 31 days had at least 1 call

TOWNSHIP of THORNAPPLE

Eric Schaefer, *Supervisor* / Cindy Willshire, *Clerk* / Debra K. Buckowing, *Treasurer*
Ross DeMaagd, *Trustee* / Kim Selleck, *Trustee* / Curt Campbell, *Trustee* / Sandy Rairigh, *Trustee*



Phone 269-795-7202 * Fax 269-795-8812 * 200 E Main St.,
PO Box 459, Middleville MI 49333 * www.thornapple-twp.org

June 10, 2021

MEMORANDUM

To: Township Trustees
From: Catherine Getty
RE: Zoning Administrator Report

PERMIT NO.	APPLICANT NAME		ADDRESS	PARCEL #	Type of Installation	APPROVED / DENIED
	LAST	FIRST				DATE
2021-21	Eno	Christa	2912 Heller Rd	032-039-10	New Dwelling #3	6-7-2021
2021-22	David	Greenland	4714 Redbud Drive	150-004-00	Acc. Building	Pending
2021-23	Jordyn	Roodvoets	6830 Caribou Ct.	165-028-00	New Dwelling #4	5-13-2021
2021-24	David	Smith	5965 Hilltop Dr.	090-028-00	Pool/Deck	5-15-2021
2021-25	Scott & Jennifer	Young	8011 Asterwood	185-019-00	Deck	5-27-2021
2021-26	Rebecca	Forbes	9835 Taro	090-010-00	Fence	5-26-2021
2021-27	Liz	Hansson	10781 Parmalee Rd.	009-016-45	Above Ground Pool	6-4-2021
2021-28	Mandy	Bowerman	3824 Getty Ridge Drive	026-004-80	New Dwelling #5	6-9-2021
2021-29	Rick & Julie	Schaeffer-Space	7040 Rolling Oaks	001-006-48	Porch	6-2-2021
2021-30	Jacob & Allison	Draaisma	6468 Duncan Lake Road	008-001-60	Inground Pool	6-10-2021
2021-31	Hansen	Ryan & Sarah	7060 Kimberly Dr.	130-004-00	Add. To dwelling	pending

Zoning permits as of this date 2020 = 34
New dwellings as of this date 2020 = 4



CODE ENFORCEMENT

THORNAPPLE TOWNSHIP

Code Enforcement Activity

May 2021

Comp #	Date	Address	Complaint/Violation	P	Status
21-0000	1/5/2021	7613 Whineyville Rd.	Bus. Operation/Violation (Re-Open Investigation)	Y	AC
21-0001	1/5/2021	2815 Valley Ridge Dr.	Bus. Operation/Violation	Y	CL
21-0002	1/5/2021	9425 Adams Rd.	Inoperable/Vehicles, Junk, Trash/Blight (Re-Open)	Y	AC
21-0003	1/5/2021	10317 Mulberry Dr.	Deck/No Permit	N	CL
21-0004	1/5/2021	4714 Mulberry Ct.	Deck/No Permit	N	CL
21-0005	1/5/2021	4573 Mulberry Ct.	Shed/No Permit	N	UNF
21-0006	1/5/2021	11353 Jackson Rd.	Inoperable/Vehicles, Junk, Trash/Blight	Y	CL
21-0007	1/5/2021	8500 Blk. Parmalee Rd.	Collection of Junk Item's	Y	CL
21-0008	1/5/2021	7040 Rolling Oaks Ln.	Addition to Residence/No Permit	Y	AC
21-0009	3/5/2021	4714 N.Redbud Ct.	Shed/No Permit	Y	AC
21-0010	3/9/2021	2496 Bender Rd.	Concerns/Issues with Vehicles/Farm Equipment	Y	AC
21-0011	3/9/2021	7813 W. State Rd.	Trash/Junk Complaint	N	CL
21-0012	3/18/2021	7046 W. Kimberly Dr.	Fence/No Permit, Non-Compliance	Y	CL
21-0013	3/25/2021	874 Firwood Dr.	Dumping Trash	Y	CL



CODE ENFORCEMENT

THORNAPPLE TOWNSHIP

	3/29/202			
21-0014	1	2092 Fawn Ave.	Uncontained Trash Complaint	N CL
21-0015	4/1/2021	7060 Kimberly Dr.	Construction Equip./Material/Trash	Y AC

Activity Report Cont.

Comp #	Date	Address	Complaint/Violation	P	Status
21-0016	4-13-2021	7440 Whitneyville Rd]	New Shed/No Permit	Y	AC
21-0017	4/19/2021	7420 Noffke Dr.	Rec. Vehicle Parking Violation/Junk, Blight	Y	CL
21-0018	4/27/2021	6869 Whitneyville Rd.	Use of Office/Outbuilding as Residence	N	UNF
21-0019	4/27/2021	2125 Fawn Ave.	Accumulation of Junk/Trash	N	CL
21-0020	4/29/2021	7605 Parmalee Rd.	New Garage/Shed. No Permit	Y	CL
21-0021	4/29/2021	6367 Robertson Rd.	Addition to Existing Pole Barn. No Permit	Y	AC
21-0022	5/14/2021	8011 S. Asterwood Ct.	Building Deck/No Permit, Dumping Debris'	Y	CL



CODE ENFORCEMENT

THORNAPPLE TOWNSHIP

	5/20/202				
21-0023	1	7350 Bouman Dr.	Loose/Free Range Chickens	N	CL
	5/24/202				
21-0024	1	8300 Garbow Rd.	Illegal Residence/Illegal Burning	N	AC

Activity Report Cont.

Comp #	Date	Address	Complaint/Violation	P	Statu s

**Thornapple Area Parks and Recreation Commission Minutes
Of Thursday, May 6, 2021 6:00 PM
(held virtually)**

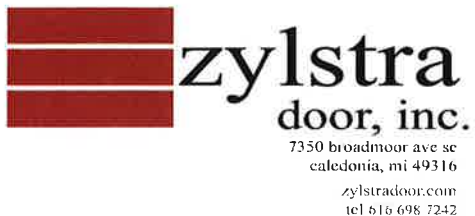
- **Call to Order:** Chair Getty called the meeting to order at 6:04 p.m. Members present for the virtual meeting were: Getty, Schneider, DeVries, Iveson, Schaefer, Hamming, Hamilton and Kenyon. Also, in attendance were Program Director Dock, J-ad representative Chandler and Recording Secretary Bremer.
- **Approval of Agenda:** Schneider requests to add 9.b. (Youth Committee report) to the Agenda. **Motion** by DeVries seconded by Schneider to approve the Agenda as amended. **Ayes, all, motion carried.**
- **Approval of the Previous Meeting Minutes:** **Motion** by Hamming seconded by Schneider to approve the Minutes of the April 1, 2021 Meeting as presented. **Ayes, all, motion carried.**
- **Public Comments:** None
- **Chair's Report:** Williams & Works will have an informational booth regarding the proposed Sheridan Park initiative on May 15 (TAPRC Baseball/Softball Picture Day) near the Page Softball diamond. Getty welcomed newest Board member Jeff Kenyon to the TAPRC. Getty informed the Board of a Barry County Parks and Recreation Grant opportunity. Requests of \$2,000 or more will require a 25% match. Getty and Dock will consider options/suggestions from Board members.
- **Treasurer's Report:** Hamilton shared the submitted Treasurer's report (see attached report). Total income of \$11,027.50 which consisted mostly of baseball/softball player registrations, sponsorships, YAC Grant and a quarterly United Way contribution. Total expenses were \$5,168.34. The current checkbook balance as of 4/30/21, is \$48,839.07 compared to \$29,972.82 one year ago. Hamilton stated that there could be some budget amendments ready for approval at the June meeting. The 2020 audit remains in process. **Motion** by Schneider seconded by DeVries to approve payment of the bills in the amount of \$5,168.34 and to approve the Finance Report as presented. **Ayes, all, motion carried.**
- **Program Director's Report:** Dock provided a written report (see attached. Weekly COVID testing per State requirements for all athletes 13 and older will remain in effect until May 31. Team pictures will take place on May 15. Participants will be allowed to be maskless for the pictures. A time to set-up the new batting cage has been set at noon on Saturday, May 8. Volunteers are NEEDED to help!
- **Committee Reports:**
 - Finance & Personnel: No additional report

- **Development:** Hamming continues to professionally update TAPRC social media sites. Dock and Getty are working on thank you/receipt letters for sponsors. It will be made known to TK School District residents that used sports equipment can be donated to the TAPRC at the Thornapple Township Hall during its regular business hours. Special requests for pick-up and/or drop-off assistance can be arranged by contacting the TAPRC.
- **Youth:** Schneider reported that her sign-up sheet and master schedule of TAPRC games and practices is nearly complete. Board members are encouraged to visit/attend games and/or practices and get a personal view of what's happening.
- **Community Events:** No report
- **Charity Shed Schedule:** MAY - Schaefer; JUNE - Getty; JULY - Hamilton; AUGUST - Dock; SEPTEMBER - Iveson; OCTOBER - Hamming; NOVEMBER - DeVries; DECEMBER - Bremer.
- **Closing Comments:** DeVries announced that a Paul Henry - Thornapple Trail photo contest is in the works and will be made public in the near future.

Adjournment: With no further business to come before the Commission, Getty adjourned the meeting at 6:47 p.m.

Respectfully submitted,
Mike Bremer – Recording Secretary

Next meeting: Thursday June 3, 2021, 6 p.m. at the Thornapple Township Hall with a Zoom option.



Proposal

Date: 5/28/2021
Quotation: 1875

Proposal subject to review after 30 days.

Thornapple Township EMT
 PO Box 459
 Middleville, 49333

Site Name: 128 High St
Contact Name: Joe or Randy

Quantity	Description	Unit Price	Tax	Total
1.00	Commercial Service Call	480.00	0.00	480.00
6.00	LiftMaster LC-36A Light Curtain	445.00	160.20	2,830.20
Install Light Curtains. Service and inspect 6 doors.				
Sub Total:				\$ 3,150.00
Tax Rate Amount:				\$ 160.20
Quote Total (Tax Rate Incl.):				\$ 3,310.20

All material is guaranteed to be as specified. Price subject to change without notice. This proposal may be withdrawn by us if not accepted by the above due date. All work to be completed in a professional manner per standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders will become an extra charge over and above the estimate. All agreements contingent upon delays beyond our control. Purchaser agrees to pay all costs of collection, including attorney's fees. 1 Electrical Wiring is not provided by Zylstra Door, Inc. and is to be completed by Qualified Electrician. A service charge of \$75.00 will be added to invoice if low voltage wiring is completed by Zylstra Door, Inc.

LC-36A

LIGHT CURTAIN



Protection for Personnel and Equipment

LiftMaster's® LC-36A Light Curtains provide 36 in. of coverage to keep your customers, employees and equipment safe. The LC-36A must be used with a primary entrapment device and be installed along the vertical plane of the door. The light curtains are NEMA 4 rated which provides protection against direct water spray and makes the LC-36A ideal for use in auto dealerships, fire stations, municipal garages and commercial storage facilities.

Performance

- **Color-coded transmitter and receiver** for easy identification.
- **Provides 36 in. of effective height coverage** to increase the area of protection.
- **Multiple sets of LC-36A curtains** can be mounted on a door providing coverage flexibility*.
- **Maximum door width of 33 ft.** ensures coverage for most commercial doors.
- **Eight (8) LEDs per side and 22 cross-beams** produce an invisible curtain of infrared light for maximum detection capability.
- **Solid LED lights** indicate correct sensor alignment, simplifying installation.
- **Green LED** on receiver flashes when interrupted, providing visible interrupt detection.

* See instruction manual for requirements.

The LiftMaster LC-36A is an ancillary device and must be used with a primary monitored entrapment device to maintain compliance with UL 325. The LiftMaster CPS-UN4, CPS-RPEN4, CPS-OPEN4 and CPS-U meet this requirement. Failure to use the appropriate sensor or failure to install the sensors properly, may expose the installer and customer to liability, should an accident occur.

LiftMaster's full line of Primary Monitored Photo Eyes



CPS-UN4

CPS-RPEN4

CPS-OPEN4

CPS-U

Optional Accessories:



External Power Supply (100MAPS)**

Provides enough power to operate two LC-36A Light Curtains. Includes 38 ft. cable leads.

** Required for use with LiftMaster Medium-Duty Operators. Available as an extra power source for use with LiftMaster Logic 3, 4 and 5.0 Operators.



2-Strand Bell Wire (20-2LM)

500 ft., 22 gauge, white and red/white wiring.



2-Strand Bell Wire (21-2LM)

500 ft., 22 gauge, white and black/white wiring.



7-Conductor Cable (65-7WIREL)

500 ft., 20 gauge, 7-wire spool. For use with all standard control stations, sensing edges or photo eyes.

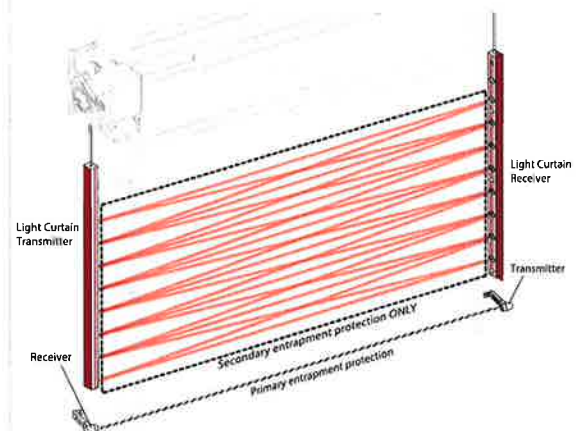


Image shows infrared beam pattern which is not visible to the naked eye.

LC-36A

LIGHT CURTAIN

SPEC SHEET

STANDARD SPECIFICATIONS

22VAC-24VAC/DC Ancillary Light Curtain with 36 in. effective height and cross-beam pattern

PRODUCT DIMENSIONS

Height: 0.63 in. (16mm)
Width: 0.47 in. (12mm)
Length: 47 in. (1194mm)

CARTON DIMENSIONS

Height: 2.5 in. (64mm)
Width: 2.75 in. (70mm)
Length: 49 in. (1245mm)

CARTON CONTENTS

1 Transmitter Curtain
1 Receiver Curtain
4 Mounting Brackets
4 Sets of Mounting Hardware
6 Electric Connectors
1 Blocking Shield
Installation Instructions

WARRANTY

2 year limited warranty

TECHNICAL SPECIFICATION

Maximum Alignment Range: 33 ft./10.2m
Min. Alignment Distance: 36 in. (3 ft.)/91cm

No required alignment if instructions are followed

Anodized aluminum housings

NEMA 4 rated enclosure/indoor use only

Temperature Range (Operating) - 40°C to + 60°C (-40°F to 140°F)
Terminal Interface Non-Monitored (Ancillary) 2-Wire

Color Code Sensors

Transmitter: Amber LED
Receiver: Green LED

ACCESSORY SPECIFICATIONS

100MAPS External Power Supply**

Input: 110VAC

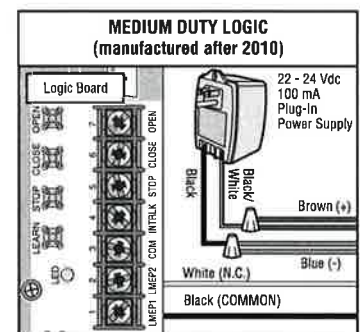
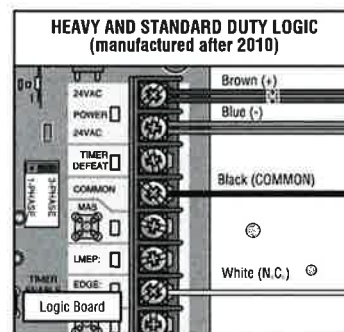
Output Voltage: 22VAC-24VAC

Output Amperage: 100mA

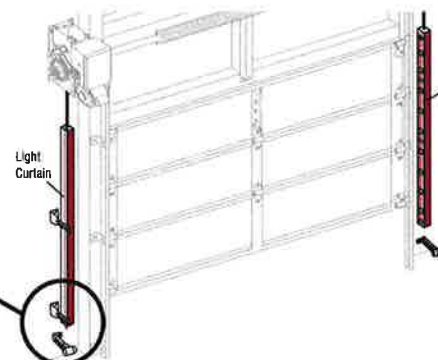
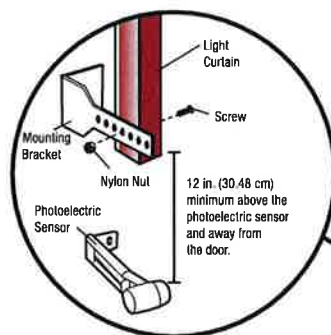
Cable Leads: 38 ft.

** Required for use with LiftMaster Medium-Duty Operators. Available as an extra power source for use with LiftMaster Logic 3, 4 and 5.0 Operators.

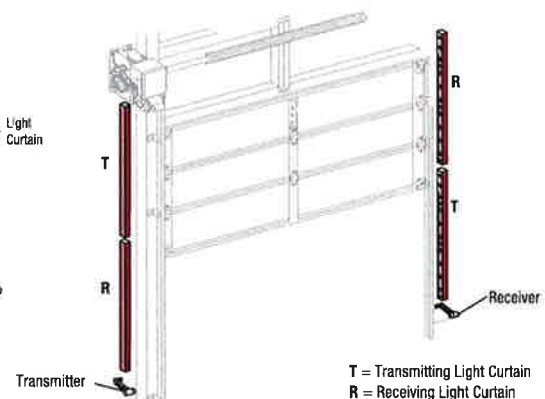
WIRING DIAGRAMS



Note: Please reference the LC-36A instruction manual for additional wiring diagrams.



Single set of Light Curtains shown with Primary Monitored Photo Eyes



Two sets of Light Curtains shown with Primary Monitored Photo Eyes



Proposal

Date: 5/28/2021
Quotation:

Proposal subject to review after 30 days.

Thornapple Township EMT
PO Box 459
Middleville, 49333

Site Name: 128 High St
Contact Name: Joe or Randy

Quantity	Description	Unit Price (\$)	Sales Tax (\$)	Sub Total (\$)
1.00	Commercial Service	480.00	0.00	480.00
6.00	MillerEdge Pressure Sensitive Sensing Edge ME123	348.88	125.60	2,218.88
6.00	Transmitter/Receiver Kit, MWRT12, Wireless Safety Edge, Miller Edge	155.13	55.85	986.65
Installation of new Wireless Safety Edge. Service and inspect 6 Doors.				
			Sub Total:	\$ 3,504.08
			Tax Rate Amount:	\$ 181.45
			Quote Total (Tax Rate Incl.):	\$ 3,685.53

All material is guaranteed to be as specified. Price subject to change without notice. This proposal may be withdrawn by us if not accepted by the above due date. All work to be completed in a professional manner per standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders will become an extra charge over and above the estimate. All agreements contingent upon delays beyond our control. Purchaser agrees to pay all costs of collection, including attorney's fees. 1 Electrical Wiring is not provided by Zylstra Door, Inc, and is to be completed by Qualified Electrician. A service charge of \$75.00 will be added to invoice if low voltage wiring is completed by Zylstra Door, Inc.

Single-Channel Wireless System

MWRT12, MWRTA12



WIRELESS DOOR EDGE SOLUTION

Avoid visible cords and reels with this non-monitored single-channel edge system. Designed to provide a wireless signal transmission from the sensing edge to motor controls, this reliable system has on-board diagnostics for easy setup and troubleshooting. The transmitter comes standard with a NEMA 4 weather-proof enclosure and both the receiver and transmitter have a compact design that allow for easy troubleshooting via the transparent cases. The transmitter is available with an optional audible alarm that activates when the battery has 25% of its life remaining.



APPLICATIONS

- Motorized doors
- Automated gates

FEATURES

- Easy to configure
- Non-monitored system ideal for operators manufactured prior to:
 - Doors: August 2010
 - Gates: January 2016
- Transmitter built to endure rugged environments
- 2-year warranty

Image:
Single-Channel Wireless Edge System:
MWRT12 receiver + MWRTA12 transmitter
with low battery alarm

800-220-3343
www.milleredge.com

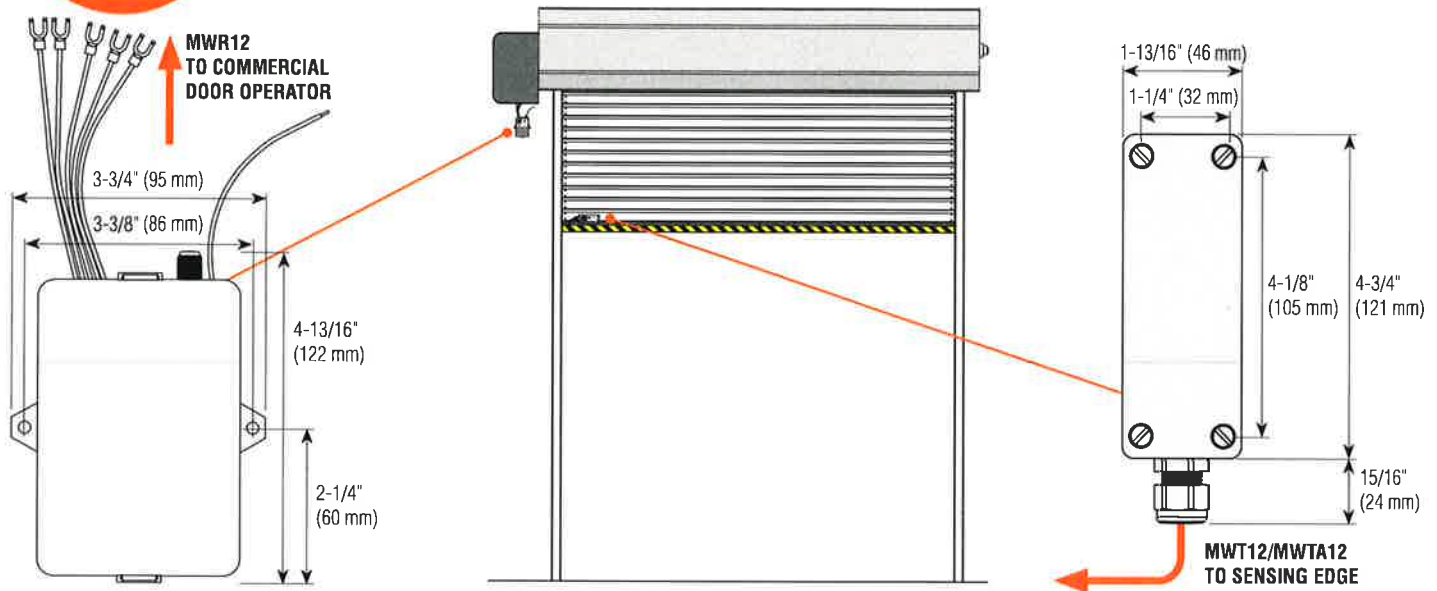
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Single-Channel Wireless System

MWRT12, MWRTA12



GENERAL SPECIFICATIONS

PERFORMANCE

Response Time	30 milliseconds
Operating Temperature	0°F to 130°F (-18°C to 55°C)
Frequency	318 MHz
Operating Range	100 ft. (optimal conditions)
Agency Approvals	FC

	MWR12 RECEIVER	MWT12 TRANSMITTER	MWTA12 TRANSMITTER
ELECTRICAL			
Power Source	12-24 volts AC/DC nominal Nominal 60 mA, 140 mA activated	(2) 1.5 volts AA alkaline batteries, 2-year expectancy	(2) 1.5 volts AA lithium batteries, 2-year expectancy
Input/Output	Output: N.O., N.C.	Input: 2-wire N.O. sensing edge	Input: 2-wire N.O. sensing edge
PHYSICAL			
Dimensions	3-3/4"W x 4-13/16"H x 1-1/4"D (95 x 122 x 32 mm)	1-13/16"W x 5-3/4"H x 1-3/4"D (46 x 146 x 44 mm)	1-13/16"W x 5-3/4"H x 2-1/8"D (46 x 146 x 54 mm)
Weight	4.6 oz.	7.2 oz.	7.2 oz.
Enclosure Material	Polycarbonate	Polycarbonate	Polycarbonate
TX Low Battery Alert	-	-	Alarm, 80-95 dB at 2'
LED Indicators	Power, status, channel 1	Transmit	Transmit
Antenna	Attached wire or F connector	-	-
Degree of Protection	-	NEMA 4	NEMA 4



OPTIONS

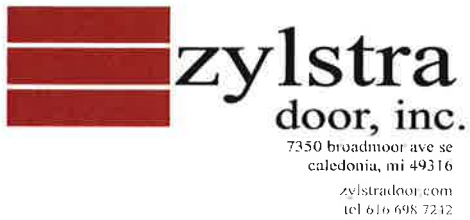
- MWRT12: MWR12 receiver + MWT12 transmitter
- MWRTA12: MWR12 receiver + MWTA12 transmitter with low battery alarm

RELATED PRODUCTS

- ANT-K: Rigid Antenna, Coax Cable & Connector Block
- ANT-RC: 318 MHz Rigid Antenna, Wire Insulated

Consult Miller Edge to ensure compatibility.

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MWRT12_20210101



Proposal

Date: 5/28/2021
Quotation: 1874

Proposal subject to review after 30 days.

Thornapple Township EMT
PO Box 459
Middleville, 49333

Site Name:

Contact Name: Joe or Randy

Quantity	Description	Unit Price	Tax	Total
6.00	Pneumatic Sensing Edge with 2-Wire Take-Up Reel	175.00	63.00	1,113.00
1.00	Commercial Service Call	480.00	0.00	480.00
Installation of new Pneumatic Safety Edge. Service and inspect 6 Doors.				
			Sub Total:	\$ 1,530.00
			Tax Rate Amount:	\$ 63.00
			Quote Total (Tax Rate Incl.):	\$ 1,593.00

All material is guaranteed to be as specified. Price subject to change without notice. This proposal may be withdrawn by us if not accepted by the above due date. All work to be completed in a professional manner per standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders will become an extra charge over and above the estimate. All agreements contingent upon delays beyond our control. Purchaser agrees to pay all costs of collection, including attorney's fees. 1 Electrical Wiring is not provided by Zylstra Door, Inc. and is to be completed by Qualified Electrician. A service charge of \$75.00 will be added to invoice if low voltage wiring is completed by Zylstra Door, Inc.



VoIP Service Quote

Township of Thornapple
 200 E. Main St.
 Middleville, MI 49333
 Denise Piering 269-795-7202 / office@thornapple-twp.org



Monthly Costs:




Cost	Item	Description
\$150.00 per month	Global Call Plan	<p>This plan includes the following:</p> <ul style="list-style-type: none"> - No contract or termination fee - Unlimited lines - Unlimited phones - Unlimited phone locations/offices - Unlimited phone numbers (DIDS) - Unlimited inbound minutes - No hardware maintenance fees - No service fees for support requests - Full feature set of the PBX on all the phones - 3000 outbound minutes per month, inbound is free <p>Global call plan includes land based calls to the following countries:</p> <p>Canada, Austria, Belgium, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Ireland, Italy, Netherlands, Norway, Poland, Portugal, Moscow, St Petersburg, Spain, Sweden, Switzerland, United Kingdom, Australia, Japan, New Zealand, South Korea, Taiwan, China, Hong Kong, Singapore, Chile, Sao Paulo, Caracas, Mexico City, Monterrey, Guadalajara, Israel</p>

Optional Services:

Fax-to-Email \$20 Per Month per line \$25 Per Month per line (10 extensions or more)	Not selected	~600 fax pages per month.
Auto Recording \$20 per extension per month	Not selected	This optional feature will automatically record all phone conversations to the IVSComm cloud based recording server.
"Soft" Mobile Phone App \$40 Annual License for Mobile \$50 for PC		Stretto Softphone Service is a highly secure, standards-based VoIP softphone.

Phone Models:

Phone	Cost	Description
Yealink T42S - \$140 each (x10) 	\$1400.00	<p>The Yealink SIP T42S IP 6-Line phone (with v73 firmware) features a 2.7" 192x64-pixel graphical backlit LCD and Yealink Optima HD Voice to deliver life-like conversations. Yealink T42S supports productivity-enhancing features such as SCA, BLF List, call forward, call transfer, 3-way conference. Three pages of 6 flexible buttons are shown on the display can be programmed up to 15 various features. T42S also support Yealink YHS32 corded headset, or use with EHS36 for remote call control features using a wireless headset.</p> <ul style="list-style-type: none"> • 2.7" 192x64 pixel grayscale graphical LCD • 6 SIP accounts (with v73 firmware) • Optima HD voice, full-duplex speakerphone • 6 multifunctional line keys, up to 15 paperless keys • Dual-port 10M/100M Ethernet, integrated PoE • 3-way conference • Wall-mountable, Supports headset (YHS32), wireless headset adapter (EHS36)
Yealink T46S - \$180 each (x12) 	\$2160.00	<p>The Yealink SIP-T46S IP 16-line phone features a 4.3" 480x272-pixel color backlit display as well as many productivity-enhancing features. Part of Yealink's new Ultra-Elegant Gigabit IP Phone T4 Series, Yealink T46S is designed for executive users and busy professionals. Yealink's optimal HD technology also enables rich, clear, and life-like voice communications. The Yealink Sip-T46S supports Gigabit Ethernet, programmable keys, and a variety of add-on options including EHS headset and expansion modules (EXP40). Now up to 16 SIP accounts.</p> <ul style="list-style-type: none"> • Revolutionarily new design • 4.3" 480x272 pixel color display with backlight • Paper label free design • Optima HD voice, full-duplex speakerphone • Dual-port Gigabit Ethernet, Integrated POE • 1x built-in USB port, supports Bluetooth headset (via USB dongle BT40) • Up to 16 SIP accounts (with firmware V73), 3-way conferencing • Supports expansion modules (EXP40), Yealink YHS32 headsets, wireless headset adapter (EHS36), Yealink Bluetooth USB Dongle (BT40)

<p>Yealink T48S - \$250 each (x3)</p> 	<p>\$750.00</p>	<p>The Yealink T48S is a 16-line (with Firmware version V73) Gigabit SIP phone ideal for heavy phone use and traffic. The T48S has Yealink's Optima HD voice, supports Bluetooth headsets, and features a 7" color touch panel for swift, easy, and convenient switching between screens and applications.</p> <p>The Yealink T48S is a fully functional Gigabit business VoIP phone that can quickly switch between screens on the 7" color display, rapidly handle calls and transfers, and deliver a superior UC experience. The T48S has Yealink's Optima HD voice technology for life-like conversations over the HD handset or a third party headset, regardless of wired or Bluetooth capability.</p> <p>This particular addition to the SIP-T4 series offers a scratch resistant surface, metallic texture, non-slip rubber feet and ergonomic recessed buttons that helps it hold up to the demands of intense phone use. The Communicator uses SIP over Transport Layer Security (TLS/SSL) to provide service providers the latest technology for enhanced network security. The range is certified compatible with 3CX, Asterisk and BroadSoft Broadworks.</p> <ul style="list-style-type: none"> • 16-line (with Firmware V73 loaded) Appearances • Dual-port Gigabit Ethernet • Yealink Optima HD Voice Supported • Up to 16 (with Firmware V73 loaded) SIP accounts • Full-duplex hands-free speakerphone • Supports Yealink EXP40 expansion module • RJ9 Headset Port • 7" 800 x 480-pixel color touch screen with backlight
<p>Yealink W60P - \$150 (\$100 per additional handset)</p> 	<p>Not selected</p>	<p>The Yealink W60P is a Wireless DECT IP Phone designed for small business and SoHo who are looking for immediate cost saving but scalable SIP-based mobile communications system. Combining the benefits of wireless communication with rich business features of Voice over IP telephony, User can benefit from freedom of movement, lifelike voice communications, multi-tasking convenience, professional features like intercom, transfer, call forward, 3-way conferencing, PoE etc.</p>
<p>Yealink CP920 - \$400</p> 	<p>Not selected</p>	<p>The Yealink CP920 conference phone strikes an outstanding balance between ease-of-use and powerful features, delivering a smarter audio conferencing solution for your company.</p>

Network and Configuration Charges:

Netgear ProSafe 48 Port PoE Switch (\$725) *	\$725.00	<p>The ProSafe 10/100/1000 Switch with PoE from Netgear is an Ethernet switch that can operate at speeds of up to 200 Mbps in full-duplex mode. The switch features Store and Forward packet switching and Auto Uplink ports for automatic MDI/MDI-X detection. It also features four ports with Power over Ethernet (PoE) support. These ports allow it to provide power to PoE-compliant devices with standard Ethernet cables.</p> <p>*Option: Ubiquiti 48 port PoE switch is \$855 / 24 port is \$425</p>
Netgear ProSafe 24 Port PoE Switch (\$450) *	\$450.00	
Ubiquiti Unifi Gateway (\$145) (x2)	\$290.00	
ATA (for FAX machines) (\$60) (x2)	\$120.00	
Telephone power supply (\$30) (x2)	\$60.00	
Telephone wireless dongle (\$50) (x2)	\$100.00	
Telephone wall mount (\$25) (x3)	\$75.00	
Installation/Programming:	\$1000.00	<p>Includes the following:</p> <ul style="list-style-type: none">• Installation and configuration phones• Programming call management on IPBX• On-site training• One new network cable run at Emergency Services
Township Hall Cabling	\$2500.00	<ul style="list-style-type: none">• New individual network cable run for every phone, computer, printer, and wireless A/P in Township Hall
Total	\$3500.00	
Grand Total	\$9630.00	Total (Hardware, Programing and Installation)

Your Total Monthly Phone Bill	\$150.00	Includes all fees and taxes, and covers Township Hall plus Fire Department
--------------------------------------	-----------------	--

Optional Hardware:

Plantronics CS510 Wireless Headset - \$285



The **Plantronics CS510** is the newest member to Plantronics Legendary CS family and is setting new wireless headset standards. With a new streamlined design and improved performance, the CS510 is the lightest DECT headset on the market.

- Walk and talk up to 350 feet away from your desk
- Talk up to 9 hours on a single charge
- Your calls are secured through 64-bit digital encryption
- The noise-canceling microphone helps reduce background noise for your callers
- Monaural (single speaker) design allows coworker communication
- Answer and end calls when you're away from your desk (with optional handset lifter)
- Mute button allows for private, off-headset conversations

Plantronics HW251N w/Quick Disconnect cable - \$175



Working with wideband VoIP technology, the **Plantronics HW251N** headset is known to deliver fantastic audio performance even in noisy environments.

The HW251N Wideband helps overcome the challenges posed by traditional technology, delivering heightened speech clarity and life-like fidelity. A noise-canceling microphone reduces distracting background noises for your listener. You will notice better communication quality with improved call clarity.

The **Plantronics HW251N** is an over-the-head style unit with one earpiece so you will easily be able to converse with your coworkers without removing your headset and a Quick Disconnect cord allows you freedom of mobility when you need to quickly leave your desk.




1020 E Michigan Ave, Suite J
Saline, Michigan 48176
(734) 369-9800



VoIP Service Quote

Township of Thornapple
200 E. Main St.
Middleville, MI 49333
Denise Piering 269-795-7202 / office@thornapple-twp.org

Option for Building to Building Internet Connection (sharing):

Item	Cost	Description
Ubiquiti airMAX AC 60 GHz/5 GHz Radio with 1+ Gbps Throughput \$225.00 (x2) Includes mounting hardware  Installation and configuration Total for Project	\$450.00 \$300.00 \$750.00	<p>The GigaBeam is a 60 GHz radio designed for low-interference and high-throughput connectivity. It includes a 5 GHz radio for failover. For the 60 GHz link, the GigaBeam supports full bandwidth use of 2.16 GHz. The dedicated management radio allows easy setup via Wi-Fi.</p> <p>Features:</p> <ul style="list-style-type: none">60 GHz radio with 5 GHz radio backupLow-interference 60 GHz spectrumUp to 1+ Gbps with low latency2.4 GHz management radioFull bandwidth support: 2.16 GHz



1020 E Michigan Ave, Suite J
Saline, Michigan 48176
(734) 369-9800



Thornapple Township Agenda Request Form

Please have request submitted to Supervisor by E.O.B. on the 1st Monday of the Month.

TO: Thornapple Township Board

FROM: Sandy Rairigh

DATE: 5/12/2021

SUBJECT: 7% Insurance Premium Undercharge

RECOMMENDATION: Determine How to best collect the medical insurance premium shortage

BACKGROUND: Rate increase of 12/1/20 was not reflected in the 7% employee premium Contribution. (The actual dollar amount remained unchanged.)

FISCAL IMPACT: Net positive to the Township

ALTERNATIVES: Decide how/when to collect shortages, i.e., lump sum, payments, start date, etc.

ATTACHMENTS: Special Meeting Minutes of 11/20/19 (See #8)

THORNAPPLE TOWNSHIP BOARD

Special Meeting, Wednesday, November 20, 2019

1. The meeting was called to order by Supervisor Bremer at 7:33 a.m. at the Township Hall, followed by the Invocation and Pledge of Allegiance to the Flag by those present.
2. Present: Mike Bremer, Deb Buckowing, Ross DeMaagd, Sandy Rairigh, and Cindy Willshire. Jake Jelsema arrived at 7:43 a.m. Curt Campbell was an excused absence.
3. **MOTION** by Buckowing, support by Willshire to approve the Agenda as Printed. **MOTION APPROVED** with 5 yes voice votes and two absent.

New Business

4. Appointment of Treasurer Designee: **MOTION** by Buckowing support by Willshire to appoint Denise Piering as the Treasurer Designee and accept tax payments in the absence of the treasurer **MOTION CARRIED** with 6 yes voice votes.
5. Deputy Treasurer wages: **MOTION** by DeMaagd support by Buckowing to clarify the previous motion to raise the deputy treasurer hourly rate by \$1.52 bringing the rate up to \$19/hr. **MOTION CARRIED** with 6 yes votes.
6. Additional handicap parking: **MOTION** by Buckowing support by Jelsema to make the NW parking spot in the Township Hall parking lot of Main Street a handicap accessible spot. **MOTION CARRIED** with 6 yes voice votes.
7. Employee health care plan: The Board approved the renewal of the current non-ACA plan. **MOTION** by Buckowing support by Willshire to adopt resolution #14-2019 Resolution to adopt the annual exemption option as set forth in public act 152, the publicly funded health insurance contribution act. **MOTION CARRIED** with 6 yes voice votes.
8. Employee health care contributions: **MOTION** by Jelsema support by DeMaagd, effective April 1, 2020, that all Thornapple Township employees covered by the Township's health insurance will be required to pay 7% of the premium cost of their respective coverage plan option (employee only, employee & spouse or family) for insurance year beginning December 1, 2019. The Board will address adjustments to the employee percentage of premium costs on an annual basis. Employees eligible for insurance coverage but choosing to opt out, will receive an "opt out dividend/stipend" equal to one half (1/2) the employee only rate. **MOTION CARRIED** with 5 yes voice votes, 1 no voice vote and 1 absent.
9. Elected official's compensation: **MOTION** by DeMaagd support by Buckowing to adopt statutory/non-statutory pay percentage for elected officials. For the Supervisor: 85% of the pay will be considered "Statutory" and 15% "Non-statutory"; Treasurer: 80% of the pay will be considered "Statutory" and 20% "Non-statutory"; and Clerk: 70% of the pay will be considered "Statutory" and 30% "Non-statutory". The annual salary resolutions for the officials will reflect the "Statutory" pay amounts.
10. **Budget 2020-2021:** continued conversation on 2020-2021 budget.

Next Regular Meeting: Monday, December 9, 2019 @ 7:00 PM.

Next Special Meeting: Wednesday, January 8, 2020 @ 7:30 AM.

Thornapple Township Board, November 20, 2019

MOTION by Jelsema, support by Buckowing to adjourn the meeting. **MOTION APPROVED** with 6 yes voice votes.

Adjournment of meeting by Supervisor at 9:29 a.m.

Approved _____

Cindy A. Willshire, Clerk

2021	2021 Premium Monthly	2021 Annual Premium Amount	7 % Per Pay Period	Current Deduction	Differenc e	APRIL 6 Pay Periods
PRIORITY HEALTH FAM	\$ 2,147.32	\$ 25,767.84	\$ 69.37	\$ 67.37	\$ 2.00	\$ 12.03
PRIORITY HEALTH INDV & SPS	\$ 1,777.09	\$ 21,325.08	\$ 57.41	\$ 55.75	\$ 1.66	\$ 9.98
PRIORITY HEALTH INDV	\$ 740.46	\$ 8,885.52	\$ 23.92	\$ 23.23	\$ 0.69	\$ 4.16

2021	2021 Premium Monthly	2021 Annual Premium Amount	7 % Per Pay Period	Current Deduction	Differenc e	NOVEMB ER 15 Pay Periods
PRIORITY HEALTH FAM	\$ 2,147.32	\$ 25,767.84	\$ 69.37	\$ 67.37	\$ 2.00	\$ 30.07
PRIORITY HEALTH INDV & SPS	\$ 1,777.09	\$ 21,325.08	\$ 57.41	\$ 55.75	\$ 1.66	\$ 24.96
PRIORITY HEALTH INDV	\$ 740.46	\$ 8,885.52	\$ 23.92	\$ 23.23	\$ 0.69	\$ 10.39

AGREEMENT FOR DUNCAN LAKE WASTEWATER LAGOON OPERATOR
April 1, 2021 – March 31, 2022

This contract between the Township of Thornapple, hereinafter referred to as "Township" and Bryan Finkbeiner, private contractor, hereinafter referred to as "BF,"

Whereas, the Township owns and operates a sewer system including a lagoon treatment for the Duncan Lake area and is required by the State of Michigan to have a licensed lagoon operator to monitor the lagoon system and to maintain the lagoons as required; and

Whereas, BF has the required lagoon license and has agreed to the full operation of the Duncan Lake Wastewater Lagoons to ensure compliance with permit requirements,

NOW THEREFORE, BF agrees as follows:

A. Lagoon Monitoring as required by the Michigan DEQ

1. Routine monitoring three times weekly
2. Weekly sampling of dissolved oxygen and pH during non-ice cover seasons

B. Lagoon Discharge as required by the Michigan DEQ

1. One pre-discharge sample required prior to each of the four 10-day discharges
2. Four 10-day discharges that require five samples per discharge
3. Each of these five samples (as above in 2) requires two on-site visits per sampling day over each 10-day discharge period
4. Samples must be delivered daily to the lab during this discharge period with Chain-of-Custody paperwork attached

C. Reporting as required by the Michigan DEQ

1. A Monthly Operating Report includes downloading forms from the Internet, collecting paperwork from the lab, filling out paperwork, making copies, filing the report, and sending it to the DEQ by the 10th of each month.
2. Managing all correspondence with the State of Michigan and Thornapple Township including a DEQ yearly inspection, meeting with the Township, phone calls and follow-up.
3. Other test results/reports as established by the DEQ.

IN ADDITION, the parties agree as follows:

1. The Township shall provide assistance personnel where necessary, allowing BF reasonable freedom from the on-call status and the ability for a vacation period. Whenever possible, BF will inform the township when he will not be available.

AGREEMENT – Page 2

2. The Township shall provide all tools deemed necessary to perform maintenance of the lagoon system, and BF shall utilize his own transportation for a majority of the work.
3. The Township shall supply any specialized equipment and personnel which may be occasionally necessary.
4. Purchases necessary for the system operation and maintenance are permitted to be made by BF pursuant to the Township purchasing policy with the approval of the Township overseer of the system or other duly elected Township official.
5. As a private contractor, BF shall maintain a self-funded workman's compensation program.
6. BF's scope of responsibility is limited to the lagoon treatment system and does not include any responsibility or liability for the Duncan Lake collection system
7. BF shall submit to the Township monthly invoices for services rendered. The agreed annual contract fee of \$13440.00 shall be paid monthly in the amount of \$1120.00. BF shall be responsible for both federal and state income taxes, FICA and any other taxes on this amount.
8. This agreement shall be in force for a period of one year, beginning April 1, 2021 through March 31, 2022. This agreement may be severed by either party at any time for any reason with written notification by the discontinuing party to the other.
9. When called upon by the Township overseer for duties outside those defined herein, BF shall be compensated at the rate of \$40.00 per hour. Invoices for this compensation shall be filed with the Township Clerk in an appropriate, timely manner.

Signed, this the 15th day of March, 2021

Amy Brown
Witness

Dimin Pina
Witness

Laura Bonchard
Witness

Eric B. Schaefer
Eric B. Schaefer, Supervisor

Cindy Wilshire
Cindy Wilshire, Clerk

Bryan Finkbeiner
Bryan Finkbeiner, Contractor



Thornapple Township Agenda Request Form

Please have request submitted to Supervisor by E.O.B. on the 1st Monday of the Month.

TO: Thornapple Township Board

FROM: Eric Schaefer

DATE: 6/2/2021

SUBJECT: Establish an Oak opening Preservation Committee

RECOMMENDATION: Formation of a committee to Preserve an area unique to Thornapple Township

Members to include Myself, Sarah Nelson, Randy Eaton, Elaine Denton, Laura Bouchard, and Catherine Getty

BACKGROUND: Within Mount Hope Cemetery, we have one of the two documented "Oak Openings" in Michigan. The Committee will develop and maintain a Conservation and Implementation plan for this natural feature.

FISCAL IMPACT: Not established yet, any expenditures will be bought before the Township Board. The committee will develop a budget and funding plan each year.

ALTERNATIVES: Do nothing

ATTACHMENTS: [Oak Opening Brochure](#)

Michigan Natural Features Inventory

MSU Extension

Oak Openings

Overview

Oak openings are fire-dependent savannas dominated by oaks, having between 10 and 60% canopy, with or without a shrub layer. The predominantly graminoid ground layer is composed of species associated with both prairie and forest communities. Oak openings are found on dry-mesic loams in the southern Lower Peninsula, typically occurring on level to rolling topography of outwash and coarse-textured end moraines. Oak openings have been nearly extirpated from Michigan; only one small example remains. They are known primarily from historical literature and data derived from severely disturbed sites.



Photo by Bradford S. Slaughter

[All Oak Openings Photos](#)

Landscape Context

Oak openings occurred in the southern Lower Peninsula primarily on level to rolling topography of glacial outwash plains and coarse-textured end moraines and occasionally on steep slopes of ice-contact features. They were most prevalent on the western side of major firebreaks such as rivers. Oak openings and associated dry-mesic prairie once occurred adjacent to more mesic communities, such as bur oak plains, mesic prairie, and wet-mesic prairie and also likely graded into oak barrens, a drier savanna type, as well as dry-mesic southern forest and dry southern forest. Historically, oak openings occurred in a complex, shifting mosaic of upland and wetland plant communities that depended on frequent fire for maintaining open and semi-open conditions.

Soils

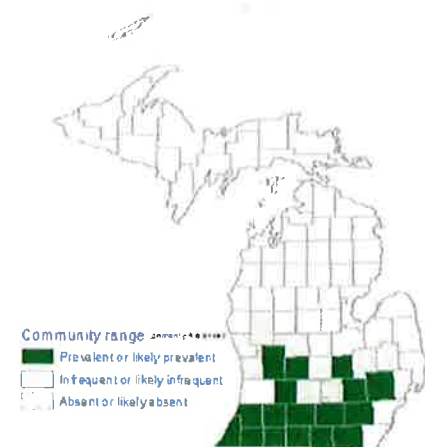
Soils of oak openings are well-drained, moderately fertile, sandy loams, or loams with slightly acid to neutral pH and low to moderate water-retaining capacity.

Rank

Global Rank: G1 - Critically imperiled

State Rank: S1 - Critically imperiled

County Distribution Map



[Ecoregion distribution map \(PDF\)](#)

[County distribution map \(PDF\)](#)

Natural Processes

Repeated low-intensity fires, working in concert with drought and windthrow, maintained open conditions in oak savanna ecosystems. Within dry-mesic savanna systems, such as oak openings, it is likely that annual or nearly annual fire disturbance was the primary abiotic factor influencing savanna structure and composition. Oak openings were found primarily on level to undulating topography, a landscape in which fires occurred frequently and spread rapidly and evenly. Fires prevented canopy closure and limited the dominance of woody vegetation. Oak savanna and prairie fires occur during the spring, late summer, and fall. Flammability peaks in the spring before grass and forb growth resumes and then again in the late summer and autumn after the above-ground biomass dies back.

Numerous biotic factors influence the patterning of vegetation of oak savannas. In addition to widely distributed overstory trees, savannas are characterized by scattered ant mounds. Mound-building ants play a crucial role in the soil development of prairies and savannas; ants mix and aerate the soil as they build tunnels and bring soil particles and nutrients to the topsoil from lower soil horizons. Herbivores can limit woody establishment and encroachment. With their flammable properties, grasses and forbs help maintain the annual fire regime. Open canopy conditions are also preserved by the development of dense herbaceous litter, which limits tree seedling establishment. Overstory trees influence vegetative composition by affecting the distribution of nutrients, light, and moisture.

Vegetation

Oak openings were described by Michigan settlers as park-like savannas of widely spaced mature oaks, with a wide range of shrub cover above the forb and graminoid ground layer. The broad-crowned, scattered oaks were typically of the same age cohort and the canopy layer generally varied from 10 to 60% cover. The canopy was dominated by white oak (*Quercus alba*) with codominants including bur oak (*Q. macrocarpa*) and chinquapin oak (*Q. muehlenbergii*). Important canopy associates included pignut hickory (*Carya glabra*), shagbark hickory (*C. ovata*), red oak (*Q. rubra*), and black oak (*Q. velutina*). Oaks, especially black oak, although widely dispersed in the oak openings, were limited to fire-suppressed grubs that often reached just over a meter tall. Scattered or clumped shrubs ranged from 0 to 50% cover depending on fire frequency. The most common shrubs were fire-tolerant species such as American hazelnut (*Corylus americana*), New Jersey tea (*Ceanothus americanus*), and leadplant (*Amorpha canescens*, state special concern). Shrubs such as gray dogwood (*Cornus foemina*), wild plum (*Prunus americana*), and smooth sumac (*Rhus glabra*) occasionally formed thickets in fire-protected microsites. Oak openings were characterized by a discontinuous layer of trees and shrubs and a continuous herbaceous layer. The flora of savannas were a mixture of prairie and forest species, with prairie forbs and grasses more abundant in open areas and forest forbs and woody species more common in shaded areas. Many of the species of oak savanna were, in fact, savanna specialists that thrived in the mottled light conditions provided by the scattered oak canopy. The ground layer of these systems was dominated by a diverse array of graminoids and forbs. Common grasses included big bluestem (*Andropogon gerardii*), little bluestem (*Schizachyrium scoparium*), and Indian grass (*Sorghastrum nutans*). Prevalent forbs included hog peanut (*Amphicarpaea bracteata*), thimbleweed (*Anemone cylindrica*), purple milkweed (*Asclepias purpurascens*, state threatened), butterfly-weed (*A. tuberosa*), false boneset (*Brickellia eupatorioides*, state special concern), prairie coreopsis (*Coreopsis palmata*, state threatened), showy tick-trefoil (*Desmodium canadense*), upland boneset (*Eupatorium sessilifolium*, state threatened), daisy fleabane (*Erigeron strigosus*), flowering spurge (*Euphorbia corollata*), northern bedstraw (*Galium boreale*), white gentian (*Gentiana alba*, state endangered), veiny pea (*Lathyrus venosus*), bush clovers (*Lespedeza capitata* and *L. hirta*), wild-bergamot (*Monarda fistulosa*), Virginia mountain mint (*Pycnanthemum virginianum*), black-eyed Susan (*Rudbeckia hirta*), starry campion (*Silene stellata*, state threatened), early goldenrod (*Solidago juncea*), smooth aster (*Symphyotrichum laeve*), frost aster (*S. pilosum*), yellow pimpernel (*Taenidia integerrima*), feverwort (*Triosteum perfoliatum*), Culver's root (*Veronicastrum virginicum*), and golden alexanders (*Zizia aurea*).

For information about plant species, visit the Michigan Flora website.

Plant Lists

Graminoids

big bluestem (*Andropogon gerardii*)
sedges (*Carex bicknellii*, *C. brevior*, *C. meadii*, and others)
panic grasses (*Dichanthelium* spp.)
porcupine grass (*Hesperostipa spartea*)
switch grass (*Panicum virgatum*)
little bluestem (*Schizachyrium scoparium*)
Indian grass (*Sorghastrum nutans*)

Forbs

hog-peanut (*Amphicarpaea bracteata*)
thimbleweed (*Anemone cylindrica*)
pussytoes (*Antennaria howellii* and *A. parlinii*)
spreading dogbane (*Apocynum androsaemifolium*)
pale Indian plantain (*Arnoglossum atriplicifolium*)
milkweeds (*Asclepias purpurascens*, *A. syriaca*, *A. tuberosa*, *A. verticillata*, and *A. viridiflora*)
white false indigo (*Baptisia lactea*)
false boneset (*Brickellia eupatorioides*)
bastard-toadflax (*Comandra umbellata*)
prairie coreopsis (*Coreopsis palmata*)
tall coreopsis (*Coreopsis tripteris*)
tick-trefoils (*Desmodium* spp.)
daisy fleabane (*Erigeron strigosus*)
upland boneset (*Eupatorium sessilifolium*)
flowering spurge (*Euphorbia corollata*)
wild strawberry (*Fragaria virginiana*)
American columbo (*Frasera carolinensis*)
northern bedstraw (*Galium boreale*)
white gentian (*Gentiana alba*)
wild geranium (*Geranium maculatum*)
woodland sunflower (*Helianthus divaricatus*)
western sunflower (*Helianthus occidentalis*)
pale-leaved sunflower (*Helianthus strumosus*)
veiny pea (*Lathyrus venosus*)
bush-clovers (*Lespedeza capitata*, *L. frutescens*, *L. hirta*, *L. violacea*, and *L. virginica*)
hoary puccoon (*Lithospermum canescens*)
wild lupine (*Lupinus perennis*)
false spikenard (*Maianthemum racemosum*)
wild-bergamot (*Monarda fistulosa*)
wood-betony (*Pedicularis canadensis*)
prairie phlox (*Phlox pilosa*)
Solomon-seal (*Polygonatum biflorum*)
common mountain mint (*Pycnanthemum virginianum*)
early buttercup (*Ranunculus fascicularis*)
yellow coneflower (*Ratibida pinnata*)
black-eyed Susan (*Rudbeckia hirta*)
starry campion (*Silene stellata*)
goldenrods (*Solidago caesia*, *S. juncea*, *S. nemoralis*, *S. rigida*, and *S. speciosa*)
asters (*Symphyotrichum laeve*, *S. oolentangiense*, and *S. pilosum*)
yellow pimpernel (*Taenidia integerrima*)
feverwort (*Triosteum perfoliatum*)
Culver's root (*Veronicastrum virginicum*)
American vetch (*Vicia americana*)
pale vetch (*Vicia caroliniana*)
golden alexanders (*Zizia aurea*)

Ferns

bracken fern (*Pteridium aquilinum*)

Woody Vines

Virginia creeper (*Parthenocissus quinquefolia*)
bristly greenbrier (*Smilax hispida*)
poison-ivy (*Toxicodendron radicans*)
summer grape (*Vitis aestivalis*)
riverbank grape (*Vitis riparia*)

Shrubs

leadplant (*Amorpha canescens*)
New Jersey tea (*Ceanothus americanus*)
gray dogwood (*Cornus foemina*)
American hazelnut (*Corylus americana*)
American plum (*Prunus americana*)
pasture rose (*Rosa carolina*)
northern dewberry (*Rubus flagellaris*)
sumacs (*Rhus copallina*, *R. glabra*, and *R. typhina*)
prairie willow (*Salix humilis*)

Trees

pignut hickory (*Carya glabra*)
shagbark hickory (*Carya ovata*)
white oak (*Quercus alba*)
bur oak (*Quercus macrocarpa*)
chinquapin oak (*Quercus muehlenbergii*)
dwarf chinquapin oak (*Quercus prinoides*)
red oak (*Quercus rubra*)
black oak (*Quercus velutina*)

Noteworthy Animals

Oak openings and surrounding prairie habitat once supported a rich diversity of invertebrates including numerous butterflies, skippers, grasshoppers, and locusts. Mound-building ants and numerous grassland birds also thrived in savannas and prairies. The fragmented and degraded status of Midwestern oak savannas and prairies has resulted in the drastic decline of numerous insect and bird species associated with savanna habitats and prairie/savanna host plants. The now extinct passenger pigeon (*Ectopistes migratorius*) was likely a keystone species in oak ecosystems, roosting in oaks by the thousands.

Rare Plants

Amorpha canescens (leadplant, state special concern)
Asclepias purpurascens (purple milkweed, state special concern)
Aster sericeus (western silvery aster, state threatened)
Baptisia lactea (white false indigo, state special concern)
Baptisia leucophaea (cream wild indigo, state endangered)
Bouteloua curtipendula (side-oats grama grass, state threatened)
Camassia scilloides (wild-hyacinth, state threatened)
Corydalis flavula (yellow fumewort, state threatened)
Dennstaedtia punctilobula (hay-scented fern, state threatened)
Eryngium yuccifolium (rattlesnake-master, state threatened)
Eupatorium sessilifolium (upland boneset, state threatened)
Euphorbia commutata (tinted spurge, state threatened)
Gentiana flavida (white gentian, state endangered)
Gentiana puberulenta (downy gentian, state endangered)
Geum triflorum (prairie-smoke, state threatened)
Helianthus microcephalus (small wood sunflower, presumed extirpated from Michigan)
Helianthus mollis (downy sunflower, state threatened)
Hieracium paniculatum (panicled hawkweed, state special concern)
Houstonia caerulea (blueets, state special concern)
Kuhnia eupatorioides (false boneset, state special concern)
Lactuca floridana (woodland lettuce, state threatened)
Lechea minor (least pinweed, state special concern)
Lechea stricta (erect pinweed, state special concern)
Linum sulcatum (furrowed flax, state special concern)
Onosmodium molle (marbleweed, presumed extirpated from Michigan)
Oxalis violacea (violet wood-sorrel, state threatened)
Panicum leibergii (Leiberg's panic-grass, state threatened)
Polytaenia nuttallii (prairie-parsley, presumed extirpated from Michigan)
Ranunculus rhomboideus (prairie buttercup, state threatened)
Rudbeckia subtomentosa (sweet coneflower, presumed extirpated from Michigan)
Ruellia humilis (hairy ruellia, state threatened)
Scutellaria elliptica (hairy skullcap, state special concern)
Silene stellata (starry campion, state threatened)
Sisyrinchium strictum (blue-eyed-grass, state special concern)
Sporobolus clandestinus (dropseed, state special concern)
Tomanthera auriculata (eared false foxglove, presumed extirpated from Michigan)
Trichostema dichotomum (bastard pennyroyal, state threatened)

Rare Animals

Accipiter cooperii (Cooper's hawk, state special concern)
Ammodramus henslowii (Henslow's sparrow, state threatened)
Ammodramus savannarum (grasshopper sparrow, state special concern)
Atrytonopsis hianna (dusted skipper, state threatened)
Catocala amestris (three-staff underwing, state endangered)
Clonophis kirtlandii (Kirtland's snake, state endangered)
Cryptotis parva (least shrew, state threatened)
Dendroica discolor (prairie warbler, state endangered)
Elaphe o. obsoleta (black rat snake, state special concern)
Erynnis p. persius (Persius duskywing, state threatened)
Hesperia ottoe (ottoe skipper, state threatened)
Incisalia henrici (Henry's elfin, state special concern)
Incisalia irus (frosted elfin, state threatened)
Lanius ludovicianus migrans (migrant loggerhead shrike, state endangered)
Lepyronia gibbosa (Great Plains spittlebug, state threatened)
Lycaeides melissa samuelis (Karner blue butterfly, federal endangered and state threatened)
Microtus ochrogaster (prairie vole, state endangered)
Myotis sodalis (Indiana bat, federal/state endangered)
Neoconocephalus ensiger (conehead grasshopper, state special concern)
Nicrophorus americanus (American burying water beetle, state endangered)
Oecanthus pini (pinetree cricket, state special concern)
Orphulella p. pelidna (barrens locust, state special concern)
Papaipema beeriana (Blazing star borer, state special concern)
Papaipema sciata (Culver's root borer, state special concern)
Prosapia ignipectus (red-legged spittlebug, state special concern)
Pygarctia spraguei (Sprague's pygarctia, state special concern)
Pyrgus centaureae wyandot (grizzled skipper, state special concern)
Schinia indiana (phlox moth, state endangered)
Schinia lucens (leadplant flower moth, state endangered)
Scudderia fasciata (pine katydid, state special concern)
Sistrurus c. catenatus (eastern massasauga, federal candidate species and state special concern)
Spartiniphaga inops (spartina moth, state special concern)
Speyeria idalia (regal fritillary, state endangered)
Terrapene c. carolina (eastern box turtle, state special concern)
Tympanuchus phasianellus (sharp-tailed grouse, state special concern)
Tyto alba (barn owl, state endangered)

Biodiversity Management Considerations

The prime conservation priority for this globally imperiled community is to survey for restorable remnants. The existence of oak savanna depends on active restoration; this is especially true for oak openings. If remnants of oak openings are located, the first management step will be the restoration of the oak savanna physiognomy through prescribed fire and/or selective cutting or girdling. The process of restoring the open canopy conditions and eliminating the understory should be conducted gradually, undertaken over the course of several years taking care to minimize colonization by invasive plants, which can respond rapidly to increased levels of light and soil disturbance. Fire is the single most significant factor in preserving oak-savanna landscapes. In addition to maintaining open canopy conditions, prescribed fire promotes internal vegetative patchiness and high levels of grass and forb diversity, and deters the encroachment of woody vegetation and invasive plants. Numerous studies have indicated that fire intervals of one to three years bolster graminoid dominance, increase overall grass and forb diversity, and remove woody cover of saplings and shrubs.

Savannas were among some of the first locations chosen for settlement by early Europeans. Many towns, college campuses, parks, and cemeteries of the Midwest were established on former oak savanna. Early settlers of Michigan utilized oak openings for growing crops, pasturing livestock, and harvesting timber for fuel and building supplies. Alteration of historic fire regimes quickly shifted most oak savannas to closed-canopy oak forests. Oak savanna remnants are often depauperate in floristic diversity due to past disturbances and colonization by invasive species, many of which are shrubs that create dense shade and suppress or eliminate the graminoid species needed to carry fire.

Monitoring and control efforts to detect and remove invasive species are critical to the success of restoration projects. Invasive species that threaten the diversity and community structure of oak openings include spotted knapweed (*Centaurea stoebe*), common St. John's-wort (*Hypericum perforatum*), black swallow-wort (*Vincetoxicum nigrum*), white swallow-wort (*V. rossicum*), Kentucky bluegrass (*Poa pratensis*), Canada bluegrass (*P. compressa*), ox-eye daisy (*Leucanthemum vulgare*), hawkweeds (*Hieracium* spp.), sheep sorrel (*Rumex acetosella*), bouncing bet (*Saponaria officinalis*), hoary alyssum (*Berteroa incana*), Oriental bittersweet (*Celastrus orbiculatus*), common buckthorn (*Rhamnus cathartica*), autumn olive (*Elaeagnus umbellata*), Eurasian honeysuckles (especially *Lonicera morrowii*, *L. tatarica*, and *L. xbella*), and multiflora rose (*Rosa multiflora*).

Variation

The character of oak savanna ecosystems can differ dramatically, primarily as the result of varying fire intensity and fire frequency, which are influenced by site factors such as climatic conditions, soil texture, topography, size of physiographic and vegetative units, and landscape context (e.g., proximity to water bodies). Infrequent, high-intensity fires kill mature oaks and produce savannas covered by abundant scrubby oak sprouts. Park-like openings with widely spaced trees and a graminoid- and forb-dominated ground layer are maintained by frequent, low-intensity fires that occur often enough to restrict maturation of oak grubs and encroachment by other woody species.

Similar Natural Communities

Bur oak plains, dry-mesic southern forest, lakeplain oak openings, mesic prairie, oak barrens, oak-pine barrens, and dry-mesic prairie.

Places to Visit

No remaining sites occur on lands accessible to the public. However, readers may be able to find remnants of oak openings along railroad tracks and adjacent to cemeteries in southwestern Michigan.

Relevant Literature

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- Cohen, J.G. 2004. Natural community abstract for oak openings. Michigan Natural Features Inventory, Lansing, MI. 13 pp.
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For a full list of references used to create this description, please refer to the [natural community abstract](#) for Oak Openings.

More Information

[Oak Openings abstract](#)

Citation

- Cohen, J.G., M.A. Kost, B.S. Slaughter, D.A. Albert, J.M. Lincoln, A.P. Kortenhoven, C.M. Wilton, H.D. Enander, and K.M. Korroch. 2020. Michigan Natural Community Classification [web application]. Michigan Natural Features Inventory, Michigan State University Extension, Lansing, Michigan. Available <https://mnfi.anr.msu.edu/communities/classification>. (Accessed: May 11, 2021).
- Kost, M.A., D.A. Albert, J.G. Cohen, B.S. Slaughter, R.K. Schillo, C.R. Weber, and K.A. Chapman. 2007. [Natural Communities of Michigan: Classification and Description](#). Michigan Natural Features Inventory, Report No. 2007-21, Lansing, MI.



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Thornapple Township Barry County fair booth Costs		
Item	Cost Each	Total Cost
Booth Rental	\$148.00	\$148.00
Set up Costs for Logo	\$114.00	\$114.00
Printed Logo Koozie Cups	\$0.45	\$450.00
Water	\$0.08	\$76.67
Ice	\$5.00	\$30.00
		Total for Fair
		\$818.67

Duncan Lake Sewer Authority 2021 Rate Study

progressive|ae



Duncan Lake Sewer Authority 2021 Sanitary Sewer Rate Study

June 2, 2021

Thornapple Township

PO Box 459

Middleville, MI 4933

Subject: Duncan Lake Sewer Authority 2021 Sewer Rate Study

Dear Duncan Lake Sewer Authority,

It is our pleasure to provide you this analysis of your sewer fund and the review of the rate structure. A rate study is not a historical document, it is a working document, which should be used as a reference for budget and finance decision-making. To this end, Progressive AE is available to discuss the study at any point in the future.

Rates and charges must reflect the customer base being served. As such, the rate study found in these pages is unique to your community. The ultimate goal of every rate study is to develop a rate structure and revenue support system that meets the needs of operations, maintenance, and capital improvement and at the same time is as economical and equitable to the customers as possible, this is referred to as a "cost of service" analysis. I believe you will find the observations and recommendations meet your needs and reflect your customer base.

By acceptance of this study Thornapple Township and the Duncan Lake Sewer Authority understand and accept the responsibility and liability for potential challenges to the rate structure and management of the funds. Rate studies, while often based on various methods, industry guidelines, do not follow a clear standard as does, for example, a CPA in producing an audit according to Generally Accepted Accounting Principles. Furthermore, state law and case law do not provide any reasonable or comprehensive guidance regarding methodology, rate structure or management of fund balances. Progressive AE is reliant upon Township officials, and other sources, who have access to relevant data to provide accurate information. The Township accepts that fund management and rate adjustment recommendations are inherently subject to estimations and projections and, as such, no assurance is provided regarding the actual performance of the funds over time. The Township is advised to seek legal counsel regarding the implementation of any recommendations and their liability implications.

As always, it was a pleasure serving you and do not hesitate to call if you wish to further discuss our findings.

Sincerely,



Tim Bradshaw, PE

Municipal Practice Leader

Progressive AE

Executive Summary

It is recommended that the quarterly sewer service fee be increased 9% to \$256 as detailed in the calculations in the report. Further, it is recommended a connection fee be instated to cover reimbursement of forecasted capital expenses of increased treatment capacity in the amount of \$11,000. Additional rate options are provided in the report to raise additional funds for planned capital improvements and the Board should carefully consider options in arriving at a decision for the sewer system.

Objective

To identify the revenue support and fund management needed to fulfill the Duncan Lake Sewer Authority's operations & maintenance and forecasted capital improvements to the system while maintaining adequate cash reserves to be able to respond to unforeseen circumstances.

Information and Assumptions

The Duncan Lake Sewer Authority via Thornapple Township has provided important system related information informing the rate study calculations.

The sewer system revenue for fiscal year 19/20 was \$134,420. There are currently 143 customers contributing to the system. Each customer pays \$235 per quarter for sewer services. The current system connection fee is \$25,000 and was recently raised from \$8,400. Capital expenses of \$417,500 are forecasted in the upcoming fiscal year to add 30 REU capacity from 150 to 180 and improve effluent quality. The existing sanitary sewer fund balance is \$188,300 and the system has no outstanding debt. The depreciation schedule for the existing assets has been \$20,837 annually since 2011. However, the depreciation has not been included in the rate structure.

Assumptions - Rates should not only cover the system costs, but also support future system maintenance, capital improvements, and debt service payments. Other projected revenue will remain generally consistent year to year. The Township has assumed 1 connection at the current rate of \$25,000 will occur in the upcoming fiscal year. This assumption was not changed in the calculations despite a recommendation the connection fee be lowered to \$11,000. If 2 connections are made instead of 1 at the reduced rate, it almost covers the difference and predicting a number of connections accurately is difficult.

The Basis of Design for the wastewater collection and treatment facility for the Duncan Lake System created in 1990 assumed an average of 200 gallons per day per dwelling setting the basis for measurement of the residential equivalent unit commonly referred to as a REU. Any user creating average flows above 200 gallons per day should be charged for additional corresponding treatment fees and the remaining treatment capacity left should also be reduced accordingly. These circumstances are expected to be rare if not non-existent with single family homes making up the sewer district.

A sewer budget document dated 5/18/21 and labeled Exhibit A is incorporated as an informational reference to this report. Note, budget amendments are planned corresponding to \$30,000 in engineering fees added related to the sewer lagoon system, and increasing the operating contract to \$13,000 to correct a data entry error in accordance with markups in the document. Finally, we understand the true cash balance of the sewer fund is approximately \$188,300; not the larger value listed in the document which includes the existing value of the system assets.

Duncan Lake Sewer Authority 2021 Sanitary Sewer Rate Study

Rate Calculations

Current Revenues:

Quarterly User Charge

$$143 \text{ users} \times \$235 \times 4 = \$134,420$$

$$\text{Other Projected Revenue} = \underline{\$25,550}$$

$$\text{Total projected revenue FY 21/22} = \$159,970$$

Projected 21/22 system revenue requirement covering operations, maintenance, depreciation, and general expenses: \$174,400.

$$\text{Additional revenue required} = \$174,400 - \$159,970 = \$14,430 \text{ or } 9.0\% \text{ increase to quarterly fee}$$

$$\text{New quarterly fee} = \$235 \times 9.0\% \text{ increase} = \$256$$

Alternative Rate Calculation factoring in planned Capital Improvements to have cash on hand to pay for improvements. In order to have adequate cash on hand to address a potential emergency, the alternative calculation assumes a minimum of \$100,000 should remain in the sewer fund to allow for emergency expenses. Thereby, only \$88,300 of the \$188,300 fund balance is indicated as a capital contribution in the calculation below.

Current Revenues:

Quarterly User Charge

$$143 \text{ users} \times \$256 \times 4 = \$146,430$$

$$\text{Other Projected Revenue} = \$25,550$$

$$\text{Existing Fund Balance Contribution} = \underline{\$88,300}$$

$$\text{Total projected capital available FY 21/22} = \$260,280$$

Projected 21/22 system revenue requirement covering estimated future capital costs, operations, maintenance, depreciation, and general expenses: \$387,500 (capital) + \$174,400 (all other costs) = \$561,900.

$$\text{Additional revenue required} = \$561,900 - \$260,280 = \$301,620$$

$$\text{Additional quarterly fee for existing users} = \$301,620/143 = \$2,109/\text{yr} = \$527/\text{quarter}$$

$$\text{Total quarterly fee} = \$256 + \$527 = \$783$$

This is a significant 1-year increase to the existing customers, and the Township may have difficulty collecting from sewer users with such a large change. Due to insufficient existing sewer funds to pay for the planned capital improvements, this is a short-term growth funding strategy. The following year, the rates should drop back close to the previous \$235/quarter fee. As new connections continue to come online, it will annually decrease the revenue required from existing customers and also replenish the sewer fund.

Duncan Lake Sewer Authority 2021 Sanitary Sewer Rate Study

Alternative funding options to provide the funding for the capital improvements include private funding, issuing bonds to cover the cost, or delaying the project 1 year or more to spread the cost of the project over more years to lower the sewer rate. For example, assuming all operations and maintenance costs remained constant for next year, spreading the capital improvement cost and existing fund balance contribution over 2 years instead of 1 would create a quarterly rate of approximately **\$518**. The table below continues spreading the capital cost increase over additional years up to 5 for further understanding of approximate rates with all other O&M costs remaining steady.

Years	Capital Needed	Existing Fund Balance Contribution	Additional Quarterly Capital Rate	Recommended Quarterly O&M Rate	Total Quarterly Rate	% Increase Over Recommended \$256/Quarter
1	\$ 387,500.00	\$88,300.00	\$ 527.00	\$ 256	\$ 783	206%
2	\$ 193,750.00	\$44,150.00	\$ 261.54	\$ 256	\$ 518	102%
3	\$ 129,166.67	\$29,433.33	\$ 174.36	\$ 256	\$ 430	68%
4	\$ 96,875.00	\$22,075.00	\$ 130.77	\$ 256	\$ 387	51%
5	\$ 77,500.00	\$17,660.00	\$ 104.62	\$ 256	\$ 361	41%

Bonds Alternative

The Township could consider issuing bonds to cover the cost of the planned capital improvements. In our experience municipal bonds usually require a minimum of a 10-year term, but other options may exist. If the Township desires to pursue the bond option, it should work with its attorney to draft a formal process. The assumptions listed below are intended to be conservative and only for conversation purposes to better understand the options that bonds could present if pursued to fund the desired capital improvements.

It is assumed that after attorney fees, bond fees, engineering, and construction costs, the Township might need approximately \$450,000 in bond proceeds to fund the desired improvements with a fallback of a small existing sewer reserve fund. It is also conservatively assumed that if bonds were issued a rate of 5% could be achieved. The bond market is strong, and likely an even lower interest rate might be achieved. Conservatively at the 5% rate, the Township would need to raise approximately \$60,000 annually to pay the bonds back over a 10-year period totaling \$600,000 in total project costs after factoring in interest.

A \$60,000 increase as compared to the approximately \$140,000 annual appropriations needed to currently operate and maintain the system without capital improvements is a 43% rate increase.

The greatest positive of the bonding option is that the cash needed for the capital improvements quickly becomes available – allowing the needed repairs and improvements to be made as planned. Additionally, by spreading the cost of the bonds over a longer period, the costs are most likely to be borne by users actually benefitting from the improvements.

The most significant negative of the bonding option is that borrowing causes interest and additional fees to the system in order to issue them. In order to issue the bonds, the Township may want to consider a special assessment district for the properties served by the Duncan Lake Sewer System in order to have a formal payback arrangement. Thornapple Township should consult with their attorney for bonding advice.

USDA Rural Development Loan and Grant Program

The USDA Rural Development Program provides funding for clean and reliable sanitary sewage disposal in eligible rural areas. The program assists qualified applicants who are not otherwise able to obtain commercial credit on reasonable terms. Most local government entities are eligible. In the 2nd quarter of

Duncan Lake Sewer Authority 2021 Sanitary Sewer Rate Study

FY21, the market rate for the loan was 2.25%. This could be another option besides municipal bonds the Township may desire to pursue.

Connection Charges

Connection charges are intended to provide equity buy-in to systems that have been supported by an existing customer base. It is common policy for utility systems to recover directly from the customer the cost of making a connection to the existing system with a sewer lateral. System development charges assign the capacity cost of growth, at least in part, to those causing the growth rather than existing customers. Objectives may include having new development entirely pay its own way, fund major system expansion, fund relevant portions of capital improvements, recover capital costs, or maintain appropriate level of retained cash reserves.

There are two basic methods for calculating system development charges; the system buy-in method and the incremental cost method. The financial goal is to achieve a level of equity from new customers by collecting a system development charge representative of the average equity attributable to existing customers. The incremental cost method is based on the concept of new development paying for the incremental cost of system capacity needed to serve a new development. This approach proposes to mitigate the cost impact of new growth on existing customer's user rates. The goal is to charge a fee for new customers sufficient to allow customer user rates to be revenue neutral with respect to the growth of the system. In systems undergoing rapid and expensive growth, it can be difficult to accurately achieve.

A key component of developing a system buy-in method is determining system equity. The major components include the valuation of system assets, accumulated depreciation, system liabilities, and system capacity. One measure of the valuation of the system assets is the original value of the total system less accumulated depreciation. This valuation may be adjusted to recognize the cost of reproducing or replacing assets.

The incremental cost method assigns to new development the incremental cost of system expansion needed to serve the new development which includes various factors, including the period of growth, growth rates, type of growth, capacity associated with the various improvements needed to serve the projected growth, and cost of the improvements.

In the case of the Duncan Lake Sewer Authority, it is recommended the incremental cost method is pursued according to the assumptions and calculations listed below. The incremental cost method is fair to existing customers by lowering their annual fees and replenishing the sewer fund via the connection fees and pays back their previous capital investment via previously higher rates. It is also fair to new users connecting to the system by paying their incremental share of the overall capital expansion cost to repay the existing users on the system who made the initial investment.

It is recommended the connection fee be paid purely as a right to connect to the sewer system. Should the Duncan Lake Sewer Authority desire to collect a fee for the cost of materials and labor to install the physical connection to the system (often called a tap fee) should be charged the true cost to the new customer.

Please note these costs and the ability to charge them need to be reviewed by your local counsel to make sure that your ordinance includes the ability to charge these fees.

Capital Expenses Providing Additional Sewer Capacity

We understand the Township plans to increase capacity and provide maintenance to the existing sewer treatment system for an estimated cost of \$417,500 including engineering fees (note \$30,000 of the engineering fees are included in the proposed 21/22 budget). Of these fees, approximately 75% of the cost (\$307,000) relates to capital improvements increasing future capacity of the system by 30 additional REUs in addition to the 7 that remain from the original 1990 design. To cover the capital improvements proposed that benefit only the future users, the capital expenses should be reimbursed to the system via a connection fee.

The existing system value should also be considered when considering connection fees. Township records indicate the remaining undepreciated value of the sewer system is \$907,906 (total value) - \$533,056 (depreciation) = \$374,850 (current system value). The remaining system value should be shared by all users including new users who connect to the system. Since the capital improvements will increase the system capacity by 30 for a total of 37 remaining REUs, it is suggested the connection fee also include costs to buy into the existing system as shown below.

Total remaining existing system value = \$374,850,

Planned maintenance costs to existing system = \$110,500

Estimated Value per REU after expansion = $\$374,850 + \$110,500 / 180 = \$2,696/\text{REU} = \mathbf{\$2,700}$ Rounded

Capital Expense for Expansion = \$307,000

Future User Capacity = 37 REU

Capital Expense spread over future users = $\$307,000 / 37 \text{ REU} = \mathbf{\$8,300}$

Suggested Connection Fee for 21/22 = $\$8,300 + \$2,700 = \mathbf{\$11,000}$

The connection fee should be increased annually to account for inflation by 2%.

The calculations above are based upon engineering estimates for the capital improvements. Once the improvements are constructed, the calculation should be completed again, and the actual cost should be spread among remaining future user capacity which will likely result in slight alterations to the fee.

Future capital improvement plans beyond 2022 were not provided by the Township and it was assumed there are no future projects planned at this time after 2022. After capital improvements are added to the system, depreciation should be revisited based on the new system value and added into the annual budget as an expense to rebuild the sewer fund balance. The existing depreciation of \$20,836 annually will need to be recalculated and increased. Adding depreciation as an expense to all users in tandem with the recommended connection fee reimbursements should supply the sewer system adequate funds for future projects.

We understand the existing connection fee was recently raised to \$25,000. Based on the calculations and assumptions above, we recommend lowering the connection fee to **\$11,000**. This should repay the system for the expansion costs as connections continue to develop. By lowering the cost of connection, it is more likely the costs will be recouped by the sewer system in a timely manner by lowering the barrier to entry of joining into the sewer system.

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BUDGET REPORT FOR THORNAPPLE TOWNSHIP
Fund: 804 SEWER O & M FUND

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THORNAPPLE TOWNSHIP FY1920 BUDGET
Calculations as of 03/31/2021

Exhibit A

GL NUMBER	DESCRIPTION	2020-21 AMENDED BUDGET	2020-21 ACTIVITY THRU 03/31/21	2021-22 REQUESTED BUDGET
Dept 000				
804-000-626.000	CHARGE FOR SERVICES	135,000.00	131,650.00	135,000.00
804-000-626.300	MISC EQUIP/INSTALL FEES-SEWER	25,000.00	8,400.00	25,000.00
804-000-665.000	EARNED INTEREST	100.00	86.36	50.00
804-000-669.000	PENALTY/INTEREST ON LATE PYMTS	500.00	290.00	500.00
Revenue				
804-000-702.000	SAL / OPER CONTRACT	13,000.00	12,990.00	13,000.00
804-000-702.100	OTHER WAGES	200.00	135.00	200.00
804-000-715.000	FICA/MEDICARE CONTRIBUTION	25.00	10.32	25.00
804-000-719.000	PENSION PLAN	25.00		25.00
804-000-740.000	OFFICE/OPERATING SUPPLIES	600.00	193.17	500.00
804-000-740.100	OPERATING SUPPLIES-PUMPS/EQUIPMNT	12,500.00	5,856.48	12,500.00
804-000-740.200	OPERATING SUPPLIES-SEPTIC COMPT	4,500.00		2,000.00
804-000-743.000	LAB EXPENSE	6,500.00	5,345.06	6,500.00
804-000-803.000	AUDIT EXPENSE	1,000.00	900.00	1,000.00
804-000-808.000	PROFESSIONAL SERVICES-ALUM/PHOSPH	15,000.00	13,268.00	16,000.00
804-000-808.100	PROF SERVICES/COLLECTION SYSTEM M	30,000.00	30,725.00	30,000.00
804-000-808.200	COLLECTION SYSTEM-PUMPING TANKS	30,000.00	33,750.00	35,000.00
804-000-808.300	COLLECTION SYSTEM-ELECTRICAL	3,000.00	2,714.00	3,150.00
804-000-808.400	PROF SERV LAGOON ENGINEERING		9,487.80	\$30,000
804-000-826.000	LEGAL FEES	2,000.00		2,000.00
804-000-910.000	INSURANCE AND BONDS	2,000.00	862.86	2,000.00
804-000-920.000	UTILITIES	4,500.00	5,407.76	5,500.00
804-000-930.000	REPAIR & MAINT-GENERAL	5,000.00	9,338.60	5,500.00
804-000-930.100	REPAIR & MAINT-WC/DUCK WEED/PLM	3,500.00	1,772.00	2,500.00
804-000-931.000	REPAIR & MAINT-BLDG/GROUNDS/MOWING	7,500.00	1,333.18	5,500.00
804-000-956.000	ANNUAL FEES MISC	1,900.00	622.42	1,500.00
NET OF REVENUES/APPROPRIATIONS - 000 -		17,850.00	5,714.71	27,850.00
ESTIMATED REVENUES - FUND 804		160,600.00	140,426.36	160,550.00
APPROPRIATIONS - FUND 804		142,750.00	134,711.65	174,400
NET OF REVENUES/APPROPRIATIONS - FUND 804		17,850.00	5,714.71	-14,430
BEGINNING FUND BALANCE		638,522.99	638,522.99	
ENDING FUND BALANCE		656,372.99	\$188,300	
ESTIMATED REVENUES - ALL FUNDS		2,623,573.42	2,565,818.93	2,582,649.00
APPROPRIATIONS - ALL FUNDS		2,647,631.03	2,647,394.65	2,902,892.95
NET OF REVENUES/APPROPRIATIONS - ALL FUNDS		(24,057.61)	(81,575.72)	(310,243.95)
BEGINNING FUND BALANCE - ALL FUNDS		3,911,824.30	3,911,824.30	3,830,248.58
ENDING FUND BALANCE - ALL FUNDS		3,887,766.69	3,830,248.58	3,520,004.63

Twp Treasurer
confirmed true fund
balance is \$188,300