

HOWELL TOWNSHIP BOARD MEETING  
3525 Byron Road  
Howell, MI 48855  
July 10, 2017  
6:30 P.M.

1. Call to Order.
2. Roll Call:      Mike Coddington      ( )                      Dar Howard      ( )  
                         Jean Graham              ( )                      Carolyn Eaton      ( )  
                         Jonathan Hohenstein      ( )                      Harold Melton      ( )  
                         Matthew Counts              ( )
3. Pledge of Allegiance:
4. Call to the Board:
5. Approval of the Minutes:  
    A. May 8, 2017 Budget Meeting  
    B. Regular Board Meeting, June 12, 2017
6. Correspondence:
7. Call to the Public:
8. Unfinished Business:  
    A. Kennel Ordinance – Board Input  
    B. Human Resource
9. New Business:  
    A. Budget Amendment (Road Improvement)  
    B. Approve Livingston County Hazard Mitigation Plan Resolution
10. Reports:  
    A. Supervisor    B. Treasurer      C. Clerk              D Zoning  
    E. Assessing    F. Fire Authority    G. MHOG              H. Planning Commission  
    I. Z B A          J. Website          K. WWTP              L. HAPRA
11. Call to the Public
12. Closed Session:
13. Disbursements: Regular and Check Register
14. Adjournment:

# AGENDA ITEM

5A

**HOWELL TOWNSHIP BOARD MEETING  
2017/2018 BUDGET MEETING  
MINUTES**

Howell Township Hall  
May 8, 2017  
6:00. p.m.

**MEMBERS PRESENT:**

Mike Coddington      Supervisor  
Jonathan Hohenstein    Treasurer  
Matthew Counts        Trustee  
Carolyn Eaton         Trustee  
Dar Howard             Trustee  
Harold Melton         Trustee

**MEMBERS ABSENT:**

Jean Graham            Clerk

Also present: Deputy Supervisor, Brent Kilpela

Supervisor Coddington called the meeting to order at 6:00 p.m. The roll was called.

**PUBLIC HEARING:**

2017/2018 BUDGET – **MOTION** by Hohenstein, seconded by Howard, **“TO OPEN THE PUBLIC HEARING FOR THE 2017/2018 HOWELL TOWNSHIP BUDGET.”** Motion carried. The hearing opened at 6:01 p.m. Deputy Supervisor Kilpela went over the proposed budget revenues, appropriations and funds. He explained the amended budget, the activity in each category, the proposed budget and the proposed percentage change. Discussion followed and Kilpela answered questions from the Board.

**CALL TO THE PUBLIC:**

No response.

**BUDGET COMMITTEE RECOMMENDATION:**

Supervisor Coddington stated that it was the Budget Committee's Recommendation to accept the 2017/2018 Howell Township Budget as presented.

**ADJOURNMENT:**

**MOTION** by Howard, seconded by Hohenstein, **“TO ADJOURN.”** Motion carried. The meeting adjourned 6:18 p.m.

**APPROVED:**

As Presented: \_\_\_\_\_

As Amended: \_\_\_\_\_

As Corrected: \_\_\_\_\_

Dated: \_\_\_\_\_

\_\_\_\_\_  
Jean Graham  
Howell Township Clerk

\_\_\_\_\_  
Mike Coddington  
Howell Township Supervisor

\_\_\_\_\_  
Debby Johnson,  
Howell Township Recording Secretary

# AGENDA ITEM

5B

HOWELL TOWNSHIP BOARD REGULAR MEETING  
MINUTES

Howell Township Hall  
June 12, 2017  
6:30. p.m.

**MEMBERS PRESENT:**

Mike Coddington Supervisor  
Jean Graham Clerk  
Jonathan Hohenstein Treasurer  
Matthew Counts Trustee  
Carolyn Eaton Trustee  
Dar Howard Trustee  
Harold Melton Trustee

**MEMBERS ABSENT:**

Supervisor Coddington called the meeting to order at 6:30 p.m. The roll was called. All rose for the Pledge of Allegiance.

**APPROVAL OF THE AGENDA:**

**MOTION** by Counts, seconded by Howard, **"TO APPROVE THE JUNE 8, 2017 AGENDA AS AMENDED: REMOVE ITEM 12, CLOSED SESSION."** Motion carried.

**APPROVAL OF MINUTES:**

**MOTION** by Hohenstein, seconded by Howard, **"TO APPROVE THE MAY 8, 2017 REGULAR MEETING MINUTES AS CORRECTED: UNDER ITEM D, KENNELS - CHANGE THE WORD IN-SITE TO INSIGHT, UNDER NEW BUSINESS D LIFTING FRAME, CHANGE THE WORD USEABLE TO PURPOSE, AND CHANGE THE WORD SECONDED TO SECOND, UNDER REPORTS, FIRE AUTHORITY, ADD THE WORD TO."** Motion carried. (See May 8, 2017 Meeting Minutes)

**CORRESPONDENCE:**

See List.

**CALL TO THE PUBLIC:**

47<sup>th</sup> District State Representative Hank Vaupel gave an update as to what is happening at the State Level. He reported that the budget is being worked on, along with auto insurance no fault legislations. Will be breaking soon for in district work but the office will still be open for questions.

**UNFINISHED BUSINESS:**

- A. HAPRA, ARTICLES OF INCORPORATION – Paul Rogers from the Howell Area Parks & Recreation Authority presented the 4<sup>th</sup> amended "Articles of Incorporation" for HAPRA. Howell Township and some of the other entities had several issues they wanted changed. Mr. Rogers addressed those issues and the changes that were made to the text. The final draft was approved by the HAPRA Board at their May Meeting. Supervisor Coddington took questions from the Board. **MOTION** by Hohenstein, seconded by Graham, **"TO ACCEPT THE FINAL DRAFT OF THE 'ARTICLES OF INCORPORATION' FOR HAPRA AS PRESENTED."** Discussion followed. A roll-call vote was taken: Hohenstein – yes, Counts – yes, Eaton – yes, Howard – no, Graham – yes, Coddington – yes, Melton – no. Motion carried 5 to 2. (Articles of Incorporation will take effect July 1, 2017. For full text, see "Articles of Incorporation", HAPRA.)

**NEW BUSINESS:**

- A. SEVERN TRENT ASSET ANALYSIS REPORT: Jerry Livernois from Severn Trent presented the May 2017, "Wastewater Infrastructure Asset Analysis Report". The report names every piece of equipment

at the near 20 year old Howell Township Wastewater Treatment Plant. Each piece was examined to find out: 1) equipment cost 2) installation cost 3) replacement cost 4) year it was acquired 5) expected years of useful life 6) the criticality of the piece for operations 7) the condition of the piece 8) how well it performs the function that it is supposed to do 9) then a value is assigned to it showing a percentage of what is at risk. It also showed the top 10 items that are in need of repair or replacement. The plan should be re-evaluated every 10 years. The Board is pleased with the report but would like it also to be put into some type of spreadsheet for future use to show the updates and changes.

- B. TRANS WEST LIFT STATION – Treasurer Hohenstein stated the Howell Township Board previously approved to re-do the Trans West Lift Station. In the process, it was discovered there are no by-pass valves in place thus not allowing the change of pumps. There are two solutions: 1) to put the by-pass in or 2) to rent the pumps. Plant Manager, Livernois, explained the difference between the two solutions. Supervisor Coddington took questions from the Board. **MOTION** by Howard, seconded by Graham, **“TO APPROVE THE LEASE OPTION FOR THE TRANS WEST LIFT STATION AS PRESENTED IN THE AMOUNT NOT TO EXCEED \$125,000.00.”** Discussion followed. Motion carried.

Air Conditioner - Plant Manager, Livernois explained the need to replace the air conditioner for Oak Grove #5 Lift Station. Received bid from Ice Qube, Inc for \$2,286.00. **MOTION** by Howard, seconded by Hohenstein, **“TO PURCHASE, BUT NOT TO EXCEED \$2,500.00, THE UPGRADE OF THE AIR CONDITIONER, FOR THE OAK GROVE #5 LIFT STATION.”** Discussion followed. Motion carried.

Construction a lifting frame – Plant Manager, Livernois explained the need to construct a lifting frame for the Micro Strainer. **MOTION** by Howard, seconded by Hohenstein, **“TO PURCHASE THE GANTRY CRANE FOR \$1,565.88 FROM TEFT WELDING AND FABRICATING.”** Discussion followed. Motion carried.

Wastewater Treatment Plant painting project - Discussion took place on the painting that is needed at the Wastewater Treatment Plant. The bids are old. It was the consensus to have those bids resubmitted and to also inquire what the off season prices are.

Pontoon boat – Plant Manager Livernois explained the difference between the quotes that have been submitted. One quote is to modify the existing boat. The 2<sup>nd</sup> quote is to build one from scratch. Discussion took place about the pontoon having wheels. **MOTION** by Howard, seconded by Melton, **“TO MODIFY THE EXISTING PONTOON, NOT TO EXCEED \$3,300.00 FROM TEFT WELDING AND FABRICATING.”** Further discussion took place. Motion carried 6 to 1.

- C. PROPOSAL FOR MAINTENANCE OF PARKING LOT – Treasurer Hohenstein stated that the parking lot is starting to get several cracks. The cracks are minimal but want to fix them before they get worse. The Township has received 3 bids. Treasurer Hohenstein explained the difference in pricing by the cost per foot and what would be used to fill the cracks. **MOTION** by Eaton, seconded by Hohenstein, **“TO GO WITH ALAN’S ASPHALT MAINTENANCE, INC. FOR \$418.00 TO FILL THE TOWNSHIP PARKING LOT CRACKS.”** Discussion followed. Motion carried.
- D. BS&A, BUILDING DEPARTMENT NET PROGRAM FOR ZONING – Treasurer Hohenstein explained we currently do not have a BS&A Program for the Zoning and Building. Zoning Administrator Daus is requesting the BS&A Program. He explained he would be able to link everything together and it will be easier for needed reports. There is money in the budget that is collected from permit and site plan

review fees. **MOTION** by Graham, seconded by Howard, **“TO ACCEPT PURCHASE FOR THE BS&A ZONING AND BUILDING PROGRAM FOR \$14,495.00.”** Discussion followed. Motion carried.

- E. MTA HOWELL TOWNSHIP PRINCIPLES OF GOVERNANCE – MTA Michigan Township sent a mission statement encouraging every township board to adopt the Principles of Governance as an official policy. It is a statement of principles or code of conduct. **MOTION** by Eaton, seconded by Melton, **“TO SIGN THE PRINCIPLES OF GOVERNANCE FOR HOWELL TOWNSHIP.”** Discussion followed. Motion carried.
- F. PAY RAISES FOR OFFICE STAFF – Clerk Graham explained the percentage raise spreadsheet that the Human Resource Committee put together along with their recommendation. Trustee Eaton explained that when the Deputy Clerk become full time it was when money was tight. She did not get the raise for the new position only that she got the more hours. She did not receive the same raise as the others. Trustee Eaton would like this to be addressed at this time. **MOTION** by Eaton, seconded by Melton, **“TO RECOMMEND .25 AN HOUR INCREASE FOR DEPUTY CLERK JOHNSON AND A 2% INCREASE FOR OFFICE STAFF: BRENT KILPELA, JOE DAUS, JANE ALEXANDER, DEBBY JOHNSON, CAROL MAKUSHIK AND THE SPLIT ACCOUNTING CLERK POSITIONS KILPELA AND GRAHAM.”** Discussion followed. Motion carried.

Deputy Clerk Johnson who is a full time employee did not take the Health Insurance Plan when it was offered because that plan did not benefit her. She is requesting that she receive, in lieu of the insurance, a stipend for health cost. Discussion followed. It was the consensus that this be brought back to the board after looking at what other townships are paying for in lieu of insurance for their employees.

- G. RESOLUTION TO ESTABLISH TOWNSHIP OFFIERS SALARY – Treasurer Hohenstein stated that in 2008 when the economy was bad the Township Board took a large cut in pay. Things are getting better and believes it is time to start raising that back up. **MOTION** by Hohenstein, seconded by Eaton, **“TO ACCEPT RESOLUTION #06.17.429 TO ESTABLISH TOWNSHIP OFFICER YEARLY SALARY FOR THE SUPERVISOR AT \$30,000.00.”** Discussion followed. A roll-call vote was taken: Eaton – yes, Hohenstein – yes, Howard – yes, Melton – yes, Coddington – no, Graham – yes, Counts – yes. Motion carried 6 to 1. **MOTION** by Eaton, seconded by Graham, **“TO ACCEPT RESOLUTION #06.17.430 TO ESTABLISH TOWNSHIP OFFICER YEARLY SALARY FOR THE TREASURER AT \$30,000.00.”** Discussion followed. A roll-call vote was taken: Coddington – yes, Howard – yes, Graham – yes, Counts – yes, Melton – yes, Hohenstein – yes, Eaton – yes. Motion carried 7 to 0. **MOTION** by Hohenstein, seconded by Eaton, **“TO ACCEPT RESOLUTION #06.17.431 TO ESTABLISH TOWNSHIP OFFICER YEARLY SALARY FOR THE CLERK AT \$30,000.00.”** Discussion followed. A roll-call vote was taken: Howard – yes, Melton – yes, Hohenstein – yes, Graham – yes, Eaton – yes, Counts – yes, Coddington – yes. Motion carried 7 to 0. **MOTION** by Hohenstein, seconded by Counts, **“TO ACCEPT RESOLUTION #06.17.432 TO ESTABLISH TOWNSHIP OFFICER YEARLY SALARY FOR THE TOWNSHIP TRUSTEES’ AT \$5,000.00.”** Discussion followed. A roll-call vote was taken: Graham – yes, Eaton – no, Counts – yes, Coddington – yes, Hohenstein – yes, Melton – yes, Howard – yes. Motion carried 6 to 1.

#### REPORTS:

- A. SUPERVISOR:  
(Coddington)

- Update on trying to acquire the easement for the manhole at Warner Rd.

## B. TREASURER:

(Hohenstein)

- Went to MTA regarding Road funding. He reported that the calculations are still being done the same way as they were done in the 1940's. At that time more people lived in the cities so they received more of the road funding. Now more people live in the townships but the township still receive no road funding.
- The Township's S&P rating has been increased from an AA- to AA.
- The landscaping around the Township Hall has started. We had inmates come in and clean out all the old plants and weeds. From the Framers' Group, Marlas Greiger, has purchased half of the new plants that will be planted and will be purchasing the other half soon. We are under budget. Trustee Eaton asked if she be allowed to take some of the irises that are towards the back of the building that need to be split anyway. They were originally from her grandfather's farm. It was the consensus it was okay for her to take some of the irises.
- The deadline for the contract at the Wastewater Treatment Plant is being looked at.
- The state has changed the Tax Foreclosure process. It is now done through Title Check. You can now look these up online. The Township has no parcels in foreclosure for this year.
- At the Livingston County Treasurers Meeting, accepting credit cards was discussed. The Township does not accept them at the counter at this time. This will be looked into further. The township does take credit card payments for Utility Billing and Tax payments online.

## C. CLERK:

(Graham)

- Thanked everyone who participated at the Township Clean-up Day. It went well and stayed under budget.
- Discussion on magnetic name badges for office staff and new name plates for all Board members. It was the consensus to get more than one bid for the name badges and bring this back to the board but to hold off on the name plates at this time.

## D. ZONING:

(Prepared by Daus)

- See Land Use Permit Listing.

## E. ASSESSING:

(Prepared by Assessor Kilpela)

- See report.

## F. FIRE AUTHORITY:

(Coddington)

- Chief gave an update on the aerial truck.
- The leases on all the fire stations are up.

## G. MHOG:

(Howard)

- Acquiring the properties for the Marion Cross Country Project is almost complete.
- Painting the fire hydrants and washing the water towers.
- Had to replace a large pump.



H. PLANNING COMMISSION:  
(Counts)

- Chestnut Development will be putting in leased units at the corner of Mason and Burkhart Roads pending on their Site Plan Review.
- A temporary fireworks stand will be at Angelo's at the corner of Mason and Burkhart.
- More discussion on the Kennels. Believe a lot of the wording has been cleared up and should be seeing the final draft soon.

I. ZONING BOARD OF APPEALS (ZBA):  
(Howard)

- No meeting

J. WEBSITE:  
(Counts)

- Nothing new to report.

K. WWTP:  
(Hohenstein)

- The Utility Clerk, Assessor and Treasurer are working together on a rate study to determine if the Township's Sewer Rate is where it should be.

L. HAPRA:  
(Graham)

- No report.

**CALL TO PUBLIC:**

No Response.

**DISBURSEMENTS: REGULAR AND CHECK REGISTER:**

**MOTION** by Counts, seconded by Hohenstein, "TO APPROVE THE REGULAR DISBURSEMENTS THROUGH JUNE 7, 2017 AND CHECK REGISTER AS PRESENTED, ALSO ANY CUSTOMARY AND NORMAL PAYMENTS FOR THE MONTH." Discussion followed. Motion carried.

**ADJOURNMENT:** **MOTION** by Hohenstein, seconded by Howard, "TO ADJOURN." Motion carried. The meeting adjourned 9:09 p.m.

Approved: \_\_\_\_\_

\_\_\_\_\_  
Jean Graham  
Howell Township Clerk

As Presented: \_\_\_\_\_

As Amended: \_\_\_\_\_

As Corrected: \_\_\_\_\_

\_\_\_\_\_  
Mike Coddington  
Howell Township Supervisor

Dated \_\_\_\_\_

Signed: \_\_\_\_\_  
Debby Johnson,

Recording Secretary

# AGENDA ITEM

6

**CORRESPONDENCE**

July 10, 2017

1. **AMERICAN FUNDS** – Semi-annual report, ending April 30, 2017
2. **CHARTER COMMUNICATIONS** – Changes in channel line-up, effective 7/14/17.
3. **LIVINGSTON COUNTY SENIOR NUTRITION PROGRAM** – June 2017
4. **FRED PRYOR SEMINARS** – Developing Emotional Intelligence
5. **MICHIGAN TOWNSHIP FOCUS** – July 2017
6. **PLANNING & ZONNING NEW** – May 2017
7. **THE PAR PLAN NEWS** – June 2017
8. **CAREERTRACK** – A Comprehensive Guide to Human Resources

# AGENDA ITEM

8A

**Modify Article II. Definitions.**

**Sec. 2.02. DEFINITIONS.**

~~**Kennel.** Any lot or premises on which four (4) or more dogs are kept or boarded temporarily or permanently, for the purpose of breeding, for sale, or otherwise. It shall also include any lot or premises on which other fur-bearing household or domestic pets of like number are bred or sold.~~

**Kennel, Commercial.** Any combination of buildings and/or land used, designed or arranged for the commercial boarding, breeding, training, and/or care of three (3) or more household pets subject to the regulations in Section 14.42. This definition shall not be construed to include private kennels, retail pet stores, or veterinary clinics unless boarding occurs in a way that is not incidental to the primary purpose of those operation.

~~**Kennel, Rural-Private.** Any combination of buildings and/or land used, designed or arranged for private personal breeding, training and/or care of three (3) or more household pets dogs pets belonging to the kennel owner and kept for purposes of sale, show, training, or hunting. Rural kennels do not include commercial boarding, or as pets, provided that no more than (4) such animals six (6) months old or older are kept on the premises either permanently or temporarily. The keeping of such animals shall be strictly incidental to the principal use of the premises. Rural kennels are subject to the regulations in Section 14.44.~~

**House Hold Pets.** Any domestic animal customarily kept as a pet in the home as an incidental accessory to the principal use as a residence. No more than 4 such animals, excluding caged animals, may be kept per dwelling unit.

**Modify Article IV. AR Agricultural – Residential District.**

**Section 4.03 PERMITTED PRINCIPAL SPECIAL USES WITH CONDITIONS**

**B. Kennels for dogs.**

- ~~1) All dog kennels shall be operated in conformance with all applicable county and state regulations, permits being valid no longer than one (1) year.~~
- ~~2) For dog kennels, the minimum lot size shall be ten (10) acres for the first ten (10) dogs and an additional one third (1/3) acre for each one (1) additional dog.~~
- ~~3) Buildings wherein dogs are kept, dog runs, and/or exercise areas shall not be located nearer than one hundred (100) feet to any adjacent occupied dwelling or any adjacent building used by the public and shall not be located in any required front, rear or side yard setback area.~~

~~4) Such facilities shall be under the jurisdiction of the Township Planning Commission, and subject to other conditions and requirements of said body deemed necessary to insure against the occurrence of any possible nuisance (i.e., fencing, soundproofing, sanitary requirements.)~~

~~5) The owner of an approved dog kennel shall prior to December 1st each year fill out an Annual Dog Kennel Renewal Application and submit it to the Township Clerk for processing. The fee for this annual renewal shall be that specified in the Township Fee Schedule.~~

~~[B. Commercial Kennels subject to Section 14.4.](#)~~

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**Section 4.04 PERMITTED ACCESSORY USES**

~~[D. Private Kennels.](#)~~

~~[E. House Hold Pets](#)~~

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**Section 4.05 PERMITTED ACCESSORY USES WITH CONDITIONS.**

~~[D. Commercial Kennels subject to Section 14.42.](#)~~

~~[D. Rural Kennels subject to Section 14.44](#)~~

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**Modify Article VI. SFR Single-Family Residential District.**

**Section 6.04 PERMITTED ACCESSORY USES**

~~[C. Private Kennels.](#)~~

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~~[C. House Hold Pets](#)~~

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**Modify Article VII. MFR Multiple-Family Residential District.**

**Section 7.04 PERMITTED ACCESSORY USES**

~~[C. Private Kennels.](#)~~

~~[C. House Hold Pets](#)~~

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**Modify Article IX. NSC NEIGHBORHOOD SERVICE COMMERCIAL DISTRICT.**

**Section 9.03 PERMITTED PRINCIPAL SPECIAL USES WITH CONDITIONS**

~~[F. Commercial Kennels subject to Section 14.42.](#)~~

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**Modify Article X. RSC Regional Service Commercial District.**

**Section 10.03 PERMITTED PRINCIPAL SPECIAL USES WITH CONDITIONS**

D. Commercial Kennels subject to Section 14.42.

**Modify Article XI. HSC Highway Service Commercial District.**

**Section 11.03 PERMITTED PRINCIPAL SPECIAL USES WITH CONDITIONS**

D. Commercial Kennels subject to Section 14.42.

**Modify Article XII. HC Heavy Commercial District.**

**Section 12.03 PERMITTED PRINCIPAL SPECIAL USES WITH CONDITIONS.**

E. Commercial Kennels subject to Section 14.42.

**Modify Article XIV. Supplemental Regulations.**

**Section 14.42 COMMERCIAL KENNELS**

1. All dog kennels shall be operated in conformance with all applicable county and state regulations, permits being valid no longer than one (1) year.

~~For dog kennels, the minimum lot size shall be ten (10) acres for the first ten (10) dogs and an additional one-third (1/3) acre for each one (1) additional dog.~~

2. ~~For commercial dog kennels in NSC, RSC, HSC, HC districts~~The minimum lot size shall comply with the dimensional requirements of the district in which the kennel is located.

3. Buildings wherein dogs are kept, dog runs, and/or exercise areas shall not be located nearer than one hundred (100) feet to any adjacent occupied dwelling ~~or any adjacent building used by the public~~ and shall not be located in any required front, rear or side yard setback area.

4. All animals shall be kept in a sound proof, enclosed structure, except for walking and outdoor exercise when accompanied and controlled by an employee of the kennel. The Special Use Permit may limit the time during which the animals are permitted out of the building.

5. An operations and maintenance plan shall be submitted that specifically addresses how noise attenuation will be accomplished and how waste will be handled.

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6. Facilities must be connected to public utilities where available.

7. Such facilities shall be under the jurisdiction of the Township Planning Commission, and subject to other conditions and requirements of said body deemed necessary to insure against the occurrence of any possible nuisance (i.e., fencing, soundproofing, sanitary requirements.)

1-8. The owner of an approved dog kennel shall, prior to December 1st each year, fill out an Annual Dog Kennel Renewal Application and submit it to the Township Clerk for processing. The fee for this annual renewal shall be ~~that~~ specified in the Township Fee Schedule.

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#### Section 14.44 RURAL KENNELS

1. All dog kennels shall be operated in conformance with all applicable county and state regulations, permits being valid no longer than one (1) year.

2. For rural kennels, the minimum lot size shall be five (5) acres for the first five (5) dogs and an additional one (1) acre for each one (1) additional dog with a maximum of 10 dogs.

3. Buildings wherein dogs are kept, dog runs, and/or exercise areas shall not be located nearer than one hundred (100) feet to any adjacent occupied dwelling or any adjacent building used by the public and shall not be located in any required front, rear or side yard setback area.

4. All animals shall be kept in an enclosed structure, except for walking and outdoor exercise when accompanied and controlled by an employee of the kennel. The Special Use Permit may limit the time during which the animals are permitted out of the building.

9. An operations and maintenance plan shall be submitted that specifically addresses how noise attenuation will be accomplished and how waste will be handled.

5. Applicant shall include a waste management plan.

6. Such facilities shall be under the jurisdiction of the Township Planning Commission, and subject to other conditions and requirements of said body deemed necessary to insure against the occurrence of any possible nuisance (i.e., fencing, soundproofing, sanitary requirements.)

7. The owner of an approved dog kennel shall, prior to December 1st each year, fill out an Annual Dog Kennel Renewal Application and submit it to the Township Clerk for processing. The fee for this annual renewal shall be that specified in the Township Fee Schedule.

# AGENDA ITEM

9A

# 2016-2017 BUDGET AMENDMENT

2016-17

GL NUMBER	DESCRIPTION	AMENDED	YTD BALANCE	AVAILABLE	% BDGT
		BUDGET	06/30/2017	BALANCE	USED
Fund 204 - ROAD FUND					
Revenues					
Dept 000-OTHER					
204-000-402.00	ROAD FUND PROPERTY TAX INCOME	300,000.00	312,008.44	(12,008.44)	104.00
204-000-420.00	ROAD FUND DELINQ PERSONAL TAX INCOME	1,000.00	276.06	723.94	27.61
204-000-665.00	ROAD FUND INTEREST INCOME	2,000.00	4,305.16	(2,305.16)	215.26
Total Dept 000-OTHER		303,000.00	316,589.66	(13,589.66)	104.49
TOTAL REVENUES					
		303,000.00	316,589.66	(13,589.66)	104.49
Expenditures					
Dept 000-OTHER					
204-000-801.00	ROAD IMPROVEMENT EXPENSE	248,000.00	351,982.80	(103,982.80)	141.93
204-000-802.00	ROAD CHLORIDE EXPENSE	50,000.00	71,401.80	(21,401.80)	142.80
Total Dept 000-OTHER		298,000.00	423,384.60	(125,384.60)	142.08
Dept 547-CHARGEBACKS					
204-547-978.00	ROAD FUND CHARGEBACK EXPENSE	5,000.00	351.21	4,648.79	7.02
Total Dept 547-CHARGEBACKS		5,000.00	351.21	4,648.79	7.02
TOTAL EXPENDITURES					
		303,000.00	423,735.81	(120,735.81)	139.85
Fund 204 - ROAD FUND:					
TOTAL REVENUES		303,000.00	316,589.66	(13,589.66)	104.49
TOTAL EXPENDITURES		303,000.00	423,735.81	(120,735.81)	139.85
NET OF REVENUES & EXPENDITURES		0.00	(107,146.15)	107,146.15	100.00

\* INCREASE ROAD IMPROVEMENT EXPENSE \$104,000 TO ACCOUNT FOR ADDITIONAL PROJECTS DONE WITH LIVINGSTON COUNTY ROAD COMMISSION.  
 \* INCREASE ROAD CHLORIDE EXPENSE \$22,000 TO ACCOUNT FOR ADDITIONAL DUST CONTROL WORK.  
 \* PROJECT DETAIL IS ATTACHED.

# Meride-Solutions

Ice & Dust Control

672 N M - 52

Webberville, MI 48892

# Invoice

Date	Invoice #
7/14/2016	81508

204-000-802.00

Bill To

Howell Township  
3525 Byron Rd  
Howell, MI. 48855

Ship To

ENTERED

P.O. Number	Terms	Via
	1% 10 Net 30	

Quantity	Item Code	Description	Price Each	Amount
136,491.11	DUSTCONTROL	Dust Control - HOWELL TOWNSHIP	0.169	23,067.00
		BOL # 81430 - 6969.75 gal ✓		
		BOL # 81431 - 8007 gal ✓		
		BOL # 81432 - 10069 gal ✓		
		BOL # 81433 - 10019 gal ✓		
		BOL # 81434 - 10061 gal ✓		
		BOL # 81435 - 10049 gal ✓		
		BOL # 81436 - 10065 gal ✓		
		BOL # 81437 - 10007 gal ✓		
		BOL # 81438 - 8983 gal ✓		
		BOL # 81439 - 9999 gal ✓		
		BOL # 81725 - 8992 gal ✓		
		BOL # 81726 - 10024.36 gal ✓		
		BOL # 81727 - 7257 gal ✓		
		BOL # 81728 - 10003 gal ✓		
		BOL # 81729 - 3001 gal ✓		
		BOL # 81878 - 2985 gal ✓		

APPROVED

**PAID**

RECEIVED

JUL 28 2016

HOWELL TOWNSHIP

✓ J.H. 8-2-16

Phone #	E-mail	<b>Total</b>	\$23,067.00
517-521-2124	kim@mbhtrucking.net		

# Horide-Solutions

Ice & Dust Control

672 N M - 52  
Webberville, MI 48892

TRK.  
GJ

G

## Invoice

Date	Invoice #
9/13/2016	82654

Bill To
Howell Township 3525 Byron Rd Howell, MI. 48855

Ship To

204-000-802.00

P.O. Number	Terms	Via
	1% 10 Net 30	

Quantity	Item Code	Description	Price Each	Amount
131,321.73	DUSTCONTROL	Dust Control - HOWELL TOWNSHIP 82884 - 10007 gal 82885 - 3006.07 gal 82886 - 10006.66 gal 82887 - 4010 gal 82888 - 6404 gal 82889 - 10001 gal 82890 - 10001 gal 82891 - 10005 gal 82892 - 7998 gal 82893 - 10020 gal 83059 - 10035 gal 83060 - 9996 gal 83061 - 10005 gal 83062 - 10522 gal 83063 - 4800 gal 83064 - 4505 gal	0.169	22,193.37

**APPROVED**  
**PAID**

**RECEIVED**  
SEP 20 2016  
J.H.

**ENTERED**

HOWELL TOWNSHIP

Phone #	E-mail	<b>Total</b>	\$22,193.37
517-521-2124	kim@mbhtrucking.net		

# Chloride Solutions

## Ice & Dust Control

Remit to: Chloride Solutions, LLC  
 672 North M-52  
 Webberville, MI 48892

ENTERED  
 204-000-802.00

Invoice # 33  
 Invoice Date 06/02/17  
 Terms 15 Days

Bill To: HOWELLTOWNSHIP

Howell Township  
 3525 Byron Rd  
 Howell, MI 48855

RECEIVED

JUN 19 2017

APPROVED

HOWELL TOWNSHIP

PAID

Load/Lease ID 88858

Notes

Billing Locations Origin - Chloride Solutions LLC 672 N M-52 Webberville, MI 48892  
 Destination - Howell Township 3525 Byron Rd Howell, MI 48855

Pro #	Date	Charge Description	Miles	Units	Weight	Rate	Charges
88858	05/31/17	Dust Control	.0	10002.0	.0	\$0.1825	\$1,825.37
<b>Load Total</b>							<b>\$1,825.37</b>

Load/Lease ID 88859

Notes

Billing Locations Origin - Chloride Solutions LLC 672 N M-52 Webberville, MI 48892  
 Destination - Howell Township 3525 Byron Rd Howell, MI 48855

Pro #	Date	Charge Description	Miles	Units	Weight	Rate	Charges
88859	06/01/17	Dust Control	.0	10503.0	.0	\$0.1825	\$1,916.80
<b>Load Total</b>							<b>\$1,916.80</b>

Load/Lease ID 88860

Notes

Billing Locations Origin - Chloride Solutions LLC 672 N M-52 Webberville, MI 48892  
 Destination - Howell Township 3525 Byron Rd Howell, MI 48855

Pro #	Date	Charge Description	Miles	Units	Weight	Rate	Charges
88860	06/01/17	Dust Control	.0	10510.0	.0	\$0.1825	\$1,918.08
<b>Load Total</b>							<b>\$1,918.08</b>

Load/Lease ID 88861

Notes

Billing Locations Origin - Chloride Solutions N Branch 2992 Castle Rd N Branch, MI  
 Destination - Howell Township 3525 Byron Rd Howell, MI 48855

Pro #	Date	Charge Description	Miles	Units	Weight	Rate	Charges
88861	06/02/17	Dust Control	.0	10086.0	.0	\$0.1825	\$1,840.70
<b>Load Total</b>							<b>\$1,840.70</b>

Please Pay This Amount

**\$7,500.95**

✓ J.H. 6-19-17

# Chloride Solutions

## Ice & Dust Control

Remit to: Chloride Solutions, LLC  
672 North M-52  
Webberville, MI 48892

Invoice # 41  
Invoice Date 06/09/17  
Terms 15 Days



Bill To: HOWELLTOWNSHIP

Howell Township  
3525 Byron Rd  
Howell, MI 48855

204-000-802.00

APPROVED

RECEIVED

JUN 19 2017

HOWELL TOWNSHIP

Load/Lease ID 88862

Notes

Billing Locations Origin - Chloride Solutions LLC 672 N M-52 Webberville, MI 48892  
Destination - Howell Township 3525 Byron Rd Howell, MI 48855

Pro #	Date	Charge Description	Miles	Units	Weight	Rate	Charges
88862	06/02/17	Dust Control	.0	9004.0	.0	\$0.1825	\$1,643.23
<b>Load Total</b>							<b>\$1,643.23</b>

Load/Lease ID 88863

Notes

Billing Locations Origin - Chloride Solutions LLC 672 N M-52 Webberville, MI 48892  
Destination - Howell Township 3525 Byron Rd Howell, MI 48855

Pro #	Date	Charge Description	Miles	Units	Weight	Rate	Charges
88863	06/05/17	Dust Control	.0	10034.0	.0	\$0.1825	\$1,831.21
<b>Load Total</b>							<b>\$1,831.21</b>

Load/Lease ID 88864

Notes

Billing Locations Origin - Chloride Solutions LLC 672 N M-52 Webberville, MI 48892  
Destination - Howell Township 3525 Byron Rd Howell, MI 48855

Pro #	Date	Charge Description	Miles	Units	Weight	Rate	Charges
88864	06/05/17	Dust Control	.0	10008.0	.0	\$0.1825	\$1,826.46
<b>Load Total</b>							<b>\$1,826.46</b>

Load/Lease ID 88865

Notes

Billing Locations Origin - Michigan Chloride Sales LLC 402 W Jackson St Louis, MI 48880  
Destination - Howell Township 3525 Byron Rd Howell, MI 48855

Pro #	Date	Charge Description	Miles	Units	Weight	Rate	Charges
88865	06/06/17	Dust Control	.0	10008.0	.0	\$0.1825	\$1,826.46
<b>Load Total</b>							<b>\$1,826.46</b>

Load/Lease ID 88866

Notes

Billing Locations Origin - Chloride Solutions LLC 672 N M-52 Webberville, MI 48892  
Destination - Howell Township 3525 Byron Rd Howell, MI 48855

Pro #	Date	Charge Description	Miles	Units	Weight	Rate	Charges
88866	06/07/17	Dust Control	.0	10210.0	.0	\$0.1825	\$1,863.33
<b>Load Total</b>							<b>\$1,863.33</b>

# Chloride Solutions

## Ice & Dust Control

Remit to: Chloride Solutions, LLC  
672 North M-52  
Webberville, MI 48892

Invoice # 41  
Invoice Date 06/09/17  
Terms 15 Days

Bill To: HOWELLTOWNSHIP

Howell Township  
3525 Byron Rd  
Howell, MI 48855

Load/Lease ID 88867

### Notes

Billing Locations Origin - Chloride Solutions LLC 672 N M-52 Webberville, MI 48892  
Destination - Howell Township 3525 Byron Rd Howell, MI 48855

Pro #	Date	Charge Description	Miles	Units	Weight	Rate	Charges
88867	06/07/17	Dust Control	.0	10036.0	.0	\$0.1825	\$1,831.57
<b>Load Total</b>							<b>\$1,831.57</b>

Load/Lease ID 89232

### Notes

Billing Locations Origin - Chloride Solutions LLC 672 N M-52 Webberville, MI 48892  
Destination - Howell Township 3525 Byron Rd Howell, MI 48855

Pro #	Date	Charge Description	Miles	Units	Weight	Rate	Charges
89232	06/08/17	Dust Control	.0	10099.0	.0	\$0.1825	\$1,843.07
<b>Load Total</b>							<b>\$1,843.07</b>

Load/Lease ID 89233

### Notes

Billing Locations Origin - Chloride Solutions LLC 672 N M-52 Webberville, MI 48892  
Destination - Howell Township 3525 Byron Rd Howell, MI 48855

Pro #	Date	Charge Description	Miles	Units	Weight	Rate	Charges
89233	06/08/17	Dust Control	.0	10007.0	.0	\$0.1825	\$1,826.28
<b>Load Total</b>							<b>\$1,826.28</b>

Load/Lease ID 89234

### Notes

Billing Locations Origin - Wilkinson Brine 8290 N Lapeer Rd Mayville, MI 48744  
Destination - Howell Township 3525 Byron Rd Howell, MI 48855

Pro #	Date	Charge Description	Miles	Units	Weight	Rate	Charges
89234	06/09/17	Dust Control	.0	8992.0	.0	\$0.1825	\$1,641.04
<b>Load Total</b>							<b>\$1,641.04</b>



# Chloride Solutions

## Ice & Dust Control

Remit to: Chloride Solutions, LLC  
672 North M-52  
Webberville, MI 48892

Invoice # 41  
Invoice Date 06/09/17  
Terms 15 Days

Bill To: HOWELLTOWNSHIP

Howell Township  
3525 Byron Rd  
Howell, MI 48855

Load/Lease ID 89235

Notes

Billing Locations Origin - Chloride Solutions LLC 672 N M-52 Webberville, MI 48892  
Destination - Howell Township 3525 Byron Rd Howell, MI 48855

Pro #	Date	Charge Description	Miles	Units	Weight	Rate	Charges
89235	06/09/17	Dust Control	.0	10030.0	.0	\$0.1825	\$1,830.48

**Load Total** \$1,830.48

**Please Pay This Amount**

**\$17,963.13**

204-000-802.00

✓ J.H. 6-19-17

**CULVER EXCAVATING INC.**

3113 N WALLACE RD  
WEBBERVILLE, MI 48892

517 521-3478 FAX 517 521-4897  
culverexc@zoomon.net

**APPROVED**

**RECEIVED**  
AUG 15 2016

VJH

Invoice # 33437  
Invoice Date 07/29/16  
Site CRANDALL ROAD

HOWELL TOWNSHIP  
3525 BYRON ROAD  
HOWELL, MI 48855

HOWELL TOWNSHIP

**ENTERED**

204-000-801

Work Date/Description	Quantity	Rate	Amount
-----------------------	----------	------	--------

**PAID**

APPLY AGGREGATE TO ROADWAY WITH GRADE AND ROLLER FINISH

ROADWAY MAINTENANCE BETWEEN WARNER AND MARR + 300' OF MARR CURVE	1.00 EACH	0.0000	0.00
TREE CUTTING AND WOOD REMOVAL	1.00 EACH	17,310.0000	37,310.00
STUMP REMOVAL, DITCHING, BERMING, CULVERTS, SEED & MULCH	1.00 EACH	17,170.0000	47,170.00
TWO CROSS TUBES NOT USED	2.00 EACH	-890.0000	-1,780.00
22A ROAD GRAVEL, GRADER, ROLLER, WATER, CHLORIDE	1.00 EACH	0.0000	0.00
7/26/16 22A ROAD GRAVEL, TKT 13597	352.35 TON ✓	15.7500	5,549.51
7/26/16 22A ROAD GRAVEL, TKT 13077	350.95 TON ✓	15.7500	5,527.46
7/26/16 22A ROAD GRAVEL, TKT 13363	298.45 TON ✓	15.7500	4,700.59
7/26/16 22A ROAD GRAVEL, TKT 12450	248.49 TON ✓	15.7500	3,913.72
7/26/16 22A ROAD GRAVEL, TKT 13188	300.58 TON ✓	15.7500	4,734.14
7/26/16 22A ROAD GRAVEL, TKT 13079	48.94 TON ✓	15.7500	770.81
7/26/16 22A ROAD GRAVEL, TKT 13078	54.40 TON ✓	15.7500	856.80
7/27/16 22A ROAD GRAVEL, TKT 13191	302.55 TON ✓	15.7500	4,765.16
7/27/16 22A ROAD GRAVEL, TKT 13454	302.28 TON ✓	15.7500	4,760.91
7/27/16 22A ROAD GRAVEL, TKT 13889	205.90 TON ✓	15.7500	3,242.93
7/27/16 22A ROAD GRAVEL, TKT 13890	147.98 TON ✓	15.7500	2,330.69
7/27/16 22A ROAD GRAVEL, TKT 13083	209.98 TON ✓	15.7500	3,307.19
7/27/16 22A ROAD GRAVEL, TKT 13082	150.45 TON ✓	15.7500	2,369.59
7/27/16 22A ROAD GRAVEL, TKT 12454	299.99 TON ✓	15.7500	4,724.84
7/27/16 22A ROAD GRAVEL, TKT 13849	249.04 TON ✓	15.7500	3,922.38
8/4/16 22A ROAD GRAVEL, TKT 13736	299.82 TON ✓	15.7500	4,722.17
8/4/16 22A ROAD GRAVEL, TKT 13375	297.29 TON ✓	15.7500	4,682.32
8/4/16 22A ROAD GRAVEL, TKT 13752	297.87 TON ✓	15.7500	4,691.45
8/4/16 22A ROAD GRAVEL, TKT 14015	301.29 TON ✓	15.7500	4,745.32

**CULVER EXCAVATING INC.**

3113 N WALLACE RD  
WEBBERVILLE, MI 48892

517 521-3478 FAX 517 521-4897  
culverexc@zoomon.net

HOWELL TOWNSHIP  
3525 BYRON ROAD  
HOWELL, MI 48855

Invoice # 33437  
Invoice Date 07/29/16  
Site CRANDALL ROAD

**~~PAID~~**

Work Date/Description	Quantity	Rate	Amount
-----------------------	----------	------	--------

SUBTOTAL	157,017.98
SALES TAX	0.00
BALANCE DUE	157,017.98

RECEIVED  
AUG 15 2016  
HOWELL TOWNSHIP

Accounts past due 30 days will be charged a service fee of 1 1/2% per month.

CULVER EXCAVATING INC.

RECEIVED

MAR 27 2017

HOWELL TOWNSHIP

3113 N WALLACE RD  
WEBBERVILLE, MI 48892

517 521-3478 FAX 517 521-4897

APPROVED

HOWELL TOWNSHIP  
3525 BYRON ROAD  
HOWELL, MI 48855

Invoice # 34034  
Invoice Date 03/17/17  
Site MILLET ROAD

204-000-801

Work Date/Description	Quantity	Amount
-----------------------	----------	--------

APPLY AGGREGATE TO ROADWAY WITH  
GRADE AND ROLLER FINISH

**P A I D**

3/22/17 21AA CRUSHED STONE, TKT 15664	255.92 TON	6,014.12
3/22/17 21AA CRUSHED STONE, TKT 14885	297.77 TON	6,997.60
3/22/17 21AA CRUSHED STONE, TKT 15188	298.14 TON	7,006.29
3/22/17 21AA CRUSHED STONE, TKT 15456	299.48 TON	7,037.78
3/22/17 21AA CRUSHED STONE, TKT 15145	295.61 TON	6,946.84
3/23/17 21AA CRUSHED STONE, TKT 15455	251.46 TON	5,909.31
3/23/17 21AA CRUSHED STONE, TKT 15146	100.42 TON	2,359.87
3/23/17 21AA CRUSHED STONE, TKT 15189	251.23 TON	5,903.91
3/23/17 21AA CRUSHED STONE, TKT 14886	249.79 TON	5,870.07
3/23/17 21AA CRUSHED STONE, TKT 15665	256.07 TON	6,017.65

SUBTOTAL	60,063.44
SALES TAX	0.00
BALANCE DUE	60,063.44

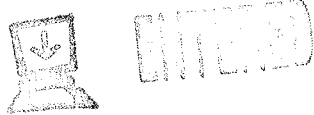
Accounts past due 30 days will be charged a service fee of 1 1/2% per month.

CULVER EXCAVATING INC.

3113 N WALLACE RD  
WEBBERVILLE, MI 48892  
517 521-3478 FAX 517 521-4897

HOWELL TOWNSHIP  
3525 BYRON ROAD  
HOWELL, MI 48855

Invoice # 34051  
Invoice Date 03/31/17  
Site TOOLEY ROAD



204-000-801.00

Work Date/Description	Quantity	Amount
-----------------------	----------	--------

APPLY AGGREGATE TO ROADWAY WITH  
GRADE AND ROLLER FINISH



3/30/17 21AAC LIMESTONE, TKT 15147	✓ 150.48 TON	3,272.94
3/30/17 21AAC LIMESTONE, TKT 15462	✓ 50.61 TON	1,100.77
3/30/17 21AAC LIMESTONE, TKT 15463	✓ 48.89 TON	1,063.36
3/30/17 21AAC LIMESTONE, TKT 15464	✓ 49.46 TON	1,075.76
3/30/17 21AAC LIMESTONE, TKT 15511	✓ 199.83 TON	4,346.30
3/30/17 21AAC LIMESTONE, TKT 12671	✓ 199.31 TON	4,334.99
3/30/17 21AAC LIMESTONE, TKT 15666	✓ 152.10 TON	3,308.18

**P A I D**

SUBTOTAL	18,502.30
SALES TAX	0.00
BALANCE DUE	18,502.30

**RECEIVED**

APR 10 2017

HOWELL TOWNSHIP

**APPROVED** *AS*

Accounts past due 30 days will be charged a service fee of 1 1/2% per month.

CULVER EXCAVATING INC.

3113 N WALLACE RD  
WEBBERVILLE, MI 48892  
517 521-3478 FAX 517 521-4897

RECEIVED

JUL 26 2016

HOWELL TOWNSHIP

COHOCTAH TOWNSHIP  
6950 OWOSSO RD  
FOWLERVILLE, MI 48836

ENTERED

204-000-801.00

Invoice # 33291  
Invoice Date 06/24/16  
Site ALLEN ROAD

Work Date/Description	Quantity	Amount
	SALES TAX	0.00
	BALANCE DUE	80,925.72

Per TWP Board agreement  
to pay half the cost of  
Limestone on Allen Rd (Byron-Oak Grove).

\$ 40,462.86

✓ J.H.

**P A I D**

APPROVED *u*

Accounts past due 30 days will be charged a service fee of 1 1/2% per month.

**CULVER EXCAVATING INC.**

3113 N WALLACE RD  
 WEBBERVILLE, MI 48892  
 521-3478 FAX 517 521-4897

*This check  
 out.  
 J-H*



ENTERED

Invoice # 34075  
 Invoice Date 04/20/17  
 Site WARNER ROAD

**RECEIVED**  
 MAY 01 2017

*204-000-801.00*

HOWELL TOWNSHIP

Work Date/Description	Quantity	Amount
-----------------------	----------	--------

APPLY AGGREGATE TO ROADWAY WITH  
 GRADE AND ROLLER FINISH

**PAID**

4/11/17 21AAC LIMESTONE, TKT 14301	✓ 101.06 TON	2,198.06
4/11/17 21AAC LIMESTONE, TKT 14688	✓ 200.79 TON	4,367.18
4/11/17 21AAC LIMESTONE, TKT 14965	✓ 154.71 TON	3,364.94
4/11/17 21AAC LIMESTONE, TKT 15523	✓ 50.53 TON	1,099.03
4/11/17 21AAC LIMESTONE, TKT 12676	✓ 149.46 TON	3,250.76
4/11/17 21AAC LIMESTONE, TKT 15670	✓ 51.77 TON	1,126.00
4/12/17 21AAC LIMESTONE, TKT 15109	✓ 100.03 TON	2,175.65
4/12/17 21AAC LIMESTONE, TKT 12677	✓ 149.42 TON	3,249.89
4/12/17 21AAC LIMESTONE, TKT 15525	✓ 151.64 TON	3,298.17
4/12/17 21AAC LIMESTONE, TKT 15673	✓ 103.54 TON	2,252.00
4/12/17 21AAC LIMESTONE, TKT 14966	✓ 153.30 TON	3,334.28
4/13/17 21AAC LIMESTONE, TKT 15675	✓ 102.22 TON	2,223.29
4/13/17 21AAC LIMESTONE, TKT 14968	✓ 101.13 TON	2,199.58
4/13/17 21AAC LIMESTONE, TKT 14691	✓ 101.67 TON	2,211.32
4/13/17 21AAC LIMESTONE, TKT 15111	✓ 99.17 TON	2,156.95
4/13/17 21AAC LIMESTONE, TKT 15529	✓ 49.47 TON	1,075.97
4/13/17 21AAC LIMESTONE, TKT 12679	✓ 99.83 TON	2,171.30
4/14/17 21AAC LIMESTONE, TKT 12682	✓ 99.40 TON	2,161.95
4/14/17 21AAC LIMESTONE, TKT 15532	✓ 100.91 TON	2,194.79
4/14/17 21AAC LIMESTONE, TKT 14693	✓ 99.64 TON	2,167.17
4/14/17 21AAC LIMESTONE, TKT 15562	✓ 51.73 TON	1,125.13
4/14/17 21AAC LIMESTONE, TKT 15677	✓ 51.32 TON	1,116.21
4/14/17 21AAC LIMESTONE, TKT 15559	✓ 102.75 TON	2,234.81
4/18/17 21AAC LIMESTONE, TKT 15679	✓ 102.45 TON	2,228.29
4/18/17 21AAC LIMESTONE, TKT 12689	✓ 148.33 TON	3,226.18
4/18/17 21AAC LIMESTONE, TKT 15564	✓ 153.15 TON	3,331.01
4/18/17 21AAC LIMESTONE, TKT 15537	✓ 150.36 TON	3,270.33
4/18/17 21AAC LIMESTONE, TKT 14302	✓ 151.04 TON	3,285.12
4/18/17 21AAC LIMESTONE, TKT 15114	✓ 148.87 TON	3,237.92

CULVER EXCAVATING INC.

3113 N WALLACE RD  
WEBBERVILLE, MI 48892

517 521-3478 FAX 517 521-4897

HOWELL TOWNSHIP  
3525 BYRON ROAD  
HOWELL, MI 48855

Invoice # 34075  
Invoice Date 04/20/17  
Site WARNER ROAD

Work Date/Description	Quantity	Amount
-----------------------	----------	--------

SUBTOTAL	<u>71,333.28</u>
SALES TAX	<u>0.00</u>
BALANCE DUE	71,333.28

Accounts past due 30 days will be charged a service fee of 1 1/2% per month.



# AGENDA ITEM

9B

RESOLUTION NO. \_\_\_\_\_  
APPROVING THE LIVINGSTON COUNTY HAZARD MITIGATION PLAN

**WHEREAS**, the Livingston County Emergency Management Department is hereby suggesting the Township of Howell, as a local unit of government, to formally adopt the Livingston County Hazard Mitigation Plan, and;

**WHEREAS**, the Livingston County Emergency Management Department in conjunction with the Livingston County Planning Department, has compiled and developed a Hazard Mitigation Plan unique to Livingston County, and;

**WHEREAS**, the Michigan State Police Emergency Management and Homeland Security Division has reviewed and approved the plan, and the FEMA subject matter expert has reviewed and accepted the plan with a letter of initial approval, and;

**WHEREAS**, the formal approval of this plan by FEMA is contingent of the adoption by the Livingston County Board of Commissioners and the Township of Howell as a participating jurisdiction in the plan, and;

**WHEREAS**, the Livingston County Board of Commissioners has adopted the Livingston County Hazard Mitigation Plan, dated and sealed on March 20, 2017, and;

**WHEREAS**, FEMA accepted and approved the Livingston County plan on April 4, 2017.

**THEREFORE, BE IT RESOLVED**, the Howell Township Board formally approves the Hazard Mitigation Plan developed by Livingston County.

Adopted by the Howell Township Board on \_\_\_\_/\_\_\_\_/\_\_\_\_

\_\_\_\_\_  
Mike Coddington  
Howell Township Supervisor

\_\_\_\_\_  
Jean Graham  
Howell Township Clerk

## **Chapter 1: Introduction To Hazard Mitigation Planning**

### **Why Develop And Update A Hazard Mitigation Plan?**

Livingston County is vulnerable to multiple hazards caused by the natural environment. The ability of a community to respond effectively to hazards before they cause a disaster, depends largely on actions or mitigation measures taken before a disaster occurs. Mitigative measures are actions of a long-term, permanent nature that reduce the actual or potential risk of loss of life or property from a hazardous event.

This Hazard Mitigation Plan is a multi-jurisdictional plan that coordinates the actions of the following 20 local units of government in Livingston County:

#### **Townships:**

Brighton	Cohoctah
Conway	Deerfield
Genoa	Green Oak
Hamburg	Handy
Hartland	Howell
Iosco	Marion
Oceola	Putnam
Tyrone	Unadilla

#### **Villages:**

Fowlerville	Pinckney
-------------	----------

#### **Cities:**

Brighton	Howell
----------	--------

Each of these 20 local units of government are continuing participants in the 2016 update of the Hazard Mitigation Plan for Livingston County.

The many reasons Livingston County has developed a Hazard Mitigation Plan include:

- protection of public health and safety
- preservation of essential services
- prevention of property damage
- preservation of the local economy
- preservation of lives
- preservation and protection of the natural environment
- provision of information to citizens, businesses, and officials for purposes of: planning, economic development, project development decisions and emergency management awareness and assistance
- reduction of liability
- building partnerships and community support
- effective communication regarding emergency management
- qualification for hazard mitigation project funding
- pro-active mitigation planning efforts

This Hazard Mitigation plan is particularly important from an information and communication perspective, so that all persons involved in emergency management functions in county government and local government, are directing their actions from the same base of understanding.

**Mitigation is...** Any action of a long-term, permanent nature that reduces the actual or potential risk of loss of life or property from a hazardous event.

Emergency management problems can be minimized or eliminated through the coordinated decision-making that is a result of hazard mitigation planning. One of the greatest benefits of hazard mitigation planning is that a community's vulnerability can be reduced in conjunction with the achievement of other community goals and objectives, at little or no additional cost to the community.

### **Authority For A Hazard Mitigation Plan**

**The Disaster Mitigation Act of 2000** (DMA 2000, Public Law 106-390) amended the Robert T. Stafford Disaster Relief and Emergency Assistance Act by repealing the previous mitigation planning provisions (Section 409) and replacing them with a new set of requirements (Section 322). The requirement for a State mitigation plan remains a condition of receiving federal disaster assistance. The new requirements emphasize the need for State, Tribal, and local entities to closely coordinate mitigation planning and implementation efforts. States that demonstrate an increased commitment to comprehensive mitigation planning and implementation can increase the amount of funding available through the Hazard Mitigation Grant Program (HMGP). Section 322 also established a new requirement for local (County) mitigation plans and authorized up to 7% of HMGP funds available to a State to be used for development of State, Tribal and local mitigation plans.

### **Update Of The Plan**

The 2017 *Hazard Mitigation Plan, Livingston County, Michigan* represents an update to the original 2007 plan.

A planning committee was organized by the Livingston County Emergency Manager for the update of the 2007 plan. This committee consisted of the following representatives:

- Emergency Manager
- 911/Central Dispatch Director
- EMS Director
- Planning Director
- Principal Planner
- Chief Deputy Drain Commissioner

Prior to updating the plan, the planning committee met with representatives from the Michigan State Police Emergency Management Division to receive instruction on the required components of a hazard mitigation plan and how the plan update process should be implemented. The Hazard Mitigation Plan Review Sheets (v. October 2012) were used as the primary instructional tool for this learning experience.

Each member of the planning committee was assigned various sections of the plan to update, and their draft of each section was reviewed for accuracy by the planning committee as a whole.

Overall, the goals of the planning committee were to:

- Review and revise the current plan document with new information
- Streamline the plan into a more concise document
- focus the plan on a natural hazards approach

- provide new public input opportunities in the update process

### **Organization Of The Plan**

This plan is organized in such a manner that the twenty local units of government in Livingston County can use this base level of information to draft a hazard mitigation plan for their own local community (township, city or village). Information from the Hazard Mitigation Plan for Livingston County, Michigan, provides most of the information needed for a localized plan; certain portions of the plan just need to be further refined with specific data about the local community. Following is an explanation of the various steps involved in assembling this plan:

#### **Step 1. The Hazard/Vulnerability**

**Analyses Process:** Hazard/vulnerability analyses involve identifying all of the hazards that potentially threaten the county and analyzing them to determine the degree of threat or vulnerability that is posed by each. Hazard/vulnerability analyses determine:

- what can occur
- how often it is likely to occur
- how bad it is likely to get
- how it is likely to affect your community
- how vulnerable your community is to the hazard

The Hazard/vulnerability components of this plan include:

- **A community profile:** *Chapter 2: A Demographic Profile of Livingston County* introduces the Livingston County community by providing

summary information and demographics on general features of the community such as population and housing data. This section was revised during the update process to include 2010 Census demographics, and to pare the content down to primarily population and housing demographics.

- **Identification of the hazards that affect Livingston County:** *Chapter 3: Hazard Identification* recognizes and describes the known hazards in Michigan as identified by the Emergency Management Division, Michigan Department of State Police in their publication *Local Hazard Mitigation Planning Workbook*, plus additional hazards that have been identified by Livingston County's Emergency Program Manager. The natural hazards are described in terms of what causes each hazard, the form or forms each hazard may take, what triggers each hazard, and the damage that may be associated with each hazard.
- **An estimation of the risks from hazards:** *Chapter 4: Hazard Risk Assessment* evaluates the kinds of emergencies that have occurred or could occur in Livingston County. The *Livingston County Hazard Profile Evaluation*, compiled by the Livingston County Emergency Management Department, is used as the assessment tool for evaluating the risk of each hazard. Risk factors such as historical occurrence, affected area, population impact, collateral damage, and mitigative potential are among the factors analyzed. This chapter includes a *Hazard Risk*

*Assessment Summary* table that assesses how a specific natural hazard could impact each quadrant of the county. The table summarizes whether or not the county quadrant has experienced a historical occurrence of the particular hazard, and summarizes the locational risks in each quadrant of the county for that particular hazard. Examples of locational risks include: geographic features like topography, infrastructure lifelines like utilities, essential facilities like police and fire stations, and special facilities like schools. Lastly, the table provides the total number of recorded county events for each hazard.

- **Assess Vulnerabilities:** *Chapter 5: Hazard Vulnerability Analysis* determines the relative threat posed by the identified hazards, using qualitative and/or quantitative ratings. Two hazard vulnerability factors are analyzed and/or mapped; population and economics.

Population vulnerabilities and impacts are analyzed in terms of the general population that may be vulnerable to a specific hazard, and special populations that may be particularly vulnerable to specific hazards because of the close proximity of facilities that shelter these populations.

Economic vulnerabilities and impacts are analyzed in terms of the specific business and industry facilities that are within close proximity to the hazard-prone area(s) and may contribute to or intensify the effects of the hazard.

*Chapter 6: Critical Facilities* aids the assessment of population and economic vulnerabilities by identifying, inventorying and mapping at-risk critical facilities in Livingston County.

**Step 2. Define goals and objectives:**

Developing goals and objectives help clarify community problems, issues and opportunities in hazard mitigation. Plans and actions based on clear goals and objectives are more likely to succeed in meeting the community's needs. Goals are broad conceptual statements of intent that establish the direction for the Hazard Mitigation Plan. Objectives are measurable, detailed statements that describe the tasks to be carried out in the process of realizing goals.

- *Chapter 7: Hazard Mitigation Goals and Objectives* articulates goals and objectives for the Livingston County community. Incorporated into these policy statement are the goals adopted by the State of Michigan in the Michigan Hazard Mitigation Plan, and the hazard mitigation goals and strategies of the 2003 Livingston County Comprehensive Plan.

**Step 3. Identify and develop strategies to mitigate hazards:** Livingston County has a variety of existing programs and plans related to hazard mitigation. Preparation of this mitigation plan offers an opportunity to educate our community about the existing programs and resources that are currently being used to manage hazard mitigation in Livingston County. Upon review of these existing strategies, many other potential strategies are identified as possible alternatives for the *Hazard Mitigation Action Plan* that culminates this plan.

- **Identify existing hazard mitigation strategies:** *Chapter 8: Existing Hazard Mitigation Strategies* provides examples of the many types of mitigation strategies that are currently active in Livingston County. State, county and local government examples are represented.
- **Identify potential hazard mitigation strategies for implementation:** *Chapter 9: Potential Hazard Mitigation Strategies* identifies potential hazard mitigation strategies for the natural hazards that are most likely to occur in Livingston County. Strategies are organized under FEMA's six broad categories of hazard mitigation strategies. These categories help clarify the purpose of the proposed strategies listed under each hazard. Several of the mitigation strategies form the core of the action plan component of the hazard mitigation plan.

#### **Step 4. Prepare a mitigation action plan.**

The Hazard Mitigation Plan culminates in an action plan that is based on the county's hazard analysis, the goals and objectives that are articulated in the plan, the mitigation strategies that are identified in the plan, and recommendations and input from the Livingston County Emergency Program Manager and others involved in county hazard mitigation efforts.

- **Select feasible mitigation strategies:** *Chapter 10: Prioritized Hazard Mitigation Strategies, Implementation Strategy and Plan Maintenance* explains how the hazard mitigation strategies of the plan were developed and prioritized. The prioritized strategies are

presented in a table format with the corresponding plan goal(s) and objective(s) that are being addressed by each strategy. The implementation strategy for the plan follows in a table that lists each hazard mitigation strategy, the entity who would have responsibility and/or oversight for each strategy, the funding and other resources needed for accomplishing each strategy, the time frame in which each strategy would be completed, the natural hazard that is being addressed by each strategy, and the FEMA Mitigation Strategy that is being addressed by each strategy. The chapter concludes with a Plan Maintenance section that describes how the plan will be reviewed, updated and adopted in the future.

#### **Appendix to Plan**

Concurrent with the preparation of this Hazard Mitigation Plan for Livingston County, Michigan, the Emergency Preparedness Coordinator of the Livingston County Department of Public Health was preparing a Jurisdictional Hazard Vulnerability Assessment. The two plans require many of the same elements so, as much as possible, we have integrated the Livingston County Public Health plan into this county-wide Hazard Mitigation Plan and have provided the public health plan in its entirety in Appendix A.

#### **Integration Of Hazard Mitigation Concepts**

The preparation of this Hazard Mitigation Plan for Livingston County, Michigan, presents a key opportunity for integrating the hazard mitigation concepts within the plan into:

1. Local hazard mitigation plans
2. Local master plans

Local units of government should use this plan as a base document to integrate the county hazard mitigation information into a more localized and specific plan for their community. Likewise, the Hazard Mitigation Plan for Livingston County will evolve over time to include the hazard mitigation strategies of the local units of government. This cooperative effort will produce a countywide mitigation strategy that can help move Livingston County closer to becoming a disaster-resistant community.

There are also numerous benefits to integrating the hazard mitigation concepts of this plan into a community's master plan process, including:

- it creates a new and effective planning tool
- it enhances both the master plan, and the local mitigation strategy
- it reduces a community's vulnerability to disasters
- it supports effective pre- and post-disaster decision making
- it creates a new and effective planning tool
- it speeds the return of the impacted community to normalcy
- it provides a forum for analysis of potentially sensitive issues
- it enhances credibility for hazard mitigation programs and projects

The concept of integrating hazard mitigation with comprehensive planning, is based out of the belief that the efforts of many disciplines are necessary if we are to reduce the consequences of natural disasters.

### **Review and Integration of Existing Hazard Mitigation Plans, Studies, Reports and Technical Information**

A state mandated function of the Livingston County Department of Planning is to review any new master plans produced by the 20 local units of government in Livingston County. As each new master plan is reviewed, staff looks for the inclusion of any hazard mitigation elements, including strategies that can be integrated into this 2017 Livingston County Hazard Mitigation Plan.

### **Public Participation Process**

#### **• 2014 Participation of Local Units of Government**

During the draft stage of the Hazard Mitigation planning process, Livingston County's 20 local units of government were asked to participate in an information gathering exercise. In September 2014, the Clerk/ Supervisor and/or Mayor of each municipality was sent a letter of explanation attached to a Flood Risk Map. The letter explained that the 2007 Hazard Mitigation Plan for Livingston County is currently being updated. It also explained that we needed their assistance in identifying the locations for potential natural hazards in their community; particularly regarding flooding. A Flood Risk map was provided and each municipality was asked to review the map and hand label the map with



some additional information regarding flooding and other natural hazards. Also attached was Chapter 3 of the Hazard Mitigation Plan that describes all of the natural hazards that might occur in Livingston County. Each municipality was instructed on when and how the information should be returned. Participation was received from 50% of the local communities in Livingston County. The correspondence and map associated with this data collection effort can be found in the Appendix of this plan.

- **Participation of Local Emergency Planning Committee**

During the draft stage of the Hazard Mitigation planning process, the Local Emergency Planning Committee (LEPC) met on May 28, 2015 to review the 2007 goals and objectives of the Hazard Mitigation Plan and to develop related strategies. A productive working session resulted in several new goals, objectives and strategies and helped determine which strategies should be continued or removed.

- **2017 Participation of Local Units of Government**

To further local involvement in the 2017 Hazard Mitigation Plan, leaders of Livingston County local units of governments were once again contacted in January and February 2017 for their input on two matters:

- 1.) Response to the Flood Risk Map that was originally sent in September 2014 (if they did not respond in 2014). This effort bolstered the original response rate from 50% to 90%; 18 of 20

local communities responded with information about how flooding issues have impacted their community (see Appendix for a summary of responses).

- 2.) Implementation Plan Chapter 10 - Local government leaders were asked to participate in the implementation of the Hazard Mitigation Plan by becoming community partners for the strategies of the Implementation Plan that are most relevant to the hazard mitigation risks of their community.

The responses from local communities are noted in the "Community Partners" column of the Implementation Plan table of Chapter 10.

- **2017 Adoption of Plan by Livingston County Board of Commissioners**

A resolution to approve the *Hazard Mitigation Plan, Livingston County, Michigan 2017* was adopted on March 20, 2017, by the Livingston County Board of Commissioners. The resolution of adoption is included in the Appendix of this plan.

### **Sources:**

*Comprehensive Plan/Hazard Mitigation Interface*, Livingston County Department of Planning, Winter 1998-1999

## Chapter 9: Potential Hazard Mitigation Strategies

Hazard mitigation strategies serve to lessen a community's vulnerability to the hardship and costs of disasters. This chapter will identify potential hazard mitigation strategies for the natural hazards that are most likely to occur in Livingston County. Mitigation strategies with an "all-hazards" approach will also be identified. Several of these mitigation strategies will form the core of the Implementation Plan component of this hazard mitigation plan in Chapter 10.

**Mitigation is...** Any action of a long-term, permanent nature that reduces the actual or potential risk of loss of life or property from a hazardous event.

FEMA recognizes the following six broad categories of mitigation strategies. These categories help clarify the purpose of the proposed strategies listed under each hazard:

### **Six Categories of Hazard Mitigation Strategies**

**1. Prevention.** Government administrative or regulatory actions or processes that influence the way land and buildings are developed and built. These actions also include public activities to reduce hazard losses.

Examples include: planning and zoning, building codes, capital improvement programs, open space preservation, and storm water management regulations.

**2. Property Protection.** Actions that involve the modification of existing buildings or structures to protect them from a hazard, or removal from the hazard area.

Examples include: acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.

**3. Public Education and Awareness.**

Actions to inform and educate citizens, elected officials, and property owners about the hazards and potential ways to mitigate them.

Examples include: outreach projects, real estate disclosure, hazard information centers, and school-age and adult education programs.

**4. Natural Resource Protection.** Actions that, in addition to minimizing hazard losses, also preserve or restore the functions of natural systems.

Examples include: sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.

**5. Emergency Services.** Actions that protect people and property during and immediately after a disaster or hazard event.

Examples include: warning systems, emergency response services, and protection of critical facilities.

**6. Structural Projects.** Actions that involve the construction of structures to reduce the impact of a hazard.

Example structures include: dams, levees, floodwalls, seawalls, retaining walls, and safe rooms.

## **All - Hazards Approach to Hazard Mitigation Strategies**

The following hazard mitigation strategy ideas are not hazard specific, and they can be applied to many or all hazards that may occur in a community. The strategy ideas are organized under FEMA's six categories of hazard mitigation strategies. The strategy ideas are not intended to be an all-encompassing list, rather a list from which strategy ideas can be drawn for the hazard mitigation action plan.

### ***Prevention***

- ▶ **Incorporating hazard mitigation regulations into the community zoning ordinance** - incorporating regulations such as: control of impervious surfaces, retention of natural vegetation along watercourses and set backs from watercourses and steep slopes.
- ▶ **Incorporating hazard mitigation policies into the community comprehensive or master plan** - incorporating policies such as: hazard mitigation goals and objectives, development policies for hazard areas such as floodplains.
- ▶ **Adoption of local hazard mitigation plans** - local communities should draft and adopt specific, localized hazard mitigation plans based on the model provided by the Hazard Mitigation Plan, Livingston County, Michigan.
- ▶ **Capital improvement programs** - a Capital Improvements Program (CIP) is a community's proposed schedule of future capital improvements listed in order of priority during a specified period of time. Cost estimates and the anticipated means of financing hazard mitigation strategies should also be included in the CIP.
- ▶ **Local environmental review boards** - local communities can create environmental review boards that review any land use permit, site plan, subdivision, condominium or land division application that may pose significant impacts on the human and natural environment.
- ▶ **Enforcement of building codes** - all communities in Michigan must have a building code that conforms to the State Construction Code. These codes ensure that a building or other structure will be constructed in a manner that is safe for occupancy and use. Building codes regulate health and sanitation requirements for water, ventilation, plumbing, electricity, mechanical equipment, heating and air conditioning. However, if building code provisions are not properly enforced by a municipality, it could make the difference between a building or structure that is minimally damaged by a hazard and one that suffers major damage or a total loss from a hazard.
- ▶ **Subdivision regulations** - subdivision regulations can be an effective tool in reducing exposure and vulnerability to certain hazards such as wildfire and flood, if mitigation factors are incorporated into the process through mechanisms such as local planning codes. For instance, a community may allow a subdivision to be placed in a heavily wooded area susceptible to wildfire, if proper engineering measures are taken

regarding lot size and ingress and egress. These mechanisms provide an adequate level of protection to developed home sites and the residents occupying those home sites.

▶ **Local emergency operations plans**

- The Federal Emergency Management Agency (FEMA) recommends that each jurisdiction develop a comprehensive Emergency Operations Plan (EOP) for all hazards that pose a significant threat to the community. Although there is no standard format for preparation of a local EOP, FEMA recommends that the EOP consist of the following three components: (1) the basic plan; (2) functional annexes in support of the basic plan; and (3) hazard-specific appendixes in support of each functional annex.

▶ **Emergency plans for critical facilities**

- dependent upon the specific type of emergency, critical facilities can include such public facilities as fire stations, utility plants and municipal buildings, as well as private institutions such as nursing homes, hospitals, schools and jails. Since disasters directly involving critical facilities enlarge the scope of its impact, it is important to identify such facilities prior to an emergency. In addition, an emergency plan needs to be prepared for each such facility and with consideration to the specific challenges each presents. For example, the limited mobility of most nursing home patients requires special evacuation procedures, while life-sustaining equipment needed by some hospital patients may preclude any evacuation. Such facilities as schools and jails require that

emergency responders account for each evacuee.

▶ **Deed restrictions**

- a deed restriction or restrictive covenant places restrictions on the use of land and usually is binding upon subsequent owners of the property. For example, as a means of mitigating the damage caused by flooding, a property owner may use a deed restriction to prohibit the use of flood-prone areas for other than recreational or open space purposes.

▶ **Mutual aid agreements**

- mutual aid agreements may be for reciprocal assistance or may be nonreciprocal service contracts under which the service is provided only under disaster conditions. The most common mutual aid agreements for reciprocal assistance are among jurisdictions for police, fire and emergency medical care services. The most common example of a nonreciprocal service contract is that negotiated by many communities with the American Red Cross for establishment of emergency shelters and damage assessment following an occurrence.

▶ **Tax incentives**

- taxing powers can provide incentives to undertake mitigation actions. For example, local governments can establish “preferential” or “use value” taxes for properties located in a flood-prone area if the property owner agrees to maintain a low-density use of the land. Property is then taxed on the basis of its actual income production rather than its market value.

- ▶ **Transfer of development rights** - a Transfer of Development Rights (TDR) program is intended to use properties located within a hazard area (such as within a floodplain) for recreational or open space purposes by compensating the property owners for the loss of their right to develop the property into more intense land uses. Landowners may sell their development rights to other landowners in “receiving” districts who may then use these rights to build at higher densities than allowed under current zoning standards.

### ***Property Protection***

- ▶ **Deconcentration of critical facilities** - during such emergencies as dam failure, infrastructure disaster or civil disorder, it is important that critical facilities be geographically spread throughout the community. Such deconcentration minimizes the possibility of more than one critical facility being impacted and thereby mitigates the overall impact of the emergency.
- ▶ **Acquisition** -if structural measures cannot preclude damage caused by hazards, communities may need to purchase hazard-prone lands to minimize the negative impacts of future hazards. Public acquisition can occur through the outright purchase of such properties or through the less expensive purchase of easements or development rights.
- ▶ **Right-of-way maintenance, landscaping and inspection** - overgrown vegetation or new growth vegetation in rights-of-way can be easily uprooted by natural hazards

such as high velocity winds, which may damage or completely destroy many underground utilities. Maintenance, such as brush and limb removal should be addressed on a routine basis. Landscaping standards, including the planting of appropriate vegetation along power line rights-of-way, should be encouraged. Public utilities should improve existing programs to inspect all rights-of-ways. Current rights-of-way should also be inspected as to proper size. It may be appropriate in some cases to purchase or lease additional rights-of-way to help eliminate the potential damage to lines and poles from fallen limbs or trees.

### ***Public Education and Awareness***

- ▶ **Dissemination of disaster information to community groups and critical facilities** - public presentations and dissemination of written materials to schools, hospitals, nursing homes, other interested community groups and the general public, should be a periodic hazard mitigation strategy. Often this occurs in the spring during Severe Weather Awareness Week.
- ▶ **Disaster-related public health campaigns** - the public needs periodic media campaigns to broadcast information about the health concerns associated with different hazards, and how people can protect themselves.
- ▶ **Sponsor a “Helping Your Neighbors” program** - this program, sponsored through the local school systems, encourages children

and their families to check on neighbors who require special assistance during severe hazard conditions.

- ▶ **Staffing and training of response personnel** - a local response training program should take advantage of programs and courses available through FEMA or the state, each of which has a training officer responsible for coordinating the delivery of federally-funded emergency management programs.
- ▶ **Website information posted by emergency management partners** - the internet has become one of the most used sources of public information. All local emergency management partners that maintain a website, should endeavor to educate the public about hazard mitigation strategies.

### ***Natural Resource Protection***

- ▶ **Encourage local communities to implement an urban forestry program** - many hazards such as ice storm, severe wind or tornado events, result in falling trees and branches which cause power outages and clog public roadways with debris. Urban forestry programs can help keep tree-related damage and impact to a minimum. This type of program should address tree maintenance in a comprehensive manner, from proper tree selection, to proper placement, to proper tree trimming and long-term care.

### ***Emergency Services***

- ▶ **Strengthened electrical/phone infrastructure** - the strengthening of

above-ground infrastructure through use of metal rather than wooden supports can also help reduce the potential for disruption.

- ▶ **Underground infrastructure** - although more costly, underground installation of infrastructure can greatly mitigate the disruption of service caused by natural hazards. While such utility services as sanitary sewer lines, storm sewers, water mains and natural gas lines must be installed beneath the surface of the ground, electric and telephone lines have traditionally been located above-ground. As new or replacement infrastructure is scheduled for installation, the providers should investigate the cost effectiveness, safety benefits and environmental impact of burying these lines.
- ▶ **Back-up power sources for public health and safety facilities** - communities should consider the purchase of generators to provide a backup power source for public health and safety facilities such as water and sewer treatment plants.
- ▶ **Auxiliary power source for critical facilities** - during an emergency, an auxiliary power source is mandatory for many facilities such as hospitals and desirable for all inhabited structures. Auxiliary power is also essential for facilities that serve vulnerable populations, such as child care centers and nursing homes. Standby generators and battery systems are the most common sources of auxiliary power during a power outage.
- ▶ **Train weather spotters** - local weather spotters should be trained to

identify hazardous conditions and notify the proper authorities.

- ▶ **Emergency broadcast systems** - although the Emergency Broadcast System (EBS) is governed by the Federal Communications Commission, local emergency managers are responsible for transmitting emergency information to the EBS. In addition, emergency managers are responsible for ensuring that the information is translated for non-English speakers and made available to those with visual and hearing disabilities.
- ▶ **Emergency shelters** - emergency shelters provide temporary sheltering, food, clothing, sleeping accommodations and sanitary facilities during a local emergency. Special needs must also be addressed in sheltering plans. For instance, individuals requiring medical care may need to be sheltered in “medical shelters” under the supervision of the local health department.
- ▶ **Evacuation plans/evacuation routes** - an emergency plan must be prepared in advance of an emergency to identify those routes adequate for effective evacuation. FEMA also suggests that communities work with local social service organizations, home health agencies and transportation agencies to identify and assist residents who cannot evacuate on their own.
- ▶ **Exercise of plans** - people must become accustomed to emergency operations plans through training exercises designed to increase their awareness through realistic simulations.

### ***Structural Projects***

- ▶ **Better building design** - although minimal standards for various types of construction are mandated, builders can make structures less vulnerable to certain natural and manmade hazards through the use of better design, engineering and construction materials and careful siting of facilities.

### **Natural Hazards**

The following hazard mitigation strategy ideas are natural hazard specific, and they do not repeat the all-hazard mitigation strategies listed above. The mitigative potential of each natural hazard is ranked according to the Hazard Profile Evaluation at the beginning of Chapter 4. This ranking is followed by strategies that are organized under FEMA’s six categories of hazard mitigation strategies (although all six categories may not be addressed under each hazard). The strategy ideas are not intended to be an all-encompassing list, rather a list from which strategy ideas can be drawn for the prioritized hazard mitigation projects.

### **Proposed Mitigation Strategies for Severe Winds and Tornadoes:**

#### ***Mitigative Potential***

The Livingston County Hazard Profile Evaluation ranks the ease with which severe winds and tornadoes can be mitigated against as Impossible.

#### ***Prevention***

- ▶ **Encourage local ordinances regarding the anchoring of manufactured homes** - encourage local communities to adopt an ordinance that requires the anchoring

of manufactured home installations located outside a designated floodplain (this is state mandated within a designated floodplain area).

- ▶ **Disaster insurance** - many states have established wind damage insurance pools that allow residents to purchase wind damage insurance to complement the federal flood insurance.

### ***Property Protection***

- ▶ **Encourage manufactured home owners to voluntarily anchor their units** - mobile home structures outside of designated floodplains are not required to comply with anchoring provisions, however, owners may wish to comply if made aware of this property protection measure.
- ▶ **Retrofit buildings with structural bracing and metal connectors** - the Emergency Management Division, Michigan Department of State Police and the Michigan State Housing Development Authority have begun a small pilot program to protect new construction by installing structural bracing and metal connectors at critical points of connection in the frame of a structure. If this pilot program is successful, it may be expanded in the future to include retrofitting existing residential and commercial structures.
- ▶ **Storm shutters** - storm shutters on buildings minimize the potential of injury from flying glass or debris.
- ▶ **Plant windbreaks** - plants of varying heights, widths, species, and composition, planted either

individually or in rows, have varying degrees of effect on reducing wind velocity.

### ***Public Education and Awareness***

- ▶ **Outdoor warning siren systems** - warning sirens should be in place in densely populated areas where they are most effective.

### ***Emergency Services***

- ▶ **Coordinate with utility companies on local restoration priorities and procedures**

### **Proposed Mitigation Strategies for Snowstorms, Ice and Sleet:**

#### ***Mitigative Potential***

The Livingston County Hazard Profile Evaluation ranks the ease with which snowstorms, ice and sleet can be mitigated against as Impossible.

#### ***Property Protection***

- ▶ **Auxiliary Heat Source** - Since severe winter storms often cause power outages, an auxiliary heat source for individual residences minimizes the need for evacuation to emergency shelters. Possible auxiliary heat sources include fireplaces, wood burning stoves, etc.

#### ***Emergency Services***

- ▶ **All-terrain emergency vehicles** - following a severe winter storm, all-terrain vehicles may be necessary for emergency evacuation, emergency transit and delivery of needed supplies. Therefore, an emergency



manager should be aware of available all-terrain vehicles, snowmobiles, four-wheel-drive vehicles, utility vehicles and other such vehicles capable of traversing severe winter conditions.

- ▶ **Keep storm windows up all year** - storm windows can keep the heat out of a house in the summer the same way they keep cold out in the winter.

### **Structural Projects**

- ▶ **Building orientation** - Since many winter storms travel in a predictable direction, the location of an exterior exit downwind from the prevailing storm path maximizes the occupants' ability to exit a structure after such an occurrence.
- ▶ **Buffer spaces around buildings** - As a mitigation measure, open areas devoid of trees and structures can serve several purposes. If building construction is planned with buffer spaces surrounding it, this open area can be used to pile snow after winter storms.
- ▶ **Increased insulation/increased roof pitch** - While increased structural insulation can help mitigate the severity of a winter storm, an increased roof pitch may minimize the potential for structural damage from excessive snow accumulation.

### **Proposed Mitigation Strategies for Extreme Cold/ Extreme Heat:**

#### ***Mitigative Potential***

The Livingston County Hazard Profile Evaluation ranks the ease with which extreme cold and extreme heat can be mitigated against as Possible.

#### ***Property Protection***

- ▶ **Insulate spaces around air conditioners for a tighter fit**

### **Emergency Services**

- ▶ **Designated cooling/warming centers** - before a heat or cold emergency occurs, designate facilities with reliable air conditioning/heating capabilities as cooling/warming centers (perhaps facilities with back-up generators in case of power loss).

### **Proposed Hail/ Lightning Mitigation Strategies:**

#### ***Mitigative Potential***

The Livingston County Hazard Profile Evaluation ranks the ease with which hail can be mitigated against as Impossible. Lightning is not ranked in the Hazard Profile Evaluation.

### **Emergency Services**

- ▶ **Local lightning detection systems** - a technologically advanced lightning location system called the National Lightning Detection Network (NLDN) was invented by a private company in Arizona. Local lightning detection systems are increasingly being installed at outdoor recreation facilities such as golf courses, parks, and pools. The detection devices monitor electrical activity in the air and activate a warning light or horn if favorable lightning conditions exist. This early warning system can give local officials the time

necessary to clear outdoor areas before actual lightning strikes occur.

- ▶ **Participation in the Huron River Watershed Council**

### **Proposed Flooding Mitigation Strategies:**

#### ***Mitigative Potential***

The Livingston County Hazard Profile Evaluation ranks the ease with which flooding can be mitigated against as Difficult.

#### ***Prevention***

- ▶ **Adopt, administer and enforce best floodplain management practices** - practices that are over and above the basic requirements of the NFIP's community participation requirements.
- ▶ **Establish development requirements for small watercourses** - adopt requirements not addressed in Michigan Floodplain Regulatory Authority regulations.
- ▶ **Emergency plans and requirements for development downstream of a dam** - special planning requirements for the area downstream of a dam that would be flooded in the event of a failure. The greatest potential for dam failure is during a flood when water levels are the highest.
- ▶ **Participation in the Natural Rivers Program** - participation and administration of program requirements.
- ▶ **Disclosure** - disclosure is defined as the revealing of facts which may be relevant to interested and involved parties. Disclosure includes revealing that a given piece of property or a structure is located in a flood hazard zone.

#### ***Property Protection***

- ▶ **Encourage community participation in the National Flood Insurance Program** - for communities which do not participate in the National Flood Insurance Program (NFIP), three sanctions are imposed. First, federally-backed flood insurance is not available. Second, insurable properties are eligible for limited Federal assistance following a Presidentially-declared disaster. Third, federally regulated lenders cannot approve mortgages for structures without flood insurance. For these reasons, all communities that qualify are strongly encouraged to participate in the NFIP.
- ▶ **Community upgrade of Community Rating System (CRS) classification** - to achieve a better flood insurance rate class thereby reducing costs to residents.
- ▶ **Relocation of homes in flood prone areas** - such as near dams, in floodplains and on peninsulas between water courses.
- ▶ **Relocation of utilities** - utilities should be relocated above flood level in flood prone areas. Most wastewater facilities are located in low lying areas due to the gravity-based flow systems typical of treatment plants. Options include relocating the facility to higher ground and installing pump systems to carry the waste uphill, or flood proofing the existing facility. The relocation of wastewater treatment facilities should be undertaken as a last resort.

- ▶ **Relocation of uses that are environmentally hazardous out of the floodplain** - by moving hazards out of the floodplain, the dispersal of toxic chemicals and agricultural waste into adjacent communities and river systems is reduced significantly.
- ▶ **Elevation of structures** - to avoid or minimize flood damage, the lowest floor of structures should be elevated to a point at or above the base flood elevation (BFE) in floodprone areas.
- ▶ **Floodproofing** - existing structures and facilities can be retrofitted to make them more floodproof thereby better protecting the contents of buildings. Floodproofing allows the structure to remain in its existing location while reducing the likelihood of flood related damages.

#### **Public Education and Awareness**

- ▶ **Encourage county homeowners to purchase flood insurance** - increase awareness that flood damages are not covered by homeowners policies.
- ▶ **Increase awareness of public health and environmental health concerns** - technical assistance regarding drinking water and sanitation is necessary during and after a flood emergency. Water wells must be tested for contamination.
- ▶ **Homeowner lawn care education** - community education regarding keeping nutrients such as fertilizers out of waterways so that unnatural vegetation growth does not congest water course areas.
- ▶ **Training for private dam operators** - training on the most up-to-date

practices regarding dam management.

#### **Natural Resource Protection**

- ▶ **Establishment of parks in the floodplain** - use of a floodplain as parkland is a good way to provide public access to the natural environment while eliminating uses that add impervious surface and contribute to the possibility of flooding.
- ▶ **River, lake and stream management** - management requirements such as minimum setbacks from a watercourse and retention of natural vegetation in the setback area.
- ▶ **Drainage management** - culverts, county drains, etc...
- ▶ **Erosion control during building processes**
- ▶ **Watershed management** - A watershed is defined as the total area drained by a given stream or river. A watershed management plan should include a watershed analysis complete with statistical, schematic and graphic information that can be used to calculate potential runoff, simulate flooding conditions, analyze proposed site plans and storm drain layout.
- ▶ **Storm sewer management**
- ▶ **Storm water management** - communities should regularly inspect drainage improvements and review drainage maintenance programs. Drainage structures, including culverts and pipes, should be upgraded as needed. Perhaps most important is

the need for communities to better coordinate proposed improvements and existing water management plans with neighboring locales in order to improve basin-wide storm water management.

### ***Emergency Services***

- ▶ **Sandbags and sandbag filling machines**
- ▶ **Devices that warn of dam failure**

### ***Structural Projects***

- ▶ **River and stream bank stabilization**
- ▶ **Dam repair or replacement**
- ▶ **Creation of drainage systems** - intended to prevent or alleviate flooding by retarding the amount of runoff reaching a body of water immediately following a heavy rain, and may consist of catch basins, detention areas, detention ponds, retention basins, storm sewers, swales, ditches, or any combination thereof.
- ▶ **Retrofits of transportation infrastructure** - in areas prone to flooding, roads and bridges may need to be reinforced to withstand flooding stresses.
- ▶ **Separation of storm drainage systems from sanitary sewage systems**

### **Proposed Mitigation Strategies for Dam Failure:**

#### ***Mitigative Potential***

The Livingston County Hazard Profile Evaluation ranks the ease with which dam failure can be mitigated against as Difficult.

#### ***Prevention***

- ▶ **Emergency action plans** - dams that are over six feet in height that create an impoundment with a surface area of more than 5 acres, are required to maintain an Emergency Action Plan. This plan must be consistent with the local emergency operation plan .

#### ***Emergency Services***

- ▶ **Dam warning systems** - warning systems should be in place to alert the public in the event of a dam failure.

#### ***Public Education and Awareness***

- ▶ **Public official awareness** - an outreach effort should be undertaken to make public officials more aware of the potential dangers associated with existing dams, particularly those that are no longer operational.
- ▶ **Technical assistance to private dam owners** - private dam owners should be instructed about proper dam maintenance and operation.

#### ***Emergency Services***

- ▶ **Dam inspections** - regular inspections that assess the structural integrity of dams by a regulatory authority such as a local Drain Commissioner's office.

#### ***Structural Projects***

- ▶ **Dam repair** - exacerbating the

potential risk to citizens is the disrepair of many dams and the lack of sound plans to help guide necessary repairs.

### **Proposed Wild Fire Mitigation Strategies**

#### ***Mitigative Potential***

The Livingston County Hazard Profile Evaluation ranks the ease with which wildfires can be mitigated against as Possible.

#### ***Prevention***

- ▶ **Fire-resistant landscaping ordinance language** -the spacing, height and type of landscaping can be regulated to minimize the spreading of fires from one structure to another. For example, local zoning ordinances could discourage the use of such flammable shrubs as cedar, pine and spruce. The National Wildland/Urban Interface Fire Program has published many helpful materials on how to create a fire-resistant landscape.
- ▶ **Greenbelts** - required greenbelts (open areas or areas with plantings) can surround a development, act as a buffer between land uses, or mark the edge of a developed area. Well-maintained greenbelts containing little, if any, landscaping can serve as a temporary break in the advance of wildfire.
- ▶ **Burn permits** - to prevent the spread of fires intentionally set to burn debris, leaves, brush, etc., many communities require the issuance of a burn permit by the local fire department. The purpose of requiring such a permit is to allow the fire department to regulate

the type, size, duration, supervision, conditions and timing of such fires. During dry periods or during high wind conditions, a permit to burn materials may be denied.

- ▶ **Site plan design** - some local communities have language in their zoning ordinance which includes the local Fire Chief in the site plan review process. It is beneficial for a Fire Chief to review a site plan to make certain that the plan assists fire suppression efforts through measures such as: adequate vehicular access, adequate signage for streets, roads and buildings, and provision of adequate emergency water supplies.
- ▶ **Outdoor burning ban** - when conditions of extreme fire hazard exist, the Michigan Department of Natural Resources can request that the Governor issue an outdoor burning ban to mitigate the potential for wildfire in all or part of the state. A ban of this nature would restrict smoking, fireworks, and outdoor burning activities.

#### ***Property Protection***

- ▶ **Firewise construction** - firewise construction involves the use of building material alternatives such as: fire-resistant sub-roofs, slate or clay tiles, stucco or masonry exterior wall facing, and non-flammable shutters.
- ▶ **Roof sprinklers** -since the spread of forest fires is accelerated by airborne embers capable of igniting a roof surface, the installation of roof-top sprinkler systems is helpful in

wildfire-prone areas.

### ***Public Education and Awareness***

- ▶ **Public education regarding the Firewise Communities Wildfire Protection Program** - this program is designed to educate government officials and a wide variety of professionals, about ways in which communities can be designed and built to minimize the threat from wildfires. The Firewise Communities Program holds workshops around the country and also produces and distributes guidance documents, videos, and software packages on wildland/urban interface fire issues.

### **Proposed Drought Mitigation Strategies**

#### ***Mitigative Potential***

The Livingston County Hazard Profile Evaluation ranks the ease with which drought can be mitigated against as Difficult.

#### ***Natural Resource Protection***

- ▶ **Stream gauges** - in cooperation with the U.S. Geological Survey, over 600 government agencies operate stream gauges for data collection. Stream flow data is a good measure of the relative severity of drought.

### **Proposed Mitigation Strategies for Public Health:**

#### ***Mitigative Potential***

The Livingston County Hazard Profile Evaluation in Chapter 4 does not rank the ease with which public health can be

mitigated against, however this hazard is addressed in the appendix of this plan and the following mitigation strategies may be beneficial to Livingston County:

#### ***Prevention***

- ▶ **Food service inspections** - routine inspections of food service facilities help protect county consumers from serious foodborne illnesses.
- ▶ **Disease surveillance** - develop collaborative relationships between the agricultural production community, area veterinarians, and appropriate local and state governmental agencies to enhance or put in place systems for animal and human disease surveillance.

#### ***Property Protection***

- ▶ **Septic tank protection** - proper location, installation, cleaning, monitoring and maintenance of septic tanks.
- ▶ **Point of Sale program** - develop and implement a county wide Point of Sale program that would ensure adequate wastewater and water supply infrastructure to the new property owner.

#### ***Public Education and Awareness***

- ▶ **Septic and well education** - education directed towards new residents that have come from urban areas and do not have prior experience in how to properly clean, monitor and maintain a septic or well system.

- ▶ **Availability of immunizations** - make the public aware of how to receive immunizations against communicable diseases.
- ▶ **Communications with special populations** - ensure that special populations within Livingston County have ready access to all emergency event information (e.g. emergency broadcast radio within nursing homes...)

### ***Emergency Services***

- ▶ **Response plans for special populations** - develop response plans to deliver emergency services to the various special populations within Livingston County.

### ***Structural Projects***

- ▶ **Communication Systems** - install and/or implement communication systems across all health care and human service agencies to ensure interoperability and redundancy.

### **Sources:**

*Comprehensive Plan/Hazard Mitigation Interface*, Livingston County Department of Planning, Winter 1998-1999

*Local Hazard Mitigation Planning Workbook*, Emergency Management Division Michigan Department of State Police, EMD-PUB 207, June 2001

*Michigan Hazard Mitigation Plan*, Emergency Management Division, Michigan Department of State Police, EMD Publication 106, March 2000

*Michigan Hazard Analysis*, Michigan Department of State Police, Emergency Management Division, March 2000

*State And Local Mitigation Planning how-to guide: Understanding Your Risks*, Federal Emergency Management Agency, Version 1.0, August 2001

FEMA Factsheets and Backgrounder information resources on hazards, <http://www.fema.gov/hazards/>

*Hazard Mitigation Plan*, Town of Merrimack, New Hampshire, September 2002

## **Chapter 10: Hazard Mitigation Strategies, Implementation Plan and Plan Maintenance**

### **Hazard Mitigation Strategies**

The Hazard Mitigation Strategies of this plan were developed by:

1. reviewing the established goals and objectives of this plan;
2. analyzing existing/active hazard mitigation strategies in Livingston County;
3. determining which goals and objectives of this plan are not being addressed or are inadequately being addressed by existing/active hazard mitigation strategies in Livingston County;
4. examining other potential strategies that have been identified and practiced by other sources and;
5. selecting hazard mitigation approaches from this list of potential strategies, that address the goals and objectives of the plan that were not being addressed or were inadequately being addressed.

The resulting list of 2017 hazard mitigation strategies was updated by the Livingston County Local Emergency Planning Committee (LEPC).

The following list of hazard mitigation strategies is presented in a table format. The hazard mitigation strategies are listed under the headings of Goal #1 through Goal #5. In the column next to each strategy is the corresponding objective(s) of the plan being addressed by the strategy.

The table also notes all strategies from the 2007 Livingston County Hazard Mitigation Plan that were completed, deleted, new or continued to this 2017 plan.

<b>New or Continued Hazard Mitigation Strategies</b>	<b>Plan Goal #1 and Objective(s) Being Addressed</b>
<p>Partner with at least five local communities to incorporate hazard mitigation regulations into their community zoning ordinances. (CONTINUED)</p>	<p><b>Goal #1: Reduce property damage and create disaster resistant structures by encouraging the integration of hazard mitigation considerations into land use planning and management, and land development processes.</b></p> <p><b>Objectives:</b> Multiple objectives under this goal relate to adopting zoning ordinance language that regulates hazard issues such as: impervious surface, watercourses, and flood plains.</p>



<b>New or Continued Hazard Mitigation Strategies</b>	<b>Plan Goal #1 and Objective(s) Being Addressed</b>
<p>Partner with at least five local communities to incorporate hazard mitigation policies into their community master plans. (CONTINUED)</p>	<p><b>Goal #1 (see previous page)</b>  <b>Objective:</b> Encourage Livingston County communities to integrate the goals and objectives of the <i>Hazard Mitigation Plan, Livingston County, Michigan</i>, into their master plan.</p> <p><b>Objective:</b> Encourage Livingston County communities to integrate hazard mitigation language throughout their master plan or as a separate element (chapter) within their master plan (with use of content from the <i>Hazard Mitigation Plan, Livingston County, Michigan</i>).</p>
<p>Feature this best practice in the new 2017 Livingston County Master Plan so that this zoning technique will be more commonly known by Livingston County communities and better understood so that the practice can be replicated. (NEW)</p>	<p><b>Goal #1 (see previous page)</b>  <b>Objective:</b> Encourage additional Livingston County communities to replicate and adopt the zoning ordinance language of our Huron River communities regarding stream bank preservation and buffering, in order to protect other prominent river and stream corridors in Livingston County.</p>
<p>Encourage Livingston County communities with repetitive flooding events to draft a flood action plan modeled after Hamburg Township's Flood Response Action Plan to minimize losses associated with flooding.</p>	<p><b>Goal #1 (see previous page)</b>  <b>Objective:</b> Encourage Livingston County communities to practice floodplain management practices by adopting zoning ordinance and master plan language that prohibits new development in flood plain areas and classifies current development in floodplains as nonconforming uses that will eventually be eliminated.</p>
<b>New or Continued Hazard Mitigation Strategies</b>	<b>Plan Goal #2 and Objective(s) Being Addressed</b>
<p>Organize and provide training for private dam operators in Livingston County; training would include up-to-date dam management practices. Evaluate structural integrity of county dams when warranted and make recommendations for replacement or removal. (CONTINUED)</p>	<p><b>Goal #2: Employ Livingston County land use practices that minimize vulnerability to all hazards.</b></p> <p><b>Objective:</b> Encourage disaster-resistant management practices for public and private dams in Livingston County.</p>

<p><b>New or Continued Hazard Mitigation Strategies</b></p>	<p><b>Plan Goal #2 and Objective(s) Being Addressed</b></p>
<p>Facilitate the acquisition of approximately 25 flood-prone properties in lowlands surrounding Limekiln Lake in Green Oak Township. (CONTINUED)</p>	<p><b>Goal #2: (See previous page)</b>  <b>Objective:</b> Encourage proper separation and buffering between potentially hazardous land uses and all other land uses; particularly those land uses with special needs populations such as schools, nursing homes and hospitals.</p>
<p><b>New or Continued Hazard Mitigation Strategies</b></p>	<p><b>Plan Goal #3 and Objective(s) Being Addressed</b></p>
<p>Feature these best practices in the new 2017 Livingston County Master Plan so that these zoning techniques will be more commonly known by Livingston County communities and better understood so that the practices can be replicated. (NEW)</p>	<p><b>Goal #3: Employ Livingston County land use practices that minimize disturbance to natural features and decrease the potential for natural disasters.</b></p> <p><b>Objective:</b> Avoid structures on hilltop location. Site new development away from slopes of 12% or greater, and soft soils that are prone to soil erosion.</p> <p><b>Objective:</b> Encourage open space and agricultural preservation as a means of maintaining a buffer zone or defensible space between structures and natural features that are vulnerable to hazards (e.g. grasslands, woodlands, flood plains, water courses).</p>
<p><b>New or Continued Hazard Mitigation Strategies</b></p>	<p><b>Plan Goal #4 and Objective(s) Being Addressed</b></p>
<p>Develop a model partnership program for maintaining stream guage devices in the Huron River, so that this model can be replicated for establishing and maintaining stream guages in other Livingston County watercourses.(NEW)</p>	<p><b>Goal #4: Minimize disaster-related injuries and loss of life through public education, hazard analysis, and early warning.</b></p> <p><b>Objective:</b> Encourage a collaborative approach to establishing and maintaining stream guage devices in Livingston County water courses that are prone to flooding.</p>

<p><b>Completed or Removed Hazard Mitigation Strategies</b></p>	<p><b>Plan Goal Being Addressed and Reason for Action</b></p>
<p>Assist with the removal of invasive weeds that contribute to the flooding of Ore Lake and the Huron River.(REMOVED)</p>	<p><b>Goal #3.</b> The Livingston County LEPC decided to remove this strategy. The strategy is currently administered by Hamburg Township with much success.</p>
<p>Assist the MDEQ/FEMA initiative to update Livingston County floodplain maps. (COMPLETED)</p>	<p><b>Goal #5.</b> This strategy was completed by the Livingston County Geographic Information Services (GIS) department.</p>
<p>Address land use/hazard mitigation conflicts in Howell Township surrounding the Livingston County Airport. Facilitate cooperation between County and Howell Township officials to minimize conflicts along the airport boundaries.(COMPLETED)</p>	<p><b>Goal #5.</b> Livingston County Administration, Airport and Planning departments assisted Howell Township with zoning and property parcel changes for land within and surrounding the Livingston County Airport. These changes have greatly minimized the potential for land use/hazard mitigation conflicts.</p>
<p>Assist in the development of a county-wide septage disposal program that provides methods of safe and effective disposal while minimizing septage impacts that contribute to other hazards. (REMOVED)</p>	<p><b>Goal #5.</b> The Livingston County LEPC decided to remove this strategy because it was no longer a top priority. This strategy is being effectively addressed by Livingston County Department of Public Health, and the Drain Commission through the Livingston County septage receiving station.</p>
<p><b>NOTE:</b> The Mitigation Strategies noted in this table are furthered in the following Implementation Plan. The Implementation Plan indicates the Livingston County community partners that will be involved in each strategy.</p>	<p><b><u>Implementation Plan</u></b></p> <p>The columns of the following table note the strategy, responsible entity and partner entities, local community partners, suggested funding and other resources, the suggested time frame for accomplishing the strategy, and finally, the hazard(s) that each project addresses, along with the FEMA category of mitigation that is addressed by the strategy (FEMA's six broad categories of mitigation strategy are described in Chapter 9: Potential Hazard Mitigation Strategies). This last column of information helps clarify the purpose of each prioritized hazard mitigation strategy.</p>

<b>Implementation Plan</b>						
<b>Strategy</b>	<b>Responsible Entities</b>	<b>Community Partners</b>	<b>Funding and Other Resources</b>	<b>Time Frame</b>	<b>Hazard and FEMA Mitigation Strategy</b>	
Partner with at least five local communities to incorporate hazard mitigation regulations into their community zoning ordinances.	Livingston County Planning Department	Genoa, Green Oak, Hamburg, Marion and Putnam Townships	In-kind Livingston County Government staff costs. Local zoning ordinances, and best practices.	2017-2019	All - Hazards Approach. Prevention.	
Partner with at least five local communities to incorporate hazard mitigation policies into their community comprehensive or master plans.	Livingston County Planning Department	Genoa, Green Oak, Hamburg, Marion and Putnam Townships	In-kind Livingston County Government staff costs. Local comprehensive or master plans, and best practices.	2017-2019	All - Hazards Approach. Prevention.	
Include in the new Livingston County Master Plan a best practice regarding river and stream bank preservation, so that Livingston County communities can replicate this practice in their local master plans and zoning ordinances.	Livingston County Planning Department	Green Oak Charter Township	In-kind Livingston County Government staff costs. Local best practices (such as Green Oak Charter Township's natural river and tributary overlay zone)	2017	Flooding. Natural Resource Protection.	

<b>Implementation Plan</b>					
<b>Strategy</b>	<b>Responsible Entities</b>	<b>Community Partners</b>	<b>Funding and Other Resources</b>	<b>Time Frame</b>	<b>Hazard and FEMA Mitigation Strategy</b>
Encourage Livingston County communities with repetitive flooding events to draft a flood action plan to minimize losses associated with flooding. This best practice can be promoted through the County Planning Department newsletter and other methods of communication.	Livingston County Planning Department, and Drain Commissioner's Office	Hamburg Township	In-kind Livingston County Government staff costs. Local best practices (such as Hamburg Township's Flood Response Action Plan.	2017-2019	Flooding. Natural Resource Protection.
Organize and provide a training for private dam operators in Livingston County, training would involve up-to-date dam management practices. Evaluate structural integrity of county dams and when warranted, make recommendations for replacement or removal.	Livingston County Drain Commissioner's Office and Emergency Management	All communities with dams: Brighton, Cohoctah, Deerfield, Genoa, Green Oak, Hartland, Hamburg, Howell, Putnam, Tyrone and Unadilla Townships, and the City of Howell. Additionally, Marion Township at their request.	In-kind Livingston County Government staff costs.	2017-2021	Flooding / Dam Failure. Prevention.

<b>Implementation Plan</b>					
<b>Strategy</b>	<b>Responsible Entities</b>	<b>Community Partners</b>	<b>Funding and Other Resources</b>	<b>Time Frame</b>	<b>Hazard and FEMA Mitigation Strategy</b>
Facilitate the acquisition of approximately 25 flood-prone properties in lowlands surrounding Limekiln lake in Green Oak Township.	Livingston County Drain Commissioner's Office and Emergency Management	Green Oak Charter Township	In-kind Livingston County Government staff costs, and Hazard Mitigation Grant Program (HMGP) funds. Past successful HMGP grants and the Michigan State Police Emergency Management	2017-2021	Flooding. Property Protection.
Develop a model partnership program for maintaining stream gauge devices in the Huron River, so that this model can be replicated for establishing and maintaining stream gauges in other Livingston County watercourses that are prone to flooding.	Livingston County Drain Commissioner's Office and Emergency Management	Hamburg Township, Green Oak Township, Livingston County Drain Commission, Huron Clinton Metropark Authority	In-kind Livingston County staff costs. Case scenario from recent (2015) partnership to maintain a critical Huron River stream gauge	2017-2021	Flooding. Property Protection.

<b>Implementation Plan</b>					
<b>Strategy</b>	<b>Responsible Entities</b>	<b>Community Partners</b>	<b>Funding and Other Resources</b>	<b>Time Frame</b>	<b>Hazard and FEMA Mitigation Strategy</b>
<p>All Livingston County communities will be participants in the new public emergency alerting system through Everbridge and IPAWS. This alerting system will be utilized for imminent life safety events such as: tornados, hazardous material events, active assailants, blizzard warnings, and escaped prisoners.</p>	<p>Livingston County EMS and Emergency Management</p>	<p>Emergency providers in all twenty local units of government in Livingston County. General public in all twenty local units of government in Livingston County.</p>	<p>In-kind Livingston County staff costs. The system will be marketed at public meetings, through social media, radio, and local newspaper articles. There will also be opportunities for signing up for the alerts at community events such as the Livingston County Preparedness Expo.</p>	<p>2017-2019</p>	<p>All-Hazards Approach. Public Education and Awareness.</p>
<p>Develop and distribute a summary version of the adopted 2017 Livingston County Hazard Mitigation Plan. The summary plan should be distributed to all local units of government and emergency service providers, and should be accompanied by a presentation that provides an overview of the full content of the plan in order to facilitate adoption of the plan by local units of government.</p>	<p>Livingston County Emergency Management</p>	<p>All twenty local units of government in Livingston County.</p>	<p>In-kind Livingston County staff costs.</p>	<p>2017-2018</p>	<p>All-Hazards Approach. Public Education and Awareness.</p>

<b>Implementation Plan</b>					
<b>Strategy</b>	<b>Responsible Entities</b>	<b>Community Partners</b>	<b>Funding and Other Resources</b>	<b>Time Frame</b>	<b>Hazard and FEMA Mitigation Strategy</b>
In compliance with Michigan Act 390 of 1976, assist jurisdictions with more than 10,000 residents develop and maintain Emergency Support Plans that coincide with the County's Emergency Operation Plan (EOP). Make the County EOP available to all local units of government and emergency service providers for review and host a presentation that provides an overview of the full content of the plan.	Livingston County Emergency Management	The following jurisdictions within Livingston County either have a current Emergency Support Plan or are actively working on developing one with the guidance of the Livingston County Emergency Management Department; Brighton City and Brighton, Genoa, Green Oak, Hamburg, Hartland, Marion, Ocoila and Tyrone Townships.	In-kind Livingston County staff costs.	2018-2019	All-Hazards Approach. Public Education and Awareness.



<b>Implementation Plan</b>					
<b>Strategy</b>	<b>Responsible Entities</b>	<b>Community Partners</b>	<b>Funding and Other Resources</b>	<b>Time Frame</b>	<b>Hazard and FEMA Mitigation Strategy</b>
Obtain commitments from at least five local communities for the draft and adoption of their local hazard mitigation plan. This plan should include a hazard analysis and loss estimation for their community based on the methods used in the County Hazard Mitigation Plan. Lend technical assistance.	Livingston County Emergency Management and Planning Departments.	The five most populated local jurisdictions in Livingston County: Brighton, Genoa, Green Oak, Hamburg and Hartland Townships, and Marion Township at their request.	In-kind Livingston County staff costs.	2017-2021	All-Hazards Approach. Prevention.
Begin revising the Livingston County Hazard Mitigation Plan to prepare for the new 5 year cycle of hazard mitigation planning beginning in 2022	Livingston County Emergency Management	Emergency providers in Local Emergency Planning Committee	In-kind Livingston County staff costs.	2019-2021	All-Hazards Approach. Public Education and Awareness. Prevention.

<b>Implementation Plan</b>						
<b>Strategy</b>	<b>Responsible Entities</b>	<b>Community Partners</b>	<b>Funding and Other Resources</b>	<b>Time Frame</b>	<b>Hazard and FEMA Mitigation Strategy</b>	
Continue to work on flood mitigation strategies with the 17 local communities who currently participate in the National Flood Insurance Program, and encourage the three non-participating local communities to take part in the NFIP program.	Livingston County Emergency Management and Drain Commissioner's Office.	All jurisdictions in Livingston County.	In-kind Livingston County staff costs.	2017-2021	Flooding. Public Education and Awareness. Property Protection.	
Host and facilitate an Emergency Management coordination meeting with long-term care facilities in Livingston County.	Livingston County EMS and Emergency Management.	The jurisdictions in Livingston County that have long-term care facilities: the 2 cities and 2 villages, as well as Brighton, Genoa, Hamburg, Hartland, Howell and Marion Townships.	In-kind Livingston County staff costs.	2016-2017	All-Hazards Approach. Public Education and Awareness. Prevention. Emergency Services.	

### **Plan Maintenance**

The Livingston County Hazard Mitigation Plan will be updated every five years. The revision process will begin 2 years ahead of the completion of each five year cycle.

In order to track progress, move forward with mitigation accomplishments and update the Hazard Mitigation Strategies identified in this plan, it is recommended that Livingston County's Local Emergency Planning Committee (LEPC) review the strategies annually or after a hazardous event. The LEPC will determine whether or not strategies have been completed or are no longer feasible and should be removed from the plan. The committee's recommended revisions will be reflected in the five year update of the plan. The Emergency Program Manager is responsible for initiating this review.

A public hearing to review recommended updates to the plan and to receive public comments, will be held during the five year update of the Livingston County Hazard Mitigation Plan. The County Board of Commissioners will adopt the revised plan, as well as the appropriate boards/councils of the twenty local units of government in Livingston County.

### **Sources:**

*Comprehensive Plan/Hazard Mitigation Interface*, Livingston County Department of Planning

*Michigan Hazard Mitigation Plan*, Emergency Management Division, Michigan Department of State Police, EMD Publication 106, March 2000

*Michigan Hazard Analysis*, Michigan Department of State Police, Emergency Management Division

*State and Local Mitigation Planning how-to guide: Understanding Your Risks*, Federal Emergency Management Agency, Version 1.0, August 2001

*Hazard Mitigation Plan*, Town of Merrimack, New Hampshire, September 2002

*Local Hazard Mitigation Planning Workbook*, Michigan Department of State Police, Emergency Management Division, EMD-PUB 207, June 2001

# AGENDA ITEM

10E

## Monthly Activity Report for June 2017 – Assessing Dept/Brent Kilpela

### MTT UPDATE:

**7-Eleven v Howell Township:** Pre-hearing general call will be January 2018.

**Burkhart Ridge v Howell Township:** Pre-hearing general call will be in November of 2017.

**General Motors LLC v Howell Township:** 2017 Personal Property Appeal. Will be able to settle without the assistance of the Township Attorney.

**Burkhart Road Associates, LLC v Howell Township:** 2017 Commercial Vacant Land appeal. Not anticipating using the Attorney's assistance.

### SMALL CLAIMS TRIBUNAL:

**Shirley Vaccaro v Howell Township:** Hearing date set for August 9<sup>th</sup> 2017.

### ASSESSING OFFICE:

**ASSESSOR:** For the month of June, I have focused much of my time on getting the field work done. I have split the new Oak Grove Meadows site condominium from 1 parent parcel to 100 child parcels. Will be helping Treasury split the special assessments on the winter tax bills. The July Board of Review will be held on Tuesday July 18<sup>th</sup> at 9:30. I have been assembling the July Board of Review docket.

**JOE DAUS, FIELD INSPECTOR:** Has been sketching the field work with Apex.

**OTHER:** Will be helping Joe Daus implement the new BS&A module for tracking building permits and projects requiring an escrow.

**AGENDA ITEM**

**10K**

June 19, 2017

Howell Township Board  
Sewer and Water District #8

I have been reviewing each district and have discovered several parcels that were not being charged the sewer debt fee that should have been charged. Jane has corrected these mistakes and they are now being billed. During this review another parcel came to light that opted out of sewer district #8 but has been charged the sewer debt fee. In order to correct this mistake I recommend to the Board that we refund the money paid to the Township for address 3305 Oak Grove Rd. Account details will be provided for your review.

The Township has received a few calls in district #8 about failing septic systems. As we looked into these parcels we discovered that 9 parcels (one is vacant) are unable to conventionally hook-up to the sewer due to a high pressure line and lack of fall along these parcels, see attachment. According to the engineer of the system these parcels could hook up to the high pressure line if they used a grinder pump. I recommend that we allow these parcels to fix their septic fields if they wish and if the County will allow it; otherwise they will need to hook up to the high pressure line following the engineers plan.

Respectfully submitted,

Jonathan Hohenstein  
Howell Township Treasurer

<u>Parcel #</u>	<u>Address on Oak Grove Rd.</u>	
4706-14-401-006		3409
4706-14-401-005		3387
4706-14-401-004		3365
4706-14-401-002		3333
4706-14-401-001		3305
4706-14-400-012	Vacant	
4706-13-300-003		3300
4706-13-300-014		3304
4706-13-300-015		3342



# AGENDA ITEM

13

**Howell Township**  
**Invoice and Check Registers**

**As of 7/5/2017**

User: BRENT KILPELA  
 DB: Howell Twp

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized
Inv Ref#	Description	Entered By					Post Date
	GL Distribution						

5/22/2017	LIVINGSTON COUNTY TREASURER	05/22/2017	06/15/2017	750.00	0.00	Paid	Y
15404	MOBILE HOME FEES	BRENT KILPELA					05/23/2017
	701-000-239.00	TRUST MOBILE HOME TAX PAYABLE		750.00			

06/06/2017	BROOKS, CASSANDRA	06/06/2017	06/13/2017	11.35	0.00	Paid	Y
15418	UB refund for account: 0627201035	BRENT KILPELA					06/08/2017
	590-000-214.89	SEWER METERED		11.35			

517540696305	AT&T	05/22/2017	06/10/2017	41.45	0.00	Paid	Y
15419	517 540-6963 JUNE 2017	BRENT KILPELA					06/08/2017
	590-442-850.00	WWTP TELEPHONE EXPENSE		41.45			

517540695205	AT&T	05/22/2017	06/10/2017	42.82	0.00	Paid	Y
15420	517 540-6952 FOR JUNE 2017	BRENT KILPELA					06/08/2017
	590-442-850.00	WWTP TELEPHONE EXPENSE		42.82			

517540124105	AT&T	05/22/2017	06/10/2017	54.15	0.00	Paid	Y
15421	517 540-1241 FOR JUNE 2017	BRENT KILPELA					06/08/2017
	590-442-850.00	WWTP TELEPHONE EXPENSE		54.15			

517540694705	AT&T	05/22/2017	06/10/2017	42.65	0.00	Paid	Y
15422	517 540-6947 FOR JUNE 2017	BRENT KILPELA					06/08/2017
	590-442-850.00	WWTP TELEPHONE EXPENSE		42.65			

517546516005	AT&T	05/22/2017	06/10/2017	53.64	0.00	Paid	Y
15423	517 546-5160 FOR JUNE 2017	BRENT KILPELA					06/08/2017
	590-442-850.00	WWTP TELEPHONE EXPENSE		53.64			

517548561905	AT&T	05/28/2017	06/19/2017	41.45	0.00	Paid	Y
15424	517 548-5619 FOR JUNE 2017	BRENT KILPELA					06/08/2017
	590-442-850.00	WWTP TELEPHONE EXPENSE		41.45			

206433084379	CONSUMERS ENERGY	05/31/2017	06/23/2017	17.61	0.00	Paid	Y
15425	391 N BURKHART JUNE 2017	BRENT KILPELA					06/08/2017
	590-442-922.00	WWTP NATURAL GAS EXPENSE		17.61			

006-41602	CUMMINS BRIDGEWAY, LLC	05/25/2017	06/25/2017	81.00	0.00	Paid	Y
15426	SERVICE CALL	BRENT KILPELA					06/08/2017

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590-442-801.00 WWTWP CONTRACTED SVCS EXPENSE 81.00

6/1/2017  
15427 LIVINGSTON COUNTY TREASURER 06/01/2017 06/15/2017 255.00 0.00 Paid Y

DOG LICENSES BRENT KILPELA  
701-000-238.00 TRUST DUE TO COUNTY DOG LICENSE 255.00

205098347437  
15428 CONSUMERS ENERGY 06/01/2017 06/26/2017 100.54 0.00 Paid Y

1222 PACKARD DR JUNE 2017 BRENT KILPELA  
590-442-922.00 WWTWP NATURAL GAS EXPENSE 100.54

517548388805  
15429 AT&T 05/28/2017 06/19/2017 70.69 0.00 Paid Y

517 548-3888 FOR JUNE 2017 BRENT KILPELA  
590-442-850.00 WWTWP TELEPHONE EXPENSE 70.69

517546349605  
15430 AT&T 05/22/2017 06/10/2017 448.01 0.00 Paid Y

517 546-3496 FOR JUNE 2017 BRENT KILPELA  
590-442-850.00 WWTWP TELEPHONE EXPENSE 448.01

99049  
15431 PYRO HEATING COOLING 06/05/2017 07/05/2017 139.00 0.00 Paid Y

A/C TUNE UP & FILTER BRENT KILPELA  
101-265-930.00 TWP HALL GROUNDS EQUIP REPAIR EXPENSE 139.00

99050  
15432 PYRO HEATING COOLING 06/05/2017 07/05/2017 139.00 0.00 Paid Y

A/C TUNEUP & FILTER BRENT KILPELA  
101-265-930.00 TWP HALL GROUNDS EQUIP REPAIR EXPENSE 139.00

99051  
15433 PYRO HEATING COOLING 06/05/2017 07/05/2017 139.00 0.00 Paid Y

A/C TUNEUP & FILTER BRENT KILPELA  
101-265-930.00 TWP HALL GROUNDS EQUIP REPAIR EXPENSE 139.00

99052  
15434 PYRO HEATING COOLING 06/05/2017 07/05/2017 139.00 0.00 Paid Y

A/C TUNEUP & FILTER BRENT KILPELA  
101-265-930.00 TWP HALL GROUNDS EQUIP REPAIR EXPENSE 139.00

99054  
15435 PYRO HEATING COOLING 06/05/2017 07/05/2017 139.00 0.00 Paid Y

A/C TUNEUP & FILTER BRENT KILPELA  
101-265-930.00 TWP HALL GROUNDS EQUIP REPAIR EXPENSE 139.00

INVOICE REGISTER REPORT FOR HOWELL TOWNSHIP

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29719080	SILVER LINING TIRE RECYCLING		05/22/2017		06/22/2017	572.00	0.00	Paid	Y	06/08/2017
15436	TIRE PICKUP/CLEAN-UP DAY			BRENT KILPELA						
	101-268-882.00	TWP AT LARGE SPRING CLEAN UP EXPENSE				572.00				
204564420113	CONSUMERS ENERGY		06/01/2017		06/26/2017	89.09	0.00	Paid	Y	06/08/2017
15437	TWP HALL JUNE 2017			BRENT KILPELA						
	101-265-922.00	TWP HALL NATURAL GAS EXPENSE				89.09				
5/31/2017	JEAN GRAHAM		05/31/2017		06/15/2017	110.30	0.00	Paid	Y	06/08/2017
15438	CLERK MILEAGE/EXPENSES			BRENT KILPELA						
	101-215-860.00	CLERK MILEAGE & EXPENSES				32.53				
	101-265-727.00	TWP HALL KITCHEN/BATH SUPPLIES EXPENSE				62.63				
	101-268-882.00	TWP AT LARGE SPRING CLEAN UP EXPENSE				15.14				
6/1/2017	CAREFREE MAINTENANCE CO.		06/01/2017		07/01/2017	230.00	0.00	Paid	Y	06/08/2017
15439	TWP HALL CLEANING MAY 2017			BRENT KILPELA						
	101-265-775.00	TWP HALL OFFICE CLEANING & MAINT EXPENS				230.00				
2001401119981	DTE ENERGY		06/01/2017		07/10/2017	344.82	0.00	Paid	Y	06/08/2017
15440	STREETLIGHTS			BRENT KILPELA						
	101-268-920.00	TWP AT LARGE STREETLIGHT EXPENSE				344.82				
6/1/2017	MICHIGAN ASSESSOR ASSOCIATION		06/01/2017		07/01/2017	185.00	0.00	Paid	Y	06/08/2017
15441	CAROL MAKUSHIK REGISTRATION			BRENT KILPELA						
	101-209-720.00	ASSESSING EDUCATION EXPENSE				185.00				
67709	FIRST IMPRESSIONS PRINT & MKTG		06/02/2017		06/30/2017	267.27	0.00	Paid	Y	06/08/2017
15442	ASSESSOR'S DOORHANGERS			BRENT KILPELA						
	101-209-727.00	ASSESSING SUPPLIES EXPENSE				267.27				
54914	MICRO WORKS COMPUTING, INC		05/31/2017		06/20/2017	75.00	0.00	Paid	Y	06/08/2017
15443	MICROSOFT UPDATES			BRENT KILPELA						
	101-265-728.01	TWP HALL IT SUPPORT EXPENSE				75.00				
NWE5606	IRON MOUNTAIN		05/31/2017		06/30/2017	543.42	0.00	Paid	Y	06/08/2017
15444	TWP HALL SHREDDING BASEMENT ARCHIV			BRENT KILPELA						
	101-265-775.00	TWP HALL OFFICE CLEANING & MAINT EXPENS				543.42				

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06/05/2017	15445	MICHIGAN TWP ASSOC	06/05/2017	07/04/2017	299.00	0.00	Paid	Y
		JEAN GRAHAM REGISTRATION	BRENT KILPELA					06/08/2017
		101-000-123.00	GEN FUND PREPAID EXPENSES		299.00			
6/2/2017	15446	DTE ENERGY	06/02/2017	06/26/2017	143.63	0.00	Paid	Y
		1009 N BURKHART JUNE 2017	BRENT KILPELA					06/08/2017
		590-442-920.00	WWTP ELECTRICITY EXPENSE		143.63			
207055789515	15447	CONSUMERS ENERGY	06/02/2017	06/27/2017	34.12	0.00	Paid	Y
		2571 OAKGROVE JUNE 2017	BRENT KILPELA					06/08/2017
		590-442-922.00	WWTP NATURAL GAS EXPENSE		34.12			
SLS 10059813	15448	ALEXANDER CHEMICAL CORPORATION	05/31/2017	06/29/2017	5,276.87	0.00	Paid	Y
		FERRIC CHLORIDE	BRENT KILPELA					06/08/2017
		590-442-729.00	WWTP CHEMICALS EXPENSE		5,276.87			
725314093	15449	CINTAS CORPORATION #725	06/07/2017	07/10/2017	53.09	0.00	Paid	Y
		BLUE MATS	BRENT KILPELA					06/08/2017
		101-265-775.00	TWP HALL OFFICE CLEANING & MAINT EXPENS		53.09			
20533	15450	SEVERN TRENT	06/01/2017	07/01/2017	33,028.59	0.00	Paid	Y
		WWTP MAINT. JUNE 2017 & ASSET STUD	BRENT KILPELA					06/13/2017
		590-442-801.00	WWTP CONTRACTED SVCS EXPENSE		33,028.59			
5/18/2017	15451	DTE ENERGY	05/18/2017	06/27/2017	67.95	0.00	Paid	Y
		391 N BURKHART JUNE 2017	BRENT KILPELA					06/13/2017
		590-442-920.00	WWTP ELECTRICITY EXPENSE		67.95			
86411	15452	TRUE VALUE HARDWARE	06/08/2017	07/15/2017	31.48	0.00	Paid	Y
		GAL DENATURED ALCOHOL, NAILS	BRENT KILPELA					06/13/2017
		590-442-956.00	WWTP MISCELLANEOUS EXPENSE		31.48			
86401	15453	TRUE VALUE HARDWARE	06/08/2017	07/15/2017	67.92	0.00	Paid	Y
		BRUSHES, SEALERS, DECK WASH	BRENT KILPELA					06/13/2017
		590-442-956.00	WWTP MISCELLANEOUS EXPENSE		67.92			
6/12/2017	15454	DTE ENERGY	06/12/2017	07/05/2017	127.12	0.00	Paid	Y
		3888 OAKGROVE ROAD JUNE 2017	BRENT KILPELA					06/15/2017

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6/12/2017	DTE ENERGY	06/12/2017	07/05/2017	14.81	0.00	Paid	Y
15455	1216 PACKARD DRIVE JUNE 2017	BRENT KILPELA					06/15/2017
	590-442-920.00	WWTP ELECTRICITY EXPENSE		14.81			
6/12/2017	DTE ENERGY	06/12/2017	07/05/2017	306.28	0.00	Paid	Y
15456	2559 W GRAND RIVER JUNE 2017	BRENT KILPELA					06/15/2017
	590-442-920.00	WWTP ELECTRICITY EXPENSE		306.28			
6/12/2017	DTE ENERGY	06/12/2017	07/05/2017	4,142.41	0.00	Paid	Y
15457	1222 PACKARD DRIVE JUNE 2017	BRENT KILPELA					06/15/2017
	590-442-920.00	WWTP ELECTRICITY EXPENSE		4,142.41			
6/12/2017	DTE ENERGY	06/12/2017	07/05/2017	273.39	0.00	Paid	Y
15458	1034 AUSTIN CT JUNE 2017	BRENT KILPELA					06/15/2017
	590-442-920.00	WWTP ELECTRICITY EXPENSE		273.39			
6/12/2017	DTE ENERGY	06/12/2017	07/05/2017	313.77	0.00	Paid	Y
15459	1575 N BURKHART RD JUNE 2017	BRENT KILPELA					06/15/2017
	590-442-920.00	WWTP ELECTRICITY EXPENSE		313.77			
6/9/2017	DTE ENERGY	06/09/2017	07/03/2017	141.07	0.00	Paid	Y
15460	2700 TOOLEY ROAD JUNE 2017	BRENT KILPELA					06/15/2017
	590-442-920.00	WWTP ELECTRICITY EXPENSE		141.07			
Q10650	SECURITY LOCK	06/02/2017	07/02/2017	591.10	0.00	Paid	Y
15461	FERRIC CORROSION REPAIRS	BRENT KILPELA					06/15/2017
	590-442-729.00	WWTP CHEMICALS EXPENSE		591.10			
76657	MASTER MEDIA	06/06/2017	07/06/2017	64.84	0.00	Paid	Y
15462	OFFICE SUPPLIES	BRENT KILPELA					06/15/2017
	101-265-727.01	TWP HALL OFFICE SUPPLIES EXPENSE		64.84			
37115	FAHEY SCHULTZ BURZYCH RHODES	06/05/2017	07/05/2017	57.00	0.00	Paid	Y
15463	BANKRUPTCY	BRENT KILPELA					06/15/2017
	101-253-801.01	TREASURER LEGAL EXPENSE		57.00			





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281695	USA BLUEBOOK	06/09/2017	07/09/2017	1,676.24	0.00	Paid	Y
15473	THERMO ORION DUAL STAR	BRENT KILPELA					06/20/2017
	590-442-956.00	WWTP MISCELLANEOUS EXPENSE		1,676.24			
281662	USA BLUEBOOK	06/09/2017	07/09/2017	174.14	0.00	Paid	Y
15474	SUMP PUMP	BRENT KILPELA					06/20/2017
	590-442-930.00	WWTP EQUIPMENT REPAIR EXPENSE		174.14			
517552195606	AT&T	06/13/2017	07/03/2017	53.33	0.00	Paid	Y
15475	517 552-1956 FOR JUNE 2017	BRENT KILPELA					06/20/2017
	590-442-850.00	WWTP TELEPHONE EXPENSE		53.33			
6/15/2017	DTE ENERGY	06/15/2017	07/07/2017	31.54	0.00	Paid	Y
15476	271 E HIGHLAND JUNE 2017	BRENT KILPELA					06/20/2017
	590-442-920.00	WWTP ELECTRICITY EXPENSE		31.54			
6429081-IN	CORRIGAN OIL CO., NO.11	06/12/2017	06/27/2017	807.45	0.00	Paid	Y
15477	CASTROL OIL (5 PAILS)	BRENT KILPELA					06/20/2017
	590-442-729.00	WWTP CHEMICALS EXPENSE		807.45			
86554	TRUE VALUE HARDWARE	06/19/2017	07/15/2017	8.49	0.00	Paid	Y
15478	FASTENERS/GLUE	BRENT KILPELA					06/20/2017
	590-442-956.00	WWTP MISCELLANEOUS EXPENSE		8.49			
2144755	CARLISLE WORTMAN	06/15/2017	07/15/2017	25.00	0.00	Paid	Y
15479	AMERICAN LEGION SITE PLAN AMENDMEN	BRENT KILPELA					06/20/2017
	101-400-801.00	PLANNING-CONTRACTED PLANNER EXPENSE		25.00			
2144754	CARLISLE WORTMAN	06/15/2017	07/15/2017	40.00	0.00	Paid	Y
15480	AMERICAN LEGION BILLBOARD	BRENT KILPELA					06/20/2017
	101-400-801.00	PLANNING-CONTRACTED PLANNER EXPENSE		40.00			
2144757	CARLISLE WORTMAN	06/15/2017	07/15/2017	682.50	0.00	Paid	Y
15481	GENERAL CONSULTATION	BRENT KILPELA					06/20/2017
	101-400-801.00	PLANNING-CONTRACTED PLANNER EXPENSE		682.50			
2144756	CARLISLE WORTMAN	06/15/2017	07/15/2017	835.00	0.00	Paid	Y
15482	CHESTNUT CROSSING	BRENT KILPELA					06/20/2017

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33	CHLORIDE SOLUTIONS, LLC	06/02/2017	07/02/2017	7,500.95	0.00	Paid	Y
15483	DUST CONTROL	BRENT KILPELA					
	204-000-802.00	ROAD CHLORIDE EXPENSE		7,500.95			06/20/2017
41	CHLORIDE SOLUTIONS, LLC	06/09/2017	07/09/2017	17,963.13	0.00	Paid	Y
15484	DUST CONTROL	BRENT KILPELA					
	204-000-802.00	ROAD CHLORIDE EXPENSE		17,963.13			06/20/2017
6/14/2017	DTE ENERGY	06/14/2017	07/06/2017	388.68	0.00	Paid	Y
15485	TWP HALL JUNE 2017	BRENT KILPELA					
	101-265-920.00	TWP HALL ELECTRICITY EXPENSE		388.68			06/20/2017
6/20/2017	JEAN GRAHAM	06/20/2017	06/20/2017	128.64	0.00	Paid	Y
15486	CLERK MILEAGE/EXPENSES	BRENT KILPELA					
	101-215-860.00	CLERK MILEAGE & EXPENSES		98.65			06/20/2017
	101-265-727.00	TWP HALL KITCHEN/BATH SUPPLIES EXPENSE		29.99			
2712	COMPLETE OUTDOOR SERVICES, INC.	06/05/2017	06/20/2017	546.75	0.00	Paid	Y
15487	CEMETERY MAINT. (2 OF 8)	BRENT KILPELA					
	101-276-931.00	GROUNDS CARE & MAINT.		546.75			06/20/2017
6/28/2017	LIVINGSTON COUNTY TREASURER	06/28/2017	07/15/2017	750.00	0.00	Paid	Y
15488	MOBILE HOME FEES JUNE	BRENT KILPELA					
	701-000-239.00	TRUST MOBILE HOME TAX PAYABLE		750.00			06/29/2017
6/28/2017	LIVINGSTON COUNTY TREASURER	06/28/2017	07/15/2017	1,289.30	0.00	Paid	Y
15489	DPT- APR-JUNE 2017	BRENT KILPELA					
	701-000-228.00	TRUST DUE TO COUNTY		1,289.30			06/29/2017
6/28/2017	HOWELL PUBLIC SCHOOLS	06/28/2017	07/15/2017	908.15	0.00	Paid	Y
15490	DPT- APR-JUNE 2017	BRENT KILPELA					
	701-000-225.00	TRUST DUE TO HOWELL SCHLS OPER		908.15			06/29/2017
6/28/2017	HOWELL PUBLIC SCHOOLS	06/28/2017	07/15/2017	860.94	0.00	Paid	Y
15491	DPT-APR-JUNE 2017	BRENT KILPELA					
	701-000-225.01	TRUST DUE TO HOWELL SCHLS DEBT		860.94			06/29/2017

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6/28/2017	HOWELL AREA FIRE AUTHORITY	06/28/2017	07/15/2017	208.98	0.00	Paid	Y
15492	DPPPT - APR-JUNE 2017	BRENT KILPELA					06/29/2017
	701-000-234.00	TRUST DUE TO HOWELL FIRE AUTH		208.98			
6/28/2017	LIV EDUC SERVICE AGENCY	06/28/2017	07/15/2017	429.98	0.00	Paid	Y
15493	DPPPT APR-JUNE 2017	BRENT KILPELA					06/29/2017
	701-000-227.00	TRUST DUE TO LEISA		429.98			
6/28/2017	HOWELL CARNEGIE LIBRARY	06/28/2017	07/15/2017	152.89	0.00	Paid	Y
15494	DPPPT APR-JUNE 2017	BRENT KILPELA					06/29/2017
	701-000-223.00	TRUST DUE TO HOWELL LIBRARY		152.89			
86715	TRUE VALUE HARDWARE	06/29/2017	07/15/2017	28.00	0.00	Paid	Y
15495	FASTENERS	BRENT KILPELA					06/30/2017
	590-442-956.00	WWTTP MISCELLANEOUS EXPENSE		28.00			
86721	TRUE VALUE HARDWARE	06/29/2017	07/15/2017	52.84	0.00	Paid	Y
15496	FASTENERS, CUTTWHEEL, MITER SQUARE	BRENT KILPELA					06/30/2017
	590-442-956.00	WWTTP MISCELLANEOUS EXPENSE		52.84			
86722	TRUE VALUE HARDWARE	06/29/2017	07/15/2017	4.00	0.00	Paid	Y
15497	FASTENERS	BRENT KILPELA					06/30/2017
	590-442-956.00	WWTTP MISCELLANEOUS EXPENSE		4.00			
119040	S & L SMITH & LOVELESS, INC	06/22/2017	07/22/2017	420.92	0.00	Paid	Y
15498	VALVE SOLENOID (2)	BRENT KILPELA					06/30/2017
	590-442-930.00	WWTTP EQUIPMENT REPAIR EXPENSE		420.92			
86652	TRUE VALUE HARDWARE	06/26/2017	07/15/2017	67.73	0.00	Paid	Y
15499	BRACKETS, ENAMEL, BRUSH	BRENT KILPELA					06/30/2017
	590-442-956.00	WWTTP MISCELLANEOUS EXPENSE		67.73			
86654	TRUE VALUE HARDWARE	06/26/2017	07/15/2017	11.97	0.00	Paid	Y
15500	2X4 BOARDS	BRENT KILPELA					06/30/2017
	590-442-956.00	WWTTP MISCELLANEOUS EXPENSE		11.97			
854006222	AT&T LONG DISTANCE	06/06/2017	07/06/2017	7.04	0.00	Paid	Y
15501	WWTTP LONG DISTANCE JUNE	BRENT KILPELA					06/30/2017

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590-442-850.00

7.04

WWTP TELEPHONE EXPENSE

6/29/2017	JULIUS DAUS III	06/29/2017	07/15/2017	87.21	0.00	Paid	Y
15502	ZONING MILEAGE	BRENT KILPELA					06/30/2017
	101-402-860.00	ZONING MILEAGE & EXPENSES		87.21			

76000236	ALCHIN DISPOSAL SERVICE	06/24/2017	07/24/2017	2,317.25	0.00	Paid	Y
15503	CLEAN-UP DAY	BRENT KILPELA					06/30/2017
	101-268-882.00	TWP AT LARGE SPRING CLEAN UP EXPENSE		2,317.25			

000644219400	MUTUAL OF OMAHA INSURANCE COMPANY	07/01/2017	07/15/2017	195.25	0.00	Paid	Y
15504	TWP HALL LIFE INSURANCE JULY 2017	BRENT KILPELA					07/01/2017
	101-265-721.00	TWP HALL LIFE INSURANCE EXPENSE		195.25			

208.0615004	HOWELL PARKS AND RECREATION	06/15/2017	07/15/2017	25,000.00	0.00	Paid	Y
15505	3RD QUARTER 2017 PART. FEE	BRENT KILPELA					07/01/2017
	220-000-801.00	REC FUND CONTRACTED SVCS EXPENSE		25,000.00			

20482	HOWELL SANITARY COMPANY II	06/20/2017	07/15/2017	320.00	0.00	Paid	Y
15506	TWP HALL SEPTIC PUMPED OUT	BRENT KILPELA					06/30/2017
	101-265-776.00	TWP HALL SEPTIC FIELD EXPENSE		320.00			

6/22/2017	COMCAST	07/01/2017	07/13/2017	341.79	0.00	Paid	Y
15507	TWP HALL TELEPHONE JULY 2017	BRENT KILPELA					07/01/2017
	101-265-850.00	TWP HALL TELEPHONE EXPENSE		341.79			

186564	SPICER GROUP	06/23/2017	07/23/2017	10,000.12	0.00	Paid	Y
15508	OAK GROVE MEADOWS	BRENT KILPELA					06/30/2017
	101-000-203.09	ENG ESCROW-REF ALLEN EDWIN HOMES/OAK GR		10,000.12			

186555	SPICER GROUP	06/23/2017	07/23/2017	472.50	0.00	Paid	Y
15509	BREWER MEADOWS	BRENT KILPELA					06/30/2017
	101-000-203.11	ENG ESCROW REF BREWER ROAD LLC		472.50			

186559	SPICER GROUP	06/23/2017	07/23/2017	1,492.20	0.00	Paid	Y
15510	CHESTNUT CROSSING	BRENT KILPELA					06/30/2017
	101-000-203.15	ENG ESCROW REF CHESTNUT CROSSING		1,492.20			

INVOICE REGISTER REPORT FOR HOWELL TOWNSHIP

07/05/2017 03:43 PM  
 User: BRENT KILPELA  
 DB: Howell Twp

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized
Inv Ref#	Description	Entered By					Post Date

6/30/2017	BRENT KILPELA	06/30/2017	07/05/2017	53.50	0.00	Paid	Y
15511	ASSESSOR MILEAGE	BRENT KILPELA					
	101-209-860.00	ASSESSING MILEAGE & EXPENSES		53.50			06/30/2017

6/30/2017	CAROL MAKUSHIK	06/30/2017	07/05/2017	19.26	0.00	Paid	Y
15512	DEPUTY TREASURER MILEAGE	BRENT KILPELA					
	101-253-860.00	TREASURER MILEAGE & EXPENSES		17.12			06/30/2017
	101-265-860.00	TWP HALL MILEAGE & EXPENSES		2.14			

113024	BS&A SOFTWARE	07/01/2017	07/27/2017	5,100.00	0.00	Paid	Y
15513	COMMUNITY DEVELOPMENT (BUILDING).NE	BRENT KILPELA					
	101-265-728.00	COMPUTER SOFTWARE SUPPORT		5,100.00			07/03/2017

7/3/2017	LIVINGSTON COUNTY TREASURER	07/03/2017	07/03/2017	171.50	0.00	Paid	Y
15514	DOG LICENSES JUNE 2017	BRENT KILPELA					
	701-000-238.00	TRUST DUE TO COUNTY DOG LICENSE		171.50			06/30/2017

6/30/2017	DEBRA JOHNSON	06/30/2017	07/05/2017	164.90	0.00	Paid	Y
15515	DEPUTY CLERK MILEAGE	BRENT KILPELA					
	101-191-860.00	ELECTION MILEAGE & EXPENSES		164.90			06/30/2017

6/30/2017	HOWELL TOWNSHIP PETTY CASH	06/30/2017	07/05/2017	177.42	0.00	Paid	Y
15516	REPLENISH PETTY CASH	BRENT KILPELA					
	101-268-882.00	TWP AT LARGE SPRING CLEAN UP EXPENSE		111.71			06/30/2017
	101-265-727.00	TWP HALL KITCHEN/BATH SUPPLIES EXPENSE		15.71			
	101-268-882.01	TWP AT LARGE SHRED/RED BARREL EXPENSE		50.00			

18787376	GUARDIAN ALARM	07/01/2017	08/01/2017	354.00	0.00	Paid	Y
15517	TWP HALL ALARM MONITORING	BRENT KILPELA					
	101-265-931.00	TWP HALL GROUND CARE EXPENSE		354.00			07/05/2017

76758	MASTER MEDIA	06/26/2017	07/26/2017	186.35	0.00	Paid	Y
15518	OFFICE SUPPLIES	BRENT KILPELA					
	101-265-727.01	TWP HALL OFFICE SUPPLIES EXPENSE		186.35			06/26/2017

60405	ECONO PRINT	06/30/2017	07/09/2017	561.12	0.00	Paid	Y
15519	SUMMER 2017 TAX BILLS	BRENT KILPELA					
	101-253-726.01	TREASURER POSTAGE		561.12			07/05/2017

User: BRENT KILPELA  
DB: Howell Twp

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized
Inv Ref#	Description	Entered By					Post Date
	GL Distribution						

4677342	U. S. BANK	06/23/2017	07/05/2017	150.00	0.00	Paid	Y
	AGENT FEE	BRENT KILPELA					06/30/2017
	590-853-991.02	SEWER 7 AGENT FEES		150.00			

37358417	MCMASSTER-CARR	06/29/2017	07/29/2017	437.68	0.00	Paid	Y
	COGGED V-BELTS (6)	BRENT KILPELA					06/30/2017
	590-442-956.00	WWTP MISCELLANEOUS EXPENSE		437.68			

297514	USA BLUEBOOK	06/28/2017	07/28/2017	159.88	0.00	Paid	Y
	10X14 IN DANGER SIGN	BRENT KILPELA					06/30/2017
	590-442-956.00	WWTP MISCELLANEOUS EXPENSE		159.88			

297913	USA BLUEBOOK	06/28/2017	07/28/2017	181.09	0.00	Paid	Y
	DANGER SIGNS	BRENT KILPELA					06/30/2017
	590-442-956.00	WWTP MISCELLANEOUS EXPENSE		181.09			

6/27/2017	DTE ENERGY	06/27/2017	07/19/2017	1,404.77	0.00	Paid	Y
	2571 OAK GROVE	BRENT KILPELA					06/30/2017
	590-442-920.00	WWTP ELECTRICITY EXPENSE		1,404.77			

150560912	WWTP INTERNET JULY 2017	06/20/2017	07/09/2017	60.60	0.00	Paid	Y
	590-442-850.00	WWTP TELEPHONE EXPENSE		60.60			07/05/2017

517540124106	AT&T	06/22/2017	07/14/2017	49.95	0.00	Paid	Y
	517 540-1241 JULY 2017	BRENT KILPELA					07/05/2017
	590-442-850.00	WWTP TELEPHONE EXPENSE		49.95			

517540694706	AT&T	06/22/2017	07/14/2017	49.24	0.00	Paid	Y
	517 540-6947 FOR JULY 2017	BRENT KILPELA					07/05/2017
	590-442-850.00	WWTP TELEPHONE EXPENSE		49.24			

517546516006	AT&T	06/22/2017	07/14/2017	78.60	0.00	Paid	Y
	517 546-5160 FOR JULY 2017	BRENT KILPELA					07/05/2017
	590-442-850.00	WWTP TELEPHONE EXPENSE		78.60			

517540696306	AT&T	06/22/2017	07/14/2017	42.05	0.00	Paid	Y
	517 540-6963 FOR JULY 2017	BRENT KILPELA					07/05/2017

User: BRENT KILPELA  
DB: Howell Twp

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized
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Inv Ref#	Description	Entered By					Post Date
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517540695206	AT&T	06/22/2017	07/14/2017	41.45	0.00	Paid	Y
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15530	517 540-6952 FOR JULY 2017	BRENT KILPELA					07/05/2017
	590-442-850.00	WWTP TELEPHONE EXPENSE		41.45			

17-0991	MINUTEMAN SEWER & DRAIN CLEANING	06/30/2017	07/14/2017	350.00	0.00	Paid	Y
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15531	CLEANED FLOOR DRAIN WWTP	BRENT KILPELA					06/30/2017
	590-442-801.00	WWTP CONTRACTED SVCS EXPENSE		350.00			

69326	ICE CUBE, INC.	06/29/2017	07/29/2017	2,459.00	0.00	Paid	Y
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15532	AIR CONDITIONER FOR PUMP STATION	BRENT KILPELA					06/29/2017
	590-000-972.00	SEWER FUND CAPITAL OUTLAY EXPENSE		2,459.00			

86786	TRUE VALUE HARDWARE	07/05/2017	07/15/2017	24.99	0.00	Paid	Y
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15533	TAPE MEASURE	BRENT KILPELA					07/05/2017
	590-442-956.00	WWTP MISCELLANEOUS EXPENSE		24.99			

90196190	CULLIGAN WATER	06/30/2017	07/30/2017	79.99	0.00	Paid	Y
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15534	WATER DELIVERY	BRENT KILPELA					06/30/2017
	101-265-727.00	TWP HALL KITCHEN/BATH SUPPLIES EXPENSE		79.99			

76772	MASTER MEDIA	06/27/2017	07/27/2017	51.72	0.00	Paid	Y
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15535	OFFICE SUPPLIES	BRENT KILPELA					06/27/2017
	101-265-727.01	TWP HALL OFFICE SUPPLIES EXPENSE		51.72			

200340179096	DTE ENERGY	06/30/2017	08/10/2017	336.12	0.00	Paid	Y
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15536	STREETLIGHTS	BRENT KILPELA					07/05/2017
	101-268-920.00	TWP AT LARGE STREETLIGHT EXPENSE		336.12			

7/1/2017	CAREFREE MAINTENANCE CO.	07/01/2017	08/01/2017	345.00	0.00	Paid	Y
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15537	TWP HALL JUNE CLEANING	BRENT KILPELA					06/30/2017
	101-265-775.00	TWP HALL OFFICE CLEANING & MAINT EXPENS		345.00			

NZM4601	IRON MOUNTAIN	06/30/2017	07/30/2017	104.50	0.00	Paid	Y
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15538	JUNE SHREDDING	BRENT KILPELA					06/30/2017
	101-265-775.00	TWP HALL OFFICE CLEANING & MAINT EXPENS		104.50			

User: BRENT KILPELA  
 DB: Howell Twp

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date
205632346738	CONSUMERS ENERGY	07/01/2017	07/26/2017	17.52	0.00	Paid	07/05/2017
15539	391 N BURKHART JULY 2017	BRENT KILPELA					
	590-442-922.00	WTWP NATURAL GAS EXPENSE		17.52			

Inv Ref#	Description	GL Distribution	Inv Date	Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date
4643668	U. S. BANK		06/25/2017	BRENT KILPELA	07/25/2017	100.00	0.00	Paid	07/01/2017
15540	AGENT FEE								
	590-853-991.02	SEWER 7 AGENT FEES				100.00			

# of Invoices:	124	# Due:	0	Totals:	147,235.90	0.00
# of Credit Memos:	0	# Due:	0	Totals:	0.00	0.00

Net of Invoices and Credit Memos: 147,235.90 0.00

*Agrees with Check Register BK,*

---- TOTALS BY FUND ----

101 - GENERAL FUND	33,819.56	0.00
204 - ROAD FUND	25,464.08	0.00
220 - RECREATION FUND	25,000.00	0.00
590 - SEWER FUND	57,004.52	0.00
592 - SWR/WTR	171.00	0.00
701 - TRUST & AGENCY	5,776.74	0.00

---- TOTALS BY DEPT/ACTIVITY ----

000 - OTHER	75,284.95	0.00
101 - TOWNSHIP BOARD	95.00	0.00
191 - ELECTIONS	164.90	0.00
209 - ASSESSING	847.77	0.00
215 - CLERK	131.18	0.00
253 - TREASURER	635.24	0.00
265 - TOWNSHIP HALL	9,328.19	0.00
268 - TOWNSHIP AT LARGE	3,747.04	0.00
276 - CEMETERY	546.75	0.00
400 - PLANNING COMMISSION	1,662.50	0.00
402 - ZONING ADMINISTRATION	87.21	0.00
442 - WWTP	54,284.17	0.00
852 - SEWER/WATER 8	171.00	0.00
853 - SEWER 7	250.00	0.00



Check Date	Bank	Check	Vendor Name	Amount
Bank GEN GENERAL FUND CHECKING				
06/07/2017	GEN	101001388 (E)	CINTAS CORPORATION #725	53.09
06/07/2017	GEN	101001389 (E)	CONSUMERS ENERGY	89.09
06/07/2017	GEN	101001390 (E)	FIRST IMPRESSIONS PRINT & MKTG	267.27
06/07/2017	GEN	101001391 (E)	MICRO WORKS COMPUTING, INC	75.00
06/07/2017	GEN	16738	CAREFREE MAINTENANCE CO.	230.00
06/07/2017	GEN	16739	DTE ENERGY	344.82
06/07/2017	GEN	16740	JEAN GRAHAM	110.30
06/07/2017	GEN	16741	IRON MOUNTAIN	543.42
06/07/2017	GEN	16742	MICHIGAN ASSESSOR ASSOCIATION	185.00
06/07/2017	GEN	16743	MICHIGAN TWP ASSOC	299.00
06/07/2017	GEN	16744	PYRO HEATING COOLING	695.00
06/07/2017	GEN	16745	SILVER LINING TIRE RECYCLING	572.00
06/20/2017	GEN	101001392 (E)	DTE ENERGY	388.68
06/20/2017	GEN	101001393 (E)	FAHEY SCHULTZ BURZYCH RHODES	570.00
06/20/2017	GEN	101001394 (E)	HURON CEMETERY MAINT INC	546.75
			Void Reason: WRONG VENDOR	V
06/20/2017	GEN	101001395 (E)	MICHIGAN.COM	175.00
06/20/2017	GEN	101001396 (E)	THE POLACK CORPORATION	2,345.00
06/20/2017	GEN	16746	CARLISLE WORTMAN	1,582.50
06/20/2017	GEN	16747	ECONO PRINT	1,564.96
06/20/2017	GEN	16748	JEAN GRAHAM	128.64
06/20/2017	GEN	16749	MASTER MEDIA	64.84
06/20/2017	GEN	16750	CHLORIDE SOLUTIONS, LLC	25,464.08
06/20/2017	GEN	16751	NETWORK SERVICES GROUP, LLC	400.00
06/20/2017	GEN	16752	COMPLETE OUTDOOR SERVICES, INC.	546.75
07/05/2017	GEN	101001397 (E)	COMCAST	341.79
07/05/2017	GEN	101001398 (E)	CULLIGAN WATER	79.99
07/05/2017	GEN	101001399 (E)	MUTUAL OF OMAHA INSURANCE COMPANY	195.25
07/05/2017	GEN	101001400 (E)	SPICER GROUP	11,964.82
07/05/2017	GEN	16753	ALCHIN DISPOSAL SERVICE	2,317.25
07/05/2017	GEN	16754	BS&A SOFTWARE	5,100.00
07/05/2017	GEN	16755	CAREFREE MAINTENANCE CO.	345.00
07/05/2017	GEN	16756	JULIUS DAUS III	87.21
07/05/2017	GEN	16757	DEBRA JOHNSON	164.90
07/05/2017	GEN	16758	DTE ENERGY	336.12
07/05/2017	GEN	16759	ECONO PRINT	561.12
07/05/2017	GEN	16760	GUARDIAN ALARM	354.00
07/05/2017	GEN	16761	HOWELL PARKS AND RECREATION	25,000.00
07/05/2017	GEN	16762	HOWELL SANITARY COMPANY II	320.00
07/05/2017	GEN	16763	IRON MOUNTAIN	104.50
07/05/2017	GEN	16764	BRENT KILPELA	53.50
07/05/2017	GEN	16765	CAROL MAKUSHIK	19.26
07/05/2017	GEN	16766	MASTER MEDIA	238.07
07/05/2017	GEN	16767	HOWELL TOWNSHIP PETTY CASH	177.42

GEN TOTALS:

Total of 43 Checks:	85,001.39
Less 1 Void Checks:	546.75
Total of 42 Disbursements:	84,454.64

Bank T&A TRUST & AGENCY CHECKING

06/08/2017	T&A	3330	LIVINGSTON COUNTY TREASURER	750.00
06/08/2017	T&A	3331	LIVINGSTON COUNTY TREASURER	255.00
07/03/2017	T&A	3332	HOWELL AREA FIRE AUTHORITY	208.98
07/03/2017	T&A	3333	HOWELL CARNEGIE LIBRARY	152.89
07/03/2017	T&A	3334	HOWELL PUBLIC SCHOOLS	908.15
07/03/2017	T&A	3335	HOWELL PUBLIC SCHOOLS	860.94
07/03/2017	T&A	3336	LIV EDUC SERVICE AGENCY	429.98
07/03/2017	T&A	3337	LIVINGSTON COUNTY TREASURER	750.00
07/03/2017	T&A	3338	LIVINGSTON COUNTY TREASURER	1,289.30
07/03/2017	T&A	3339	LIVINGSTON COUNTY TREASURER	171.50

T&A TOTALS:

Total of 10 Checks:	5,776.74
Less 0 Void Checks:	0.00
Total of 10 Disbursements:	5,776.74

Bank UTYCK UTILITY CHECKING

06/08/2017	UTYCK	2193	ALEXANDER CHEMICAL CORPORATION	5,276.87
06/08/2017	UTYCK	2194	CUMMINS BRIDGEWAY, LLC	81.00
06/08/2017	UTYCK	2195	BROOKS, CASSANDRA	11.35
06/08/2017	UTYCK	590002292 (E)	AT&T	41.45

Check Date	Bank	Check	Vendor Name	Amount
06/08/2017	UTYCK	590002293 (E)	AT&T	42.82
06/08/2017	UTYCK	590002294 (E)	AT&T	54.15
06/08/2017	UTYCK	590002295 (E)	AT&T	42.65
06/08/2017	UTYCK	590002296 (E)	AT&T	53.64
06/08/2017	UTYCK	590002297 (E)	AT&T	41.45
06/08/2017	UTYCK	590002298 (E)	AT&T	70.69
06/08/2017	UTYCK	590002299 (E)	AT&T	448.01
06/08/2017	UTYCK	590002300 (E)	CONSUMERS ENERGY	17.61
06/08/2017	UTYCK	590002301 (E)	CONSUMERS ENERGY	100.54
06/08/2017	UTYCK	590002302 (E)	CONSUMERS ENERGY	34.12
06/08/2017	UTYCK	590002303 (E)	DTE ENERGY	143.63
06/20/2017	UTYCK	2196	CORRIGAN OIL CO., NO.II	807.45
06/20/2017	UTYCK	2197	MCMASTER-CARR	47.80
06/20/2017	UTYCK	2198	SECURITY LOCK	3,031.44
06/20/2017	UTYCK	2199	SEVERN TRENT	33,028.59
06/20/2017	UTYCK	2200	TRUE VALUE HARDWARE	107.89
06/20/2017	UTYCK	2201	USA BLUEBOOK	1,850.38
06/20/2017	UTYCK	590002304 (E)	AT&T	53.33
06/20/2017	UTYCK	590002305 (E)	DTE ENERGY	67.95
06/20/2017	UTYCK	590002306 (E)	DTE ENERGY	127.12
06/20/2017	UTYCK	590002307 (E)	DTE ENERGY	14.81
06/20/2017	UTYCK	590002308 (E)	DTE ENERGY	306.28
06/20/2017	UTYCK	590002309 (E)	DTE ENERGY	4,142.41
06/20/2017	UTYCK	590002310 (E)	DTE ENERGY	273.39
06/20/2017	UTYCK	590002311 (E)	DTE ENERGY	313.77
06/20/2017	UTYCK	590002312 (E)	DTE ENERGY	141.07
06/20/2017	UTYCK	590002313 (E)	DTE ENERGY	31.54
07/05/2017	UTYCK	2202	AT&T LONG DISTANCE	7.04
07/05/2017	UTYCK	2203	ICE QUBE, INC.	2,459.00
07/05/2017	UTYCK	2204	MCMASTER-CARR	437.68
07/05/2017	UTYCK	2205	MINUTEMAN SEWER & DRAIN CLEANING	350.00
07/05/2017	UTYCK	2206	S & L SMITH & LOVELESS, INC	420.92
07/05/2017	UTYCK	2207	TRUE VALUE HARDWARE	189.53
07/05/2017	UTYCK	2208	U. S. BANK	250.00
07/05/2017	UTYCK	2209	USA BLUEBOOK	340.97
07/05/2017	UTYCK	590002314 (E)	AT&T	60.60
07/05/2017	UTYCK	590002315 (E)	AT&T	49.95
07/05/2017	UTYCK	590002316 (E)	AT&T	49.24
07/05/2017	UTYCK	590002317 (E)	AT&T	78.60
07/05/2017	UTYCK	590002318 (E)	AT&T	42.05
07/05/2017	UTYCK	590002319 (E)	AT&T	41.45
07/05/2017	UTYCK	590002320 (E)	CONSUMERS ENERGY	17.52
07/05/2017	UTYCK	590002321 (E)	DTE ENERGY	1,404.77

UTYCK TOTALS:

Total of 47 Checks:	57,004.52
Less 0 Void Checks:	0.00
Total of 47 Disbursements:	57,004.52

REPORT TOTALS:

Total of 100 Checks:	147,782.65
Less 1 Void Checks:	546.75
Total of 99 Disbursements:	147,235.90

*Agrees with Invoice Register BK*