TABLE OF CONTENTS

1.0 CANDID SUMMARY

2.0 SYSTEM PERFORMANCE
   2.1 System Design
   2.2 Billings

3.0 SIGNATURES OF ENGINEERING PROFESSIONALS

4.0 PICTURES
1.0 CANDID SUMMARY

Chart House Energy Investment Fund and its financing partner contracted with the City of Ferrysburg to install energy efficiency measures and provide a 25% discount in power saved at City Hall 17290 Roosevelt Road, Ferrysburg, MI 49409. Energy efficiency measures, assorted building lighting to LED lighting, were installed and completed in August, 2018 and 27kW roof-mounted solar PV (photovoltaic) system was completed June, 03, 2019.

System Performance

The contract is billed each year. The energy savings is based upon the 4 year average actual usage. Multi-year average monthly consumption is compared with the present usage and resulting 25% discounted energy. This report provides the basis for the present and future billing.

2.0 SYSTEM PERFORMANCE

2.1 System Design

LED bulbs replaced a variety of bulbs and ballasts removed. Anticipated savings from efficient lighting retrofit is 26% of historical usage.

| Led lightbulbs: | 400 |
| Lightbulb manufacturer: | iGloLED |
| Lightbulb rating: | 18W |
| Lightbulb model: | 4000k, T8, 4ft, Tube Light, Clear, Bypass, Double |

Solar installed to bring the energy consumption of City Hall to 29% of historical usage. Energy storage was included to maximize self-consumption because Grand Haven Board of Light and Power does not credit for excess power generated. Thus, the energy generated from the solar PV is first consumed on site and then stored and when the consumption exceeds generation the stored energy is consumed.

Solar Panel Manufacturer: | Scheuten |
Solar Panel Nameplate Rating: | (81) 205 Watt panels |
Additional Solar Panel Manufacturer: | SolarWorld |
Additional Solar Panel Rating: | (36) 295 Watts panels |
Total System Size: | 27,225 Watts |

Inverters: | 3 |
Inverter Manufacturer: | StorEdge |
Inverter Nameplate Rating: | 7.6 kW |
Inverter Model #: | (3) SE7600A-US (7.6kW) |
Optimizers: | (118) P340 |
System historical usage over the last four years (EE measures began August 2018, solar measures began June 2019).

Ferrysburg City Hall savings compared to total bill if energy efficiency (and soon solar PV) measures were not in place.
Without solar or energy efficiency measures, usage at the Ferrysburg City Hall would have been much higher than previous years. Energy Efficiency plus Solar measures resulted in roughly 47% savings in electrical usage for 2022. Because we don’t have a meter at each fixture in the building, we are comparing the actual usage against the 4 year rolling average of usage. This will allow us to capture changes in usage over time but will also be stable enough to capture the annual energy efficiency savings without lots of metering.

### 2.2 Billings

We are happy to state that we have saved Ferrysburg City Hall $5,696.43 in 2022 (Jan-December). Per the lease agreement, Ferrysburg City Hall agrees to pay 75% of energy savings following installation of energy efficiency measures. The City of Ferrysburg owes Chart House Energy $4,272.32 for the first-year savings.

\[
\begin{align*}
\text{Total Energy Savings Jan 1st 2020-December 31st 2020} & \quad \text{Total Energy Savings Jan 1st 2020-December 31st 2020} \\
\text{<$1,424.11>} & \quad \text{25% discount to City} \\
\text{-----} & \quad \text{-----} \\
\text{$4,272.32} & \quad \text{75% Savings Due from the City}
\end{align*}
\]
3.0 - SIGNATURES OF ENGINEERING PROFESSIONALS

We have successfully installed and commissioned the solar PV system at 17290 Roosevelt Road, Ferrysburg, MI 49409. We are available to answer any questions concerning this report.

Respectfully submitted,

[Signature]

Robert Rafson, P.E.
Michigan License #6201067696
NABCEP #051112-152
Owner, Chart House Energy LLC
4.0 - PICTURE

Below is a photograph of the PV system.
Village of Spring Lake/City of Ferrysburg Police Commission
Meeting Agenda
August 7, 2023
4:00 p.m.
Spring Lake Fire Station #1
106 N Fruitport Road

I.       Call to order

II.      Roll Call: Powers, TePastte, Cate, Blease, Bessinger, Burns

III.     Consideration of approving the June 5, 2023 meeting minutes.

IV.      New Business

   A. Staffing
   B. Miscellaneous

V.       Items from Police Commissioners

VI.      Next Meeting: TBD

VII.     Adjournment
Date: June 5th, 2023
To: Manager Bessinger, City Council
From: Sgt. Jake MacKeller
Re: Monthly Calls (May 2023)

The Ottawa County Sheriff's Office responded to 129 calls for service in the City of Ferrysburg and 125 calls for service in the Village of Spring Lake. Sheriff’s Deputies conducted 131 traffic contacts in the City of Ferrysburg.

Traffic issues:
- Deputies responded to 22 traffic complaints, 14 of which were for speeding or erratic driving on US-31. The other 8 were: a natural gas line being struck, 3 reports for landscape vehicles partially blocking, 1 road rage, 2 broken down vehicles in the roadway, 1 reckless driver, and 1 animal for removal.
- Traffic crashes dropped from 7 in both March and April, down to 6 in May.
- With the warmer weather Deputies have increased patrols and selective speed enforcement on N Shore Dr.

School Information:
- Deputy Allard and other area Deputies have continued to show presence in and around the schools during the school day.
- Deputy Allard spent some time at Lake Hills during their last day.

For the Community:
- With the warmer weather Deputies have been more visible in our parks interacting with residents and visitors.

Training:
- Deputy Turbett participated in the Monthly Dive Team training.

Respectfully submitted,
Sgt. Jake MacKeller.
Calls for Service

<table>
<thead>
<tr>
<th></th>
<th>Jan</th>
<th>Feb</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>Aug</th>
<th>Sept</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td>101</td>
<td>73</td>
<td>91</td>
<td>99</td>
<td>109</td>
<td>130</td>
<td>141</td>
<td>127</td>
<td>107</td>
<td>116</td>
<td>104</td>
<td>105</td>
</tr>
<tr>
<td>2022</td>
<td>113</td>
<td>81</td>
<td>122</td>
<td>113</td>
<td>145</td>
<td>115</td>
<td>145</td>
<td>125</td>
<td>168</td>
<td>140</td>
<td>149</td>
<td>101</td>
</tr>
<tr>
<td>2023</td>
<td>126</td>
<td>82</td>
<td>98</td>
<td>110</td>
<td>129</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

City of Ferrysburg Calls for Service

Citations

<table>
<thead>
<tr>
<th></th>
<th>Jan</th>
<th>Feb</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>Aug</th>
<th>Sept</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td>12</td>
<td>5</td>
<td>14</td>
<td>45</td>
<td>14</td>
<td>54</td>
<td>57</td>
<td>36</td>
<td>36</td>
<td>25</td>
<td>49</td>
<td>21</td>
</tr>
<tr>
<td>2022</td>
<td>24</td>
<td>37</td>
<td>39</td>
<td>53</td>
<td>63</td>
<td>28</td>
<td>41</td>
<td>27</td>
<td>18</td>
<td>26</td>
<td>30</td>
<td>26</td>
</tr>
<tr>
<td>2023</td>
<td>29</td>
<td>17</td>
<td>27</td>
<td>23</td>
<td>36</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

City of Ferrysburg Citations

Traffic Crashes
<table>
<thead>
<tr>
<th></th>
<th>Jan</th>
<th>Feb</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>Aug</th>
<th>Sept</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td>4</td>
<td>8</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>10</td>
<td>14</td>
<td>12</td>
<td>18</td>
<td>12</td>
<td>14</td>
</tr>
<tr>
<td>2022</td>
<td>8</td>
<td>10</td>
<td>21</td>
<td>13</td>
<td>15</td>
<td>9</td>
<td>1</td>
<td>3</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>5</td>
</tr>
<tr>
<td>2023</td>
<td>5</td>
<td>7</td>
<td>6</td>
<td>7</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**City of Ferrysburg Traffic Crashes**

**Medical Responses**

<table>
<thead>
<tr>
<th></th>
<th>Jan</th>
<th>Feb</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>Aug</th>
<th>Sept</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td>15</td>
<td>11</td>
<td>6</td>
<td>11</td>
<td>12</td>
<td>16</td>
<td>15</td>
<td>15</td>
<td>10</td>
<td>12</td>
<td>14</td>
<td>16</td>
</tr>
<tr>
<td>2022</td>
<td>20</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>15</td>
<td>15</td>
<td>13</td>
<td>13</td>
<td>15</td>
<td>14</td>
<td>10</td>
<td>16</td>
</tr>
<tr>
<td>2023</td>
<td>7</td>
<td>6</td>
<td>12</td>
<td>9</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

**City of Ferrysburg Medical Responses**

**Calls of Interest**
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Alarms</td>
<td>1</td>
<td>2</td>
<td>8</td>
<td>6</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Animal</td>
<td>4</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assaults</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B &amp; E</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boat</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Civil Comp</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Domestic</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fraud</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Larceny</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MDOP</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Narcotic</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OWI</td>
<td>3</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Traffic Comp</td>
<td>9</td>
<td>10</td>
<td>10</td>
<td>14</td>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SPRING LAKE – LAKE BOARD
www.springlakeboard.org

MEETING AGENDA

June 12, 2023
4:00 p.m.

Spring Lake Township Hall
101 S. Buchanan
Spring Lake, Michigan

1. Call to Order

2. Lake Board Members Present

3. Additions/Corrections to Agenda

4. Draft Meeting Minutes April 10, 2023

5. Treasurer’s Report

6. Public Comment

7. Muskegon County Commissioner representative (currently vacant)

8. Consultant’s Report
   • Draft Budget and Special Assessment Criteria
   • Public Hearing Proceedings/Legal Counsel
   • Meeting with assessors

9. Public Comment

10. Next Meeting Date

11. Adjourn
Meeting called to order by Chair, John Nash at 2:10 pm.

Members Present: John Nash, Joe Bush, Craig Bessenger (alternate for Vance Meyer), Roger Bergman, Roger Vanderstelt, Dave Split, Mike Rolf (via phone and Zoom).

Members Absent: Brenda Moore and Samantha Verplank

Also Present: Shaun McLarty, Ottawa County Chief Deputy Water Resources Commissioner, Tony Groves and Paul Hausler, Progressive AE

No public in attendance

November 17, 2022, meeting minutes reviewed and accepted with no corrections or changes.

Treasure’s Report: McLarty provided a draft Spring Lake – Lake Board financial report (11/18/22 through 4/6/23) that showed a current fund balance of $146,130.85. It was noted that no assessment funds were reported for Fruitport Township. Groves will contact the Fruitport Township Treasurer regarding same. Discussion ensued regarding simplifying the format of the financial report and it was noted that lake board assessments can be paid any time between December 1 and February 14 without penalty and the current format of the financial report reflects that funds are transferred to the county incrementally as they are collected. It was concluded that no changes in the format of the report are currently warranted. Groves will provide the lake board with a breakdown of the approximate assessment amounts collected by each governmental unit in the assessment district.

Motion by Bergman seconded by Bush to accept the financial report with the understanding that additional information will be forthcoming regarding assessment amounts collected by each local governmental unit and the outstanding Fruitport assessments. Motion passed unanimously.

Election of Officers: Nash noted that he recently resigned his position as Spring Lake Township Supervisor. Nash has chaired the lake board since its inception and indicated he would like to resign his chair position but would remain on the lake board as the representative of Spring Lake Township. John suggested board member Mike Rolf would be a good candidate for chair. Board members acknowledged Nash’s many years of service and thanked him for his leadership. The following motions were then made and approved.

Motion by Bergman seconded by Bush to accept Nash resignation as chair. Motion passed unanimously.

Motion by Bergman seconded by Vanderstelt to reappoint Rolf to a four-year term as the waterfront property owner representative on the lake board. Motion passed unanimously.

Motion by Nash seconded by Bush to elect Rolf as Chair. Motion passed unanimously.

Motion by Bessenger seconded by Vanderstelt to elect Joe Bush as Secretary/Treasurer. Motion passed unanimously with the understanding that staff from Progressive AE will provide detailed meeting notes to facilitate the preparation of meeting minutes.
Consultant's Report:

**Water Quality Report:** The lake board was provided a copy of a report entitled 2022 Spring Lake Water Quality Monitoring Report prepared by Progressive AE that provides a discussion of historical and current water quality conditions in Spring Lake and management implications. Recent data indicates Spring Lake is highly eutrophic and that the effectiveness of the alum treatment that was conducted in 2005 is beginning to decline. A second alum treatment along with a long term watershed management strategy are being recommended to improve conditions in the lake, especially with respect to the algae blooms that have occurred in the lake in recent years.

**Draft Budget (2024 to 2033):** A draft budget for a new program (attached) was presented and discussed. The new program is proposed to include the same components as in previous years (i.e., aquatic plant control, plant control coordination/field evaluations, water quality monitoring, information and education, watershed management plus an alum treatment). If an alum treatment is approved, it is proposed to be financed over a 10-year period. The annual cost of the new program is $670,000 which equates to a unit assessment of about $600 per year. Several lake board members noted that the necessity of another alum treatment of Spring Lake is going to need to be explained in full as lake residents will have many questions. We must be prepared to present the factual basis for another alum treatment and the anticipated water quality benefits. It was stated that the effectiveness and longevity of a second alum treatment of Spring Lake may be enhanced since the current sediment phosphorus release rate is about one-half the release rate measured before the first alum treatment. In addition, the alum dose for this treatment would be about 20% greater than the dose applied in 2005, and today's application technology is more precise than what was used previously.

**Public Hearings and Legal Counsel:** Two public hearings will need to be held to proceed with a new project. The first hearing called the hearing of practicability is to obtain public input on the necessity of the project and the second hearing is on the special assessment roll. The lake board discussed a tentative date for the hearing of practicability of Monday, August 14, 2023 at 6:30 pm in the high school auditorium, if available.

Given the costs associated with the proposed new project, Groves recommended the lake board consider retaining legal counsel to assist with the public hearing proceedings and the bonding process. The law firm of Fahey Schultz Burzych Rhodes was recommended to assist with the hearings and the firm of Dickinson Wright was recommended as bond counsel. Groves will contact the firms to inquire about costs and availability.

**Next Meeting Date:** The next meeting was scheduled for Monday, June 12, 2023 at 4:00 pm at the Spring Lake Township Hall. A second meeting was tentatively scheduled for Monday, July 10, 2023 also at the Spring Lake Township Hall.

Meeting Adjourned at 3:30 pm.