

# **Town of Seekonk, Massachusetts**

## **Energy Reduction Plan**

**Prepared by the Southeastern Regional Planning and Economic  
Development District (SRPEDD) with support from the Town of Seekonk**



**In Fulfillment of the  
Massachusetts Green Communities Grant Program  
Criterion #3**

**October 2018**



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## I. Purpose and Acknowledgements

### A. Letter from the General Government Verifying Adoption of the Energy Reduction Plan



## TOWN OF SEEKONK

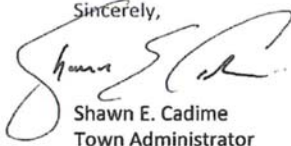
October 25, 2018

To Whom It May Concern:

Please be advised that on October 24, 2018, the Select board of the Town met at a duly noticed and regularly scheduled meeting and voted to adopt the Energy Reduction Plan for Criterion 3 of the Green Communities Application for Designation. The Select board was given copies of the plan for review prior to the meeting.

The Select board voted unanimously to adopt the plan and the minutes of that meeting include the vote.

Sincerely,



Shawn E. Cadime  
Town Administrator

100 Peck Street, Seekonk, Massachusetts 02771

B. Letter from the School District Verifying Adoption of the Energy Reduction Plan



Seekonk Public Schools  
Administrative Offices  
[www.seekonkschools.org](http://www.seekonkschools.org)

DR. RICH DROLET  
Superintendent of Schools

JILL BRILHANTE  
Finance Administrator

ZACHARY WADDICOR  
Asst. Superintendent for Teaching & Learning

SUSAN DOE  
Director of Special Education

October 24, 2018

MA Department of Energy Resources  
Green Communities Division  
100 Cambridge Street, Suite 1040  
Boston, MA 02114

To Whom It May Concern,

Please be advised that the Seekonk Public Schools' hereby adopt the *Energy Reduction Plan* of the Town of Seekonk's Green Communities Application for Designation.

Thank you for your kind attention.

Sincerely,

Rich Drolet, Ed.D.  
Superintendent of Schools

Cc: Kim Sluter, Chair, Seekonk School Committee  
Jim Roy, Supervisor of Buildings & Grounds

25 Water Lane • Seekonk, MA • 02771-4615 • Tel (508) 399-5106 • Fax (508) 399-5128

*The Seekonk Public Schools strives to provide a safe, respectful, and supportive learning environment in which all students can thrive and succeed in its schools. The Seekonk Public Schools prohibits discrimination on the basis of race, color, sex, age, gender identity, disability, religion, national origin, homelessness, or sexual orientation and ensures that all students have equal rights of access and equal enjoyment of the opportunities, advantages, privileges, and courses of study.*

### C. List of Contributors

The collaborative efforts of the offices of Seekonk Town Administrator Shawn E. Cadime, Director of Finance Bruce Alexander, Town Planner John J. Aubin III, and Seekonk Public Schools Supervisor of Buildings and Grounds James Roy. MA Department of Energy Resources Green Community Regional Coordinator Seth Pickering were all vital in the production this Plan.

Much of the information in this Plan was derived from energy audits performed by Prism Energy Services, led by Janet Lukas and by Energy Source, led by Dalton Ling. Additional technical assistance was provided by the Southeastern Regional Planning and Economic Development District (SRPEDD), the author of this Plan.

## II. Executive Summary

### A. Narrative Summary of the Town

The Town of Seekonk is located in southeastern Massachusetts in western Bristol County. It is located 48 miles southwest of Boston and 8 miles east of Providence, Rhode Island. The town has an approximate area of 18.4 square miles and is bordered by Attleboro on the north; Rehoboth on the east; Barrington, Rhode Island and Swansea on the south; and East Providence and Pawtucket, Rhode Island on the west. According to the 2010 U.S. Census, Seekonk had a population of 13,722, having experienced a 2.2% increase in population since 2000.

Seekonk was originally settled in the early seventeenth century and was part of Rehoboth, East Providence and Pawtucket Rhode Island over the next century, before incorporating as its own community in 1812. Originally a farming community, its economy expanded into the industrial sector in the 19th century, but remained primarily agricultural into the earlier 20<sup>th</sup> century.

Today, Seekonk is a suburban community for people who work in Boston, Massachusetts and Providence, Rhode Island. Seekonk's population grew steadily from the 1950 through 1990, but has slowed considerably since that time. Seekonk is accessible to the larger southeastern Massachusetts region and Rhode Island via the east-west Routes 6 and Interstate 195 which passes through the southern part of town, Route 44 which pass through the center of town and the north-south Route 152.

### B. Summary of Municipal Energy Uses

- Total Number of Municipal Buildings: 10
- Total Number of Municipal Vehicles: 75
- Total Number of Street Lights: 480
- Total Number of Traffic Lights: 0
- Water & Sewer: The Town of Seekonk is serviced for water by the Seekonk Water District and sewer is disposed of onsite via septic systems.

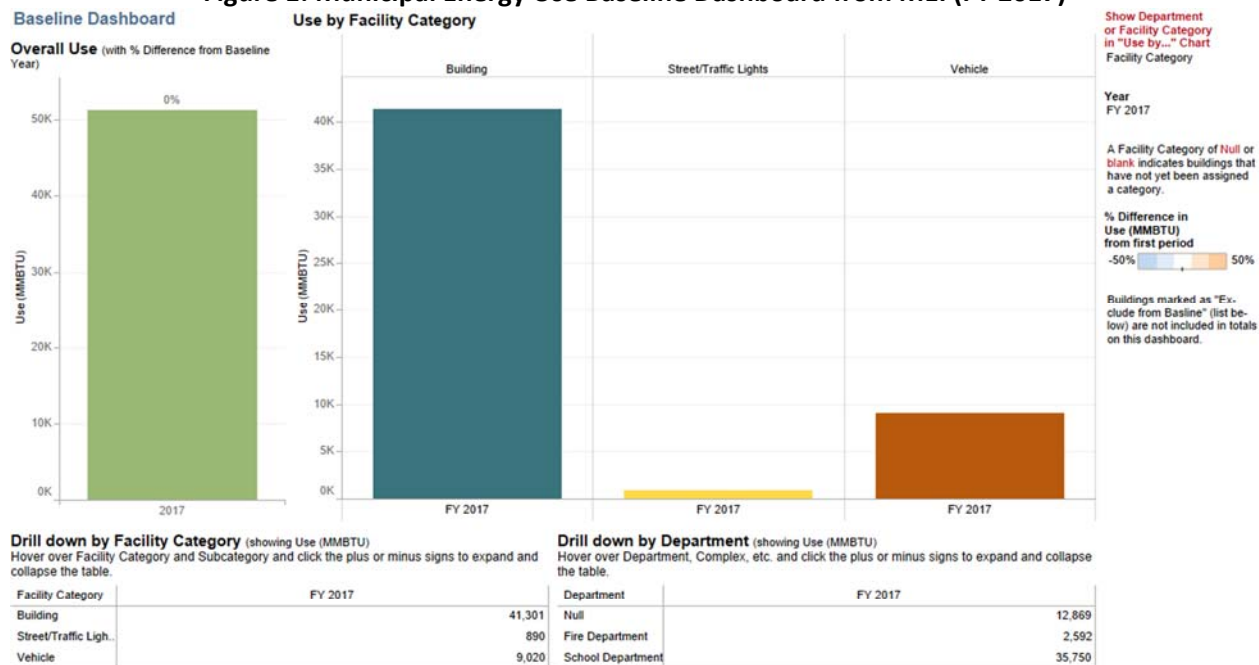
**Table 1: Municipal Energy Use Summary**

|                       | Number     | Ownership    |
|-----------------------|------------|--------------|
| <b>Buildings</b>      | <b>10</b>  |              |
| Natural Gas Heat      | 10         | Municipality |
| <b>Vehicles</b>       | <b>75</b>  |              |
| Non-Exempt            | 10         | Municipality |
| Exempt                | 65         | Municipality |
| <b>Street Lights</b>  | <b>480</b> | Municipality |
| <b>Traffic Lights</b> | <b>0</b>   | Municipality |

### C. Summary of Energy Use Baseline and Plans for Reductions

This Energy Reduction Plan commits Seekonk to reduce energy use in municipal facilities by at least 20% compared to Fiscal Year 2017 over five years. In the baseline year, the town used 51,211 MMBTUs of energy, which means the town must reduce usage by at least 10,242 MMBTUs over the following five-year period.

**Figure 1: Municipal Energy Use Baseline Dashboard from MEI (FY 2017)**





Seekonk has identified energy savings measures in each facility category to reduce energy use 20% based on the total baseline usage, as illustrated in Table 2.

**Table 2: Summary of Municipal Energy Use and Reductions**

| <b>Facility Category</b>     | <b>MMBTU Used<br/>in Baseline<br/>Year</b> | <b>% of Total<br/>MMBtu Baseline<br/>Energy<br/>Consumption</b> | <b>Projected<br/>Planned MMBtu<br/>Savings</b> | <b>Savings as % of<br/>Total MMBtu<br/>Baseline Energy<br/>Consumption</b> |
|------------------------------|--|---|--|--|
| <b>Buildings</b>             | 41,301                                     | 80.6%   | 10,593   | 20.7%  |
| <b>Vehicles</b>              | 9,020                                      | 17.6%   | 0  | 0.0%   |
| <b>Street/Traffic Lights</b> | 890  | 1.7%  | 441  | 0.9%   |
| <b>Water/Sewer/Pumping</b>   | N/A  | N/A   | N/A  | N/A  |
| <b>Total</b>                 | <b>51,211</b>                              | <b>100%</b>   | <b>11,034</b>                                  | <b>21.6%</b>   |

### III. Energy Use Baseline Inventory

A. Identification of the Inventory Tool Used: The Town of Seekonk used the Department of Energy Resources (DOER) MassEnergyInsight (MEI) web-based energy inventory and analysis tool.

B. Identification of the Baseline Year: Fiscal Year (FY) 2017 will serve as the baseline year. FY 2017 ran from July 1, 2016 to June 30, 2017. This will give the Town until June 30, 2022 (FY 2018 – FY 2022) to reach its 20% energy reduction goal.

C. Municipal Energy Consumption for the Baseline Year (FY 2017): In baseline year, the town used 52,570 MMBTUs of energy. The Appendix presents energy use for each municipal facility in MMBTUs and native units.

- Buildings: Seekonk's 10 buildings use 41,301 MMBTUs, approximately 80.6% of Seekonk's total municipal energy use. The buildings with the largest energy use are Seekonk High School (12,553 MMBTUs) and Dr. Kevin M. Hurley Middle School (10,039 MMBTUs), as shown in Figure 2.
- Street/Traffic Lights: There are 480 streetlights and 0 traffic lights in Seekonk. These lights consume 890 MMBTUs, 1.7% of the Town's energy use.
- Vehicles: Seekonk's 75 municipal vehicles use 17.6% of the baseline total, or 9,020 MMBTUs.
- Water/Sewer Facilities: The Town of Seekonk is serviced for water by the Seekonk Water District and sewer is disposed of onsite via septic systems.

**Table 3A: Municipal Energy Consumption for FY2017, Native Fuel Units**  
**ERP Guidance Table 3a - Municipal Energy Consumption for 2017 (Native Fuel Units)**

|                          |                             | 2017              |                 |                       |                     |
|--------------------------|-----------------------------|-------------------|-----------------|-----------------------|---------------------|
|                          |                             | Electric<br>(kWh) | Gas<br>(therms) | Gasoline<br>(gallons) | Diesel<br>(gallons) |
| Building                 | Dr. Kevin M. Hurley MS      | 544,175           | 81,824          |                       |                     |
|                          | Station #1                  | 1,288             |                 |                       |                     |
|                          | George R Martin ES          | 346,161           | 60,876          |                       |                     |
|                          | Library                     | 121,040           | 7,503           |                       |                     |
|                          | Public Safety               | 396,869           | 12,334          |                       |                     |
|                          | Mildred Aitken ES           | 288,320           | 49,053          |                       |                     |
|                          | Seekonk HS                  | 1,170,732         | 85,585          |                       |                     |
|                          | Public Works                | 27,722            | 3,651           |                       |                     |
|                          | Town Hall                   | 104,789           | 9,786           |                       |                     |
|                          | <b>Total</b>                | <b>3,001,096</b>  | <b>310,612</b>  |                       |                     |
| Street/Traffic<br>Lights | Traffic Signal/Street Light | 260,771           |                 |                       |                     |
|                          | <b>Total</b>                | <b>260,771</b>    |                 |                       |                     |
| Vehicle                  | Vehicles                    |                   |                 | 48,665                | 21,480              |
|                          | <b>Total</b>                |                   |                 | <b>48,665</b>         | <b>21,480</b>       |
| <b>Grand Total</b>       |                             | <b>3,261,867</b>  | <b>310,612</b>  | <b>48,665</b>         | <b>21,480</b>       |

**Table 3B: Municipal Energy Consumption for FY2017, MMBTU**  
**ERP Guidance Table 3b - Municipal Energy Consumption for 2017 (MMBTU)**

**Please make sure that any data submitted to DOER contains complete Data!**

|                       |                             | 2017   |          |        |          |        |
|-----------------------|-----------------------------|--------|----------|--------|----------|--------|
|                       |                             | Diesel | Electric | Gas    | Gasoline | Total  |
| Building              | Dr. Kevin M. Hurley MS      |        | 1,857    | 8,182  |          | 10,039 |
|                       | Station #1                  |        | 4        |        |          | 4      |
|                       | George R Martin ES          |        | 1,181    | 6,088  |          | 7,269  |
|                       | Library                     |        | 413      | 750    |          | 1,163  |
|                       | Public Safety               |        | 1,354    | 1,233  |          | 2,588  |
|                       | Mildred Aitken ES           |        | 984      | 4,905  |          | 5,889  |
|                       | Seekonk HS                  |        | 3,995    | 8,559  |          | 12,553 |
|                       | Public Works                |        | 95       | 365    |          | 460    |
|                       | Town Hall                   |        | 358      | 979    |          | 1,336  |
|                       | Total                       |        | 10,240   | 31,061 |          | 41,301 |
| Street/Traffic Lights | Traffic Signal/Street Light |        | 890      |        |          | 890    |
|                       | Total                       |        | 890      |        |          | 890    |
| Vehicle               | Vehicles                    | 2,986  |          |        | 6,034    | 9,020  |
|                       | Total                       | 2,986  |          |        | 6,034    | 9,020  |
| Grand Total           |                             | 2,986  | 11,129   | 31,061 | 6,034    | 51,211 |

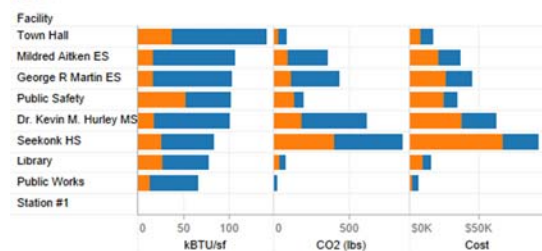
**Figure 2: MEIs Buildings to Target Dashboard**

In Figure 2 below, the points further to the right have a higher energy use per square foot (i.e. less energy efficient), while the points higher up use more total energy. Seekonk High School, for example, uses the most energy of any building in Seekonk.

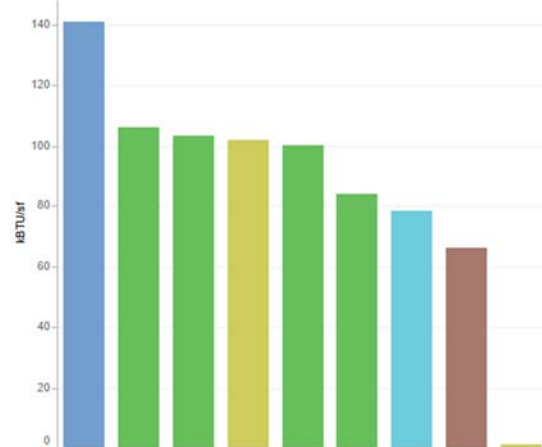
#### Buildings to Target

This dashboard compares buildings to one other on an energy use per area metric, measured as kBTU/square foot. In the quadrant chart on the right, buildings with the highest energy use and worst efficiency (as compared to other buildings in your portfolio) are in the upper right hand quadrant. Facilities of the types Open Space, Water/Sewer, Street/Traffic Lights, and Vehicles are not displayed. Diesel and Gasoline records attached to a building are not included in the kBTU/SF calculation.

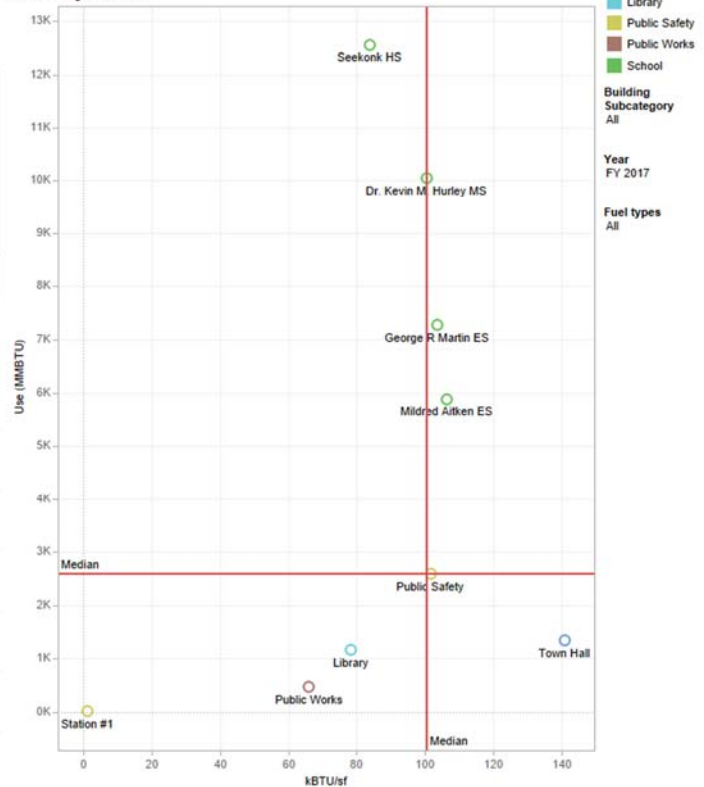
**Building Efficiency, Emissions and Cost** ■ Heating ■ Electric  
Emissions factors updated 1/4/2012 using Massachusetts-specific greenhouse gas emissions factors.



Select a building name above to see how efficient it is compared to your other buildings. Lower numbers indicate greater efficiency.



#### Efficiency and Use



## IV. Energy Reduction Plan

### A. Narrative Summary

As shown below, the town has identified energy savings measures to reduce usage from FY 2017 by 10,593 MMBTUs or 20.7%.

#### Prism Energy Services Audit

##### ▪ **Dr. Kevin M. Hurley Middle School**

###### Rooftop Unit Replacement

- Remove and properly dispose of two (2) cooling only AAON RTUs, model RH-20-2-EO-750
- Supply and install two (2) Daikin RTUs or equivalents
- Replace the likely 80% inefficient boiler with a new, more efficient 95% boiler.

##### ▪ **Mildred H. Aitken Elementary School**

###### Zone Circulator Motor Replacement

- Remove and dispose of five (5) ITT Bell & Gossett zone circulating pump motors
- Provide and install five (5) Grundfos ECM motors with integral CFDs
- Replace the likely 80% inefficient boiler with a new, more efficient 95% boiler.

###### EC Motors on Univents

- Remove and dispose of standard motors in univents (qty. 12)
- Provide and install 12 new EC motors in unit ventilators

###### Rooftop Unit Replacement

- Remove and properly dispose of two (2) cooling only AAON RTUs, model RH-20-2-EO-750
- Supply and install two (2) Daikin RTUs or equivalents

##### ▪ **Human Services (Senior Center)**

###### Energy Management System

- Supply and install building automation controls to existing system consisting of:
  - ❖ A new WebView Graphical User interface
  - ❖ New DDC controls for mechanical systems including one (1) Lochinvar B-1 hanging boiler currently controlled by a standalone JCI FX controller and two (2) Toshiba Carrier condensing units and the 13 associated indoor cassettes
  - ❖ Remove 13 Toshiba Carrier programmable thermostats, model RBC-AMS54E-UL and replace with DDC temperature sensors
  - ❖ Ability to view setpoints and controls via a new town-wide system through a web-based graphical user interface

(Not included in the scope of work is Toshiba Gateway modification to provide the BACnet variables)

###### Weatherization

- Exhaust fan air-sealing
  - ❖ 3 exhaust fans, total 15 LF
- Skylights air-sealing
  - ❖ 10 skylights, total 100 LF

- Windows air-sealing
    - ❖ Total 900 LF
  - Roof-wall Joints air-sealing
    - ❖ 1-line at <14' working height, total 400 LF
  - Soffit air-sealing
    - ❖ 400 LF to match roof-wall (need to verify)
- **Public Library**
- Rooftop Unit (RTU) Replacement
- Remove, demo, and properly dispose of existing Trane RTU
  - Provide and install a new rooftop unit with integrated controls (Trane or Daikin)
- Lighting and Controls
- Replace the existing 241 light ballasts with 284 new efficient light ballasts.
- **Public Safety Complex**
- Pipe Insulation
- Pipe re-insulation
    - ❖ Replace air handler unit pipe insulation (3" diameter), total 12 LF
- Lighting and Controls
- Replace the existing 396 light ballasts with 396 new efficient light ballasts.
- **Town Hall**
- Lighting and Controls
- Replace the existing 191 light ballasts with 191 new efficient light ballasts.
- **Banna Fire Department**
- Lighting and Controls
- Replace the existing 74 light ballasts with 74 new efficient light ballasts.
- **Department of Public Works**
- Programmable Thermostats
- Remove and properly dispose of existing manual thermostats
  - Provide, install, and program four (4) programmable, Wi-Fi enabled thermostats with temperature setpoints and schedules per the DPW staff.
- Plug Load Controllers
- Install plug load controller in office and break room
  - Set controllers to shut off AC units during unoccupied periods.

## **Energy Source Audit**

### **Install Condensing Boilers**

It is recommended new condensing boilers are installed at a few buildings at Seekonk. Condensing boilers (average efficiency 92%) can obtain a much higher efficiency than the standard non-condensing boiler (average efficiency 80%). The scope of this work includes the following:

- Supply and install condensing boilers
- Removal and disposal of existing boilers and all necessary piping and components of the old system no longer required
- Installation of direct venting system for combustion air and exhaust air
- Install outside air controls for maximum efficiency
- Commissioning and startup of new boiler systems

By implementing this measure at Seekonk High School, the Martin Elementary School, the Aitken Elementary School, and the Seekonk Public Safety Building, the town will save 28,537 therms of gas and \$34,245 annually.

### **Install Energy Management Systems**

It is recommended that an Energy Management System will be installed or will replace the existing obsolete systems. Energy Savings will also occur from the new furnished controls to tighten and refine building temperature conditions. In conjunction with the local controllers and their energy savings features, it will also allow for remote control, monitoring and alarming of the mechanical equipment.

The full scope of work is shown below:

- Provide and install new controllers for the listed mechanical equipment above
- Provide and install a supervisory controller which will include graphics, trend data and email alerts.
- Provide and install DDC actuators to replace any pneumatic actuators
- Field commissioning, graphical interface and checkout.
- Field Training and O&M Manuals and documentation.
- Classroom Training
- Provide all necessary controls, programming and graphics to provide a fully functional control system.

The savings from this measure will result in the following control strategies:

- Temperature Setback which will reduce the facility temperature setpoint during unoccupied hour
- The pumps/fans will turn off during unoccupied hours unless temperature drops below 35o F in which they will turn on to maintain night setback temperature.
- Demand Control Ventilation (DCV) which allows the minimum required outside air to be delivered to each room during the heating/cooling months.

By implementing this measure at the Martin Elementary School, the Aitken Elementary School, the Seekonk Library, Seekonk Town Hall, and the Seekonk Public Safety Building, the town will save 95,999 kWh of electricity, 10,761 therms of gas, and \$30,193 annually.



### **Install Building Weatherization Measures**

By implementing this measure, the reduction in heat loss/heat gain will occur which will lead to energy savings. The scope of work includes the following:

- Caulking
- Door Weather Stripping
- Overhang Air Sealing
- Overhead Door Weather Stripping
- Roof Air Barrier Retrofit
- Roof Insulation
- Roof-Wall Intersection Air Sealing
- Wall Air Sealing

By implementing this measure at Seekonk High School, the Hurley Middle School, the Martin Elementary School, the Aitken Elementary School, Seekonk Town Hall, the Seekonk Public Safety Building, the Seekonk Library, and the Seekonk Department of Public Works the town will save 38,810 kWh of electricity, 16,795 therms of gas, and \$27,140 annually.

### **Install Demand Control Ventilation**

It is recommended that the current Energy Management Systems at Seekonk High School and the Martin Elementary School are expanded or an Energy Management System is installed to include Demand Control Ventilation. This will also include furnishing and installing duct CO2 sensors for any Air Handler Units/ Rooftop Units. The scope of work includes the following:

- Each HVAC equipment will include a non-proprietary field controller (if applicable)
- Furnish and Install a CO2 Sensor for each Air Handling Units or Rooftop Units.

By implementing this measure at Seekonk High School and the Martin Elementary School, the town will save 38,896 kWh of electricity, 17,215 therms of gas, and \$27,659 annually.

### **Install High Efficiency Rooftop Units**

It is recommended new high efficiency Rooftop Unit is installed at the Seekonk Library which can obtain a much higher efficiency than the standard RTUs. The current unit has also been there for over 25 years; which has resulted in efficiency losses over time. The scope of this work includes the following:

- Supply and install new high efficiency 40 Ton Rooftop Unit
  - o Equipped with Variable Frequency Drive
  - o BACnet enabled
- Removal and disposal of existing RTUs
- Reconnect into current gas line and electrical as well
- Utilizing existing curbs of existing Rooftop Units

By implementing this measure at Seekonk Library, the town will save 7,031 kWh of electricity, 163 therms of gas, and \$1,462 annually.

### **Install Mechanical Insulation**

It is recommended that the bare tank, and valve is insulated with cellular insulation. By implementing this measure, the reduction in heat loss will accrue, which will lead to energy savings. The scope of work includes the following:

- Insulation of pipes, valves, fittings and tanks to meet the insulation requirements of the fluid temperature in the pipe
- Utilize/install pipe covering/jacket to protect the insulation material as required in the work area.

By implementing this measure at Seekonk High School, the Hurley Middle School, the Martin Elementary School, the Aitken Elementary School, the Seekonk Public Safety Building, and the Seekonk Department of Public Works, the town will save 8,990 therms of gas and \$10,788 annually.

### **Install Variable Frequency Drives/Motors**

It is recommended Variable Frequency Drives (VFDs) and high efficiency motors (if applicable) are installed on each pump/fan and controlled via differential pressure, and temperature, allowing for electrical savings. The scope of this work includes the following:

- Supply and install nine Variable Frequency Drives (VFDs) in place of the existing motor starters
- Remove and replace four existing motors with new NEMA premium motors
- Start-up and testing of the new VFDs, and motors
- Integrate into Energy Management System (if applicable)
- Warranty for one year

By implementing this measure at Seekonk High School, the Aitken Elementary School, the Seekonk Library, and the Seekonk Public Safety Building, the town will save 58,762 kWh of electricity and \$10,577 annually.

### **Install Kitchen Fan Motors**

It is recommended a kitchen hood control system is installed on the ventilation and exhaust fans and controlled based on temperature. When the kitchen ovens and grills are turned on and the kitchen is active; the exhaust temperature will increase, and this will allow the Variable Frequency Drives to turn on to satisfy exhaust conditions. When the kitchen equipment gets turned off, the VFDs will ramp down which will reduce the schools' energy consumption. The scope of this work includes the following:

- Supply and install Variable Frequency Drives (VFDs) in place of the existing motor starters for kitchen exhaust and ventilation fans
- Install temperature/optic sensors in the kitchen exhaust ductwork
- Start-up and testing of the new VFDs
- Warranty for one year

By implementing this measure at the Martin Elementary School and the Aitken Elementary School, the town will save 7,135 kWh of electricity, 2,984 therms of gas and \$4,865 annually.

**Install High Efficiency Transformers**

It is recommended that two standard efficiency transformers at Seekonk High School are replaced with Rex High Efficiency Transformers. By implementing this measure, the overall energy consumption of the transformers will decrease which will lead to annual energy cost savings. The scope of work includes the following:

- Furnish and install two Rex High Efficiency Transformers
- Removal of existing Transformers

By implementing this measure at Seekonk High School, the town will save 24,895 kWh of electricity and \$4,481 annually.

**National Grid Streetlight Audit**

A National Grid audit noted that there are 480 streetlights in Seekonk eligible for LED conversion. The annual cost savings would be approximately \$7,116.

## **B. Path to 20% Energy Use Reduction by the end of Fiscal Year 2022**

### 1. Program Management Plan for Implementation, Monitoring, and Oversight

The Town Administrator's Office, in collaboration with the School Department, will be responsible both for oversight of the Energy Reduction Plan and for implementation of energy conservation measures within the Town. The Town Administrator's Office will be responsible for the annual reporting requirements to maintain designation and eligibility for annual competitive grant funding.

### 2. Summary of Energy Audit(s) or Other Sources for Projected Energy Savings

- Building audits were provided by Energy Source in 2018 and provide an energy savings of 1,983 MMBTUs or 14.1%. Both the Prism Energy Services and the Energy Source audits are included in the Appendix.
- A streetlight audit was provided by National Grid and is expected to provide an energy savings of 441 MMBTUs or 0.9%. Documentation is included in the Appendix.
- Vehicle policy and maintenance targeting overall vehicle usage would result in the savings 200 MMBTUs or 1.4%. The supporting documentation for these policy and maintenance measures are available in the Appendix.

### 3. Energy Conservation Measures

Table 3 lists recommended energy conservation measures. References for each measure are included in the table and these references are included as appendices to the Energy Reduction Plan. Projected annual MMBTU savings for each category (buildings, vehicles, and street and traffic lights) are subtotaled to arrive at a municipal grand total.

Table 4: Energy Conservation Measures for Seekonk Municipal Energy Use

| Measure                  |                                  | Status                                  |                           | Energy Data                     |                       |                            |                          |                           | Financial Data                |                                   |                              |                                   |  |  | Reference      |                                   |
|--------------------------|----------------------------------|---|---------------------------|---------------------------------|-----------------------|----------------------------|--------------------------|---------------------------|-------------------------------|-----------------------------------|------------------------------|-----------------------------------|--|--|----------------|-----------------------------------|
| Category/Building        | Energy Conservation Measure      | Status (Completed Year or Planned Year) | Electricity Savings (kWh) | Projected Annual Energy Savings |                       |                            |                          |                           | Projected Annual Cost Savings | Estimated Total Project Cost (\$) | Green Communities Grant (\$) | Estimated Utility Incentives (\$) | Estimated Cost After Utility Incentives (\$) | Estimated Payback After Incentives (Years) | Funding Source | Source for Energy Savings         |
|                          |                                  |   |                           | Natural Gas Savings (Therms)    | Oil Savings (Gallons) | Gasoline Savings (Gallons) | Diesel Savings (Gallons) | Propane Savings (Gallons) |                               |                                   |                              |                                   |  |  |                |                                   |
| Hurley Middle School     | Rooftop Unit Replacements        | 2020                                    | 32,539                    | 0                               | 0                     | -                          | -                        | -                         | \$5,571                       | \$253,846                         | -                            | \$0                               | \$253,846                                    | 45.6                                       | -              | Prism Energy Services Audit, 2018 |
| Hurley Middle School     | Mechanical Insulation            | 2019                                    | 0                         | 3,750                           | 0                     | -                          | -                        | -                         | \$4,500                       | \$39,467                          | -                            | \$3,750                           | \$35,717                                     | 7.9  | -              | Energy Source Audit, 2018         |
| Hurley Middle School     | Building Weatherization          | 2019                                    | 2,511                     | 1,143                           | 0                     | -                          | -                        | -                         | \$1,824                       | \$11,665                          | -                            | \$0                               | \$11,665                                     | 6.4  | -              | Energy Source Audit, 2018         |
| Aitken Elementary School | Rooftop Unit Replacements        | 2020                                    | 27,891                    | 0                               | 0                     | -                          | -                        | -                         | \$4,831                       | \$245,385                         | -                            | \$0                               | \$245,385                                    | 50.8                                       | -              | Prism Energy Services Audit, 2018 |
| Aitken Elementary School | ECM Motors for Unit Vents        | 2020                                    | 4,063                     | 0                               | 0                     | -                          | -                        | -                         | \$704                         | \$9,138                           | -                            | \$1,200                           | \$7,938                                      | 11.3                                       | -              | Prism Energy Services Audit, 2018 |
| Aitken Elementary School | Circulation Motor Replacement    | 2020                                    | 3,099                     | 0                               | 0                     | -                          | -                        | -                         | \$537                         | \$8,885                           | -                            | \$500                             | \$8,385                                      | 15.6                                       | -              | Prism Energy Services Audit, 2018 |
| Aitken Elementary School | Condensing Boilers               | 2020                                    | 0                         | 7,100                           | 0                     | -                          | -                        | -                         | \$8,520                       | \$209,492                         | -                            | \$20,000                          | \$189,492                                    | 22.2                                       | -              | Energy Source Audit, 2018         |
| Aitken Elementary School | Energy Management System         | 2021                                    | 30,528                    | 5,424                           | 0                     | -                          | -                        | -                         | \$12,004                      | \$129,675                         | -                            | \$18,000                          | \$111,675                                    | 9.3  | -              | Energy Source Audit, 2018         |
| Aitken Elementary School | Kitchen Fan Controls             | 2021                                    | 4,968                     | 1,744                           | 0                     | -                          | -                        | -                         | \$2,987                       | \$30,030                          | -                            | \$3,744                           | \$26,286                                     | 8.8  | -              | Energy Source Audit, 2018         |
| Aitken Elementary School | Variable Frequency Drives/Motors | 2021                                    | 22,113                    | 0                               | 0                     | -                          | -                        | -                         | \$3,980                       | \$18,850                          | -                            | \$4,050                           | \$14,800                                     | 3.7  | -              | Energy Source Audit, 2018         |
| Aitken Elementary School | Mechanical Insulation            | 2019                                    | 0                         | 1,400                           | 0                     | -                          | -                        | -                         | \$1,680                       | \$13,670                          | -                            | \$1,400                           | \$12,270                                     | 7.3  | -              | Energy Source Audit, 2018         |
| Aitken Elementary School | Building Weatherization          | 2019                                    | 4,460                     | 2,030                           | 0                     | -                          | -                        | -                         | \$3,239                       | \$22,704                          | -                            | \$0                               | \$22,704                                     | 7.0  | -              | Energy Source Audit, 2018         |
| Martin Elementary School | Condensing Boilers               | 2021                                    | 0                         | 6,954                           | 0                     | -                          | -                        | -                         | \$8,344                       | \$137,683                         | -                            | \$15,000                          | \$122,683                                    | 14.7                                       | -              | Energy Source Audit, 2018         |
| Martin Elementary School | Energy Management System         | 2021                                    | 18,212                    | 1,354                           | 0                     | -                          | -                        | -                         | \$4,903                       | \$122,850                         | -                            | \$18,000                          | \$104,850                                    | 21.4                                       | -              | Energy Source Audit, 2018         |
| Martin Elementary School | Demand Control Ventilation       | 2021                                    | 6,116                     | 3,886                           | 0                     | -                          | -                        | -                         | \$5,764                       | \$52,650                          | -                            | \$8,100                           | \$44,550                                     | 7.7  | -              | Energy Source Audit, 2018         |
| Martin Elementary School | Kitchen Fan Controls             | 2021                                    | 2,167                     | 1,240                           | 0                     | -                          | -                        | -                         | \$1,878                       | \$16,531                          | -                            | \$2,240                           | \$14,291                                     | 7.6  | -              | Energy Source Audit, 2018         |
| Martin Elementary School | Mechanical Insulation            | 2019                                    | 0                         | 1,010                           | 0                     | -                          | -                        | -                         | \$1,212                       | \$8,667                           | -                            | \$1,010                           | \$7,657                                      | 6.3  | -              | Energy Source Audit, 2018         |
| Martin Elementary School | Building Weatherization          | 2019                                    | 6,227                     | 2,834                           | 0                     | -                          | -                        | -                         | \$4,522                       | \$45,307                          | -                            | \$0                               | \$45,307                                     | 10.0                                       | -              | Energy Source Audit, 2018         |
| Seekonk High School      | Condensing Boilers               | 2021                                    | 0                         | 12,668                          | 0                     | -                          | -                        | -                         | \$15,201                      | \$306,553                         | -                            | \$20,000                          | \$286,553                                    | 18.9                                       | -              | Energy Source Audit, 2018         |
| Seekonk High School      | Demand Control Ventilation       | 2022                                    | 32,780                    | 13,329                          | 0                     | -                          | -                        | -                         | \$21,895                      | \$103,943                         | -                            | \$23,700                          | \$80,243                                     | 3.7  | -              | Energy Source Audit, 2018         |
| Seekonk High School      | Variable Frequency Drives/Motors | 2022                                    | 8,862                     | 0                               | 0                     | -                          | -                        | -                         | \$1,595                       | \$10,400                          | -                            | \$4,000                           | \$6,400                                      | 4.0  | -              | Energy Source Audit, 2018         |

|                       |  |      |        |       |   |   |   |   |         |           |   |          |           |      |   |                                   |
|-----------------------|--|------|--------|-------|---|---|---|---|---------|-----------|---|----------|-----------|------|---|-----------------------------------|
| Seekonk High School   | Mechanical Insulation                  | 2019 | 0      | 2,230 | 0 | - | - | - | \$2,676 | \$12,184  | - | \$2,230  | \$9,954   | 3.7  | - | Energy Source Audit, 2018         |
| Seekonk High School   | Building Weatherization                | 2019 | 9,120  | 4,150 | 0 | - | - | - | \$6,622 | \$46,071  | - | \$0      | \$46,071  | 7.0  | - | Energy Source Audit, 2018         |
| Seekonk High School   | High Efficiency Transformers           | 2022 | 24,895 | 0     | 0 | - | - | - | \$4,481 | \$23,031  | - | \$2,490  | \$20,542  | 4.6  | - | Energy Source Audit, 2018         |
| Senior Center         | Weatherization                         | 2019 | 1,518  | 1,568 | 0 | - | - | - | \$2,005 | \$49,375  | - | \$1,841  | \$47,534  | 23.7 | - | Prism Energy Services Audit, 2018 |
| Senior Center         | Energy Management System               | 2022 | 10,463 | 0     | 0 | - | - | - | \$1,935 | \$19,292  | - | \$1,883  | \$17,409  | 9.0  | - | Prism Energy Services Audit, 2018 |
| Library               | Lighting-New Fixtures                  | 2019 | 25,186 | 0     | 0 | - | - | - | \$4,627 | \$61,231  | - | \$9,395  | \$51,836  | 11.2 | - | Prism Energy Services Audit, 2018 |
| Library               | Rooftop Unit Replacement               | 2022 | 37,532 | 1,152 | 0 | - | - | - | \$8,266 | \$226,154 | - | \$7,908  | \$218,246 | 26.4 | - | Prism Energy Services Audit, 2018 |
| Library               | Energy Management System               | 2022 | 21,374 | 1,442 | 0 | - | - | - | \$5,577 | \$58,305  | - | \$9,600  | \$48,705  | 8.7  | - | Energy Source Audit, 2018         |
| Library               | Building Weatherization                | 2019 | 4,552  | 2,072 | 0 | - | - | - | \$3,305 | \$29,124  | - | \$0      | 29,124    | 8.8  | - | Energy Source Audit, 2018         |
| Library               | High Efficiency Rooftop Units          | 2022 | 7,031  | 163   | 0 | - | - | - | \$1,462 | \$111,000 | - | \$0      | \$111,000 | 75.9 | - | Energy Source Audit, 2018         |
| Library               | Variable Frequency Drives/Motors       | 2022 | 25,578 | 0     | 0 | - | - | - | \$4,604 | \$19,500  | - | \$3,300  | \$16,200  | 3.5  | - | Energy Source Audit, 2018         |
| Public Safety Complex | Lighting Interior/Exterior             | 2019 | 56,311 | 0     | 0 | - | - | - | \$8,807 | \$64,554  | - | \$7,474  | \$57,080  | 6.5  | - | Prism Energy Services Audit, 2018 |
| Public Safety Complex | Pipe Insulation                        | 2019 | 0      | 28    | 0 | - | - | - | \$33    | \$2,538   | - | \$28     | \$2,510   | 76.6 | - | Prism Energy Services Audit, 2018 |
| Public Safety Complex | Energy Management System               | 2022 | 22,745 | 2,226 | 0 | - | - | - | \$6,765 | \$80,600  | - | \$18,000 | \$62,600  | 9.3  | - | Energy Source Audit, 2018         |
| Public Safety Complex | Condensing Boilers                     | 2022 | 0      | 1,816 | 0 | - | - | - | \$2,179 | \$111,683 | - | \$8,000  | \$103,863 | 47.6 | - | Energy Source Audit, 2018         |
| Public Safety Complex | Variable Frequency Drives/Motors       | 2022 | 2,209  | 0     | 0 | - | - | - | \$398   | \$5,915   | - | \$2,000  | \$3,915   | 9.8  | - | Energy Source Audit, 2018         |
| Public Safety Complex | Mechanical Insulation                  | 2019 | 0      | 320   | 0 | - | - | - | \$384   | \$4,689   | - | \$0      | \$4,689   | 12.2 | - | Energy Source Audit, 2018         |
| Public Safety Complex | Building Weatherization                | 2019 | 3,332  | 1,439 | 0 | - | - | - | \$2,327 | \$89,466  | - | \$0      | \$89,466  | 38.4 | - | Energy Source Audit, 2018         |
| Town Hall             | Lighting Exterior Only                 | 2019 | 7,540  | 0     | 0 | - | - | - | \$1,313 | \$16,235  | - | \$946    | \$15,289  | 11.6 | - | Prism Energy Services Audit, 2018 |
| Town Hall             | Energy Management System               | 2022 | 3,140  | 315   | 0 | - | - | - | \$943   | \$35,588  | - | \$6,000  | \$29,588  | 31.4 | - | Energy Source Audit, 2018         |
| Town Hall             | Building Weatherization                | 2019 | 7,227  | 2,499 | 0 | - | - | - | \$4,300 | \$195,607 | - | \$0      | \$195,607 | 45.5 | - | Energy Source Audit, 2018         |
| Banna Fire Station    | Lighting Interior/Exterior             | 2019 | 7,984  | 0     | 0 | - | - | - | \$1,433 | \$21,912  | - | \$4,100  | \$17,812  | 12.4 | - | Prism Energy Services Audit, 2018 |
| DPW                   | Wi-Fi Enabled Programmable Thermostats | 2022 | 0      | 1,129 | 0 | - | - | - | \$1,750 | \$8,462   | - | \$113    | \$8,349   | 4.8  | - | Prism Energy Services Audit, 2018 |
| DPW                   | Plug Load Controllers                  | 2022 | 1,320  | 0     | 0 | - | - | - | \$268   | \$1,692   | - | \$264    | \$1,428   | 5.3  | - | Prism Energy Services Audit, 2018 |
| DPW                   | Mechanical Insulation                  | 2020 | 0      | 280   | 0 | - | - | - | \$336   | \$9,896   | - | \$0      | \$9,896   | 29.5 | - | Energy Source Audit, 2018         |
| DPW                   | Building Weatherization                | 2020 | 1,381  | 628   | 0 | - | - | - | \$1,003 | \$9,002   | - | \$0      | \$9,002   | 9.0  | - | Energy Source Audit, 2018         |

|                    |                             |      |         |        |   |   |   |   |           |             |   |           |             |   |   |                                     |
|--------------------|-----------------------------|------|---------|--------|---|---|---|---|-----------|-------------|---|-----------|-------------|---|---|-------------------------------------|
| Streetlights       | Streetlight LED Replacement | 2018 | 129,448 | 0      | 0 | - | - | - | \$7,116   | -           | - | -         | -           | - | - | National Grid LED Streetlight Audit |
| Totals             |                             |      | 616,422 | 89,323 | 0 | 0 | 0 | 0 | \$200,606 | \$3,110,497 | - | \$230,266 | \$2,880,412 | - | - | -                                   |
| Total MMBTUs Saved |                             |      | 2,102   | 8,932  | 0 | 0 | 0 | 0 | -         | -           | - | -         | -           | - | - | -                                   |

## **C. Summary of Long-Term Energy Reduction Goals – Beyond 5 Years**

### **1. Municipal Buildings (including schools)**

To better strategize for the long-term maintenance and management of municipal buildings, Seekonk will work with internal schools and town staff as well as outside consultants, when necessary, to assess and document the condition of major municipal buildings on an annual basis. In addition to exposing continuing opportunities for energy use reductions, this effort will provide the Town with a clear, long-term asset management strategy for the effective budgeting and maintenance of buildings.

### **2. Vehicles (including schools)**

The Fuel-Efficient Vehicle policy will have become engrained within municipal purchasing practices after five years, and the Town will seek to explore even more efficient policies and tracking systems to enable more efficiency.

### **3. Perpetuating Energy Efficiency**

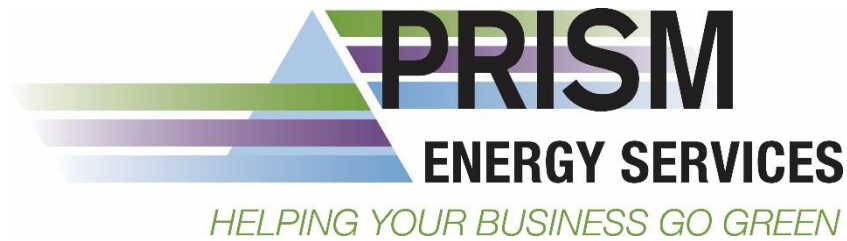
Ongoing dialogue with Town and School staff can tap into the knowledge of the employees who use and maintain the buildings every day. It can empower building staff to develop a detailed repair and management schedule and collect data on problems and inefficiencies that may be missed by traditional third party audits. The use of a web-based application system like See Click Fix creates additional real-time opportunities for efficiencies in operation and maintenance.

The Town of Seekonk will grow its capacity to retrofit and build more efficient facilities, purchase more efficient vehicles, and illuminate the Town through more efficient lighting throughout the 5-year period. These practices will become more engrained in the culture of the Town and will provide opportunities to instill the ethos into additional policies and programs for more dedicated long-term funding streams and strategies.



## **V: Appendices**

- Building Energy Audits – Prism Energy Services
- Building Energy Audits – Energy Source
- Streetlight Energy Documentation – National Grid
- SRPEDD Vehicle Calculations
- MMBTU Conversion Chart



# **ENERGY CONSERVATION**

## **MEASURES**

**Presented to**

**TOWN OF SEEKONK**

**For**

**DOER APPLICATION**

September 28, 2018

**Sites are broken down based on their electric accounts.**

#### **SITE 1:**

##### **DR. KEVIN M. HURLEY MIDDLE SCHOOL**

The Kevin M. Hurley Middle School is a two story 101,000 square-foot public middle school. Classes are held between 8:00 AM and 2:30 PM, though staff may arrive earlier. The facility was built in 1956 with an addition built in 1997.

The facility is heated by three (3) High Efficiency Smith 2,769 MBH steam boilers. The steam from the boilers serves the 1956 wing and in the remainder of the building, the steam passes through a heat exchanger located in the mechanical room, converting it to hot water. The boilers were installed approximately 20 years ago and have efficiencies around 80%.

Water is distributed to unit ventilators and fin-tube radiators throughout the building by four (4) ten horsepower circulator pumps. Pumps 1 and 2 are the primary pumps and serve the 1997 wing and 3 and 4 are the secondary pumps and serve the music wing. The pumps operate in a lead/lag scenario, meaning each pump alternates operation daily, one at a time, to distribute run hours evenly amongst the pumps/motors. All pump motors have variable frequency drives (VFDs) installed on them and modulate their speed based on return water temperature.

The classrooms on the perimeter of the building have unit ventilators while the interior spaces and stairwells have fin-tube radiators, all of which are controlled by pneumatic thermostats.

Cooling is provided by two RTUs which were installed with the addition in 1997. The Principal's office, Vice Principal's office, nurse's office, guidance, and computer lab are served by a 20-ton AAON unit, while the library, tech rooms and special education classrooms are also served by another 20-ton AAON unit. In addition to the cooling units are two (2) McQuay rooftop air handling units that serve the corridors throughout the school and several classrooms on the first floor are cooled by window AC units. The rest of the areas in the building are not cooled. We propose to replace the two existing AAON rooftop cooling only units with new energy efficient units due to the increasing cost and difficulty of finding replacement parts associated with repairing the older units.

Domestic hot water is produced by a Patterson-Kelley Thermific boiler installed in 1997 and Rheem 75-gallon standalone natural gas-fired hot water heater installed in 2007.

Building control is accomplished by a Johnson Controls Metasys half digital and half pneumatic air system to control the heating and cooling equipment and end devices throughout the building. The boiler plant is controlled by a combination of a Heat Timer multi-mod platinum controller and the Metasys system which controls the VFDs on the hot water pumps. The Metasys system also controls the AAON cooling units located on the roof. Individual room temperature control is served by pneumatic thermostats.

## **SITE 2:**

### **MILDRED H. AITKEN ELEMENTARY SCHOOL**

The Mildred H. Aitken Elementary School is a single story 52,000 square-foot public elementary school. Classes are held between 9:00 AM and 3:05 PM, though staff begin to arrive around 7:00 AM. The facility was built in 1970 with an addition built in 1997.

The facility is heated by two (2) gas-fired Smith cast iron sectional hot water boilers rated at 3,508 MBH each. The boilers operate together, regardless of the need for heating. The boilers also do not appear to modulate their temperature based on outdoor air temperature. These boilers were installed approximately 20 years ago and have efficiencies below 70%.

Water is distributed to unit ventilators and fin-tube radiators throughout the building by two (2) 10 horsepower circulator pumps. One pump operates at a time with the other serving as backup. These pumps have VFDs installed on them to modulate their speed based on demand. There are also five (5) ¾ HP Bell & Gossett circulator motors which serve specific zones throughout the building. We propose to replace these with new Grundfos motors which have integral VFDs to automatically modulate their speed based on return water temperature.

Approximately half of the classrooms have unit ventilators (12) while the other half have fin-tube radiators, all of which are controlled by pneumatic thermostats. We propose to replace the unit ventilator motors with energy efficient electrically commutated motors (ECM) that vary their speed to save energy.

Cooling is provided to the main office areas and library by two RTUs which were installed with the addition in 1997. The main office is served by a 6-ton AAON unit while the library is served by a 24-ton AAON unit. There is also a third McQuay rooftop unit which is an air handling unit that serves the corridors throughout the school as well as eight (8) classrooms and one teachers' room which are cooled with window AC units. The rest of the areas in the building are not cooled. We propose to replace the two existing AAON rooftop cooling only units with new energy efficient units due to the increasing cost and difficulty of finding replacement parts associated with repairing the older units.

Domestic hot water is produced by a newer 85-gallon standalone natural gas-fired hot water heater with a nameplate efficiency of 80%.

The building uses a Johnson Controls Metasys half digital and half pneumatic air system to control the heating and cooling equipment and end devices throughout the building. The boiler plant is controlled by a combination of a Heat Timer controller and the Metasys system. The Metasys system also controls the AAON cooling units located on the roof. Individual room temperature control is served by pneumatic thermostats.

### **SITE 3:**

#### **HUMAN SERVICES (SENIOR CENTER)**

The Seekonk Human Services (Senior Center) was built in 1974, and remodeled in 2015. It is a 9000 square-foot facility. The building schedule is Monday through Thursday 8:30 a.m. to 4:30 p.m. and Friday 8:30 a.m. to 12:30 p.m. There are also four (4) meeting rooms that are allowed to be used off hours including the weekends.

The Senior Center perimeter heat is provided by a natural gas-fired wall hung Lochinvar Knight Series boiler. The water is distributed by Grundfos circulation pumps with integral VFDs. The facility is heated supplementally by a Toshiba Carrier variable refrigerant flow (VRF) system with Greenheck heat recovery which is also used to cool the facility via condensing units located on the roof. The conditioned air generated by the VRF system is distributed throughout the building by 13 ceiling mounted cassettes. It also has one small decorative gas fireplace in the lobby area.

Domestic hot water for the building is provided by a natural gas-fired State Industries heat pump storage water heater with a 50-gal storage capability. The water is distributed by Grundfos circulation pumps with integral VFDs.

There are minimal controls throughout the facility. The boiler is controlled by a standalone Johnson Controls FX controller. The VRF system is controlled by 12 programmable thermostats throughout the facility. Each thermostat is associated with a single cassette with the exception of the large community room which has two cassettes. We propose to integrate these standalone controls to a new, town-wide BACnet system to allow for centralized viewing and control of HVAC operations.

Despite having been renovated recently, there are areas of the building envelope including around exhaust fans, skylights, windows, at the roof wall intersection, and in the soffit which are not sealed and allow air infiltration/exfiltration. These areas should be sealed to prevent heat loss in the winter and heat infiltration in the summer.

### **SITE 4:**

#### **PUBLIC LIBRARY**

The Seekonk Public Library was built in 1978. It is a 14,500 square-foot facility. Its hours to the public are Monday through Thursday from 9 a.m. to 8 p.m., Friday and Saturday from 9 a.m. to 5 p.m., and is closed on Sundays.

The library is heated and cooled by a natural gas-fired Trane roof top unit (RTU) installed in the early 1990's. The unit is at end of life and should be replaced.

Domestic hot water is supplied by a 30-gallon natural gas fired Bradford White domestic hot water heater.

The building has an antiquated energy management system with twelve (12) zones which controls the zone temperatures and setpoints only. The system should be replaced with an open protocol system and integrated with the new town-wide platform.

The interior lighting for the facility consists mainly of 2-ft and 4-ft linear fluorescent fixtures, both T8 and high output T5 with a single, less efficient T12 fixture in a storage room. There are a significant amount of 1x4 T8 fixtures in the library area that are tandem wired, meaning that two fixtures are powered by the same ballast. A small number of fixtures and screw-in lamps in the main entrance area and restrooms have been converted to high efficiency LEDs already. The exterior of the facility is lit entirely by very inefficient metal halide flood and pole mounted fixtures.

Due to the age of the building, there are areas of the building envelope including around exhaust fans, windows, and at the roof wall intersection which are not sealed and allow air infiltration/exfiltration. These areas should be sealed to prevent heat loss in the winter and heat infiltration in the summer.

We propose to replace all existing fluorescent lamps and ballasts either with new LED solid state fixtures or LED lamps and high efficiency ballasts. The areas in the library which are tandem wired will require a new feed to be run for each fixture to have its own power source. All exterior fixtures should be replaced with new LED floods.

If desired, a version of the interior proposal can be provided which uses predominately lamp and ballast as the proposed measure. Prism recommends going with new fixtures in order to standardize fixture types wherever possible.

#### **SITE 5:** **PUBLIC SAFETY COMPLEX**

The Seekonk Public Safety Complex Fire station side was built in 2005 while the Police station side was built in 2006. It is a 40,000 square-foot facility. Due to it being a police station, security is taken very seriously therefore having wiring outside the building for controls or having it be wireless is not possible.

The Complex is heated by one (1) Fulton gas fired pulse combustion boiler rated at 1,000 MBH input and 900 MBH output. The hot water is distributed by four (4) 1.5 hp circulating pumps which operate in a lead/lag sequence. Pumps 1 and 2 serve the air handling units and 3 and 4 serve the perimeter radiation. The fire department apparatus bay is heated by two (2) large infrared heaters while the sally ports and police vehicle bays are heated by two (2) medium and two (2) small sized infrared heaters. We propose to replace the single large standard efficiency boiler with two smaller condensing boilers to work in lead-lag configuration and for the second to serve as backup.

Ventilation is served by ten (10) air handling units (AHUs), four (4) of which are located in the police mechanical room and the remaining six (6) are located in the fire station mechanical room.

Cooling is supplied by the ten (10) AHU's with direct expansion (DX) coils which are connected to a total of ten (10) condensing units (CUs). Three (3) of which are on the side of the building and seven (7) in the back of the building. Each number referenced on the AHU is connected to the matching CU (ex. AHU-4 is connected to CU-4 and goes to Lock Up). The complex also uses the one (1) ductless split unit for cooling the closet with the uninterrupted power supply (UPS) located in the sally port.

Domestic hot water is served by a Raypak Raytherm 264 MBH natural gas-fired boiler and a Rheem RUUD 115-gallon domestic hot water tank.

The boiler circulating pumps are controlled with a Tekmar pump sequencer. AHU-10, which serves the locker rooms, has a Schneider Electric local controller on it with temperature, humidity, scheduling, and demand control ventilation control capabilities. The rest of the complex uses a mixture of programable and T-87 round non-programmable thermostats to control the temperature. We propose to install a new energy management system to control the air handling units and boilers which would be integrated into the town-wide platform.

Even though the building is fairly new, there are areas of the building envelope including around exhaust fans, windows, at the roof wall intersection, and in the roof soffit which are not sealed and allow air infiltration/exfiltration. These areas should be sealed to prevent heat loss in the winter and heat infiltration in the summer. Additionally, the insulation on the air handling unit pipes is in poor condition and should be replaced.

The lighting at the public safety complex is a mixture of 4-ft and 8-ft linear fluorescent T8 and T12 lamps and ballasts, compact fluorescent cans, and a relatively small number of fixtures that have been converted to either LED T8 direct wire lamps or new LED fixtures. All screw in lamps (aside from compact fluorescent cans) have been converted to LED. The exterior of the facility is primarily inefficient metal halide wall packs, canopies, and pole lights, though about 25% of the fixtures have been converted to LED.

We propose to replace all of the interior fluorescent lamps with new LED T8 tubes and high efficiency ballasts where run hours allow with the exception of the 8-ft vapor tight fixtures in the sally port and apparatus bays where new solid-state LED retrofit kits will be installed. The exterior wall packs and pole lights should be converted to new LED fixtures of the same type as existing. Canopies and decorative fixtures will receive new direct wire LED lamps to replace the existing metal halides to be more cost effective.

#### **SITE 6:**

##### **TOWN HALL**

Seekonk's Town Hall was built in 1976, with an addition in 1990. It is an 11,000 square-foot facility. The hours of operation are Monday, Tuesday and Thursday 8:30 am - 4:30 pm, Wednesday 8:30 am - 7 pm and Friday 8:30 am - 12 pm.

The facility is heated by eight (8) Lennox Elite Series heat pumps, six (6) of which are in the attic and two (2) in the basement. The six (6) heat pumps in the attic are used for heating and cooling with evaporator coils.

Each has a dedicated condensing unit for cooling. The two (2) units in the basement are heating only. The server room has one (1) Sanyo ductless split air conditioning unit to keep the data racks cool.

There is a total of seven (7) programmable Honeywell thermostats located throughout the building. The hours set on the thermostat for this facility are as follows in the table below:

|                   | Occupied Start | Unoccupied Start | Heating           |                     | Cooling           |                     |
|-------------------|----------------|------------------|-------------------|---------------------|-------------------|---------------------|
|                   |                |                  | Occupied Setpoint | Unoccupied Setpoint | Occupied Setpoint | Unoccupied Setpoint |
| Monday - Friday   | 7:00 AM        | 6:00 PM          | 74                | 82                  | 72                | 70                  |
| Saturday - Sunday | 8:00 AM        | 8:00 PM          | 74                | 82                  | 74                | 60                  |

We propose to install a new energy management system to be integrated with the town-wide platform to better control the HVAC systems of the facility.

Due to the age of the building, there are areas of the building envelope which are no longer sealed and allow air infiltration/exfiltration. We propose to seal these areas to prevent heat loss. Additionally, we propose to insulate the attic space.

The interior lighting of the fire station is mostly linear fluorescent, 4-ft T8 fixtures with a very small amount of incandescent and compact fluorescent screw-in lamps as well. In addition to these, about a third of the facility has been converted to LED troffers, screw-in lamps, and new LED T8 tubes with high efficiency ballasts. The exterior has been converted to LED.

We propose to replace the remaining fluorescent lamps and ballasts with new LED T8 lamps and high efficiency ballasts and convert the single incandescent lamp to LED.

#### **SITE 7:**

##### **BANNA FIRE STATION**

The Banna Fire Station is a 2,800 square-foot fire station that was built in 2014.

The building is heated by two (2) by two Navien wall-hung condensing boilers rated at 84 MBH as well as three (3) AquaTherm heat pumps in the attic. The boilers serve the domestic hot water needs, perimeter radiation, and the two (2) Renzor fan coil units in the apparatus bay.

The building is cooled by the three (3) heat pumps in the attic and an additional two (2) Mitsubishi ductless splits. The heat pumps utilize three (3) condensing units in the back of the building, serving various rooms.

The building temperature settings are controlled by multiple programmable Honeywell thermostats throughout the building.



The lighting is predominately a mixture of fluorescent technologies ranging from linear 2-ft and 4-ft T5 and T8 tubes to compact fluorescent recessed cans with minimal LED screw-in lamps in the men's and women's restrooms. The exterior consists mainly of very inefficient metal halide wall packs throughout with compact fluorescent cans at the entrances. While the interior is somewhat efficient, LED lamps and ballasts, new LED wraps in stairwells, new LED high bays in the apparatus bay, and solid-state LED cans should be installed to further reduce energy consumption. On the exterior, new LED wall packs with daylight sensors and LED cans should be installed.

#### **SITE 8:**

##### **DEPARTMENT OF PUBLIC WORKS**

The Department of Public Works (DPW) is a 7,000 square foot building that was built in 1975. The hours of operation are Monday-Friday 8:00 am – 4:00 pm.

The DPW building has a solar array which covers the majority of the electric usage of the facility.

The building is heated by a natural-gas fired Rinnai condensing boiler. The boiler serves three zones, the office, break room, and sign room. The vehicle bays are heated by four (4) gas-fired infrared heaters, two (2) of which are connected together and are in one bay, with the other two on separate sides of the opposite bay. The offices and break room are also cooled by four (4) older window AC units.

We propose to replace the existing thermostats with Wi-Fi enabled programmable thermostats that will allow scheduling and temperature setbacks for heating and install a plug load controller for the window AC units to schedule them to shut off on nights and weekends when the spaces are not occupied

#### **SITE 9:**

##### **GEORGE R. MARTIN ELEMENTARY SCHOOL**

The George R. Martin Elementary School is a single story 71,000 square-foot public elementary school. Classes are held between 9:00 AM and 3:05 PM. The facility was built in 1966 with an addition built in 2002.

No measures are recommended for this building.

#### **SITE 10:**

##### **HIGH SCHOOL**

The Seekonk High School is a two story 171,000 square-foot public high school. Classes are held between 7:25 AM and 1:50 PM. The facility was built in 1965 with an addition built in 2002.

No measures are recommended for this facility.

#### **SITE 11:**

##### **ANIMAL SHELTER**

Per Bruce Alexander, the Animal Shelter is being torn down and a new facility is being built. No recommendations for this location have been made.

**SITE 12:**

**FRANCIS W. GALLISHAW SCHOOL**

Per Bruce Alexander, the Francis W. Gallishaw Elementary School is rented to the South Coast Educational Collaborative and the town does not pay the energy bills. No recommendations have been made for this school.

**SITE 13:**

**NORTH ELEMENTARY SCHOOL**

Per Bruce Alexander, the North Elementary School is rented to the South Coast Educational Collaborative and the town does not pay the energy bills. No recommendations have been made for this school.

**SITE 14:**

**SCHOOL ADMINISTRATION BUILDING**

Per Bruce Alexander, this location is unoccupied and the only electrical draw is for the alarm system. No recommendations have been made for this facility.

## **SCOPE OF WORK:**

### **SITE 1:**

#### **DR. KEVIN M. HURLEY MIDDLE SCHOOL**

##### **Rooftop Unit Replacement**

Scope of work to include:

- Remove and properly dispose of two (2) cooling only AAON RTUs, model RH-20-2-EO-750
- Supply and install two (2) Daikin RTUs or equivalents

### **SITE 2:**

#### **MILDRED H. AITKEN ELEMENTARY SCHOOL**

##### **Zone Circulator Motor Replacement**

Scope of work to include:

- Remove and dispose of five (5) ITT Bell & Gossett zone circulating pump motors
- Provide and install five (5) Grundfos ECM motors with integral VFDs

##### **EC Motors on Univents**

Scope of work includes:

- Remove and dispose of standard motors in univents, qty 12
- Provide and install 12 new EC motors in unit ventilators

##### **Rooftop Unit Replacement**

Scope of work to include:

- Remove and properly dispose of two (2) cooling only AAON RTUs, model RH-20-2-EO-750
- Supply and install two (2) Daikin RTUs or equivalents

### **SITE 3:**

#### **HUMAN SERVICES (SENIOR CENTER)**

##### **Energy Management System**

Scope of work to include:

- Supply and install building automation controls to existing system consisting of:
  - A new WebView Graphical User interface
  - New DDC controls for mechanical systems including:
    - One (1) Lochinvar B-1 hanging boiler currently controlled by a standalone JCI FX controller
    - Two (2) Toshiba Carrier condensing units and the 13 associated indoor cassettes
  - Remove 13 Toshiba Carrier programmable thermostats, model RBC-AMS54E-UL and replace with DDC temperature sensors
  - Ability to view setpoints and controls via new town-wide system through a web-based graphical user interface

**Not included in scope of work:** Toshiba Gateway modification to provide the BACnet variables.

### **Weatherization**

Air sealing scope of work to include the following:

- Exhaust fan air-sealing
  - 3 exhaust fans, total 15 LF
- Skylights air-sealing
  - 10 skylights, total 100 LF
- Windows air-sealing
  - total 900 LF
- Roof-wall Joints air-sealing
  - 1-line at <14' working height, total 400 LF
- Soffit air-sealing
  - 400 LF to match roof-wall (need to verify)

### **SITE 4: PUBLIC LIBRARY**

### **Rooftop Unit (RTU) Replacement**

Scope of work to include the following:

- Remove, demo, and properly dispose of existing Trane RTU
- Provide and install a new rooftop unit with integrated controls (Trane or Daikin)

### **Energy Management System**

Scope of work includes:

- Remove existing energy management system
- Supply and install new building automation controls with a new WebView Graphical User interface
- New DDC controls for mechanical systems
- Provide integration of the factory provided DDC controls of the newly installed RTU, based on Trane Intellipak unit with BACnet communication option. Controls to include:
  - Start/Stop
  - Space Temperature
  - Discharge temperature

### **Weatherization**

Air sealing scope of work to include the following:

- Exhaust fan air-sealing
  - 3 exhaust fans, total 15 LF
- Windows air-sealing
  - total 1,450 LF
- Roof-Wall Joint air-sealing
  - 1-line at <14' working height, total 500 LF

### **Lighting and Controls**

Please see the table below for a detailed location by location listing of proposed measures.



| LINE | ROOM                                 | HT | EXISTING  |                | PROPOSED                                       |                | CONTROLS |     |
|------|--------------------------------------|----|---|----------------|--|----------------|----------|-----|
|      |                                      |    | DESCRIPTION<br>LAMPS/BALLAST                                      | FIXTURE<br>QTY | DESCRIPTION<br>LAMPS/BALLAST                   | FIXTURE<br>QTY | TYPE     | QTY |
| 1    | INTERIOR                             |    |   |                |  |                |          |     |
| 2    | FICTION STACKS                       | 8' | 1L4' 28W T8EE/ELEE 4' Narrow Surface Mount Wrap, 5000K            | 7              | 1L4' 12W LED T8/LP L&B, 5000K                  | 7              |          |     |
| 3    | FICTION STACKS                       | 8' | 2L4' 28W T8/LP 1X4 Parabolic Recessed Troffer, 5000K Tandem Wired | 18             | 16W LED 1X4 Flat Panel Recessed Troffer, 5000K | 36             |          |     |
| 4    | BETWEEN FICTION & NON-FICTION STACKS | 8' | 2L4' 28W T8/HP 2X4 Volumetric Recessed Troffer, 5000K             | 9              | 24W LED 2X4 Flat Panel Recessed Troffer, 5000K | 9              |          |     |
| 5    | BETWEEN FICTION & NON-FICTION STACKS | 8' | 2L2' 24W T5HO/ELIG 2X2 Volumetric Recessed Troffer, 3000K         | 6              | 24W LED 2X2 Flat Panel Recessed Troffer, 5000K | 6              |          |     |
| 6    | NON-FICTION STACKS                   | 8' | 1L4' 28W T8EE/ELEE 4' Narrow Surface Mount Wrap, 5000K            | 7              | 1L4' 12W LED T8/LP L&B, 5000K                  | 7              |          |     |
| 7    | NON-FICTION STACKS                   | 8' | 2L4' 28W T8/LP 1X4 Parabolic Recessed Troffer, 5000K Tandem Wired | 18             | 16W LED 1X4 Flat Panel Recessed Troffer, 5000K | 36             |          |     |
| 8    | REAR TABLE AREA                      | 8' | 2L4' 28W T8/HP 2X4 Volumetric Recessed Troffer, 5000K             | 9              | 24W LED 2X4 Flat Panel Recessed Troffer, 5000K | 9              |          |     |
| 9    | INNOVATION CENTER                    | 8' | 2L4' 28W T8/LP 1X4 Parabolic Recessed Troffer, 5000K Tandem Wired | 7              | 16W LED 1X4 Flat Panel Recessed Troffer, 5000K | 14             |          |     |
| 10   | INNOVATION CENTER                    | 8' | 1L4' 28W T8/LP 1X4 Parabolic Recessed Troffer, 5000K              | 1              | 16W LED 1X4 Flat Panel Recessed Troffer, 5000K | 1              |          |     |
| 11   | INNOVATION CENTER (OUTSIDE DIVIDER)  | 8' | 2L4' 28W T8/LP 1X4 Parabolic Recessed Troffer, 5000K              | 2              | 16W LED 1X4 Flat Panel Recessed Troffer, 5000K | 2              |          |     |
| 12   | MOVIES & AUDIO BOOKS                 | 8' | 4L4' 28W T8EE/ELEE 8' Cable Mount Direct/Indirect, 5000K          | 12             | 4L4' 12W LED T8/LP L&B, 5000K                  | 12             |          |     |
| 13   | MOVIES & AUDIO BOOKS                 | 8' | 2L4' 28W T8EE/ELEE 4' Cable Mount Direct/Indirect, 5000K          | 4              | 2L4' 12W LED T8/LP L&B, 5000K                  | 4              |          |     |
| 14   | CENTER AISLE/"ASK" DESK              | 8' | 4L4' 28W T8EE/ELEE 8' Cable Mount Direct/Indirect, 5000K          | 13             | 4L4' 12W LED T8/LP L&B, 5000K                  | 13             |          |     |
| 15   | CENTER AISLE/"ASK" DESK              | 8' | 2L4' 28W T8EE/ELEE 4' Cable Mount Direct/Indirect, 5000K          | 2              | 2L4' 12W LED T8/LP L&B, 5000K                  | 2              |          |     |
| 16   | FRONT DESK                           | 8' | 4L4' 28W T8EE/ELEE 8' Cable Mount Direct/Indirect, 5000K          | 1              | 4L4' 12W LED T8/LP L&B, 5000K                  | 1              |          |     |
| 17   | FRONT DESK                           | 8' | 2L4' 28W T8EE/ELEE 4' Cable Mount Direct/Indirect, 5000K          | 1              | 2L4' 12W LED T8/LP L&B, 5000K                  | 1              |          |     |
| 18   | NEW BOOKS/HOLDS/LARGE PRINT          | 7' | 4L4' 28W T8EE/ELEE 8' Cable Mount Direct/Indirect, 5000K          | 8              | 4L4' 12W LED T8/LP L&B, 5000K                  | 8              |          |     |

|    |                                 |    |   |    |   |    |                   |   |
|----|---------------------------------|----|---|----|---|----|-------------------|---|
| 19 | NEW BOOKS/<br>HOLDS/LARGE PRINT | 7' | 2L4' 28W T8EE/ELEE 4' Cable Mount<br>Direct/Indirect, 5000K     | 2  | 2L4' 12W LED T8/LP L&B, 5000K                     | 2  |                   |   |
| 20 | CHILDRENS ROOM                  | 8' | 4L4' 28W T8EE/ELEE 8' Cable Mount<br>Direct/Indirect, 5000K     | 15 | 4L4' 12W LED T8/LP L&B, 5000K                     | 15 |                   |   |
| 21 | RETURNS                         | 8' | 4L4' 28W T8EE/ELEE 8' Cable Mount<br>Direct/Indirect, 5000K     | 2  | 4L4' 12W LED T8/LP L&B, 5000K                     | 2  |                   |   |
| 22 | RETURNS                         | 8' | 2L4' 28W T8EE/ELEE 4' Cable Mount<br>Direct/Indirect, 5000K     | 2  | 2L4' 12W LED T8/LP L&B, 5000K                     | 2  |                   |   |
| 23 | STAFF OFFICE                    | 8' | 2L4' 28W T8/HP 2X4 Volumetric Recessed<br>Troffer, 5000K        | 2  | 24W LED 2X4 Flat Panel Recessed<br>Troffer, 5000K | 2  |                   |   |
| 24 | STAFF OFFICE                    | 8' | 2L4' 28W T8/HP 2X4 Volumetric Recessed<br>Troffer, 5000K        | 2  | 24W LED 2X4 Flat Panel Recessed<br>Troffer, 5000K | 2  |                   |   |
| 25 | STAFF OFFICE                    | 8' | 1L4' 28W T8/HP 2X4 Volumetric Recessed<br>Troffer, 5000K        | 2  | 24W LED 2X4 Flat Panel Recessed<br>Troffer, 5000K | 2  |                   |   |
| 26 | PARKING LOT<br>EXIT/STORAGE     | 8' | 4L4' 28W T8EE/ELEE 2X4 Prismatic<br>Recessed Troffer, 5000K     | 1  | 28W LED 2X4 Flat Panel Recessed<br>Troffer, 5000K | 1  |                   |   |
| 27 | SERVER ROOM                     | 8' | 2L2' 24W T5HO/ELIG 2X2 Volumetric<br>Recessed Troffer, 3000K    | 3  | 24W LED 2X2 Flat Panel Recessed<br>Troffer, 5000K | 3  | Ceiling<br>Sensor | 1 |
| 28 | ELECTRICAL ROOM                 | 9' | 4L4' 28W T8EE/ELEE 8' Turret Surface<br>Mount Industrial, 5000K | 2  | 4L4' 12W LED T8/LP L&B, 5000K                     | 2  |                   |   |
| 29 | OFFICE HALL/COPY<br>MACHINE     | 8' | 2L4' 28W T8/HP 2X4 Volumetric Recessed<br>Troffer, 5000K        | 1  | 24W LED 2X4 Flat Panel Recessed<br>Troffer, 5000K | 1  |                   |   |
| 30 | STAFF RESTROOM                  | 8' | 2L4' 28W T8EE/ELEE 4' Standard In Cove<br>Strip, 5000K          | 1  | 2L4' 12W LED T8/LP L&B, 5000K                     | 1  |                   |   |
| 31 | STAFF LOUNGE                    | 8' | 2L2' 24W T5HO/ELIG 2X2 Volumetric<br>Recessed Troffer, 3000K    | 5  | 24W LED 2X2 Flat Panel Recessed<br>Troffer, 5000K | 5  | Ceiling<br>Sensor | 1 |
| 32 | CONFERENCE ROOM                 | 7' | 4L4' 28W T8EE/ELEE 8' Cable Mount<br>Direct/Indirect, 5000K     | 2  | 4L4' 12W LED T8/LP L&B, 5000K                     | 2  |                   |   |
| 33 | CONFERENCE ROOM                 | 7' | 2L4' 28W T8EE/ELEE 4' Cable Mount<br>Direct/Indirect, 5000K     | 2  | 2L4' 12W LED T8/LP L&B, 5000K                     | 2  |                   |   |
| 34 | CONFERENCE ROOM<br>STORAGE      | 8' | 2L4' 28W T8/HP 2X4 Volumetric Recessed<br>Troffer, 5000K        | 2  | 24W LED 2X4 Flat Panel Recessed<br>Troffer, 5000K | 2  |                   |   |
| 35 | DIRECTOR'S OFFICE               | 8' | 2L2' 24W T5HO/ELIG 2X2 Volumetric<br>Recessed Troffer, 3000K    | 4  | 24W LED 2X2 Flat Panel Recessed<br>Troffer, 5000K | 4  | Ceiling<br>Sensor | 1 |
| 36 | OFFICE                          | 8' | 2L2' 24W T5HO/ELIG 2X2 Volumetric<br>Recessed Troffer, 3000K    | 2  | 24W LED 2X2 Flat Panel Recessed<br>Troffer, 5000K | 2  | Ceiling<br>Sensor | 1 |
| 37 | MAIN ENTRANCE CANS              | 8' | 8W LED BR30 Screw-In Lamp, 5000K                                | 13 | No Change - Already EE                            | 13 |                   |   |
| 38 | MAIN ENTRANCE TRACK             | 8' | MR16, GU5.3 Screw-In Lamp, 5000K                                | 3  | No Change - Already EE                            | 3  |                   |   |

|        |   |     |   |     |  |     |  |   |
|--------|---|-----|---|-----|--|-----|--|---|
| 39     | MAIN ENTRANCE DISPLAY CASE              | 5'  | 4' Narrow Surface Mount Strip,                            | 1   | No Change - Already EE                         | 1   |  |   |
| 40     | MAIN ENTRANCE WALL MNT FIXTURES         | 7'  | 2L4' 54W T5/HO 4' 50/50 Wall Mount Direct/Indirect, 3000K | 3   | 2L4' 25W LED T5/HO L&B, 5000K                  | 3   |  |   |
| 41     | MAIN ENTRANCE WALL MNT FIXTURES         | 7'  | 2L4' 54W T5/HO 4' 50/50 Wall Mount Direct/Indirect, 3000K | 4   | 2L4' 25W LED T5/HO L&B, 5000K                  | 4   |  |   |
| 42     | MENS RESTROOM                           | 8'  | 8W LED BR30 Screw-In Lamp, 5000K                          | 1   | No Change - Already EE                         | 1   |  |   |
| 43     | MENS RESTROOM                           | 8'  | MR16, GU5.3 Screw-In Lamp, 5000K                          | 5   | No Change - Already EE                         | 5   |  |   |
| 44     | MENS RESTROOM                           | 8'  | 1L4' 28W T8EE/ELEE 4' Wall Mount Vanity, 5000K            | 1   | 1L4' 12W LED T8/LP L&B, 5000K                  | 1   |  |   |
| 45     | MENS RESTROOM                           | 8'  | 2L4' 28W T8EE/ELEE 8' Wall Mount Vanity, 5000K            | 1   | 2L4' 12W LED T8/LP L&B, 5000K                  | 1   |  |   |
| 46     | WOMENS RESTROOM                         | 8'  | 8W LED BR30 Screw-In Lamp, 5000K                          | 1   | No Change - Already EE                         | 1   |  |   |
| 47     | WOMENS RESTROOM                         | 8'  | MR16, GU5.3 Screw-In Lamp, 5000K                          | 5   | No Change - Already EE                         | 5   |  |   |
| 48     | WOMENS RESTROOM                         | 8'  | 1L4' 28W T8EE/ELEE 4' Wall Mount Vanity, 5000K            | 1   | 1L4' 12W LED T8/LP L&B, 5000K                  | 1   |  |   |
| 49     | WOMENS RESTROOM                         | 8'  | 2L4' 28W T8EE/ELEE 8' Wall Mount Vanity, 5000K            | 1   | 2L4' 12W LED T8/LP L&B, 5000K                  | 1   |  |   |
| 50     | MEETING ROOM                            | 9'  | 2L2' 24W T5HO/ELIG 2X2 Volumetric Recessed Troffer, 3000K | 16  | 24W LED 2X2 Flat Panel Recessed Troffer, 5000K | 16  |  |   |
| 51     | STORAGE ROOM                            | 8'  | 4L4' EE/EEMAG 2X4 Prismatic Recessed Troffer, 4000K       | 1   | 4L4' 12W LED T8/LP L&B, 5000K                  | 1   |  |   |
| 52     | KITCHEN/SPRINKLER ROOM                  | 8'  | 4L4' 28W T8EE/ELEE 2X4 Prismatic Recessed Troffer, 5000K  | 1   | 4L4' 12W LED T8/LP L&B, 5000K                  | 1   |  |   |
| 53     | EXTERIOR                                |     |   |     |  |     |  |   |
| 54     | ROOF TENON MNT FLOODS                   | 20' | 400W MH Wide Adjustable Arm Flood,                        | 2   | 154W LED Wide Adjustable Arm Flood, 5000K      | 2   |  |   |
| 55     | STREETSIDE DUAL HEAD TENON MNT BZ POLE  | 25' | 400W MH Wide Adjustable Arm Flood,                        | 2   | 154W LED Wide Adjustable Arm Flood, 5000K      | 2   |  |   |
| 56     | PARKING LOT DUAL HEAD TENON MNT BZ POLE | 25' | 400W MH Wide Adjustable Arm Flood,                        | 2   | 154W LED Wide Adjustable Arm Flood, 5000K      | 2   |  |   |
| TOTALS |   |     |   | 241 | TOTALS   | 284 |  | 4 |



**SITE 5:**  
**PUBLIC SAFETY COMPLEX**

**Boiler Replacement**

Scope of work includes the following:

- Remove and properly dispose of existing Fulton boiler
- Provide and install two (2) new Viessmann boilers with a BACnet controller to run as lead/lag and the second boiler will be a back-up if one fails

**Energy Management System**

Scope of work includes the following:

Provide and install a new open protocol DDC energy management system to control ten (10) AAON HVAC units, two (2) boilers, and four (4) hot water circulator pumps and integrate with the new town-wide system.

System controls to include:

- AAON HVAC Units
  - Start/Stop/Schedule
  - Space Temperature – new DDC sensors will be installed in place of existing thermostats
  - Economizer control for four units
  - Demand Control Ventilation (DCV) for one unit
  - OA Damper
- Boilers and associated pumps
  - Start/Stop
  - OA Temperature control
  - Return temperature
  - Pump lead/lag

**Weatherization and Pipe Insulation**

Air sealing and insulation scope of work to include the following:

- Exhaust fan air-sealing
  - 24 small exhaust fans, total 120 LF
  - 8 medium exhaust fans, total 60 LF
  - 6 large exhaust fans, total 72 LF
- Windows air-sealing
  - total 4,000 LF
- Roof-wall Joint air-sealing
  - 1-line at <14' working height, total 750 LF
- Soffit air-sealing
  - 750 LF to match roof-wall (to be verified)
- Pipe re-insulation
  - Replace air handler unit pipe insulation (3" diameter), total 12 LF

## Lighting and Controls

Please see the table below for a detailed location by location list of lighting retrofits

| LINE | ROOM                                | HT | EXISTING   |                | PROPOSED  |                | CONTROLS |     |
|------|-------------------------------------|----|--|----------------|---|----------------|----------|-----|
|      |                                     |    | DESCRIPTION<br>LAMPS/BALLAST   | FIXTURE<br>QTY | DESCRIPTION<br>LAMPS/BALLAST  | FIXTURE<br>QTY | TYPE     | QTY |
| 1    | POLICE - SECOND FLOOR               |    |  |                |   |                |          |     |
| 2    | CLOSET                              | 8' | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K                                 | 1              | 3L4' 12W LED T8/LP L&B, 4000K   | 1              |          |     |
| 3    | RESTROOM                            | 8' | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K                                 | 1              | 3L4' 12W LED T8/LP L&B, 4000K   | 1              |          |     |
| 4    | 225 LIEUTENANT'S                    | 8' | 3L4' T8/ELIG 2X4 Parabolic Recessed Troffer, 4000K Double Switched                 | 4              | 3L4' 12W LED T8/LP L&B, 4000K Double Switched                               | 4              |          |     |
| 5    | 226 CHIEF OF POLICE                 | 8' | 3L4' 31W T8/NP 1 5/8" 2X2 Parabolic U-Lamp Recessed Troffer, 4000K Double Switched | 6              | 3L2' 8W LED T8/LP 2X2 Parabolic Troffer Retrofit Kit, 4000K Double Switched | 6              |          |     |
| 6    | 227 CAPTAIN                         | 8' | 3L4' T8/ELIG 2X4 Parabolic Recessed Troffer, 4000K Double Switched                 | 3              | 3L4' 12W LED T8/LP L&B, 4000K Double Switched                               | 3              |          |     |
| 7    | 233 SECRETARY                       | 8' | 3L4' 18W LED T8 Direct Wire 2X4 Parabolic Recessed Troffer, 5000K Double Switched  | 2              | No Change - Already EE  | 2              |          |     |
| 8    | 234 CONFERENCE ROOM                 | 8' | 3L4' T8/ELIG 2X4 Parabolic Recessed Troffer, 4000K Double Switched                 | 3              | 3L4' 12W LED T8/LP L&B, 4000K Double Switched                               | 3              |          |     |
| 9    | JANITOR'S CLOSET                    | 8' | 2L4' T8/ELIG 2X2 Prismatic U-Lamp Recessed Troffer, 4000K                          | 1              | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K  | 1              |          |     |
| 10   | 240 MALE LOCKER ROOM TOILETS        | 8' | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K                                 | 2              | 3L4' 12W LED T8/LP L&B, 4000K   | 2              |          |     |
| 11   | 240 MALE LOCKER ROOM SHOWERS        | 8' | 2/18W CFL 6" I.D. 8" O.D. Recessed Can, 4000K                                      | 4              | 10W LED 6" I.D. 8" O.D. Recessed Can,                                       | 4              |          |     |
| 12   | 240 MALE LOCKER ROOM                | 8' | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K                                 | 7              | 3L4' 12W LED T8/LP L&B, 4000K   | 7              |          |     |
| 13   | MECHANICAL ROOM IN MALE LOCKER ROOM | 8' | Could Not Access - Locked  | 0              | No Change - Low Hours   |                |          |     |
| 14   | 235 FEMALE LOCKER ROOM              | 8' | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K                                 | 4              | 3L4' 12W LED T8/LP L&B, 4000K   | 4              |          |     |
| 15   | 235 FEMALE LOCKER ROOM SINK         | 7' | 2L4' T8/ELIG 4' Wall Mount Vanity, 4000K   | 1              | 2L4' 12W LED T8/LP L&B, 4000K   | 1              |          |     |
| 16   | 235 FEMALE LOCKER ROOM SHOWER       | 8' | 2/18W CFL 6" I.D. 8" O.D. Recessed Can, 4000K                                      | 2              | 10W LED 6" I.D. 8" O.D. Recessed Can,                                       | 2              |          |     |

|    |  |    |  |    |  |                                      |    |  |  |
|----|--|----|--|----|--|--------------------------------------|----|--|--|
| 17 | LOCKER ROOM HALLWAY                          | 8' | 2L4' T8/ELIG 2X2 Prismatic U-Lamp<br>Recessed Troffer, 4000K         | 1  |  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K | 1  |  |  |
| 18 | LOCKER ROOM HALLWAY -<br>NIGHT LIGHT         | 8' | 2L4' T8/ELIG 2X2 Prismatic U-Lamp<br>Recessed Troffer, 4000K         | 1  |  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K | 1  |  |  |
| 19 | OFFICE HALLWAY                               | 8' | 2L4' T8/ELIG 2X2 Prismatic U-Lamp<br>Recessed Troffer, 4000K         | 3  |  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K | 3  |  |  |
| 20 | OFFICE HALLWAY - NIGHT<br>LIGHT              | 8' | 2L4' T8/ELIG 2X2 Prismatic U-Lamp<br>Recessed Troffer, 4000K         | 3  |  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K | 3  |  |  |
| 21 | OPEN KITCHEN                                 | 8' | 2L4' T8/ELIG 2X2 Parabolic U-Lamp<br>Recessed Troffer, 4000K         | 2  |  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K | 2  |  |  |
| 22 | POLICE - FIRST FLOOR                         |    |  |    |  |                                      |    |  |  |
| 23 | POLICE STAIRWELL                             | 8' | 2L4' 18W LED T8 Direct Wire 4' Standard<br>Surface Mount Wrap, 5000K | 1  |  | No Change - Already EE               | 1  |  |  |
| 24 | POLICE STAIRWELL                             | 8' | 2L4' T8/ELIG 4' Standard Surface Mount<br>Wrap, 4000K                | 2  |  | 2L4' 12W LED T8/LP L&B, 5000K        | 2  |  |  |
| 25 | POLICE STAIRWELL                             | 7' | 2L4' T8/ELIG 4' Standard Wall Mount<br>Wrap, 4000K                   | 3  |  | 2L4' 12W LED T8/LP L&B, 5000K        | 3  |  |  |
| 26 | 150 RELEASE & WAITING<br>AREA (FILE STORAGE) | 8' | 2L4' T8/ELIG 2X2 Prismatic U-Lamp<br>Recessed Troffer, 4000K         | 2  |  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K | 2  |  |  |
| 27 | BOOKING/CELLS                                | 8' | 2L4' T8/ELIG 2X2 Prismatic U-Lamp<br>Recessed Troffer, 4000K         | 11 |  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K | 11 |  |  |
| 28 | BOOKING/CELLS - NIGHT<br>LIGHT               | 8' | 2L4' T8/ELIG 2X2 Prismatic U-Lamp<br>Recessed Troffer, 4000K         | 3  |  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K | 3  |  |  |
| 29 | FEMALE CELL 1                                | 8' | LED Wall Mount Wallpack,   | 1  |  | No Change - Already EE               | 1  |  |  |
| 30 | JUVENILE CELL 2                              | 8' | LED Wall Mount Wallpack,   | 1  |  | No Change - Already EE               | 1  |  |  |
| 31 | FEMALE CELL 3                                | 8' | LED Wall Mount Wallpack,   | 1  |  | No Change - Already EE               | 1  |  |  |
| 32 | 155 SHERIFF'S OFFICE                         | 8' | 2L4' 18W LED T8 Direct Wire 4' Standard<br>Surface Mount Wrap, 5000K | 1  |  | No Change - Already EE               | 1  |  |  |
| 33 | MALE CELL 4                                  | 8' | LED Wall Mount Wallpack,   | 1  |  | No Change - Already EE               | 1  |  |  |
| 34 | MALE CELL 5                                  | 8' | 32W CFL ELIG Wall Mount Wallpack,                                    | 1  |  | No Change - Low Hours                | 1  |  |  |
| 35 | MALE CELL 6                                  | 8' | 32W CFL ELIG Wall Mount Wallpack,                                    | 1  |  | No Change - Low Hours                | 1  |  |  |
| 36 | MALE CELL 7                                  | 8' | 32W CFL ELIG Wall Mount Wallpack,                                    | 1  |  | No Change - Low Hours                | 1  |  |  |
| 37 | MALE CELL 8                                  | 8' | 32W CFL ELIG Wall Mount Wallpack,                                    | 1  |  | No Change - Low Hours                | 1  |  |  |

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|----|--|-----|--|----|---|----|--|--|
| 38 | MALE CELL 9  | 8'  | 32W CFL ELIG Wall Mount Wallpack,  | 1  | No Change - Low Hours   | 1  |  |  |
| 39 | MALE CELL 10   | 8'  | 32W CFL ELIG Wall Mount Wallpack,  | 1  | No Change - Low Hours   | 1  |  |  |
| 40 | MALE CELL 11   | 8'  | LED Wall Mount Wallpack,   | 1  | No Change - Already EE  | 1  |  |  |
| 41 | 166 STORAGE  | 8'  | Could Not Access - Locked  | 0  | No Change - Low Hours   |    |  |  |
| 42 | 167 SHOWER   | 8'  | 2/18W CFL 6" I.D. 8" O.D. Recessed Can, 4000K                                      | 2  | No Change - Low Hours   | 2  |  |  |
| 43 | 168 REAR SALLYPORT                                   | 18' | 2L8' STD/ELIG 8' Standard Rod Mount Vapor Tight, 4000K                             | 4  | 60W LED 8' Standard Vapor Tight Retrofit Kit, 4000K                         | 4  |  |  |
| 44 | 170 FRONT SALLYPORT                                  | 18' | 2L8' STD/ELIG 8' Standard Rod Mount Vapor Tight, 4000K                             | 2  | 60W LED 8' Standard Vapor Tight Retrofit Kit, 4000K                         | 2  |  |  |
| 45 | 170 FRONT SALLYPORT                                  | 18' | 4L4' 18W LED T8 Direct Wire 8' Standard Surface Mount Vapor Tight, 5000K           | 2  | No Change - Already EE  | 2  |  |  |
| 46 | UNINTERRUPTED POWER SUPPLY                           | 8'  | Could Not Access - Locked  | 0  | No Change - Low Hours   |    |  |  |
| 47 | EMERGENCY PANELS                                     | 8'  | Could Not Access - Locked  | 0  | No Change - Low Hours   |    |  |  |
| 48 | POWER & LIGHTING PANELS                              | 8'  | Could Not Access - Locked  | 0  | No Change - Low Hours   |    |  |  |
| 49 | MAIN DISTRIBUTION PANELS                             | 8'  | Could Not Access - Locked  | 0  | No Change - Low Hours   |    |  |  |
| 50 | MAIN DISCONNECT                                      | 8'  | Could Not Access - Locked  | 0  | No Change - Low Hours   |    |  |  |
| 51 | BREAKROOM/KITCHEN                                    | 8'  | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K                                 | 4  | 3L4' 12W LED T8/LP L&B, 4000K   | 4  |  |  |
| 52 | BREAKROOM/KITCHEN                                    | 8'  | 2L4' T8/ELIG 2X2 Prismatic U-Lamp Recessed Troffer, 4000K                          | 2  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K  | 2  |  |  |
| 53 | EVIDENCE ROOM  | 8'  | Could Not Access - Locked  | 0  | No Change - Could Not Access  |    |  |  |
| 54 | 128 EMERGENCY OPERATIONS MEETING ROOM                | 8'  | 3L4' 18W LED T8 Direct Wire 2X4 Parabolic Recessed Troffer, 5000K Double Switched  | 10 | No Change - Already EE  | 10 |  |  |
| 55 | 128 RESTROOM HALL                                    | 8'  | 3L4' 31W T8/NP 1 5/8" 2X2 Parabolic U-Lamp Recessed Troffer, 4000K Double Switched | 2  | 3L2' 8W LED T8/LP 2X2 Parabolic Troffer Retrofit Kit, 4000K Double Switched | 2  |  |  |
| 56 | 128 RESTROOM   | 8'  | 2L4' T8/ELIG 2X2 Prismatic U-Lamp Recessed Troffer, 4000K                          | 2  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K  | 2  |  |  |
| 57 | 128 EMERGENCY OPERATIONS MEETING ROOM JANITOR CLOSET | 8'  | 2L4' 18W LED T8 Direct Wire 4' Standard Surface Mount Wrap, 5000K                  | 1  | No Change - Already EE  | 1  |  |  |

|    |                               |    |  |   |   |   |  |  |
|----|-------------------------------|----|--|---|---|---|--|--|
| 58 | 124 FAMILY CONFERENCE ROOM    | 8' | 3L4' 18W LED T8 Direct Wire 2X4 Parabolic Recessed Troffer, 5000K Double Switched  | 2 | No Change - Already EE                        | 2 |  |  |
| 59 | ARMORY                        | 8' | Could Not Access - Locked  | 0 | No Change - Could Not Access                  |   |  |  |
| 60 | MENS RESTROOM                 | 8' | 2L4' T8/ELIG 2X2 Prismatic U-Lamp Recessed Troffer, 4000K                          | 1 | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K          | 1 |  |  |
| 61 | WOMENS RESTROOM               | 8' | 2L4' T8/ELIG 2X2 Prismatic U-Lamp Recessed Troffer, 4000K                          | 1 | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K          | 1 |  |  |
| 62 | 136 REPORT WRITING            | 8' | 2L4' T8/ELIG 2X2 Prismatic U-Lamp Recessed Troffer, 4000K                          | 2 | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K          | 2 |  |  |
| 63 | ELEVATOR MACHINE ROOM         | 8' | Could Not Access - Locked  | 0 | No Change - Low Hours                         |   |  |  |
| 64 | 140 OFFICER IN CHARGE         | 8' | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K                                 | 1 | 3L4' 12W LED T8/LP L&B, 4000K                 | 1 |  |  |
| 65 | DISPATCH                      | 8' | 3L4' 31W T8/NP 1 5/8" 2X2 Parabolic U-Lamp Recessed Troffer, 4000K Double Switched | 7 | No Change - Low Hours                         | 7 |  |  |
| 66 | DISPATCH                      | 8' | LED PAR38 - 40° Screw-In Lamp,   | 2 | No Change - Already EE                        | 2 |  |  |
| 67 | DISPATCH RESTROOM             | 8' | 2L4' T8/ELIG 2X2 Prismatic U-Lamp Recessed Troffer, 4000K                          | 2 | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K          | 2 |  |  |
| 68 | 142 COMMUNITIES DIRECTOR      | 8' | 2L4' T8/ELIG 2X4 Parabolic Recessed Troffer, 4000K Double Switched                 | 2 | 2L4' 12W LED T8/LP L&B, 4000K Double Switched | 2 |  |  |
| 69 | 142 COMMUNITIES DIRECTOR      | 8' | 1L4' T8/ELIG 2X4 Parabolic Recessed Troffer, 4000K Double Switched                 | 2 | 1L4' 12W LED T8/LP L&B, 4000K Double Switched | 2 |  |  |
| 70 | 143 DETECTIVE SERGEANT        | 8' | 3L4' T8/ELIG 2X4 Parabolic Recessed Troffer, 4000K Double Switched                 | 2 | 3L4' 12W LED T8/LP L&B, 4000K Double Switched | 2 |  |  |
| 71 | 144 DETECTIVES                | 8' | 3L4' T8/ELIG 2X4 Parabolic Recessed Troffer, 4000K Double Switched                 | 6 | 3L4' 12W LED T8/LP L&B, 4000K Double Switched | 6 |  |  |
| 72 | 144 DETECTIVES INTERVIEW ROOM | 8' | 3L4' T8/ELIG 2X4 Parabolic Recessed Troffer, 4000K                                 | 1 | 3L4' 12W LED T8/LP L&B, 4000K                 | 1 |  |  |
| 73 | HALLWAY INTERVIEW ROOM        | 8' | 3L4' T8/ELIG 2X4 Parabolic Recessed Troffer, 4000K                                 | 1 | 3L4' 12W LED T8/LP L&B, 4000K                 | 1 |  |  |
| 74 | 147 PROSECUTOR/ADMIN          | 8' | 2L4' T8/ELIG 2X4 Parabolic Recessed Troffer, 4000K Double Switched                 | 4 | 2L4' 12W LED T8/LP L&B, 4000K Double Switched | 4 |  |  |
| 75 | 147 PROSECUTOR/ADMIN          | 8' | 1L4' T8/ELIG 2X4 Parabolic Recessed Troffer, 4000K Double Switched                 | 4 | 1L4' 12W LED T8/LP L&B, 4000K Double Switched | 4 |  |  |
| 76 | RADIO CLOSET                  | 8' | Could Not Access - Locked  | 0 | No Change - Low Hours                         |   |  |  |
| 77 | HALLWAY                       | 8' | 2L4' T8/ELIG 2X2 Prismatic U-Lamp Recessed Troffer, 4000K                          | 8 | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K          | 8 |  |  |

|    |                                 |     |   |   |  |  |   |  |  |
|----|---------------------------------|-----|---|---|--|--|---|--|--|
| 78 | HALLWAY - NIGHT LIGHT           | 8'  | 2L4' T8/ELIG 2X2 Prismatic U-Lamp<br>Recessed Troffer, 4000K          | 5 |  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K             | 5 |  |  |
| 79 | ELEVATOR LOBBY                  | 8'  | 2L4' T8/ELIG 2X2 Prismatic U-Lamp<br>Recessed Troffer, 4000K          | 2 |  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K             | 2 |  |  |
| 80 | ELEVATOR LOBBY - NIGHT<br>LIGHT | 8'  | 2L4' T8/ELIG 2X2 Prismatic U-Lamp<br>Recessed Troffer, 4000K          | 1 |  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K             | 1 |  |  |
| 81 | COMMUNICATIONS ROOM             | 8'  | 2L4' T8/ELIG 4' Standard Surface Mount<br>Wrap, 4000K                 | 2 |  | No Change - Low Hours                            | 2 |  |  |
| 82 | COMPUTER ROOM                   | 8'  | 3L4' T8/ELIG 2X4 Parabolic Recessed<br>Troffer, 4000K                 | 2 |  | No Change - Low Hours                            | 2 |  |  |
| 83 | PUBLIC LOBBY                    | 8'  | 2L4' T8/ELIG 2X2 Prismatic U-Lamp<br>Recessed Troffer, 4000K          | 5 |  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K             | 5 |  |  |
| 84 | PUBLIC LOBBY RESTROOM           | 8'  | 2L4' T8/ELIG 2X2 Prismatic U-Lamp<br>Recessed Troffer, 4000K          | 2 |  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K             | 2 |  |  |
| 85 | FIRE - SECOND FLOOR             |     |   |   |  |  |   |  |  |
| 86 | CENTER STAIRWELL                | 12' | 2L4' 18W LED T8 Direct Wire 4' Standard<br>Surface Mount Wrap, 5000K  | 1 |  | No Change - Already EE                           | 1 |  |  |
| 87 | CENTER STAIRWELL                | 8'  | 2L4' T8/ELIG 4' Standard Surface Mount<br>Wrap, 4000K                 | 1 |  | 2L4' 12W LED T8/LP L&B, 5000K                    | 1 |  |  |
| 88 | 202 FIRE PREVENTION             | 8'  | 3L4' T8/ELIG 2X4 Parabolic Recessed<br>Troffer, 4000K Double Switched | 4 |  | 3L4' 12W LED T8/LP L&B, 4000K Double<br>Switched | 4 |  |  |
| 89 | 201 FIRE CHIEF                  | 8'  | 3L4' T8/ELIG 2X4 Parabolic Recessed<br>Troffer, 4000K Double Switched | 4 |  | 3L4' 12W LED T8/LP L&B, 4000K Double<br>Switched | 4 |  |  |
| 90 | 200 SHIFT OFFICER               | 8'  | 3L4' T8/ELIG 2X4 Parabolic Recessed<br>Troffer, 4000K Double Switched | 4 |  | 3L4' 12W LED T8/LP L&B, 4000K Double<br>Switched | 4 |  |  |
| 91 | 203 CAPTAIN                     | 8'  | 3L4' T8/ELIG 2X4 Parabolic Recessed<br>Troffer, 4000K Double Switched | 2 |  | 3L4' 12W LED T8/LP L&B, 4000K Double<br>Switched | 2 |  |  |
| 92 | 204 EMS & TRAINING              | 8'  | 3L4' T8/ELIG 2X4 Parabolic Recessed<br>Troffer, 4000K Double Switched | 2 |  | 3L4' 12W LED T8/LP L&B, 4000K Double<br>Switched | 2 |  |  |
| 93 | DINING ROOM                     | 8'  | 2L4' T8/ELIG 2X2 Prismatic U-Lamp<br>Recessed Troffer, 4000K          | 8 |  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K             | 8 |  |  |
| 94 | KITCHEN                         | 8'  | 2L4' T8/ELIG 2X2 Prismatic U-Lamp<br>Recessed Troffer, 4000K          | 4 |  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K             | 4 |  |  |
| 95 | LIVING ROOM                     | 10' | 2L4' T8/ELIG 4' Standard Wall Mount<br>Wrap, 4000K                    | 7 |  | 2L4' 12W LED T8/LP L&B, 4000K                    | 7 |  |  |
| 96 | BUNK HALLWAY                    | 8'  | 2L4' T8/ELIG 2X2 Prismatic U-Lamp<br>Recessed Troffer, 4000K          | 6 |  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K             | 6 |  |  |
| 97 | BUNK HALLWAY - NIGHT<br>LIGHT   | 8'  | 2L4' T8/ELIG 2X2 Prismatic U-Lamp<br>Recessed Troffer, 4000K          | 3 |  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K             | 3 |  |  |

|     |                              |    |   |    |                                       |    |  |  |
|-----|------------------------------|----|---|----|---------------------------------------|----|--|--|
| 98  | BUNK ROOM 1                  | 8' | LED PAR38 - 40° Screw-In Lamp,                            | 6  | No Change - Already EE                | 6  |  |  |
| 99  | BUNK ROOM 2                  | 8' | LED PAR38 - 40° Screw-In Lamp,                            | 4  | No Change - Already EE                | 4  |  |  |
| 100 | BUNK ROOM 3                  | 8' | LED PAR38 - 40° Screw-In Lamp,                            | 4  | No Change - Already EE                | 4  |  |  |
| 101 | BUNK ROOM 4                  | 8' | LED PAR38 - 40° Screw-In Lamp,                            | 4  | No Change - Already EE                | 4  |  |  |
| 102 | MENS RESTROOM                | 8' | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K        | 2  | 3L4' 12W LED T8/LP L&B, 4000K         | 2  |  |  |
| 103 | MENS RESTROOM SHOWERS        | 8' | 2/18W CFL 6" I.D. 8" O.D. Recessed Can, 4000K             | 4  | 10W LED 6" I.D. 8" O.D. Recessed Can, | 4  |  |  |
| 104 | MENS RESTROOM SINK           | 7' | 2L4' T8/ELIG 4' Wall Mount Vanity, 4000K                  | 1  | 2L4' 12W LED T8/LP L&B, 4000K         | 1  |  |  |
| 105 | JANITOR'S CLOSET             | 8' | 2L4' T8/ELIG 2X2 Prismatic U-Lamp Recessed Troffer, 4000K | 1  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K  | 1  |  |  |
| 106 | WOMENS RESTROOM              | 8' | LED 2X4 Prismatic Recessed Troffer,                       | 1  | No Change - Already EE                | 1  |  |  |
| 107 | WOMENS RESTROOM SHOWER       | 8' | 2/18W CFL 6" I.D. 8" O.D. Recessed Can, 4000K             | 2  | 10W LED 6" I.D. 8" O.D. Recessed Can, | 2  |  |  |
| 108 | LOFT                         | 8' | 2L4' T8/ELIG 4' Standard Surface Mount Wrap, 4000K        | 2  | 2L4' 12W LED T8/LP L&B, 4000K         | 2  |  |  |
| 109 | LOFT MECHANICAL ROOM         | 8' | Could Not Access - Locked                                 | 0  | No Change - Low Hours                 |    |  |  |
| 110 | OFFICE HALLWAY               | 8' | 2L4' T8/ELIG 2X2 Prismatic U-Lamp Recessed Troffer, 4000K | 10 | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K  | 10 |  |  |
| 111 | OFFICE HALLWAY - NIGHT LIGHT | 8' | 2L4' T8/ELIG 2X2 Prismatic U-Lamp Recessed Troffer, 4000K | 4  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K  | 4  |  |  |
| 112 | COPY ROOM                    | 8' | 3L4' T8/ELIG 2X4 Parabolic Recessed Troffer, 4000K        | 1  | 3L4' 12W LED T8/LP L&B, 4000K         | 1  |  |  |
| 113 | SPARE OFFICE                 | 8' | 3L4' T8/ELIG 2X4 Parabolic Recessed Troffer, 4000K        | 1  | 3L4' 12W LED T8/LP L&B, 4000K         | 1  |  |  |
| 114 | RESTROOM                     | 8' | 2L4' T8/ELIG 2X2 Prismatic U-Lamp Recessed Troffer, 4000K | 1  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K  | 1  |  |  |
| 115 | FIRE - FIRST FLOOR           |    |   |    |                                       |    |  |  |
| 116 | FIRE STAIRWELL               | 8' | 2L4' T8/ELIG 4' Standard Surface Mount Wrap, 4000K        | 3  | 2L4' 12W LED T8/LP L&B, 5000K         | 3  |  |  |
| 117 | FIRE STAIRWELL               | 8' | 2L4' T8/ELIG 2X2 Prismatic U-Lamp Recessed Troffer, 4000K | 2  | 2L4' 12W LED T8/LP U-Lamp L&B, 5000K  | 2  |  |  |
| 118 | 106 TURNOUT GEAR             | 8' | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K        | 4  | 3L4' 12W LED T8/LP L&B, 4000K         | 4  |  |  |

|     |                                  |     |  |    |   |    |  |  |
|-----|----------------------------------|-----|--|----|---|----|--|--|
| 119 | RADIO DESK                       | 8'  | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K         | 1  | 3L4' 12W LED T8/LP L&B, 4000K                       | 1  |  |  |
| 120 | 109 WORKBENCH                    | 8'  | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K         | 2  | 3L4' 12W LED T8/LP L&B, 4000K                       | 2  |  |  |
| 121 | 109 WORKBENCH STORAGE ROOM       | 8'  | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K         | 1  | 3L4' 12W LED T8/LP L&B, 4000K                       | 1  |  |  |
| 122 | 111 DECONTAMINATION              | 8'  | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K         | 2  | 3L4' 12W LED T8/LP L&B, 4000K                       | 2  |  |  |
| 123 | 111 DECONTAMINATION              | 8'  | 2/18W CFL 6" I.D. 8" O.D. Recessed Can, 4000K              | 2  | 10W LED 6" I.D. 8" O.D. Recessed Can,               | 2  |  |  |
| 124 | 111 DECONTAMINATION STORAGE ROOM | 8'  | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K         | 2  | 3L4' 12W LED T8/LP L&B, 4000K                       | 2  |  |  |
| 125 | HALLWAY TO DISPATCH              | 8'  | 2L4' T8/ELIG 2X2 Prismatic U-Lamp Recessed Troffer, 4000K  | 2  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K                | 2  |  |  |
| 126 | RESTROOM                         | 8'  | 2L4' T8/ELIG 2X2 Prismatic U-Lamp Recessed Troffer, 4000K  | 1  | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K                | 1  |  |  |
| 127 | 115 REPORT & RADIO ROOM          | 8'  | 3L4' T8/ELIG 2X4 Parabolic Recessed Troffer, 4000K         | 2  | 3L4' 12W LED T8/LP L&B, 4000K                       | 2  |  |  |
| 128 | APPARATUS BAY                    | 17' | 2L8' STD/ELIG 8' Standard Surface Mount Vapor Tight, 4000K | 10 | 60W LED 8' Standard Vapor Tight Retrofit Kit, 4000K | 10 |  |  |
| 129 | APPARATUS BAY                    | 17' | 2L8' STD/ELIG 8' Standard Surface Mount Vapor Tight, 4000K | 10 | 60W LED 8' Standard Vapor Tight Retrofit Kit, 4000K | 10 |  |  |
| 130 | APPARATUS BAY - NIGHT LIGHT      | 17' | 2L8' T8/ELIG 8' Standard Surface Mount Vapor Tight, 4000K  | 6  | 60W LED 8' Standard Vapor Tight Retrofit Kit, 4000K | 6  |  |  |
| 131 | APPARATUS BAY - NIGHT LIGHT      | 17' | 2L8' T8/ELIG 8' Standard Surface Mount Vapor Tight, 4000K  | 6  | 60W LED 8' Standard Vapor Tight Retrofit Kit, 4000K | 6  |  |  |
| 132 | FRONT APPARATUS BAY EXIT HALL    | 8'  | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K         | 1  | 3L4' 12W LED T8/LP L&B, 4000K                       | 1  |  |  |
| 133 | SPRINKLER ROOM                   | 8'  | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K         | 2  | 3L4' 12W LED T8/LP L&B, 4000K                       | 2  |  |  |
| 134 | 102 STORAGE                      | 8'  | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K         | 2  | 3L4' 12W LED T8/LP L&B, 4000K                       | 2  |  |  |
| 135 | 101 AMBULANCE STORAGE            | 8'  | Could Not Access - Locked                                  | 0  | No Change - Could Not Access                        |    |  |  |
| 136 | 103 SCBA                         | 8'  | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K         | 2  | 3L4' 12W LED T8/LP L&B, 4000K                       | 2  |  |  |
| 137 | 104 STORAGE                      | 8'  | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K         | 2  | 3L4' 12W LED T8/LP L&B, 4000K                       | 2  |  |  |
| 138 | REAR APPARATUS BAY EXIT HALL     | 8'  | 3L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 4000K         | 1  | 3L4' 12W LED T8/LP L&B, 4000K                       | 1  |  |  |



|     |  |     |   |   |  |   |   |                  |   |
|-----|--|-----|---|---|--|---|---|------------------|---|
| 139 | EXTERIOR                                 |     |   |   |  |   |   |                  |   |
| 140 | FRONT ENTRANCE CANOPY                    | 8'  | 70W MH Soffit Recessed Canopy,            | 2 |  | 15W LED Direct Wire HO Screw-In Lamp, 4000K     | 2 |                  |   |
| 141 | FRONT ENTRANCE WALL PACKS                | 8'  | 70W MH Full Cut-Off Wall Mount Wallpack,  | 2 |  | 22W LED Full Cut-Off Wall Mount Wallpack, 5000K | 2 |                  |   |
| 142 | FRONT RESERVED PARKING WALL PACKS        | 8'  | 70W MH Full Cut-Off Wall Mount Wallpack,  | 2 |  | 22W LED Full Cut-Off Wall Mount Wallpack, 5000K | 2 |                  |   |
| 143 | SALLYPORT DRIVEWAY WALL PACK             | 23' | 20W LED Full Cut-Off Wall Mount Wallpack, | 1 |  | No Change - Already EE                          | 1 |                  |   |
| 144 | STAIRWELL/RELEASE DOOR WALL PACK         | 8'  | 10W LED Full Cut-Off Wall Mount Wallpack, | 1 |  | No Change - Already EE                          | 1 |                  |   |
| 145 | FRONT SALLYPORT GARAGE DOOR WALL PACK    | 23' | 70W MH Flood Style Wall Mount Wallpack,   | 1 |  | 25W LED Flood Style Wall Mount Wallpack, 5000K  | 1 |                  |   |
| 146 | AC WALL PACKS (EAST PAD)                 | 8'  | 70W MH Flood Style Wall Mount Wallpack,   | 2 |  | 25W LED Flood Style Wall Mount Wallpack, 5000K  | 2 | Remote PE - Stem | 1 |
| 147 | REAR SALLYPORT GARAGE DOOR WALL PACK     | 23' | 70W MH Flood Style Wall Mount Wallpack,   | 1 |  | 25W LED Flood Style Wall Mount Wallpack, 5000K  | 1 |                  |   |
| 148 | AC WALL PACKS (NORTH PAD)                | 13' | 20W LED Full Cut-Off Wall Mount Wallpack, | 1 |  | No Change - Already EE                          | 1 |                  |   |
| 149 | EMERGENCY OPERATIONS ENTRANCE WALL PACKS | 8'  | 70W MH Flood Style Wall Mount Wallpack,   | 1 |  | 25W LED Flood Style Wall Mount Wallpack, 5000K  | 1 |                  |   |
| 150 | EMERGENCY OPERATIONS ENTRANCE WALL PACKS | 8'  | 10W LED Full Cut-Off Wall Mount Wallpack, | 3 |  | No Change - Already EE                          | 3 |                  |   |
| 151 | REAR APPARATUS BAY WALL PACKS            | 16' | 70W MH Flood Style Wall Mount Wallpack,   | 2 |  | 25W LED Flood Style Wall Mount Wallpack, 5000K  | 2 |                  |   |
| 152 | REAR APPARATUS BAY WALL PACKS            | 16' | 70W MH Full Cut-Off Wall Mount Wallpack,  | 3 |  | 22W LED Full Cut-Off Wall Mount Wallpack, 5000K | 3 |                  |   |
| 153 | REAR APPARATUS BAY WALL PACKS            | 8'  | 10W LED Full Cut-Off Wall Mount Wallpack, | 1 |  | No Change - Already EE                          | 1 |                  |   |
| 154 | WEST SIDE PARKING LOT WALL PACKS         | 8'  | 70W MH Flood Style Wall Mount Wallpack,   | 1 |  | 25W LED Flood Style Wall Mount Wallpack, 5000K  | 1 |                  |   |
| 155 | WEST SIDE PARKING LOT WALL PACKS         | 8'  | 10W LED Full Cut-Off Wall Mount Wallpack, | 1 |  | No Change - Already EE                          | 1 |                  |   |
| 156 | WEST SIDE PARKING LOT WALL PACKS         | 8'  | 55W LED Flood Style Wall Mount Wallpack,  | 1 |  | No Change - Already EE                          | 1 |                  |   |
| 157 | FRONT APPARATUS BAY WALL PACKS           | 16' | 70W MH Flood Style Wall Mount Wallpack,   | 2 |  | 25W LED Flood Style Wall Mount Wallpack, 5000K  | 2 |                  |   |
| 158 | GOOSENECKS                               | 16' | LED Wall Mount Decorative,                | 3 |  | No Change - Already EE                          | 3 |                  |   |

|     |   |     |   |     |  |     |  |   |
|-----|---|-----|---|-----|--|-----|--|---|
| 159 | FRONT PARKING<br>LOT/DRIVEWAY DECO POLES        | 16' | 175W MH 5M Pole Light,                      | 14  | 30W LED Direct Wire HO Screw-In Lamp,<br>4000K | 14  |  |   |
| 160 | REAR PARKING LOT DUAL<br>HEAD DA MNT BK POLES   | 25' | 400W MH 3M Direct Arm Pole Light,           | 6   | 160W LED 3M Direct Arm Pole Light,<br>5000K    | 6   |  |   |
| 161 | LEFT PARKING LOT SINGLE<br>HEAD DA MNT BK POLES | 25' | 160W LED 3M Direct Arm Pole Light,<br>5000K | 2   | No Change - Already EE                         | 2   |  |   |
|     |   |     | <b>TOTALS</b>                               | 396 | <b>TOTALS</b>                                  | 396 |  | 1 |

**SITE 6:**  
**TOWN HALL**

**Energy Management System**

Scope of work to include the following:

Provide and install a new open protocol DDC energy management system to control six (6) heat pumps in the attic and two (2) AHUs in the basement and integrate with the new town-wide system. System controls to include:

- Heat pumps
  - Start/Stop/Schedule
  - Space Temperature – two new DDC sensors will be installed per heat pump, total 12, to replace existing Honeywell thermostats
  - Discharge air temperature
- Air handling units
  - Start/Stop/Schedule
  - Space Temperature – one new DDC sensor will be installed per heat pump, total 2, to replace existing Honeywell thermostats
  - Discharge air temperature

**Weatherization and Insulation**

Air sealing and insulation scope of work to include the following:

- Exhaust fan air-sealing
  - 8 small exhaust fans, total 40 LF
  - 4 large exhaust fans, total 48 LF
- Windows air-sealing
  - total 1,100 LF
- Roof-wall Joint air-sealing
  - 1-line at <14' working height, total 400 LF
- Soffit air-sealing
  - 400 LF to match roof-wall
- Attic Insulation
  - Install 5" of 2-component, closed-cell, polyurethane spray foam and an intumescent paint to the underside of the roof deck, total 12,331 SF/49,324 BF

## Lighting and Controls

The table below provides a detailed location by location listing of lighting measures

| LINE | ROOM                                 | HT | EXISTING  |                |  | PROPOSED   |                | CONTROLS         |     |
|------|--------------------------------------|----|---|----------------|--|--|----------------|------------------|-----|
|      |                                      |    | DESCRIPTION<br>LAMPS/BALLAST                              | FIXTURE<br>QTY |  | DESCRIPTION<br>LAMPS/BALLAST                                 | FIXTURE<br>QTY | TYPE             | QTY |
| 1    | FIRST FLOOR                          |    |   |                |  |  |                |                  |     |
| 2    | COMPUTER ROOM                        | 8' | 4L4' T8/ELIG 8' Standard Surface Mount Strip, 6500K       | 1              |  | 4L4' 12W LED T8/LP L&B, 5000K                                | 1              |                  |     |
| 3    | KITCHEN                              | 8' | 2X2 Volumetric Recessed Troffer, 4000K                    | 4              |  | No Change - Already EE                                       | 4              |                  |     |
| 4    | SELECTMEN/TOWN ADMINISTRATOR OFFICES | 8' | 33W LED 2X4 Volumetric Recessed Troffer, 4000K            | 0              |  | No Change - Already EE                                       |                |                  |     |
| 5    | SELECTMEN MEETING ROOM - UPPER       | 8' | 4L4' 28W T8EE/ELEE 8' Standard Surface Mount Strip, 5000K | 6              |  | 4L4' 12W LED T8/LP L&B, 5000K                                | 6              |                  |     |
| 6    | SELECTMEN MEETING ROOM - UPPER       | 8' | 2L4' 28W T8EE/ELEE 4' Standard Surface Mount Strip, 5000K | 2              |  | 2L4' 12W LED T8/LP L&B, 5000K                                | 2              |                  |     |
| 7    | SELECTMEN MEETING ROOM - LOWER       | 8' | 4L4' 28W T8EE/ELEE 8' Standard Surface Mount Strip, 5000K | 6              |  | 4L4' 12W LED T8/LP L&B, 5000K                                | 6              |                  |     |
| 8    | SELECTMEN MEETING ROOM - LOWER       | 8' | 2L4' 28W T8EE/ELEE 4' Standard Surface Mount Strip, 5000K | 2              |  | 2L4' 12W LED T8/LP L&B, 5000K                                | 2              |                  |     |
| 9    | SELECTMEN MEETING ROOM TABLE         | 8' | 4L4' 28W T8EE/ELEE 2X4 Prism Recessed Troffer, 5000K      | 4              |  | 4L4' 12W LED T8/LP L&B, 5000K                                | 4              |                  |     |
| 10   | ASSESSORS WINDOW                     | 7' | 4L4' T8/ELIG 8' Standard Surface Mount Strip, 5000K       | 1              |  | 4L4' 12W LED T8/LP L&B, 5000K                                | 1              |                  |     |
| 11   | ASSESSORS OPEN AREA                  | 8' | 4L4' 28W T8EE/ELEE 2X4 Prism Recessed Troffer, 5000K      | 4              |  | 2L4' 12W LED T8/LP 2X4 Prismatic Troffer Retrofit Kit, 5000K | 4              |                  |     |
| 12   | ASSESSORS OPEN AREA                  | 8' | 2L4' 28W T8EE/ELEE 2X4 Prism Recessed Troffer, 5000K      | 5              |  | 2L4' 12W LED T8/LP 2X4 Prismatic Troffer Retrofit Kit, 5000K | 5              |                  |     |
| 13   | ASSESSORS OFFICE                     | 8' | 4L4' 28W T8EE/ELEE 2X4 Prism Recessed Troffer, 5000K      | 2              |  | 2L4' 12W LED T8/LP 2X4 Prismatic Troffer Retrofit Kit, 5000K | 2              | Ceiling - Sensor | 1   |
| 14   | HALLWAY SUPPLY CLOSET                | 8' | 2L4' 28W T8EE/ELEE 4' Standard Surface Mount Wrap, 5000K  | 1              |  | 2L4' 12W LED T8/LP L&B, 5000K                                | 1              |                  |     |
| 15   | COPY ROOM                            | 8' | 2L4' 28W T8EE/ELEE 4' Standard Surface Mount Wrap, 5000K  | 2              |  | 2L4' 12W LED T8/LP L&B, 5000K                                | 2              |                  |     |
| 16   | VETERANS SERVICES                    | 8' | 4L4' 28W T8EE/ELEE 2X4 Prism Recessed Troffer, 5000K      | 1              |  | 4L4' 12W LED T8/LP L&B, 5000K                                | 1              |                  |     |

|    |   |    |   |    |  |    |                   |   |
|----|---|----|---|----|--|----|-------------------|---|
| 17 | VETERANS SERVICES                         | 8' | 2L4' 28W T8EE/ELEE 4' Standard Surface Mount Wrap, 5000K  | 1  | 2L4' 12W LED T8/LP L&B, 5000K                                | 1  |                   |   |
| 18 | BUILDING INSPECTOR/HEALTH AGENT WINDOW    | 7' | 4L4' 28W T8EE/ELEE 8' Standard Surface Mount Strip, 5000K | 1  | 4L4' 12W LED T8/LP L&B, 5000K                                | 1  |                   |   |
| 19 | BUILDING INSPECTOR/HEALTH AGENT OPEN AREA | 8' | 2L4' 28W T8EE/ELEE 2X4 Prism Recessed Troffer, 5000K      | 2  | 2L4' 12W LED T8/LP 2X4 Prismatic Troffer Retrofit Kit, 5000K | 2  |                   |   |
| 20 | BUILDING INSPECTOR/HEALTH AGENT OPEN AREA | 8' | 1L4' 28W T8EE/ELEE 2X4 Prismatic Recessed Troffer, 5000K  | 4  | 2L4' 12W LED T8/LP 2X4 Prismatic Troffer Retrofit Kit, 5000K | 4  |                   |   |
| 21 | BUILDING INSPECTOR/HEALTH AGENT OPEN AREA | 8' | 2L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 6500K        | 2  | 2L4' 12W LED T8/LP 2X4 Prismatic Troffer Retrofit Kit, 5000K | 2  |                   |   |
| 22 | BUILDING INSPECTOR OFFICE                 | 8' | 2L4' T8/ELIG 2X4 Prismatic Recessed Troffer, 6500K        | 2  | 2L4' 12W LED T8/LP 2X4 Prismatic Troffer Retrofit Kit, 5000K | 2  | Ceiling - Sensor  | 1 |
| 23 | HEALTH AGENT OFFICE                       | 8' | 4L4' 28W T8EE/ELEE 2X4 Prism Recessed Troffer, 5000K      | 2  | 2L4' 12W LED T8/LP 2X4 Prismatic Troffer Retrofit Kit, 5000K | 2  | Ceiling - Sensor  | 1 |
| 24 | PARKS & RECREATION OFFICE                 | 8' | 2L4' 28W T8EE/ELEE 4' Standard Surface Mount Strip, 5000K | 1  | 2L4' 12W LED T8/LP L&B, 5000K                                | 1  | Wall - W - Single | 1 |
| 25 | FILE ROOM                                 | 8' | 4L4' 28W T8EE/ELEE 2X4 Prism Recessed Troffer, 5000K      | 2  | 4L4' 12W LED T8/LP L&B, 5000K                                | 2  | Ceiling - Sensor  | 1 |
| 26 | PLANNING DEPT./ZONING BOARD OFFICES       | 8' | 33W LED 2X4 Volumetric Recessed Troffer, 4000K            | 16 | No Change - Already EE                                       | 16 |                   |   |
| 27 | PLANNING DEPT./ZONING BOARD CLOSET        | 8' | 2X2 Flat Panel Recessed Troffer, 4000K                    | 1  | No Change - Already EE                                       | 1  |                   |   |
| 28 | TOWN CLERK/NOTARY PUBLIC OFFICE           | 8' | 1L4' 28W T8EE/ELEE 2X4 Prism Recessed Troffer, 5000K      | 5  | 2L4' 12W LED T8/LP 2X4 Prismatic Troffer Retrofit Kit, 5000K | 5  |                   |   |
| 29 | TOWN CLERK/NOTARY PUBLIC OFFICE           | 8' | 2L4' 28W T8EE/ELEE 2X4 Prism Recessed Troffer, 5000K      | 1  | 2L4' 12W LED T8/LP 2X4 Prismatic Troffer Retrofit Kit, 5000K | 1  |                   |   |
| 30 | CONSERVATION OFFICE                       | 8' | 4L4' 28W T8EE/ELEE 2X4 Prism Recessed Troffer, 5000K      | 2  | 2L4' 12W LED T8/LP 2X4 Prismatic Troffer Retrofit Kit, 5000K | 2  | Ceiling - Sensor  | 1 |
| 31 | CONSERVATION OFFICE                       | 8' | 2L4' 28W T8EE/ELEE 2X4 Prism Recessed Troffer, 5000K      | 2  | 2L4' 12W LED T8/LP 2X4 Prismatic Troffer Retrofit Kit, 5000K | 2  | On Above          |   |
| 32 | ELECTRICAL ROOM                           | 9' | 2L4' 28W T8EE/ELEE 4' Standard Surface Mount Strip, 5000K | 2  | 2L4' 12W LED T8/LP L&B, 5000K                                | 2  |                   |   |
| 33 | ELECTRICAL ROOM                           | 9' | 4L4' 28W T8EE/ELEE 8' Standard Surface Mount Strip, 5000K | 1  | 4L4' 12W LED T8/LP L&B, 5000K                                | 1  |                   |   |

|    |                                 |    |  |   |  |   |                  |   |
|----|---------------------------------|----|--|---|--|---|------------------|---|
| 34 | TREASURER & COLLECTOR WINDOW    | 7' | 4L4' 28W T8EE/ELEE 8' Standard Surface Mount Strip, 5000K              | 1 | 4L4' 12W LED T8/LP L&B, 5000K                                | 1 |                  |   |
| 35 | TREASURER & COLLECTOR OPEN AREA | 8' | 4L4' 28W T8EE/ELEE 2X4 Prism Recessed Troffer, 5000K                   | 3 | 2L4' 12W LED T8/LP 2X4 Prismatic Troffer Retrofit Kit, 5000K | 3 |                  |   |
| 36 | TREASURER & COLLECTOR OPEN AREA | 8' | 2L4' 28W T8EE/ELEE 2X4 Prism Recessed Troffer, 5000K                   | 6 | 2L4' 12W LED T8/LP 2X4 Prismatic Troffer Retrofit Kit, 5000K | 6 |                  |   |
| 37 | TREASURER OFFICE                | 8' | 2L4' 28W T8EE/ELEE 2X4 Prism Recessed Troffer, 5000K                   | 2 | 2L4' 12W LED T8/LP 2X4 Prismatic Troffer Retrofit Kit, 5000K | 2 | Ceiling - Sensor | 1 |
| 38 | VAULT HALLWAY                   | 8' | 4L4' 28W T8EE/ELEE 2X4 Prism Recessed Troffer, 5000K                   | 3 | 4L4' 12W LED T8/LP L&B, 5000K                                | 3 |                  |   |
| 39 | CLOSET                          | 8' | 60W INC A19 Screw-In Lamp, 2700K                                       | 1 | 9W LED A19 Screw-In Lamp, 4000K                              | 1 |                  |   |
| 40 | VAULT                           | 8' | 1L4' 28W T8EE/ELEE 4' Narrow Surface Mount Wrap, 5000K                 | 5 | 1L4' 12W LED T8/LP L&B, 5000K                                | 5 |                  |   |
| 41 | FINANCE DEPT. WINDOW            | 7' | 4L4' T8/ELIG 8' Standard Surface Mount Strip, 5000K                    | 1 | 4L4' 12W LED T8/LP L&B, 5000K                                | 1 |                  |   |
| 42 | FINANCE DEPT. OPEN AREA         | 8' | 4L4' 28W T8EE/ELEE 2X4 Prism Recessed Troffer, 5000K                   | 3 | 2L4' 12W LED T8/LP 2X4 Prismatic Troffer Retrofit Kit, 5000K | 3 |                  |   |
| 43 | FINANCE DEPT. OPEN AREA         | 8' | 2L4' 28W T8EE/ELEE 2X4 Prism Recessed Troffer, 5000K                   | 3 | 2L4' 12W LED T8/LP 2X4 Prismatic Troffer Retrofit Kit, 5000K | 3 |                  |   |
| 44 | FINANCE DIRECTOR OFFICE         | 8' | 4L4' 28W T8EE/ELEE 2X4 Prism Recessed Troffer, 5000K                   | 2 | 4L4' 12W LED T8/LP L&B, 5000K                                | 2 | Ceiling - Sensor | 1 |
| 45 | MENS RESTROOM                   | 8' | 1L4' 28W T8EE/ELEE 4' Narrow Surface Mount Wrap, 5000K                 | 2 | 1L4' 12W LED T8/LP L&B, 5000K                                | 2 |                  |   |
| 46 | MENS RESTROOM                   | 8' | 2L4' 28W T8EE/ELEE 8' Narrow Surface Mount Wrap, 5000K                 | 1 | 2L4' 12W LED T8/LP L&B, 5000K                                | 1 |                  |   |
| 47 | MENS RESTROOM CLOSET            | 8' | 2L4' 28W T8EE/ELEE 4' Standard Surface Mount Strip, 5000K              | 1 | 2L4' 12W LED T8/LP L&B, 5000K                                | 1 |                  |   |
| 48 | WOMENS RESTROOM                 | 8' | 1L4' 12W LED T8/LP 4' Narrow Surface Mount Wrap, 5000K                 | 2 | No Change - Already EE                                       | 2 |                  |   |
| 49 | WOMENS RESTROOM                 | 8' | 2L4' 12W LED T8/LP 8' Narrow Surface Mount Wrap, 5000K                 | 1 | No Change - Already EE                                       | 1 |                  |   |
| 50 | RIGHT SIDE REAR ENTRANCE        | 8' | 2L4' 12W LED T8/NP U-Lamp 2X2 Prismatic U-Lamp Recessed Troffer, 4000K | 1 | No Change - Already EE                                       | 1 |                  |   |
| 51 | RIGHT SIDE HALLWAY              | 8' | 2L4' T8/ELIG 2X2 Prismatic U-Lamp Recessed Troffer, 4000K              | 1 | 2L4' 12W LED T8/LP U-Lamp L&B, 4000K                         | 1 |                  |   |
| 52 | RIGHT SIDE HALLWAY              | 8' | 2L4' 12W LED T8/NP 2X2 Prism U-Lamp Recessed Troffer, 4000K            | 8 | No Change - Already EE                                       | 8 |                  |   |
| 53 | RIGHT SIDE HALLWAY              | 8' | 9W LED BR30 Screw-In Lamp, 5000K                                       | 4 | No Change - Already EE                                       | 4 |                  |   |

|    |                            |    |  |     |  |                               |     |  |   |
|----|----------------------------|----|--|-----|--|-------------------------------|-----|--|---|
| 54 | MAIN ENTRANCE LOBBY        | 8' | 9W LED BR30 Screw-In Lamp,<br>5000K                            | 4   |  | No Change - Already EE        | 4   |  |   |
| 55 | FLAG CANS                  | 8' | 7W LED R20 Screw-In Lamp,<br>5000K                             | 2   |  | No Change - Already EE        | 2   |  |   |
| 56 | MAIN ENTRANCE              | 8' | 7W LED R20 Screw-In Lamp,<br>5000K                             | 4   |  | No Change - Already EE        | 4   |  |   |
| 57 | LEFT SIDE HALLWAY          | 8' | 2L4' 12W LED T8/NP 2X2 Prism<br>U-Lamp Recessed Troffer, 4000K | 9   |  | No Change - Already EE        | 9   |  |   |
| 58 | LEFT SIDE HALLWAY          | 8' | 9W LED BR30 Screw-In Lamp,<br>5000K                            | 4   |  | No Change - Already EE        | 4   |  |   |
| 59 | LEFT SIDE REAR<br>ENTRANCE | 8' | 2L4' 12W LED T8/NP 2X2 Prism<br>U-Lamp Recessed Troffer, 4000K | 1   |  | No Change - Already EE        | 1   |  |   |
| 60 | BASEMENT                   |    |  |     |  |                               |     |  |   |
| 61 | LEFT STAIRWELL             | 8' | 1L4' 28W T8EE/ELEE 4' Standard<br>Surface Mount Strip, 5000K   | 1   |  | 1L4' 12W LED T8/LP L&B, 5000K | 1   |  |   |
| 62 | LEFT STAIRWELL             | 8' | 1L4' 28W T8EE/ELEE 4' Standard<br>Wall Mount Strip, 5000K      | 2   |  | 1L4' 12W LED T8/LP L&B, 5000K | 2   |  |   |
| 63 | STORAGE AREA               | 8' | 1L4' 28W T8EE/ELEE 4' Narrow<br>Surface Mount Wrap, 5000K      | 20  |  | 1L4' 12W LED T8/LP L&B, 5000K | 20  |  |   |
| 64 | BASEMENT VAULT             | 8' | 13W CFL Mini Twist Screw-In<br>Lamp, 2700K                     | 2   |  | No Change - Already EE        | 2   |  |   |
| 65 | RIGHT STAIRWELL            | 8' | 1L4' 28W T8EE/ELEE 4' Standard<br>Wall Mount Strip, 5000K      | 2   |  | 1L4' 12W LED T8/LP L&B, 5000K | 2   |  |   |
| 66 | RIGHT STAIRWELL            | 8' | 1L4' 28W T8EE/ELEE 4' Standard<br>Surface Mount Strip, 5000K   | 1   |  | 1L4' 12W LED T8/LP L&B, 5000K | 1   |  |   |
|    |                            |    | <b>TOTALS</b>  | 191 |  | <b>TOTALS</b>                 | 191 |  | 8 |

**SITE 7:**  
**BANNA FIRE DEPARTMENT**

**Lighting and Controls**

Please see the table below for a detailed location by location listing of replacements

| LINE | ROOM                | HT | EXISTING  |                | PROPOSED                                       |                | CONTROLS               |     |
|------|---------------------|----|---|----------------|--|----------------|------------------------|-----|
|      |                     |    | DESCRIPTION<br>LAMPS/BALLAST                                | FIXTURE<br>QTY | DESCRIPTION<br>LAMPS/BALLAST                   | FIXTURE<br>QTY | TYPE                   | QTY |
| 1    | SECOND FLOOR        |    |   |                |  |                |                        |     |
| 2    | LIVING ROOM/KITCHEN | 8' | 32W CFL ELIG 6" I.D. 7" O.D.<br>Recessed Can, 4000K         | 7              | 10W LED 6" I.D. 7" O.D. Recessed<br>Can, 4000K | 7              |                        |     |
| 3    | HALLWAY             | 8' | 32W CFL ELIG 6" I.D. 7" O.D.<br>Recessed Can, 4000K         | 4              | 10W LED 6" I.D. 7" O.D. Recessed<br>Can, 4000K | 4              |                        |     |
| 4    | BUNK ROOM 1         | 8' | 32W CFL ELIG 6" I.D. 7" O.D.<br>Recessed Can, 4000K         | 2              | 10W LED 6" I.D. 7" O.D. Recessed<br>Can, 4000K | 2              |                        |     |
| 5    | BUNK ROOM 2         | 8' | 32W CFL ELIG 6" I.D. 7" O.D.<br>Recessed Can, 4000K         | 3              | 10W LED 6" I.D. 7" O.D. Recessed<br>Can, 4000K | 3              |                        |     |
| 6    | BUNK ROOM 3         | 8' | 32W CFL ELIG 6" I.D. 7" O.D.<br>Recessed Can, 4000K         | 4              | 10W LED 6" I.D. 7" O.D. Recessed<br>Can, 4000K | 4              |                        |     |
| 7    | MENS RESTROOM       | 8' | 32W CFL ELIG 6" I.D. 7" O.D.<br>Recessed Can, 4000K         | 1              | 10W LED 6" I.D. 7" O.D. Recessed<br>Can, 4000K | 1              |                        |     |
| 8    | MENS RESTROOM       | 8' | 9W LED A19 Screw-In Lamp,<br>4000K                          | 1              | No Change - Already EE                         | 1              |                        |     |
| 9    | MENS RESTROOM       | 6' | 2L2' 17W T8/ELIG 2' Wall Mount<br>Vanity, 4000K             | 1              | 2L2' 8W LED T8/LP L&B, 4000K                   | 1              |                        |     |
| 10   | WOMENS RESTROOM     | 8' | 32W CFL ELIG 6" I.D. 7" O.D.<br>Recessed Can, 4000K         | 1              | 10W LED 6" I.D. 7" O.D. Recessed<br>Can, 4000K | 1              |                        |     |
| 11   | WOMENS RESTROOM     | 8' | 9W LED A19 Screw-In Lamp,<br>4000K                          | 1              | No Change - Already EE                         | 1              |                        |     |
| 12   | WOMENS RESTROOM     | 6' | 2L2' 17W T8/ELIG 2' Wall Mount<br>Vanity, 4000K             | 1              | 2L2' 8W LED T8/LP L&B, 4000K                   | 1              |                        |     |
| 13   | FIRST FLOOR         |    |   |                |  |                |                        |     |
| 14   | STAIRWELL           | 8' | 2L4' 28W T8EE/ELEE 4' Standard<br>Surface Mount Wrap, 3500K | 1              | 40W LED 4' Standard Wall Mount<br>Strip, 4000K | 1              | Integral -<br>Bi-Level | 1   |



|    |                           |     |   |           |   |           |                     |          |
|----|---------------------------|-----|---|-----------|---|-----------|---------------------|----------|
| 15 | STAIRWELL                 | 6'  | 2L4' 28W T8EE/ELEE 4' Standard Wall Mount Wrap, 3500K               | 1         | 40W LED 4' Standard Wall Mount Strip, 4000K     | 1         | Integral - Bi-Level | 1        |
| 16 | STAIRWELL                 | 15' | 2L4' 28W T8EE/ELEE 4' Standard Surface Mount Wrap, 3500K            | 2         | 2L4' 12W LED T8/LP L&B, 4000K                   | 2         |                     |          |
| 17 | APPARATUS BAY             | 14' | 6L4' 54W T5/HO 2x4 Troffer Chain Mount Highbay, 3500K w/ Wire Guard | 10        | 117W LED 2x4 Troffer Chain Mount Highbay, 4000K | 10        |                     |          |
| 18 | APPARATUS BAY             | 15' | 2L4' 28W T8EE/ELEE 4' Standard Surface Mount Wrap, 3500K            | 2         | No Change - Low Hours                           | 2         |                     |          |
| 19 | STORAGE ROOM              | 8'  | 32W CFL ELIG 6" I.D. 7" O.D. Recessed Can, 4000K                    | 1         | 10W LED 6" I.D. 7" O.D. Recessed Can, 4000K     | 1         |                     |          |
| 20 | CONFERENCE ROOM           | 8'  | 2L2' 24W T5HO/ELIG 2X2 Volumetric Recessed Troffer, 3500K           | 9         | 2L2' 9W LED T5/EL L&B, 4000K                    | 9         |                     |          |
| 21 | RESTROOM                  | 8'  | 32W CFL ELIG 6" I.D. 7" O.D. Recessed Can, 4000K                    | 1         | 10W LED 6" I.D. 7" O.D. Recessed Can, 4000K     | 1         |                     |          |
| 22 | RESTROOM                  | 6'  | 2L2' 17W T8/ELIG 2' Wall Mount Vanity, 4000K                        | 1         | 2L2' 8W LED T8/LP L&B, 4000K                    | 1         |                     |          |
| 23 | OFFICE                    | 8'  | 2L2' 24W T5HO/ELIG 2X2 Volumetric Recessed Troffer, 3500K           | 4         | 2L2' 9W LED T5/EL L&B, 4000K                    | 4         |                     |          |
| 24 | BASEMENT                  |     |   |           |   |           |                     |          |
| 25 | GYM                       | 7'  | 2L4' 54W T5/HO 4' Narrow Surface Mount Strip, 3500K                 | 5         | 2L4' 25W LED T5/HO L&B, 4000K                   | 5         |                     |          |
| 26 | EXTERIOR                  |     |   |           |   |           |                     |          |
| 27 | APPARATUS BAY WALL PACKS  | 11' | 100W MH Full Cut-Off Wall Mount Wallpack,                           | 3         | 21W LED Full Cut-Off Wall Mount Wallpack, 5000K | 3         |                     |          |
| 28 | FRONT ENTRANCE WALL PACKS | 11' | 100W MH Full Cut-Off Wall Mount Wallpack,                           | 2         | 21W LED Full Cut-Off Wall Mount Wallpack, 5000K | 2         |                     |          |
| 29 | FRONT ENTRANCE CAN        | 8'  | 32W CFL ELIG 6" I.D. 7" O.D. Recessed Can, 4000K                    | 1         | 10W LED 6" I.D. 7" O.D. Recessed Can, 4000K     | 1         |                     |          |
| 30 | DRIVEWAY WALL PACKS       | 8'  | 100W MH Full Cut-Off Wall Mount Wallpack,                           | 2         | 21W LED Full Cut-Off Wall Mount Wallpack, 5000K | 2         | Remote PE - Stem    | 1        |
| 31 | REAR ENTRANCE             | 8'  | 32W CFL ELIG 6" I.D. 7" O.D. Recessed Can, 4000K                    | 1         | 10W LED 6" I.D. 7" O.D. Recessed Can, 4000K     | 1         |                     |          |
| 32 | REAR WALL PACKS           | 8'  | 100W MH Full Cut-Off Wall Mount Wallpack,                           | 2         | 21W LED Full Cut-Off Wall Mount Wallpack, 5000K | 2         |                     |          |
|    |                           |     | <b>TOTALS</b>   | <b>74</b> | <b>TOTALS</b>                                   | <b>74</b> |                     | <b>3</b> |

**SITE 8:**  
**DEPARTMENT OF PUBLIC WORKS**

**Programmable thermostats**

Scope of work to include:

- Remove and properly dispose of existing manual thermostats
- Provide, install, and program four (4) programmable, Wi-Fi enabled thermostats with temperature setpoints and schedules per the DPW staff

**Plug load controllers**

Provide and install a plug load controller for window AC units. Scope of work to include:

- Install plug load controller in offices and break room
- Set controllers to shut off AC units during unoccupied periods



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Date: 8/14/2018

## Town of Seekonk

### Lighting/Energy Upgrades

| Building / Facility           | Location    | Measure                    | Total Project Cost | Estimated Utility Incentives |                       | Out-of-Pocket Cost | Estimated Annual Savings |                 | Simple Payback (Years) | ROI <sup>5</sup> | Annual Average ROI <sup>5</sup> |
|-------------------------------|-------------|----------------------------|--------------------|------------------------------|-----------------------|--------------------|--------------------------|-----------------|------------------------|------------------|---------------------------------|
|                               |             |                            |                    | Upstream Rebates             | Downstream Incentives |                    | kWh                      | \$              |                        |                  |                                 |
| Town Hall                     | Seekonk, MA | Interior Lighting          | \$16,235           | \$90                         | \$856                 | \$15,289           | 7,540                    | \$1,314         | 11.6                   | 72%              | 3.59%                           |
| Public Library - New Fixtures | Seekonk, MA | Interior/Exterior Lighting | \$61,231           | \$4,125                      | \$5,270               | \$51,836           | 25,186                   | \$4,626         | 11.2                   | 78%              | 3.92%                           |
| Public Safety Complex         | Seekonk, MA | Interior/Exterior Lighting | \$64,554           | \$2,844                      | \$4,630               | \$57,080           | 56,311                   | \$5,945         | 9.6                    | 108%             | 5.42%                           |
| Banna Fire Station            | Seekonk, MA | Interior/Exterior Lighting | \$21,912           | \$700                        | \$3,400               | \$17,812           | 7,984                    | \$1,075         | 16.6                   | 21%              | 1.04%                           |
|                               |             |                            |                    |                              |                       |                    |                          |                 |                        |                  |                                 |
| <b>Totals</b>                 |             |                            | <b>\$163,932</b>   | <b>\$7,759</b>               | <b>\$14,156</b>       | <b>\$142,017</b>   | <b>97,021</b>            | <b>\$12,960</b> | <b>11.0</b>            | <b>83%</b>       | <b>4.13%</b>                    |
| <b>Totals</b>                 |             |                            | <b>\$163,932</b>   |                              |                       |                    |                          |                 |                        |                  |                                 |

### Alternates (L&B)

| Building / Facility  | Location | Measure                    | Total Project Cost | Estimated Utility Incentives |                       | Out-of-Pocket Cost | Estimated Annual Savings |                | Simple Payback (Years) | ROI <sup>5</sup> | Annual Average ROI <sup>5</sup> |
|----------------------|----------|----------------------------|--------------------|------------------------------|-----------------------|--------------------|--------------------------|----------------|------------------------|------------------|---------------------------------|
|                      |          |                            |                    | Upstream Rebates             | Downstream Incentives |                    | kWh                      | \$             |                        |                  |                                 |
| Public Library - L&B | Seekonk  | Interior/Exterior Lighting | \$30,527           | \$1,381                      | \$1,290               | \$27,856           | 26,306                   | \$4,835        | 5.8                    | 247%             | 12.36%                          |
| <b>Totals</b>        |          |                            | <b>\$30,527</b>    | <b>\$1,381</b>               | <b>\$1,290</b>        | <b>\$27,856</b>    | <b>26,306</b>            | <b>\$4,835</b> | <b>5.8</b>             | <b>247%</b>      | <b>12.36%</b>                   |

Assumes all first shift labor.

Use of containment carts is not included. If required, cost of containment carts and additional labor would be required.

Assumes secure on-site storage space will be provided by customer.

Assumes the use of customer's dumpster for disposal of project debris.



# Energy Reduction



# Comprehensive Report

**Dalton Ling**

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November 21<sup>st</sup>, 2018

Dear Bruce Alexander,

Energy Source is pleased to present you with this energy conservation analysis. We trust you will find this to be a cost-effective means to reduce your energy costs and improve the comfort throughout your facilities by optimizing your lighting and HVAC systems. Other factors to consider as you evaluate this analysis are existing equipment related disruptions and maintenance costs are eliminated or minimized until the new equipment enters its end of life – typically several years.

In the attached analysis, you will find a detailed report recommending the following:

- Condensing Boilers
- Energy Management System
- Weatherization
- Demand Control Ventilation
- High Efficiency Rooftop Unit
- Mechanical Insulation
- Variable Frequency Drives/ Motors
- Kitchen Fan Controls
- Transformers

Energy Source will secure incentives from the utility company which will substantially reduce the net cost of this project. The utility incentives reflected in this proposal are estimated and are subject to change until projects are reviewed by the utility company.

I hope you find this proposal informative. If you have any questions, please do not hesitate to contact me.

Sincerely,

Dalton Ling

Energy Source

## **Disclaimer**

This report is not for general use and is the property of Energy Source.

All savings estimates, and rebates must be considered estimated until reviewed and approved by the utility companies designated within this report.

For any questions regarding this report, please contact Dalton Ling, Energy Efficiency Consultant for Energy Source, Inc. at 508-237-3275. Any additional use of this report is prohibited unless permission is given in writing from Energy Source, Inc.

## Executive Summary

Energy Source recently conducted an energy survey at the following Seekonk buildings:

- Seekonk High School
- Hurley Middle School
- Martin Elementary School
- Aitken Elementary School
- Seekonk Town Hall
- Seekonk Public Safety Facility
- Seekonk Public Library
- Seekonk Department of Public Works

Our recommendations are known as Energy Conservation Measures which are outlined in separate write-ups.

The expected energy savings were determined based on current operating hours of equipment surveyed. Poorly performing equipment will reduce the effectiveness of employing these ECMs, and the cost to repair or replace that equipment is not covered in this estimate.

| Energy Conservation Measures     | Total Project      | Estimated Incentives | Estimated Customer | Electricity Savings |                 | Gas Savings   |                  | Total Cost Savings | Payback Period (years) |
|----------------------------------|--------------------|----------------------|--------------------|---------------------|-----------------|---------------|------------------|--------------------|------------------------|
|                                  |                    |                      |                    | kWh                 | Cost            | Therms        | Cost             |                    |                        |
| Condensing Boilers               | \$765,411          | \$63,000             | \$702,411          | 0                   | \$0             | 28,537        | \$34,245         | \$34,245           | 20.5                   |
| Energy Management System         | \$427,018          | \$69,600             | \$357,418          | 95,999              | \$17,280        | 10,761        | \$12,913         | \$30,193           | 11.8                   |
| Weatherization                   | \$448,946          | \$0                  | \$448,946          | 38,810              | \$6,986         | 16,795        | \$20,154         | \$27,140           | 16.5                   |
| Demand Control Ventilation       | \$156,593          | \$31,800             | \$124,793          | 38,896              | \$7,001         | 17,215        | \$20,658         | \$27,659           | 4.5                    |
| High Efficiency Rooftop Units    | \$111,000          | \$0                  | \$111,000          | 7,031               | \$1,266         | 163           | \$196            | \$1,462            | 75.9                   |
| Mechanical Insulation            | \$88,573           | \$8,390              | \$80,183           | 0                   | \$0             | 8,990         | \$10,788         | \$10,788           | 7.4                    |
| Variable Frequency Drives/Motors | \$54,665           | \$13,350             | \$41,315           | 58,762              | \$10,577        | 0             | \$0              | \$10,577           | 3.9                    |
| Kitchen Fan Controls             | \$46,561           | \$5,984              | \$40,577           | 7,135               | \$1,284         | 2,984         | \$3,581          | \$4,865            | 8.3                    |
| Transformers                     | \$23,031           | \$2,490              | \$20,542           | 24,895              | \$4,481         | 0             | \$0              | \$4,481            | 4.6                    |
| <b>Total</b>                     | <b>\$2,121,798</b> | <b>\$194,614</b>     | <b>\$1,927,184</b> | <b>271,528</b>      | <b>\$48,875</b> | <b>85,445</b> | <b>\$102,535</b> | <b>\$151,410</b>   | <b>12.7</b>            |

## ECM #1- Install Condensing Boilers

### Existing Conditions

This measure involves the installation of new condensing boilers. Currently, the hot water at the buildings is being supplied from non-condensing boilers and delivered to baseboards, unit ventilators, and Air Handler Units (AHUs).

### Energy Conservation Measure Details

It is recommended new condensing boilers are installed at a few buildings at Seekonk. Condensing boilers (average efficiency 92%) can obtain a much higher efficiency than the standard non-condensing boiler (average efficiency 80%). The scope of this work includes the following:

- Supply and install condensing boilers
- Removal and disposal of existing boilers and all necessary piping and components of the old system no longer required
- Installation of direct venting system for combustion air and exhaust air
- Install outside air controls for maximum efficiency
- Commissioning and startup of new boiler systems

The annual energy cost savings summary and the proposed conditions are shown below,

| Building                       | Condensing Boiler Qty | Annual Energy Savings (Therms) | Annual Energy Cost Savings |
|--------------------------------|-----------------------|--------------------------------|----------------------------|
| Seekonk High School            | 2                     | 12,668                         | \$15,201                   |
| Martin Elementary School       | 2                     | 6,954                          | \$8,344                    |
| Aitken Elementary School       | 2                     | 7,100                          | \$8,520                    |
| Seekonk Public Safety Building | 2                     | 1,816                          | \$2,179                    |
| <b>Total</b>                   |                       | <b>28,537</b>                  | <b>\$34,245</b>            |

### Implementation

The implementation of this measure requires the purchase and installation of condensing boilers. It should be noted that the boilers that are being replaced only satisfy the primary boiler load. The total material and installation cost breakdown along with incentives are shown on the table below,



| Building                       | Condensing<br>Boiler Qty | Total Project<br>Cost | Estimated<br>Utility<br>Incentives | Customer<br>Cost | Payback<br>Period<br>(years) |
|--------------------------------|--------------------------|-----------------------|------------------------------------|------------------|------------------------------|
| Seekonk High School            | 2                        | \$306,553             | \$20,000                           | \$286,553        | 18.9                         |
| Martin Elementary School       | 2                        | \$137,683             | \$15,000                           | \$122,683        | 14.7                         |
| Aitken Elementary School       | 2                        | \$209,492             | \$20,000                           | \$189,492        | 22.2                         |
| Seekonk Public Safety Building | 2                        | \$111,683             | \$8,000                            | \$103,683        | 47.6                         |
| <b>Total</b>                   |                          | <b>\$765,411</b>      | <b>\$63,000</b>                    | <b>\$702,411</b> | <b>20.5</b>                  |

Approximately \$63,000 can be obtained from utility rebates; therefore, the adjusted Customer Cost is \$702,411. The simple payback is calculated as follows:

$$\text{Payback Period} = \frac{\text{Customer Cost}}{\text{Cost Savings}} = \frac{\$702,411}{\$34,245} = 20.5 \text{ years}$$

## ECM #2- Install Energy Management System

### Existing Conditions

This measure includes installing an Energy Management Systems to refine and tighten the buildings temperature controls. Currently, the current controls for these zones are manually or have failed. The following mechanical equipment at each building will be controlled:

| MARTIN ELEMENTARY SCHOOL       |   |
|--------------------------------|---|
| Qty.                           | Mechanical Equipment                    |
| 2                              | Rooftop Units                           |
| 15                             | Unit Ventilators                        |
| 2                              | Cabinet Unit Heaters                    |
| AITKEN ELEMENTARY SCHOOL       |   |
| Qty.                           | Mechanical Equipment                    |
| 2                              | Cafeteria Heating and Ventilating Units |
| 13                             | Unit Ventilators                        |
| 3                              | Cabinet Unit Heaters                    |
| 3                              | Fan Coil Units                          |
| SEEKONK LIBRARY                |   |
| Qty.                           | Mechanical Equipment                    |
| 1                              | Rooftop Units                           |
| 9                              | Variable Air Volumes                    |
| SEEKONK TOWN HALL              |   |
| Qty.                           | Mechanical Equipment                    |
| 5                              | Air Handler Units                       |
| SEEKONK PUBLIC SAFETY FACILITY |   |
| Qty.                           | Mechanical Equipment                    |
| 10                             | Air Handler Units (with DX Coils)       |
| 2                              | Hot Water Boilers                       |

### Energy Conservation Measure Details

It is recommended that an Energy Management System will be installed or will replace the existing obsolete systems. Energy Savings will also occur from the new furnished controls to tighten and refine building temperature conditions. In conjunction with the local controllers

and their energy savings features, it will also allow for remote control, monitoring and alarming of the mechanical equipment. The full scope of work is shown below:

- Provide and install new controllers for the listed mechanical equipment above
- Provide and install a supervisory controller which will include graphics, trend data and email alerts.
- Provide and install DDC actuators to replace any pneumatic actuators
- Field commissioning, graphical interface and checkout.
- Field Training and O&M Manuals and documentation.
- Classroom Training
- Provide all necessary controls, programming and graphics to provide a fully functional control system.

The savings from this measure will result in the following control strategies:

- Temperature Setback which will reduce the facility temperature setpoint during unoccupied hour
- The pumps/fans will turn off during unoccupied hours unless temperature drops below 35°F in which they will turn on to maintain night setback temperature.
- Demand Control Ventilation (DCV) which allows the minimum required outside air to be delivered to each room during the heating/cooling months.

The table below shows the annual energy cost savings for each building:

| Location                 | Electricity Savings |                 | Natural Gas Savings |                 | Total Cost Savings |
|--------------------------|---------------------|-----------------|---------------------|-----------------|--------------------|
|                          | kWh                 | Cost            | Therms              | Cost            |                    |
| Martin Elementary School | 18,212              | \$3,278         | 1,354               | \$1,625         | \$4,903            |
| Aitken Elementary School | 30,528              | \$5,495         | 5,424               | \$6,509         | \$12,004           |
| Seekonk Library          | 21,374              | \$3,847         | 1,442               | \$1,730         | \$5,578            |
| Seekonk Town Hall        | 3,140               | \$565           | 315                 | \$378           | \$943              |
| Seekonk Public Safety    | 22,745              | \$4,094         | 2,226               | \$2,671         | \$6,765            |
| <b>Total</b>             | <b>95,999</b>       | <b>\$17,280</b> | <b>10,761</b>       | <b>\$12,913</b> | <b>\$30,193</b>    |

Annual energy savings of 95,999 kWh and 10,761 Therms can be realized from this measure; therefore, total annual cost savings of \$30,193 can be obtained.

## Implementation

The implementation of this measure requires the purchase and the installation of the necessary sensors, actuators, valves, and controllers. Programming and training is also

included in this scope of work. The total material and installation cost of the control system for each facility is shown below:

| Location                 | Total Project Cost | Estimated Utility Incentives | Customer Cost    | Payback Period (years) |
|--------------------------|--------------------|------------------------------|------------------|------------------------|
| Martin Elementary School | \$122,850          | \$18,000                     | \$104,850        | 21.4                   |
| Aitken Elementary School | \$129,675          | \$18,000                     | \$111,675        | 9.3                    |
| Seekonk Library          | \$58,305           | \$9,600                      | \$48,705         | 8.7                    |
| Seekonk Town Hall        | \$35,588           | \$6,000                      | \$29,588         | 31.4                   |
| Seekonk Public Safety    | \$80,600           | \$18,000                     | \$62,600         | 9.3                    |
| <b>Total</b>             | <b>\$427,018</b>   | <b>\$69,600</b>              | <b>\$357,418</b> | <b>11.8</b>            |

It is estimated \$69,600 can be obtained in incentives; therefore, the customer cost for this measure is \$357,418. The simple payback is calculated as follows:

$$\text{Payback Period} = \frac{\text{Customer Cost}}{\text{Cost Savings}} = \frac{\$357,418}{\$30,193} = 11.8 \text{ years}$$

## ECM #3- Building Weatherization

### Existing Condition

This measure involves weatherizing each municipal building. Below is a description of each weatherization measure that is being proposed,

- **Caulking** – there is no sealant in place around window frames allowing air to infiltrate and exfiltrate the building. This movement of air causes drafts and uncomfortable building occupants that require higher temperatures to feel comfortable.
- **Door Weather Stripping** – deteriorated weather stripping materials, ineffective weather stripping installation and daylight showing at the perimeter of door systems create direct pathways for unwanted infiltration/ exfiltration.
- **Overhang Air Sealing** – overhangs are roofs, floor systems or areas above entryways that extend beyond the plane of the exterior wall system. These areas of construction are often misunderstood by builders and the cavity that extends beyond the plane of the exterior wall system is often incorrectly “connected” to the interior heated spaces of the building. Overhangs that are not properly sealed at the plane of the surface that should separate the conditioned space from the outdoors lead to excessive air leakage and heat loss at these vulnerable areas in the building envelope.
- **Overhead Door Weather Stripping** - remove existing weather stripping and replace with new commercial grade weather stripping to create a full air seal around the door. With low grade, none, or deteriorating materials in place overhead and roll-up doors are a major air leakage source in any building with one these systems.
- **Roof Insulation** –Attic spaces should be insulated at the underside of their respective roofs to protect the contents of the storage items better, as well as the pipes that are present in both attic spaces. Roof insulation is also crucial for controlling conductive heat loss in a building. After air gaps are sealed and convective air loss is reduced the biggest remaining form of heat loss becomes conduction. No insulation on a roof will result in excessive energy loss due to the lack of a properly insulated thermal barrier.
- **Roof-Wall Intersection Air Sealing** – the roof-wall intersection is regularly an area that allows unwanted air leakage through the building shell. Exterior flashing and finish details at this area are not constructed to stop air leakage (exterior flashings are for water control, not air control); unsealed exterior flashing details combine with interior gaps in the framing between the roof and wall assembly to allow infiltration/ exfiltration.
- **Wall Air Sealing-** – vinyl backed fiberglass covering the walls above the drop ceiling does not provide sufficient amount of insulation at the thermal envelope of the building. Rigid Thermax insulation is proposed to be installed on top of metal framing and fiberglass insulation in order to eliminate air leakage and reduce conductive heat loss. The spray foam insulation will be applied after installing the Thermax wall insulation; the result will be a continuous air barrier throughout the building improving the now weak thermal envelope at the top of the building.

## Energy Conservation Measure Details

By implementing this measure, the reduction in heat loss/heat gain will occur which will lead to energy savings. The scope of work includes the following:

- Caulking
- Door Weather Stripping
- Overhang Air Sealing
- Overhead Door Weather Stripping
- Roof Air Barrier Retrofit
- Roof Insulation
- Roof-Wall Intersection Air Sealing
- Wall Air Sealing

An overall project summary is shown below,

| Weatherization Measure             | Seekonk High School | Hurley Middle School | Martin Elementary School | Aitken Elementary School | Seekonk Town Hall | Seekonk Public Safety Facility | Seekonk Public Library | Seekonk Department Public Works | Total Quantity |       |
|------------------------------------|---------------------|----------------------|--------------------------|--------------------------|-------------------|--------------------------------|------------------------|---------------------------------|----------------|-------|
| Caulking                           |                     |                      |                          |                          |                   | 13                             |                        |                                 | 13             | LF    |
| Caulking                           |                     |                      |                          |                          |                   |                                |                        | 4                               | 4              | Units |
| Door- Install Jamb Spacer          | 1                   |                      |                          |                          |                   |                                |                        |                                 | 1              | Units |
| Single Door Weather Stripping      | 5                   | 8                    | 14                       | 5                        | 6                 | 7                              | 3                      | 4                               | 52             | Units |
| Double Door Weather Stripping      | 15                  | 13                   | 9                        | 9                        | 1                 |                                | 1                      |                                 | 48             | Units |
| Overhang Air Sealing               | 22                  |                      | 16                       | 72                       |                   |                                |                        |                                 | 110            | LF    |
| Overhang Air Sealing               | 200                 |                      |                          |                          |                   |                                |                        |                                 | 200            | SF    |
| Overhead Door Weather Stripping    |                     |                      |                          |                          |                   | 8                              |                        | 5                               | 13             | Units |
| Roof Air Barrier Retrofit          |                     |                      |                          |                          |                   | 5646                           |                        |                                 | 5,646          | SF    |
| Roof Insulation                    |                     |                      |                          |                          | 8480              |                                |                        |                                 | 8,480          | SF    |
| Roof-Wall Intersection Air Sealing | 1,871               | 340                  | 1,306                    | 1,111                    |                   |                                | 450                    | 244                             | 5,322          | LF    |
| Roof-Wall Intersection Air Sealing |                     |                      |                          |                          |                   |                                |                        | 50                              | 50             | SF    |
| Wall Air Sealing                   |                     |                      |                          |                          |                   |                                | 2,025                  |                                 | 2,025          | SF    |

| Building                        | Electricity Savings |                | Natural Gas Savings |                 | Total Cost Savings |
|---------------------------------|---------------------|----------------|---------------------|-----------------|--------------------|
|                                 | kWh                 | Cost           | Therms              | Cost            |                    |
| Seekonk High School             | 9,120               | 1,642          | 4,150               | \$4,980         | \$6,622            |
| Hurley Middle School            | 2,511               | 452            | 1,143               | \$1,372         | \$1,824            |
| Martin Elementary School        | 6,227               | 1,121          | 2,834               | \$3,401         | \$4,522            |
| Aitken Elementary School        | 4,460               | 803            | 2,030               | \$2,436         | \$3,239            |
| Seekonk Town Hall               | 7,227               | 1,301          | 2,499               | \$2,999         | \$4,300            |
| Seekonk Public Safety Facility  | 3,332               | 600            | 1,439               | \$1,727         | \$2,327            |
| Seekonk Public Library          | 4,552               | 819            | 2,072               | \$2,486         | \$3,305            |
| Seekonk Department Public Works | 1,381               | 249            | 628                 | \$754           | \$1,003            |
| <b>Total</b>                    | <b>38,810</b>       | <b>\$6,986</b> | <b>16,795</b>       | <b>\$20,154</b> | <b>\$27,140</b>    |

By implementing this measure approximately 38,810 kWh and 16,795 Therms can be realized; therefore, a total annual cost savings of \$27,142 was estimated.

## Implementation

The total material and installation cost for weatherizing each town building is shown below,

| Building                        | Total Project Cost | Payback Period (years) |
|---------------------------------|--------------------|------------------------|
| Seekonk High School             | \$46,071           | 7                      |
| Hurley Middle School            | \$11,665           | 6.4                    |
| Martin Elementary School        | \$45,307           | 10                     |
| Aitken Elementary School        | \$22,704           | 7                      |
| Seekonk Town Hall               | \$195,607          | 45.5                   |
| Seekonk Public Safety Facility  | \$89,466           | 38.4                   |
| Seekonk Public Library          | \$29,124           | 8.8                    |
| Seekonk Department Public Works | \$9,002            | 9                      |
| <b>Total</b>                    | <b>\$448,946</b>   | <b>16.5</b>            |

The estimated customer cost is \$448,946. The simple payback is calculated as follows:

$$\text{Payback Period} = \frac{\text{Customer Cost}}{\text{Cost Savings}} = \frac{\$448,946}{\$27,140} = 16.5 \text{ years}$$

## ECM #4- Install Demand Control Ventilation

### Existing Conditions

This measure includes the installation of Demand Control Ventilation to refine and tighten the buildings temperature controls. Each of the buildings have several Air Handler Units and/or Rooftop Units that deliver fresh air into the larger common spaces. Currently, these areas use a standard thermostat to regulate room temperature and the outside air damper is fixed at a certain position. The unit fans will run on full load when the space is occupied. The specifications for the common area heating/cooling capacities is shown below:

| SEEKONK HIGH SCHOOL      |                               |
|--------------------------|-------------------------------|
| Qty.                     | Mechanical Equipment          |
| 4                        | Rooftop Units                 |
| 2                        | Air Handling Units            |
| 49                       | Unit Ventilators              |
| MARTIN ELEMENTARY SCHOOL |                               |
| Qty.                     | Mechanical Equipment          |
| 2                        | Rooftop Units                 |
| 2                        | Heating and Ventilating Units |
| 2                        | Air Handling Units            |
| 21                       | Unit Ventilators              |

### Energy Conservation Measure Details

It is recommended that the current Energy Management System at these current schools are expanded or an Energy Management System is installed to include Demand Control Ventilation. This will also include furnishing and installing duct CO<sup>2</sup> sensors for any Air Handler Units/ Rooftop Units. The scope of work includes the following:

- Each HVAC equipment will include a non-proprietary field controller (if applicable)
- Furnish and Install a CO<sup>2</sup> Sensor for each Air Handling Units or Rooftop Units.

Annual energy savings of 38,896 kWh and 17,215 Therms can be realized from this measure; therefore, total cost savings of \$27,659 are estimated.

### Implementation

The implementation of this measure requires the purchase and the installation of the necessary sensors, and controllers. Programming and training is also included in this scope of work. The total material and installation cost of the control system for this measure is



approximately \$156,593. Utility incentives of \$31,800 are estimated to be obtained as well; therefore, the adjusted customer cost is \$124,793. The simple payback is calculated as follows:

$$\text{Payback Period} = \frac{\text{Customer Cost}}{\text{Cost Savings}} = \frac{\$124,793}{\$27,659} = 4.5 \text{ years}$$

## ECM #5- Install High Efficiency Rooftop Units

### Existing Conditions

This measure involves the installation of a new 40 Ton high efficiency package Rooftop Unit. Currently, the Trane DX natural gas direct fired rooftop unit supplies nine Variable Air Volume Zones (VAVs) with standalone electronic controls.

### Energy Conservation Measure Details

It is recommended new high efficiency Rooftop Unit is installed at the Seekonk Library which can obtain a much higher efficiency than the standard RTUs. The current unit has also been there for over 25 years; which was resulted in efficiency losses over time. The scope of this work includes the following:

- Supply and install new high efficiency 40 Ton Rooftop Unit
  - Equipped with Variable Frequency Drive
  - BACnet enabled
- Removal and disposal of existing RTUs
- Reconnect into current gas line and electrical as well
- Utilizing existing curbs of existing Rooftop Units

Annual energy savings of 7,031 kWh and 163 Therms can be realized from this measure; therefore, total annual cost savings of \$1,462 can be obtained.

### Implementation

The implementation of this measure requires the purchase and installation of a 40 Ton Rooftop Unit. The total implementation cost of this project is \$111,000.

$$\text{Payback Period} = \frac{\text{Customer Cost}}{\text{Cost Savings}} = \frac{\$111,000}{\$1,462} = 75.9 \text{ years}$$

## ECM #6- Mechanical Insulation

This measure involves the insulation of pipes, valve & fittings, and tanks. Below is a description of each insulation measure that is being proposed,

- **Pipe Insulation** – un-insulated pipes in the heating systems are leading to unnecessary distribution losses and wasted energy. There is a mix of uninsulated steam, condensate, and heating hot water pipes throughout the respective boiler rooms assessed in Haverhill, MA.
- **Valve & Fitting Insulation** – valves and fittings are difficult components of a mechanical system to insulate and as a result are frequently left un-insulated. These un-insulated or poorly insulated components have the same temperature fluids passing through them as the pipes that are more likely to be insulated; un-insulated components of the distribution system lead to unnecessary distribution losses and wasted energy.
- **Tank Insulation** – tanks are difficult components of a mechanical system to insulate and as a result are frequently left un-insulated. Un-insulated or poorly insulated tanks or equipment have the same temperature fluids passing through them as the pipes that are more likely to be insulated; un-insulated components of the distribution system lead to unnecessary distribution losses and wasted energy.

### Energy Conservation Measure Details

It is recommended that the bare tank, and valve is insulated with cellular insulation. By implementing this measure, the reduction in heat loss will accrue, which will lead to energy savings. The scope of work includes the following:

- Insulation of pipes, valves, fittings and tanks to meet the insulation requirements of the fluid temperature in the pipe
- Utilize/install pipe covering/jacket to protect the insulation material as required in the work area.

An overall project summary is shown below,

| Task                                | Seekonk High School | Hurley Middle School | Martin Elementary School | Aitken Elementary School | Seekonk Public Safety | Seekonk Department Public Works | Total Quantity |
|-------------------------------------|---------------------|----------------------|--------------------------|--------------------------|-----------------------|---------------------------------|----------------|
| 3-Way Valve Insulation (Units)      | 1                   |                      |                          |                          |                       |                                 | 1              |
| Air Scoop Insulation (Units)        |                     |                      |                          |                          |                       | 1                               | 1              |
| Ball Valve Insulation (Units)       |                     |                      |                          | 4                        |                       |                                 | 4              |
| Bonnet Insulation (Units)           |                     | 15                   | 2                        |                          |                       |                                 | 17             |
| Butterfly Valve Insulation (Units)  | 24                  | 10                   | 8                        | 10                       | 5                     |                                 | 57             |
| Check Valve Insulation (Units)      |                     |                      | 4                        | 12                       | 4                     |                                 | 20             |
| Control Valve Insulation (Units)    | 1                   | 1                    |                          | 1                        | 1                     |                                 | 4              |
| End Cap Insulation (Units)          | 4                   | 1                    |                          | 2                        | 1                     |                                 | 8              |
| Flange Insulation (Units)           | 29                  | 33                   | 20                       | 39                       | 9                     |                                 | 130            |
| Flex Fitting Insulation (UT)        |                     | 8                    |                          | 8                        | 6                     |                                 | 22             |
| Flo-Check Insulation (UT)           | 14                  | 4                    |                          |                          |                       |                                 | 18             |
| Gate Valve Insulation (Units)       |                     | 1                    |                          | 8                        |                       |                                 | 9              |
| Pipe Fitting Insulation (Units)     |                     | 73                   |                          | 6                        | 1                     | 35                              | 115            |
| Pump Insulation (Units)             | 7                   | 4                    | 5                        | 7                        | 4                     | 3                               | 30             |
| Steam Trap Insulation (Units)       |                     | 8                    |                          |                          |                       |                                 | 8              |
| Straight Pipe Insulation (LF)       | 7                   | 356                  | 4                        | 9                        | 14                    | 200                             | 590            |
| Strainer Insulation (Units)         | 4                   | 7                    | 2                        |                          | 2                     |                                 | 15             |
| Suction Diffuser Insulation (Units) | 3                   | 4                    | 2                        | 2                        |                       |                                 | 11             |
| Tank Insulation (Units)             |                     | 5                    | 1                        | 1                        |                       |                                 | 7              |

| Building                           | Natural Gas Savings |                 |
|------------------------------------|---------------------|-----------------|
|                                    | Therms              | Cost            |
| Seekonk High School                | 2,230               | \$2,676         |
| Hurley Middle School               | 3,750               | \$4,500         |
| Martin Elementary School           | 1,010               | \$1,212         |
| Aitken Elementary School           | 1,400               | \$1,680         |
| Seekonk Public Safety Facility     | 320                 | \$384           |
| Seekonk Department of Public Works | 280                 | \$336           |
| <b>Total</b>                       | <b>8,990</b>        | <b>\$10,788</b> |

By implementing this measure approximately 8,990 Therms can be realized and annual total cost savings of \$10,788.

## Implementation

The implementation of this measure requires the insulation of a pipes, valves, fittings and tanks. The total material and labor cost of each building is shown below:

| Building                           | Total Project Cost | Estimated Utility Incentives | Customer Cost   | Payback Period (years) |
|------------------------------------|--------------------|------------------------------|-----------------|------------------------|
| Seekonk High School                | \$12,184           | \$2,230                      | \$9,954         | 3.7                    |
| Hurley Middle School               | \$39,467           | \$3,750                      | \$35,717        | 7.9                    |
| Martin Elementary School           | \$8,667            | \$1,010                      | \$7,657         | 6.3                    |
| Aitken Elementary School           | \$13,670           | \$1,400                      | \$12,270        | 7.3                    |
| Seekonk Public Safety Facility     | \$4,689            | \$0                          | \$4,689         | 12.2                   |
| Seekonk Department of Public Works | \$9,896            | \$0                          | \$9,896         | 29.5                   |
| <b>Total</b>                       | <b>\$88,573</b>    | <b>\$8,390</b>               | <b>\$80,183</b> | <b>7.4</b>             |

Based on the estimated utility incentives of \$8,390, it is estimated the customer cost is approximately \$80,183. The simple payback is calculated as follows:

$$\text{Payback Period} = \frac{\text{Customer Cost}}{\text{Cost Savings}} = \frac{\$80,183}{\$10,788} = 7.4 \text{ years}$$

## ECM #7- Install Variable Frequency Drives/Motors

### Existing Conditions

This measure involves the installation of Variable Frequency Drives (VFDs) and motors. The circulators are being used to supply heating and cooling coils throughout the Seekonk facilities. When adequate flow is met, the remaining water runs through a bypass loop which recirculates the water; therefore, the circulating pumps operate at a constant speed regardless of the load conditions needed for each hot/chilled water coil. If the hot/chilled water systems are constant loop system; then the loops will be run off differential temperature.

### Energy Conservation Measure Details

It is recommended Variable Frequency Drives (VFDs) and high efficiency motors (if applicable) are installed on each pump/fan and controlled via differential pressure, and temperature, allowing for electrical savings. The specifications for each pump/fan system is shown below:

| Building                       | VFD Application | Quantity | Size (HP) | Controlling Parameter | Install New Motor? |
|--------------------------------|-----------------|----------|-----------|-----------------------|--------------------|
| Seekonk High School            | Hot Water Pumps | 2        | 3         | Diff. Temp            | No                 |
|                                | Hot Water Pumps | 2        | 1         | Diff. Temp            | No                 |
| Aitken Elementary              | Hot Water Pumps | 1        | 10        | Diff. Temp            | No                 |
|                                | Hot Water Pumps | 1        | 10        | Diff. Temp            | Yes                |
| Seekonk Public Library         | Supply Fan      | 1        | 20        | Diff. Pressure        | Yes                |
| Seekonk Public Safety Facility | Hot Water Pumps | 2        | 0.75      | Diff. Temp            | Yes                |

The scope of this work includes the following:

- Supply and install nine Variable Frequency Drives (VFDs) in place of the existing motor starters
- Remove and replace four existing motors with new NEMA premium motors
- Start-up and testing of the new VFDs, and motors
- Integrate into Energy Management System (if applicable)
- Warranty for one year

The table below shows the annual energy cost savings for each building:

| Building                       | VFD Application | Quantity | Size (HP) | Controlling Parameter | Annual Energy Savings |                 |
|--------------------------------|-----------------|----------|-----------|-----------------------|-----------------------|-----------------|
|                                |                 |          |           |                       | kWh                   | Cost            |
| Seekonk High School            | Hot Water Pumps | 2        | 3         | Diff. Temp            | 8,862                 | \$1,595         |
|                                | Hot Water Pumps | 2        | 1         | Diff. Temp            |                       |                 |
| Aitken Elementary              | Hot Water Pumps | 1        | 10        | Diff. Temp            | 22,113                | \$3,980         |
|                                | Hot Water Pumps | 1        | 10        | Diff. Temp            |                       |                 |
| Seekonk Public Library         | Supply Fan      | 1        | 20        | Diff. Pressure        | 25,578                | \$4,604         |
| Seekonk Public Safety Facility | Hot Water Pumps | 2        | 0.75      | Diff. Temp            | 2,209                 | \$398           |
| <b>Total</b>                   |                 | <b>9</b> |           |                       | <b>58,762</b>         | <b>\$10,577</b> |

Annual energy savings of 58,762 kWh can be realized from this measure; therefore, total annual cost savings of \$10,577 can be obtained.

## Implementation

The implementation of this measure requires the purchase and installation of nine VFDs and four motors controlled by differential pressures or temperature. The implementation also requires a controller, pressure/temperature sensors and electrical wiring. The total material and installation cost of the drives, motors and control system for this measure is \$54,665. Approximately \$13,350 can be obtained from rebates by the utility company; therefore, the adjusted customer cost is \$41,315. The simple payback is calculated as follows:

$$\text{Payback Period} = \frac{\text{Customer Cost}}{\text{Cost Savings}} = \frac{\$41,315}{\$10,577} = 3.9 \text{ years}$$

## ECM #8- Install Kitchen Fan Controls

### Existing Conditions

This measure involves the install of kitchen hood systems to automatically control the kitchen ventilation and exhaust. Currently, the kitchen exhaust and the make-up air units stay on through the day even when there is no activity in the kitchen. The specifications for the fans that will be controlled for each building are shown below:

| Building                 | Exhaust Fans (hp) | Total Fan Capacity (hp) |
|--------------------------|-------------------|-------------------------|
| Martin Elementary School | 2                 | 2                       |
| Aitken Elementary School | 6                 | 6                       |
| <b>Total</b>             |                   | <b>8</b>                |

### Energy Conservation Measure Details

It is recommended a kitchen hood control system is installed on the ventilation and exhaust fans and controlled based on temperature. When the kitchen ovens and grills are turned on and the kitchen is active; the exhaust temperature will increase, and this will allow the Variable Frequency Drives to turn on to satisfy exhaust conditions. When the kitchen equipment gets turned off, the VFDs will ramp down which will reduce the schools' energy consumption.

The scope of this work includes the following:

- Supply and install Variable Frequency Drives (VFDs) in place of the existing motor starters for kitchen exhaust and ventilation fans
- Install temperature/optic sensors in the kitchen exhaust ductwork
- Start-up and testing of the new VFDs
- Warranty for one year

The table below shows the annual energy cost savings for each building:

| Building                 | Electricity Savings |                | Natural Gas Savings |                | Total Cost Savings |
|--------------------------|---------------------|----------------|---------------------|----------------|--------------------|
|                          | kWh                 | Cost           | Therms              | Cost           |                    |
| Martin Elementary School | 2,167               | \$390          | 1,240               | \$1,488        | \$1,878            |
| Aitken Elementary School | 4,968               | \$894          | 1,744               | \$2,093        | \$2,987            |
| <b>Total</b>             | <b>7,135</b>        | <b>\$1,284</b> | <b>2,984</b>        | <b>\$3,581</b> | <b>\$4,865</b>     |



Annual energy savings of 7,135 kWh and 2,984 Therms can be realized from this measure; therefore, total cost savings of \$4,865 are estimated.

## Implementation

The implementation of this measure requires the purchase and installation of VFDs controlled by differential temperature. The implementation also requires a controller, temperature sensors and electrical wiring. The VFDs will also need to be programmed. The total material and installation cost for each site is show below:

| Building                 | Total Project Cost | Estimated Utility Incentives | Customer Cost   | Payback Period (years) |
|--------------------------|--------------------|------------------------------|-----------------|------------------------|
| Martin Elementary School | \$16,531           | \$2,240                      | \$14,291        | 7.6                    |
| Aitken Elementary School | \$30,030           | \$3,744                      | \$26,286        | 8.8                    |
| <b>Total</b>             | <b>\$46,561</b>    | <b>\$5,984</b>               | <b>\$40,577</b> | <b>8.3</b>             |

Approximately \$5,984 can be obtained from rebates by the utility company; therefore, the adjusted customer cost is \$40,577. The simple payback is calculated as follows:

$$\text{Payback Period} = \frac{\text{Customer Cost}}{\text{Cost Savings}} = \frac{\$40,577}{\$4,865} = 8.3 \text{ years}$$

## **ECM #9- Install High Efficiency Transformers**

### **Existing Condition**

Seekonk High School use low voltage transformers to step voltage up or down. Transformer process is not 100% efficient; therefore, there are two different types of losses associated with the process; core losses and winding losses. Transformer efficiency has improved over time and transformers are have a higher efficiency.

### **Energy Conservation Measure Details**

It is recommended that two standard efficiency transformers are replaced with Rex High Efficiency Transformers. By implementing this measure, the overall energy consumption of the transformers will decrease which will lead to annual energy cost savings. The scope of work includes the following:

- Furnish and install two Rex High Efficiency Transformers
- Removal of existing Transformers

Annual energy savings of 24,895 kWh can be realized from this measure; therefore, total cost savings of \$4,481 can be obtained.

### **Implementation**

The implementation of this measure requires the purchase and the installation of two Rex High Efficiency Transformers. Utility incentives of \$2,490 are estimated to be obtained as well; therefore, the adjusted customer cost is \$20,542. The simple payback is calculated as follows:

$$\text{Payback Period} = \frac{\text{Customer Cost}}{\text{Cost Savings}} = \frac{\$20,542}{\$4,481} = 4.6 \text{ years}$$

## **Installation and Warranty Information**

If you decide to proceed with this proposal, Energy Source will be responsible for the following tasks:

- Develop final equipment specifications and equipment layout
- Processing and filing application for utility incentives
- Material ordering and receiving
- Dismantling and removing existing systems from premises
- Construction
- Final walk-through with you
- Development and delivery of comprehensive project completion manual.

### **Installation**

All installation staff will agree to submit to a CORI check before proceeding with project.

The removal and disposal of asbestos and toxic materials if present are the owner's responsibility and should be determined before proceeding with the project.

### **Warranty**

Included with your project is a one-year warranty on all labor and materials provided by Energy Source. At the end of the first-year materials remain covered by standard warranties provided by their manufacturers. Warranty periods begin when the installation is completed. The owner has a one-month period following the completion of the installation to accept or reject work performed by Energy Source, after which time we will assume that the work has been accepted.

Due to the fluctuation in commodities this proposal is valid for a period of 30 days from the date shown at the top of this proposal, after which time we will be happy to provide an adjusted quote if necessary.





| Town of Seekonk<br>Inventory of Eligible Active Street Lights for LED Conversion as of October 19, 2017 |             |               |             |             |              |                |                                   |                |              |                                |             |           |              |              |            |   |                   |               |
|---|-------------|---------------|-------------|-------------|--------------|----------------|-----------------------------------|----------------|--------------|--------------------------------|-------------|-----------|--------------|--------------|------------|---|-------------------|---------------|
| Pole No   | Pole Suffix | Light Seq. No | Street Name | Source Type | Pole Use     | Component Type | Bill Print and Tariff Description | Billing Status | Lamp Wattage | Customer LED Choice By Wattage | Account No. | GIS ID No | X-Coordinate | Y-Coordinate | Rate Class | Customer Name                           | Ngrid LOCATION ID | Ngrid Line No |
| 0377  | 000         | 2             | ANTHONY ST  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349341  | 805863       | 4632890      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70235             | 6041          |
| 0385  | 000         | 2             | ANTHONY ST  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349351  | 805960       | 4633127      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70237             | 6041          |
| 0387  | 000         | 2             | ANTHONY ST  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349356  | 805959       | 4633219      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70238             | 6041          |
| 0389  | 000         | 2             | ANTHONY ST  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349361  | 805963       | 4633293      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70239             | 6041          |
| 0391  | 000         | 2             | ANTHONY ST  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349366  | 805978       | 4633361      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70240             | 6041          |
| 0402  | 000         | 2             | ANTHONY ST  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349371  | 806125       | 4633777      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70241             | 6041          |
| 0402  | 001         | 2             | ANTHONY ST  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 250W                  | Active         | 250          | 140                            | 6543091001  | 56349376  | 806119       | 4633784      | S-1        | SEEKONK SCHOOL DEPARTMENT MARTIN        | 70242             | 6041          |
| 0403  | 000         | 2             | ANTHONY ST  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349381  | 806148       | 4633807      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70243             | 6041          |
| 0483  | 000         | 2             | ANTHONY ST  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349386  | 806198       | 4633829      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70244             | 6041          |
| 0488  | 000         | 2             | ANTHONY ST  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349391  | 806385       | 4633896      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70245             | 6041          |
| 1401  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349396  | 803951       | 4638831      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70246             | 6061          |
| 1403  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349401  | 804016       | 4638792      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70247             | 6061          |
| 1405  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349406  | 804074       | 4638755      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70248             | 6061          |
| 1407  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349411  | 804131       | 4638716      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70249             | 6061          |
| 1409  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349416  | 804190       | 4638674      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70250             | 6061          |
| 1411  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349421  | 804249       | 4638629      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70251             | 6061          |
| 1414  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349426  | 804346       | 4638548      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70252             | 6061          |
| 1418  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349431  | 804461       | 4638452      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70253             | 6061          |
| 1420  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349436  | 804489       | 4638394      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70254             | 6061          |
| 1421  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349441  | 804518       | 4638323      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70255             | 6061          |
| 1424  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349446  | 804559       | 4638222      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70256             | 6061          |
| 1428  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349451  | 804620       | 4638069      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70257             | 6061          |
| 1430  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 250W                  | Active         | 250          | 140                            | 7788990006  | 56349456  | 804644       | 4638015      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70258             | 6061          |
| 1436  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349461  | 804728       | 4637767      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70259             | 6061          |
| 1440  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349466  | 804767       | 4637626      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70260             | 6061          |
| 1442  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349471  | 804791       | 4637542      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70261             | 6061          |
| 1446  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349476  | 804832       | 4637391      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70262             | 6061          |
| 1448  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349481  | 804848       | 4637332      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70263             | 6061          |
| 1453  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 50W                   | Active         | 50           | 20                             | 7788990006  | 56349496  | 804907       | 4637170      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70266             | 6061          |
| 1461  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 100W                  | Active         | 100          | 30                             | 7788990006  | 56349501  | 804867       | 4636888      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70267             | 6061          |
| 1466  | 000         | 2             | ARCADE AVE  | Overhead    | Distribution | Luminaire      | LUM HPS RWY 250W                  | Active         | 250          | 140                            | 7788990006  | 56349506  | 804765       | 4636746      | S-1        | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70268             | 6061          |

|      |     |   |               |          |              |           |                  |        |     |     |            |          |        |         |     |  |       |      |
|------|-----|---|---------------|----------|--------------|-----------|------------------|--------|-----|-----|------------|----------|--------|---------|-----|--|-------|------|
| 1469 | 000 | 2 | ARCADE AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56349516 | 804740 | 4636660 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70270 | 6061 |
| 1513 | 000 | 2 | ARCADE AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56349521 | 804387 | 4635828 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70271 | 6061 |
| 1514 | 000 | 2 | ARCADE AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56349526 | 804397 | 4635863 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70272 | 6061 |
| 1518 | 000 | 2 | ARCADE AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349546 | 804493 | 4636030 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70276 | 6061 |
| 1525 | 000 | 2 | ARCADE AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56349551 | 804645 | 4636308 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70277 | 6061 |
| 1527 | 000 | 2 | ARCADE AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349556 | 804686 | 4636390 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70278 | 6061 |
| 1530 | 000 | 2 | ARCADE AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56349561 | 804735 | 4636511 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70279 | 6061 |
| 4912 | 000 | 2 | ARROWHEAD DR  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349566 | 805966 | 4635659 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70280 | 6071 |
| 4914 | 000 | 2 | ARROWHEAD DR  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349571 | 805984 | 4635570 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70281 | 6071 |
| 4916 | 000 | 2 | ARROWHEAD DR  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349576 | 806001 | 4635473 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70282 | 6071 |
| 4122 | 000 | 2 | BARBERRY DR   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349581 | 804537 | 4641092 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70284 | 6141 |
| 4314 | 000 | 3 | BEAR HILL RD  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349586 | 804771 | 4641073 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70285 | 6161 |
| 4316 | 000 | 2 | BEAR HILL RD  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349591 | 804801 | 4641162 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70286 | 6161 |
| 2907 | 000 | 2 | BLOOMFIELD ST | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349596 | 804929 | 4644140 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70287 | 6231 |
| 2915 | 000 | 2 | BLOOMFIELD ST | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349601 | 805053 | 4644417 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70288 | 6231 |
| 3432 | 000 | 2 | BORDER AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349606 | 804871 | 4645237 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70289 | 6241 |
| 3330 | 001 | 2 | BRADLEY ST    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349617 | 807026 | 4635508 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70291 | 6261 |
| 3332 | 000 | 2 | BRADLEY ST    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349622 | 807039 | 4635334 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70292 | 6261 |
| 3335 | 050 | 2 | BRADLEY ST    | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56349627 | 807019 | 4635148 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70293 | 6261 |
| 3338 | 000 | 2 | BRADLEY ST    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349632 | 807098 | 4634925 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70294 | 6261 |
| 2484 | 000 | 2 | BROOK ST      | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56349637 | 804229 | 4642128 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70295 | 6301 |
| 2485 | 000 | 2 | BROOK ST      | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56349642 | 804187 | 4642129 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70296 | 6301 |
| 2487 | 000 | 2 | BROOK ST      | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56349647 | 804128 | 4642129 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70297 | 6301 |
| 2489 | 000 | 2 | BROOK ST      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349652 | 804047 | 4642154 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70298 | 6301 |
| 2895 | 000 | 2 | BROOKFIELD ST | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349657 | 804823 | 4644421 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70299 | 6311 |
| 2404 | 000 | 2 | BROWN AVE     | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56349667 | 804756 | 4641369 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70301 | 6331 |
| 2428 | 000 | 2 | BROWN AVE     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349677 | 805127 | 4642197 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70303 | 6331 |
| 2438 | 000 | 2 | BROWN AVE     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349682 | 805311 | 4642536 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70304 | 6331 |
| 2441 | 000 | 2 | BROWN AVE     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349687 | 805360 | 4642643 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70305 | 6331 |
| 2451 | 000 | 2 | BROWN AVE     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349692 | 805509 | 4642945 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70306 | 6331 |
| 2456 | 000 | 2 | BROWN AVE     | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56349697 | 805601 | 4643102 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70307 | 6331 |
| 0017 | 000 | 2 | CENTRAL AVE   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349753 | 803734 | 4644036 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70318 | 6401 |
| 0034 | 000 | 2 | CENTRAL AVE   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349758 | 803787 | 4644027 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70319 | 6401 |
| 1968 | 000 | 2 | CENTRAL AVE   | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56349763 | 804261 | 4643943 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70320 | 6401 |

|      |     |   |                |          |              |           |                  |        |     |     |            |          |        |         |     |  |       |      |
|------|-----|---|----------------|----------|--------------|-----------|------------------|--------|-----|-----|------------|----------|--------|---------|-----|--|-------|------|
| 1976 | 000 | 2 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56349768 | 804018 | 4643986 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70322 | 6401 |
| 1978 | 000 | 2 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349773 | 803949 | 4643995 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70323 | 6401 |
| 1983 | 000 | 2 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349778 | 803792 | 4644023 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70324 | 6401 |
| 1987 | 000 | 2 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56349783 | 803686 | 4644046 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70325 | 6401 |
| 2173 | 000 | 2 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56349793 | 804325 | 4644001 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70327 | 6401 |
| 2174 | 000 | 2 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56349798 | 804333 | 4644014 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70328 | 6401 |
| 2176 | 000 | 3 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349803 | 804381 | 4644074 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70329 | 6401 |
| 2182 | 000 | 2 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349808 | 804485 | 4644221 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70330 | 6401 |
| 2185 | 000 | 2 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349813 | 804534 | 4644296 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70331 | 6401 |
| 2187 | 000 | 2 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349818 | 804575 | 4644357 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70332 | 6401 |
| 2192 | 000 | 2 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349823 | 804679 | 4644509 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70333 | 6401 |
| 2197 | 000 | 2 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349828 | 804796 | 4644651 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70334 | 6401 |
| 2199 | 000 | 2 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349833 | 804836 | 4644701 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70335 | 6401 |
| 2201 | 000 | 2 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56349838 | 804857 | 4644743 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70336 | 6401 |
| 2209 | 000 | 2 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349843 | 804967 | 4644967 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70337 | 6401 |
| 2211 | 000 | 2 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 400W | Active | 400 | 140 | 7788990006 | 56349848 | 805001 | 4645038 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70338 | 6401 |
| 2214 | 000 | 2 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349853 | 805027 | 4645104 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70339 | 6401 |
| 2216 | 000 | 2 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56349858 | 805055 | 4645165 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70340 | 6401 |
| 2219 | 000 | 2 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 0        |        |         | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70343 | 6401 |
| 2281 | 000 | 2 | CENTRAL AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56349873 | 804266 | 4643976 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70344 | 6401 |
| 3403 | 000 | 2 | CHANEY ST      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349878 | 803812 | 4643587 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70345 | 6411 |
| 3812 | 000 | 2 | CHAPPELL ST    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349883 | 804533 | 4635195 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70346 | 6421 |
| 3923 | 000 | 2 | CHERRY HILL DR | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349888 | 805387 | 4644752 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70347 | 6431 |
| 1342 | 000 | 2 | CHESTNUT ST    | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56349898 | 805111 | 4637009 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70349 | 6451 |
| 1353 | 000 | 2 | CHESTNUT ST    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349903 | 805499 | 4636911 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70350 | 6451 |
| 1366 | 000 | 2 | CHESTNUT ST    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349908 | 805846 | 4636582 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70351 | 6451 |
| 1369 | 000 | 2 | CHESTNUT ST    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349913 | 805958 | 4636542 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70352 | 6451 |
| 3309 | 000 | 2 | CHESTNUT ST    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349918 | 806802 | 4635810 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70353 | 6451 |
| 3313 | 000 | 2 | CHESTNUT ST    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349923 | 806663 | 4635908 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70355 | 6451 |
| 3324 | 000 | 2 | CHESTNUT ST    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349928 | 806229 | 4636431 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70356 | 6451 |
| 0599 | 000 | 2 | CLARKE ST      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349933 | 804416 | 4635380 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70357 | 6481 |
| 0445 | 000 | 2 | COLE ST        | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349938 | 805205 | 4634437 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70358 | 6511 |
| 0451 | 000 | 2 | COLE ST        | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56349943 | 805326 | 4634236 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70359 | 6511 |
| 0457 | 000 | 2 | COLE ST        | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349948 | 805472 | 4634097 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70360 | 6511 |



|      |     |   |                 |          |              |           |                  |        |     |     |            |          |        |         |     |  |       |      |
|------|-----|---|-----------------|----------|--------------|-----------|------------------|--------|-----|-----|------------|----------|--------|---------|-----|--|-------|------|
| 0459 | 000 | 2 | COLE ST         | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349953 | 805539 | 4634035 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70361 | 6511 |
| 0463 | 000 | 1 | COLE ST         | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56349958 | 805647 | 4634010 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70362 | 6511 |
| 0474 | 000 | 2 | COLE ST         | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349968 | 805973 | 4634075 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70364 | 6511 |
| 0479 | 000 | 2 | COLE ST         | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349973 | 806110 | 4633957 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70365 | 6511 |
| 0481 | 000 | 2 | COLE ST         | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349978 | 806169 | 4633903 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70366 | 6511 |
| 3455 | 000 | 3 | COLE ST         | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56349983 | 804754 | 4634680 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70367 | 6511 |
| 3456 | 000 | 2 | COLE ST         | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56349988 | 804775 | 4634691 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70368 | 6511 |
| 2438 | 000 | 2 | COLONIAL RD     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349993 | 806401 | 4634172 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70369 | 6531 |
| 0606 | 000 | 2 | COUNTY ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56349998 | 804262 | 4635076 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70370 | 6551 |
| 0615 | 000 | 3 | COUNTY ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 330301016  | 56350008 | 804509 | 4635235 | S-1 | SEEKONK HOUSING AUTH                       | 70372 | 6551 |
| 0625 | 000 | 2 | COUNTY ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350013 | 804766 | 4635397 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70373 | 6551 |
| 0631 | 000 | 2 | COUNTY ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350018 | 804951 | 4635426 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70374 | 6551 |
| 0639 | 000 | 2 | COUNTY ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350023 | 805211 | 4635495 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70375 | 6551 |
| 0646 | 000 | 2 | COUNTY ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350028 | 805431 | 4635615 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70376 | 6551 |
| 0653 | 000 | 3 | COUNTY ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350033 | 805649 | 4635678 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70377 | 6551 |
| 0657 | 000 | 2 | COUNTY ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350038 | 805800 | 4635719 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70378 | 6551 |
| 0659 | 000 | 2 | COUNTY ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 400W | Active | 400 | 140 | 7788990006 | 56350043 | 805855 | 4635732 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70379 | 6551 |
| 0660 | 000 | 2 | COUNTY ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350048 | 805888 | 4635745 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70380 | 6551 |
| 0665 | 000 | 2 | COUNTY ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350063 | 806037 | 4635780 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70383 | 6551 |
| 0671 | 000 | 2 | COUNTY ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350068 | 806254 | 4635837 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70384 | 6551 |
| 0675 | 000 | 2 | COUNTY ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350073 | 806363 | 4635839 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70385 | 6551 |
| 0680 | 000 | 2 | COUNTY ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350078 | 806532 | 4635789 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70386 | 6551 |
| 0686 | 000 | 2 | COUNTY ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350083 | 806706 | 4635799 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70387 | 6551 |
| 0689 | 000 | 2 | COUNTY ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350088 | 806800 | 4635813 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70388 | 6551 |
| 0691 | 000 | 2 | COUNTY ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350093 | 806873 | 4635805 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70389 | 6551 |
| 0698 | 000 | 2 | COUNTY ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350098 | 807102 | 4635755 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70390 | 6551 |
| 0701 | 000 | 2 | COUNTY ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350103 | 807194 | 4635749 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70391 | 6551 |
| 3871 | 000 | 2 | COYLE DR        | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350118 | 805070 | 4644796 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70394 | 6571 |
| 3872 | 000 | 2 | COYLE DR        | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350123 | 805104 | 4644775 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70395 | 6571 |
| 0002 | 000 | 2 | DEAN ST         | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350133 | 804499 | 4637787 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70398 | 6611 |
| 1956 | 000 | 2 | DEXTER ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350138 | 804044 | 4639861 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70399 | 6621 |
| 0001 | 000 | 2 | DONALD LEWIS DR | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350143 | 805652 | 4634103 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70400 | 6627 |
| 0004 | 000 | 3 | DONALD LEWIS DR | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350148 | 805474 | 4634239 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70401 | 6627 |
| 2290 | 000 | 2 | EDWARDS AVE     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350158 | 804103 | 4644198 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70404 | 6661 |

|      |     |   |                |          |              |           |                  |        |     |     |            |          |        |         |     |  |       |      |
|------|-----|---|----------------|----------|--------------|-----------|------------------|--------|-----|-----|------------|----------|--------|---------|-----|--|-------|------|
| 0005 | 000 | 3 | ELLIS ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350163 | 804365 | 4641965 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70405 | 6701 |
| 1374 | 000 | 2 | ELM ST         | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350173 | 805872 | 4637319 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70408 | 6721 |
| 1378 | 000 | 2 | ELM ST         | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 0        |        |         | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70233 | 1378 |
| 1385 | 000 | 2 | ELM ST         | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350183 | 806329 | 4636809 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70410 | 6721 |
| 1387 | 000 | 2 | ELM ST         | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350188 | 806468 | 4636699 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70411 | 6721 |
| 1577 | 000 | 2 | ELMDALE ST     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350168 | 804835 | 4637185 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70407 | 6711 |
| 0001 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350203 | 803677 | 4637273 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70414 | 6761 |
| 0019 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350218 | 803818 | 4636697 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70416 | 6761 |
| 0021 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350223 | 803838 | 4636662 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70417 | 6761 |
| 0027 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350228 | 803927 | 4636497 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70418 | 6761 |
| 0030 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350233 | 803967 | 4636404 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70419 | 6761 |
| 0033 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350238 | 804005 | 4636310 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70420 | 6761 |
| 0039 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350243 | 804086 | 4636143 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70421 | 6761 |
| 0043 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56350248 | 804166 | 4636039 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70422 | 6761 |
| 0045 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350263 | 804200 | 4635998 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70424 | 6761 |
| 0048 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350273 | 804268 | 4635939 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70426 | 6761 |
| 0051 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56350278 | 804344 | 4635886 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70427 | 6761 |
| 0052 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350283 | 804368 | 4635863 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70428 | 6761 |
| 0055 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56350288 | 804369 | 4635793 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70429 | 6761 |
| 0057 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350293 | 804336 | 4635723 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70430 | 6761 |
| 0059 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350298 | 804310 | 4635654 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70431 | 6761 |
| 0062 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350303 | 804290 | 4635561 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70432 | 6761 |
| 0065 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56350308 | 804274 | 4635452 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70433 | 6761 |
| 0067 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350313 | 804272 | 4635380 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70434 | 6761 |
| 0069 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350318 | 804272 | 4635312 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70435 | 6761 |
| 0071 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350323 | 804272 | 4635251 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70436 | 6761 |
| 0073 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350328 | 804275 | 4635204 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70437 | 6761 |
| 0075 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350338 | 804287 | 4635132 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70439 | 6761 |
| 0076 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350343 | 804293 | 4635083 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70440 | 6761 |
| 0077 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350348 | 804304 | 4635070 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70441 | 6761 |
| 0080 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350353 | 804352 | 4635003 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70442 | 6761 |
| 0082 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350358 | 804392 | 4634959 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70443 | 6761 |
| 0083 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350363 | 804412 | 4634937 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70444 | 6761 |
| 0086 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350368 | 804490 | 4634876 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70445 | 6761 |

|      |     |   |                |          |                 |           |                  |        |     |     |            |          |        |         |     |  |       |      |
|------|-----|---|----------------|----------|-----------------|-----------|------------------|--------|-----|-----|------------|----------|--------|---------|-----|--|-------|------|
| 0088 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350373 | 804529 | 4634844 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70446 | 6761 |
| 0090 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350378 | 804556 | 4634823 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70447 | 6761 |
| 0104 | 001 | 2 | FALL RIVER AVE | Overhead | Street Lighting | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350468 | 804860 | 4634526 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70457 | 6761 |
| 0114 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350473 | 804884 | 4634364 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70458 | 6761 |
| 0115 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350478 | 804879 | 4634268 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70459 | 6761 |
| 0118 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350483 | 804870 | 4634134 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70460 | 6761 |
| 0119 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350488 | 804867 | 4634081 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70461 | 6761 |
| 0130 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350528 | 804883 | 4633733 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70469 | 6761 |
| 0132 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350533 | 804913 | 4633668 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70470 | 6761 |
| 0138 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350538 | 804985 | 4633570 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70471 | 6761 |
| 0172 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350618 | 805838 | 4632813 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70483 | 6761 |
| 0173 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350623 | 805862 | 4632788 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70484 | 6761 |
| 0179 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350628 | 806003 | 4632685 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70485 | 6761 |
| 0186 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350643 | 806223 | 4632620 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70490 | 6761 |
| 0197 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56350648 | 806551 | 4632474 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70491 | 6761 |
| 0200 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350653 | 806642 | 4632444 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70492 | 6761 |
| 0216 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350688 | 807173 | 4632238 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70498 | 6761 |
| 0261 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350693 | 804371 | 4635065 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70499 | 6761 |
| 1064 | 000 | 1 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350728 | 805907 | 4632784 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70505 | 6761 |
| 1068 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350733 | 807651 | 4632042 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70506 | 6761 |
| 1151 | 000 | 2 | FALL RIVER AVE | Overhead | Distribution    | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56350783 | 804464 | 4634912 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70514 | 6761 |
| 1090 | 000 | 2 | FAY ST         | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350887 | 803443 | 4636841 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70531 | 6771 |
| 4742 | 000 | 2 | FERNCLIFFE RD  | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350892 | 806008 | 4634244 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70532 | 6781 |
| 4542 | 000 | 2 | FIELDWOOD AVE  | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350902 | 806027 | 4634146 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70534 | 6801 |
| 4546 | 000 | 2 | FIELDWOOD AVE  | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350907 | 806166 | 4634205 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70535 | 6801 |
| 4553 | 000 | 2 | FIELDWOOD AVE  | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350912 | 806402 | 4634260 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70536 | 6801 |
| 4555 | 000 | 2 | FIELDWOOD AVE  | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350917 | 806478 | 4634325 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70537 | 6801 |
| 2838 | 000 | 2 | FOREST AVE     | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 0        |        |         | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70234 | 3871 |
| 2872 | 000 | 2 | FOREST AVE     | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350922 | 804600 | 4644243 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70538 | 6841 |
| 4153 | 000 | 3 | FRENCH DR      | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350927 | 804281 | 4641730 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70539 | 6851 |
| 3040 | 000 | 2 | FULLER ST      | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350932 | 804446 | 4634728 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70541 | 6861 |
| 2479 | 000 | 2 | GARDNER ST     | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350942 | 804456 | 4641462 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70543 | 6881 |
| 2483 | 000 | 2 | GARDNER ST     | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350947 | 804318 | 4641404 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70544 | 6881 |
| 2939 | 000 | 3 | GREENFIELD ST  | Overhead | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350957 | 804721 | 4644002 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70546 | 6931 |

|      |     |   |               |          |              |           |                  |        |     |     |            |          |        |         |     |  |       |      |
|------|-----|---|---------------|----------|--------------|-----------|------------------|--------|-----|-----|------------|----------|--------|---------|-----|--|-------|------|
| 3753 | 000 | 2 | GREENFIELD ST | Overhead | Distribution | Luminaire | LUM MV RWY 100W  | Active | 100 | 30  | 7788990006 | 56350962 | 804915 | 4644447 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70547 | 6931 |
| 3757 | 000 | 3 | GREENFIELD ST | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350967 | 804974 | 4644577 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70548 | 6931 |
| 3759 | 000 | 2 | GREENFIELD ST | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350972 | 805000 | 4644653 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70549 | 6931 |
| 0936 | 000 | 2 | GREENWOOD AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350977 | 805515 | 4638516 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70551 | 6941 |
| 4894 | 000 | 2 | GREENWOOD AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350987 | 805881 | 4638078 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70553 | 6941 |
| 5152 | 000 | 2 | GREGORY DR    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56350992 | 803756 | 4643387 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70554 | 6944 |
| 2664 | 000 | 2 | HAIG AVE      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351002 | 804220 | 4644188 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70556 | 6961 |
| 2667 | 000 | 2 | HAIG AVE      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351007 | 804149 | 4644257 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70557 | 6961 |
| 0753 | 000 | 2 | HAMMOND ST    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351012 | 805884 | 4635820 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70558 | 6981 |
| 0756 | 000 | 2 | HAMMOND ST    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351017 | 805874 | 4635954 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70559 | 6981 |
| 0759 | 000 | 2 | HAMMOND ST    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351022 | 805949 | 4636048 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70560 | 6981 |
| 0762 | 000 | 2 | HAMMOND ST    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351027 | 805951 | 4636165 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70561 | 6981 |
| 0764 | 000 | 2 | HAMMOND ST    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351032 | 805953 | 4636269 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70562 | 6981 |
| 2694 | 000 | 4 | HARMAN AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56351042 | 804333 | 4644341 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70564 | 6991 |
| 2699 | 000 | 1 | HARMAN AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351047 | 804235 | 4644437 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70565 | 6991 |
| 4199 | 000 | 2 | HARRIET CT    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351052 | 803766 | 4639142 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70566 | 7001 |
| 3287 | 000 | 2 | HIGHLAND AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351134 | 804594 | 4634011 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70579 | 7061 |
| 3290 | 000 | 2 | HIGHLAND AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351139 | 804831 | 4633706 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70580 | 7061 |
| 3291 | 000 | 2 | HIGHLAND AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351144 | 804771 | 4633776 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70582 | 7061 |
| 3292 | 050 | 2 | HIGHLAND AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351154 | 804702 | 4633857 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70586 | 7061 |
| 3292 | 000 | 2 | HIGHLAND AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 400W | Active | 400 | 140 | 7788990006 | 56351149 | 804716 | 4633841 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70585 | 7061 |
| 3293 | 050 | 2 | HIGHLAND AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351159 | 804673 | 4633891 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70587 | 7061 |
| 3295 | 000 | 2 | HIGHLAND AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 0        |        |         | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70588 | 7061 |
| 3296 | 000 | 2 | HIGHLAND AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351169 | 804571 | 4634008 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70589 | 7061 |
| 3297 | 050 | 2 | HIGHLAND AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351174 | 804512 | 4634075 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70590 | 7061 |
| 3299 | 050 | 2 | HIGHLAND AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351179 | 804391 | 4634215 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70591 | 7061 |
| 3300 | 050 | 2 | HIGHLAND AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351189 | 804329 | 4634286 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70593 | 7061 |
| 3301 | 000 | 2 | HIGHLAND AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 400W | Active | 400 | 140 | 7788990006 | 56351194 | 804300 | 4634319 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70594 | 7061 |
| 4185 | 011 | 2 | HIGHLAND AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351241 | 804746 | 4633817 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70601 | 7061 |
| 4185 | 008 | 2 | HIGHLAND AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351236 | 804720 | 4633847 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70600 | 7061 |
| 4185 | 007 | 2 | HIGHLAND AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351231 | 804690 | 4633881 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70599 | 7061 |
| 4185 | 006 | 2 | HIGHLAND AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351226 | 804659 | 4634021 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70598 | 7061 |
| 4185 | 002 | 2 | HIGHLAND AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351221 | 804638 | 4633995 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70597 | 7061 |
| 4435 | 000 | 4 | HILL RD       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351067 | 805607 | 4637076 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70569 | 7031 |

|      |     |   |              |          |              |           |                  |        |     |    |            |          |        |         |     |  |       |      |
|------|-----|---|--------------|----------|--------------|-----------|------------------|--------|-----|----|------------|----------|--------|---------|-----|--|-------|------|
| 4437 | 000 | 3 | HILL RD      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351072 | 805652 | 4636984 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70570 | 7031 |
| 4501 | 000 | 2 | HILLER DR    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351082 | 803929 | 4643370 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70571 | 7051 |
| 4508 | 000 | 2 | HILLER DR    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351092 | 803701 | 4643270 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70573 | 7051 |
| 3380 | 000 | 2 | HOLLISTER RD | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 0        |        |         | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70602 | 7071 |
| 4138 | 000 | 3 | HOLLY DR     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351261 | 804325 | 4641184 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70605 | 7081 |
| 1502 | 000 | 2 | HOPE ST      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351266 | 805594 | 4637752 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70606 | 7091 |
| 1160 | 000 | 2 | HULL ST      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351271 | 803858 | 4636500 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70608 | 7131 |
| 1108 | 000 | 2 | HUNT ST      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351276 | 803590 | 4636976 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70609 | 7141 |
| 0002 | 000 | 2 | IOLA ST      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351316 | 803660 | 4637058 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70615 | 7155 |
| 1147 | 000 | 2 | IPSWICH ST   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351281 | 803769 | 4636561 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70610 | 7151 |
| 1696 | 000 | 2 | JACOB ST     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351321 | 806490 | 4637962 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70616 | 7171 |
| 1703 | 000 | 1 | JACOB ST     | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30 | 7788990006 | 56351326 | 806669 | 4638129 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70617 | 7171 |
| 1705 | 000 | 2 | JACOB ST     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351331 | 806748 | 4638169 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70618 | 7171 |
| 1724 | 000 | 2 | JACOB ST     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351341 | 807360 | 4638455 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70620 | 7171 |
| 4372 | 000 | 3 | JAMES ST     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351351 | 806425 | 4633815 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70622 | 7181 |
| 4095 | 000 | 1 | KENT DR      | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30 | 4051970000 | 56351361 | 804166 | 4641715 | S-1 | TOWN OF SEEKONK<br>ATTN: ANN HARDY         | 70624 | 7271 |
| 0898 | 000 | 2 | LAKE ST      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351371 | 806807 | 4637422 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70626 | 7291 |
| 0910 | 000 | 2 | LAKE ST      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351376 | 807189 | 4637431 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70627 | 7291 |
| 0912 | 000 | 3 | LAKE ST      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351381 | 807266 | 4637445 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70628 | 7291 |
| 0920 | 000 | 2 | LAKE ST      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351386 | 807556 | 4637456 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70629 | 7291 |
| 0361 | 000 | 2 | LEAVITT ST   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351391 | 805171 | 4632757 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70630 | 7321 |
| 0367 | 000 | 2 | LEAVITT ST   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351396 | 804988 | 4632972 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70631 | 7321 |
| 1205 | 000 | 2 | LEDGE RD     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351406 | 803714 | 4637310 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70634 | 7331 |
| 1231 | 000 | 2 | LEDGE RD     | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30 | 7788990006 | 56351411 | 803754 | 4637336 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70635 | 7331 |
| 1235 | 000 | 2 | LEDGE RD     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351416 | 803868 | 4637381 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70636 | 7331 |
| 1240 | 000 | 2 | LEDGE RD     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351421 | 803986 | 4637535 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70637 | 7331 |
| 1242 | 000 | 2 | LEDGE RD     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351426 | 804033 | 4637593 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70638 | 7331 |
| 1247 | 000 | 2 | LEDGE RD     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351431 | 804167 | 4637733 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70639 | 7331 |
| 1255 | 000 | 2 | LEDGE RD     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351436 | 804471 | 4637856 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70640 | 7331 |
| 1266 | 000 | 2 | LEDGE RD     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351451 | 804825 | 4637978 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70643 | 7331 |
| 1273 | 000 | 2 | LEDGE RD     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351456 | 805001 | 4638200 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70644 | 7331 |
| 1275 | 000 | 2 | LEDGE RD     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351461 | 805057 | 4638198 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70645 | 7331 |
| 1282 | 000 | 2 | LEDGE RD     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351466 | 805423 | 4638090 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70646 | 7331 |
| 1731 | 000 | 2 | LEDGE RD     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56351471 | 806390 | 4637612 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70647 | 7331 |

|      |     |   |             |          |              |           |                  |        |     |     |            |          |        |         |     |  |       |      |
|------|-----|---|-------------|----------|--------------|-----------|------------------|--------|-----|-----|------------|----------|--------|---------|-----|--|-------|------|
| 1737 | 000 | 2 | LEDGE RD    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351476 | 806280 | 4637798 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70648 | 7331 |
| 0814 | 084 | 2 | LINCOLN ST  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351486 | 807209 | 4636309 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70650 | 7351 |
| 0819 | 000 | 2 | LINCOLN ST  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351491 | 807114 | 4636392 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70651 | 7351 |
| 0823 | 000 | 2 | LINCOLN ST  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351496 | 807035 | 4636497 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70652 | 7351 |
| 0828 | 000 | 2 | LINCOLN ST  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351501 | 807081 | 4636696 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70653 | 7351 |
| 0835 | 000 | 2 | LINCOLN ST  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351506 | 806987 | 4636911 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70654 | 7351 |
| 0850 | 000 | 2 | LINCOLN ST  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351516 | 807040 | 4637440 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70656 | 7351 |
| 0867 | 000 | 2 | LINCOLN ST  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351521 | 806856 | 4638037 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70657 | 7351 |
| 0876 | 000 | 2 | LINCOLN ST  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351526 | 806983 | 4636922 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70658 | 7351 |
| 4312 | 000 | 2 | LINDEN RD   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351531 | 806185 | 4633909 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70659 | 7361 |
| 4303 | 000 | 2 | MARLAINE DR | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351541 | 804062 | 4643019 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70661 | 7431 |
| 4305 | 000 | 2 | MARLAINE DR | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351546 | 804053 | 4642946 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70662 | 7431 |
| 4841 | 000 | 2 | MARNOCH DR  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351551 | 805938 | 4631692 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70663 | 7441 |
| 2972 | 000 | 3 | MAYFIELD ST | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56351556 | 804623 | 4643970 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70664 | 7461 |
| 2852 | 000 | 2 | MAYNARD AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351561 | 804366 | 4644519 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70665 | 7471 |
| 0800 | 000 | 2 | MILL RD     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351576 | 804725 | 4635595 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70667 | 7531 |
| 1666 | 000 | 2 | MILL RD     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351581 | 804664 | 4635653 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70668 | 7531 |
| 0539 | 000 | 2 | MILLER ST   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351586 | 806492 | 4634356 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70669 | 7541 |
| 0544 | 001 | 2 | MILLER ST   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351591 | 806680 | 4634496 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70670 | 7541 |
| 3110 | 000 | 2 | MILLER ST   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351596 | 807096 | 4634906 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70671 | 7541 |
| 3967 | 000 | 2 | MILLER ST   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351601 | 806935 | 4634683 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70672 | 7541 |
| 1173 | 000 | 2 | MILTON ST   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351606 | 803817 | 4636256 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70673 | 7551 |
| 0412 | 000 | 2 | MINK ST     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351611 | 805007 | 4633494 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70674 | 7561 |
| 0414 | 000 | 2 | MINK ST     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351621 | 804978 | 4633436 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70676 | 7561 |
| 0421 | 000 | 2 | MINK ST     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351646 | 804897 | 4633228 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70680 | 7561 |
| 2005 | 000 | 2 | NEWMAN AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351666 | 803946 | 4638851 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70683 | 7581 |
| 2007 | 000 | 2 | NEWMAN AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351672 | 803993 | 4638885 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70684 | 7581 |
| 2009 | 000 | 2 | NEWMAN AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351677 | 804050 | 4638925 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70685 | 7581 |
| 2012 | 000 | 2 | NEWMAN AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351682 | 804131 | 4638982 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70686 | 7581 |
| 2015 | 000 | 2 | NEWMAN AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351687 | 804214 | 4639041 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70687 | 7581 |
| 2016 | 000 | 2 | NEWMAN AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351692 | 804236 | 4639058 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70688 | 7581 |
| 2018 | 000 | 2 | NEWMAN AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351697 | 804296 | 4639104 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70689 | 7581 |
| 2019 | 000 | 2 | NEWMAN AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351702 | 804327 | 4639128 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70690 | 7581 |
| 2023 | 000 | 2 | NEWMAN AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351707 | 804394 | 4639208 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70691 | 7581 |



|      |     |   |            |          |              |           |                  |        |     |     |            |          |        |         |     |  |       |      |
|------|-----|---|------------|----------|--------------|-----------|------------------|--------|-----|-----|------------|----------|--------|---------|-----|--|-------|------|
| 2025 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351712 | 804420 | 4639278 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70692 | 7581 |
| 2026 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351717 | 804434 | 4639319 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70693 | 7581 |
| 2030 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351722 | 804475 | 4639468 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70694 | 7581 |
| 2033 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351727 | 804506 | 4639539 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70695 | 7581 |
| 2038 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351732 | 804618 | 4639694 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70696 | 7581 |
| 2043 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351737 | 804709 | 4639823 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70697 | 7581 |
| 2046 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351742 | 804731 | 4639892 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70698 | 7581 |
| 2048 | 000 | 1 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56351747 | 804745 | 4639950 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70699 | 7581 |
| 2052 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351752 | 804770 | 4640068 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70700 | 7581 |
| 2057 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351757 | 804778 | 4640220 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70701 | 7581 |
| 2060 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351762 | 804749 | 4640313 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70702 | 7581 |
| 2064 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351767 | 804697 | 4640462 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70703 | 7581 |
| 2071 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351772 | 804658 | 4640684 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70704 | 7581 |
| 2075 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351777 | 804641 | 4640818 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70705 | 7581 |
| 2083 | 000 | 3 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351787 | 804620 | 4641094 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70707 | 7581 |
| 2085 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351792 | 804616 | 4641166 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70708 | 7581 |
| 2089 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351797 | 804646 | 4641295 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70709 | 7581 |
| 2093 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351802 | 804634 | 4641431 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70710 | 7581 |
| 2098 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351807 | 804551 | 4641577 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70711 | 7581 |
| 2106 | 000 | 1 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351812 | 804422 | 4641819 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70712 | 7581 |
| 2108 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351817 | 804388 | 4641883 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70713 | 7581 |
| 2110 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351822 | 804353 | 4641953 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70714 | 7581 |
| 2112 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56351827 | 804327 | 4642014 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70715 | 7581 |
| 2114 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351832 | 804303 | 4642089 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70716 | 7581 |
| 2115 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351837 | 804297 | 4642124 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70717 | 7581 |
| 2116 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351842 | 804288 | 4642156 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70718 | 7581 |
| 2117 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351847 | 804279 | 4642192 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70719 | 7581 |
| 2118 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351852 | 804276 | 4642234 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70720 | 7581 |
| 2123 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56351857 | 804251 | 4642333 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70721 | 7581 |
| 2126 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351867 | 804250 | 4642437 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70723 | 7581 |
| 2132 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351882 | 804256 | 4642661 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70726 | 7581 |
| 2135 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351887 | 804242 | 4642750 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70727 | 7581 |
| 2138 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351892 | 804212 | 4642859 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70728 | 7581 |
| 2141 | 000 | 2 | NEWMAN AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351897 | 804181 | 4642970 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70729 | 7581 |

|      |     |   |                   |          |              |           |                  |        |     |     |            |          |        |         |     |  |       |      |
|------|-----|---|-------------------|----------|--------------|-----------|------------------|--------|-----|-----|------------|----------|--------|---------|-----|--|-------|------|
| 2143 | 000 | 3 | NEWMAN AVE        | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351902 | 804165 | 4643014 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70730 | 7581 |
| 2149 | 000 | 2 | NEWMAN AVE        | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351907 | 804081 | 4643221 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70731 | 7581 |
| 2153 | 000 | 2 | NEWMAN AVE        | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351912 | 804047 | 4643341 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70732 | 7581 |
| 2158 | 000 | 2 | NEWMAN AVE        | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351917 | 804066 | 4643510 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70733 | 7581 |
| 2158 | 001 | 2 | NEWMAN AVE        | Overhead | Distribution | Luminaire | LUM MV RWY 400W  | Active | 400 | 140 | 7788990006 | 56351922 | 804088 | 4643535 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70734 | 7581 |
| 2161 | 000 | 2 | NEWMAN AVE        | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351927 | 804099 | 4643583 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70735 | 7581 |
| 2163 | 000 | 2 | NEWMAN AVE        | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351932 | 804121 | 4643627 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70736 | 7581 |
| 2167 | 000 | 2 | NEWMAN AVE        | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351937 | 804212 | 4643798 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70737 | 7581 |
| 2169 | 000 | 2 | NEWMAN AVE        | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56351942 | 804242 | 4643859 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70738 | 7581 |
| 2170 | 000 | 2 | NEWMAN AVE        | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351947 | 804258 | 4643890 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70739 | 7581 |
| 2279 | 000 | 2 | NEWMAN AVE        | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56351958 | 804297 | 4643945 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70741 | 7581 |
| 4220 | 000 | 3 | NOBLE ST          | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352013 | 804622 | 4638906 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70751 | 7601 |
| 2794 | 000 | 2 | NORTH ST          | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352018 | 805062 | 4644919 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70752 | 7611 |
| 2796 | 000 | 2 | NORTH ST          | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352028 | 805123 | 4644878 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70754 | 7611 |
| 3151 | 000 | 2 | NORTH WHEATON AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352033 | 807212 | 4633039 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70756 | 7621 |
| 4061 | 000 | 2 | NYE ST            | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352038 | 803507 | 4636834 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70757 | 7631 |
| 2605 | 000 | 2 | OAK HILL AVE      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352053 | 805275 | 4645232 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70760 | 7651 |
| 2611 | 000 | 2 | OAK HILL AVE      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352063 | 805463 | 4645273 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70762 | 7651 |
| 2622 | 000 | 2 | OAK HILL AVE      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352068 | 805808 | 4645342 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70763 | 7651 |
| 2630 | 000 | 2 | OAK HILL AVE      | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56352073 | 806097 | 4645408 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70764 | 7651 |
| 2961 | 000 | 2 | OAKLAND AVE       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352083 | 804836 | 4644263 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70766 | 7661 |
| 4254 | 000 | 2 | OAKLAND AVE       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 0        |        |         | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70768 | 7661 |
| 0473 | 000 | 2 | OLNEY ST          | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352123 | 805943 | 4634194 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70775 | 7701 |
| 0570 | 000 | 2 | OLNEY ST          | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352128 | 805920 | 4634297 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70776 | 7701 |
| 0572 | 000 | 2 | OLNEY ST          | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352133 | 805906 | 4634382 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70777 | 7701 |
| 0580 | 000 | 2 | OLNEY ST          | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352138 | 805949 | 4634696 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70778 | 7701 |
| 0582 | 000 | 2 | OLNEY ST          | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352143 | 805950 | 4634817 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70779 | 7701 |
| 0728 | 000 | 2 | OLNEY ST          | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352168 | 805728 | 4635422 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70784 | 7701 |
| 0729 | 000 | 2 | OLNEY ST          | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352173 | 805720 | 4635382 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70785 | 7701 |
| 0733 | 000 | 2 | OLNEY ST          | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352178 | 805754 | 4635189 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70786 | 7701 |
| 0737 | 000 | 2 | OLNEY ST          | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352183 | 805810 | 4635014 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70787 | 7701 |
| 0003 | 000 | 2 | PECK ST           | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352198 | 805223 | 4637282 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70788 | 7741 |
| 0005 | 000 | 2 | PECK ST           | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352203 | 805191 | 4637372 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70789 | 7741 |
| 4065 | 000 | 2 | PEQUOT RD         | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352223 | 803975 | 4642121 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70794 | 7761 |



|      |     |   |               |          |              |           |                 |        |    |    |            |          |        |         |     |  |       |      |
|------|-----|---|---------------|----------|--------------|-----------|-----------------|--------|----|----|------------|----------|--------|---------|-----|--|-------|------|
| 2223 | 000 | 2 | PERRIN AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352228 | 803902 | 4644016 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70795 | 7771 |
| 2675 | 000 | 2 | PERSHING AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352238 | 804344 | 4644202 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70797 | 7791 |
| 2678 | 000 | 3 | PERSHING AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352243 | 804271 | 4644255 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70798 | 7791 |
| 2683 | 000 | 2 | PERSHING AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352248 | 804153 | 4644367 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70799 | 7791 |
| 2684 | 000 | 2 | PERSHING AVE  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352253 | 804137 | 4644379 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70800 | 7791 |
| 2305 | 000 | 2 | PINE ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352263 | 804461 | 4643938 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70802 | 7801 |
| 2312 | 000 | 2 | PINE ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352268 | 804669 | 4643915 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70803 | 7801 |
| 2315 | 000 | 2 | PINE ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352273 | 804747 | 4643902 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70804 | 7801 |
| 2317 | 000 | 2 | PINE ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352278 | 804823 | 4643890 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70805 | 7801 |
| 2326 | 000 | 2 | PINE ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352283 | 805090 | 4643784 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70807 | 7801 |
| 2330 | 000 | 2 | PINE ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352288 | 805125 | 4643660 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70808 | 7801 |
| 2366 | 000 | 2 | PINE ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352293 | 805992 | 4643350 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70809 | 7801 |
| 2368 | 000 | 2 | PINE ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352298 | 806030 | 4643425 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70810 | 7801 |
| 2381 | 000 | 2 | PINE ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352308 | 806525 | 4643368 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70812 | 7801 |
| 2386 | 000 | 2 | PINE ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352313 | 806714 | 4643145 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70813 | 7801 |
| 2390 | 050 | 2 | PINE ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352318 | 806905 | 4642855 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70814 | 7801 |
| 2975 | 000 | 2 | PLAINFIELD ST | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352323 | 804471 | 4643855 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70815 | 7811 |
| 1220 | 000 | 2 | PLEASANT ST   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352328 | 804111 | 4636845 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70816 | 7821 |
| 1326 | 000 | 2 | PLEASANT ST   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352348 | 804508 | 4636698 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70820 | 7821 |
| 1331 | 000 | 2 | PLEASANT ST   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352353 | 804674 | 4636699 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70821 | 7821 |
| 1830 | 000 | 2 | PROSPECT ST   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352403 | 806307 | 4639194 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70831 | 7861 |
| 1842 | 000 | 2 | PROSPECT ST   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352408 | 806188 | 4639644 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70832 | 7861 |
| 1846 | 000 | 2 | PROSPECT ST   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352413 | 806113 | 4639781 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70833 | 7861 |
| 1850 | 000 | 2 | PROSPECT ST   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352418 | 806076 | 4639930 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70834 | 7861 |
| 1858 | 000 | 2 | PROSPECT ST   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352423 | 805967 | 4640238 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70835 | 7861 |
| 1859 | 000 | 2 | PROSPECT ST   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352428 | 805953 | 4640275 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70836 | 7861 |
| 2558 | 000 | 2 | READ ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352433 | 804971 | 4640635 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70837 | 7901 |
| 2564 | 000 | 2 | READ ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352438 | 805190 | 4640752 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70838 | 7901 |
| 2738 | 000 | 2 | READ ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 0        |        |         | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70840 | 7901 |
| 3347 | 000 | 2 | READ ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352453 | 805992 | 4640825 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70841 | 7901 |
| 3351 | 000 | 2 | READ ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352458 | 806140 | 4640984 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70842 | 7901 |
| 3353 | 000 | 2 | READ ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352463 | 806217 | 4640940 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70843 | 7901 |
| 3354 | 000 | 2 | READ ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352468 | 806286 | 4640902 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70844 | 7901 |
| 3359 | 000 | 2 | READ ST       | Overhead | Distribution | Luminaire | LUM HPS RWY 50W | Active | 50 | 20 | 7788990006 | 56352473 | 806673 | 4641085 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70845 | 7901 |

|      |     |   |                 |             |                 |           |                  |        |     |     |            |          |        |         |     |  |       |      |
|------|-----|---|-----------------|-------------|-----------------|-----------|------------------|--------|-----|-----|------------|----------|--------|---------|-----|--|-------|------|
| 3365 | 050 | 2 | READ ST         | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352478 | 806943 | 4641471 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70846 | 7901 |
| 3370 | 000 | 2 | READ ST         | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352483 | 807141 | 4641765 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70847 | 7901 |
| 1782 | 000 | 2 | RYE ST          | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352493 | 804344 | 4638849 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70850 | 7981 |
| 4994 | 000 | 2 | SAGAMORE RD     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352503 | 806124 | 4634725 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70852 | 7991 |
| 0003 | 000 | 2 | SAND TRAP LN    | Underground | Street Lighting | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352508 | 806013 | 4643332 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70853 | 7995 |
| 0340 | 000 | 2 | SCHOOL ST       | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352513 | 805711 | 4632735 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70854 | 8011 |
| 0344 | 000 | 2 | SCHOOL ST       | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352518 | 805576 | 4632679 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70855 | 8011 |
| 0352 | 000 | 2 | SCHOOL ST       | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352523 | 805286 | 4632697 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70856 | 8011 |
| 4212 | 000 | 3 | SCOTT RD        | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352528 | 804493 | 4638647 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70857 | 8021 |
| 3983 | 001 | 2 | SHADY LN        | Overhead    | Distribution    | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56352533 | 804731 | 4637271 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70858 | 8027 |
| 1784 | 000 | 3 | SHERMAN AVE     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352538 | 804729 | 4639230 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70859 | 8031 |
| 4054 | 000 | 3 | SHERMAN AVE     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352543 | 804939 | 4638918 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70860 | 8031 |
| 3862 | 000 | 2 | SHIRWOOD DR     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352548 | 805139 | 4644832 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70861 | 8041 |
| 3866 | 000 | 2 | SHIRWOOD DR     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352553 | 805320 | 4644757 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70862 | 8041 |
| 4103 | 000 | 2 | ST LAURENT PKWY | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352558 | 805063 | 4644585 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70863 | 8101 |
| 4105 | 000 | 2 | ST LAURENT PKWY | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352563 | 805137 | 4644474 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70864 | 8101 |
| 5258 | 000 | 2 | STRATFORD RD    | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352568 | 806134 | 4634522 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70865 | 8102 |
| 4498 | 000 | 3 | SUNSET DR       | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352573 | 803911 | 4643255 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70866 | 8121 |
| 0944 | 000 | 2 | TAUNTON AVE     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56352578 | 803393 | 4636616 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70868 | 8181 |
| 0946 | 000 | 2 | TAUNTON AVE     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56352588 | 803472 | 4636641 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70870 | 8181 |
| 0948 | 000 | 2 | TAUNTON AVE     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352593 | 803530 | 4636656 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70871 | 8181 |
| 0952 | 000 | 2 | TAUNTON AVE     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56352598 | 803677 | 4636693 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70872 | 8181 |
| 0955 | 000 | 2 | TAUNTON AVE     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56352613 | 803800 | 4636726 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70875 | 8181 |
| 0962 | 000 | 2 | TAUNTON AVE     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352643 | 803985 | 4636771 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70877 | 8181 |
| 0967 | 000 | 2 | TAUNTON AVE     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56352653 | 804156 | 4636814 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70879 | 8181 |
| 0989 | 000 | 2 | TAUNTON AVE     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352688 | 804933 | 4637067 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70886 | 8181 |
| 0990 | 000 | 2 | TAUNTON AVE     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56352693 | 804953 | 4637073 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70887 | 8181 |
| 0994 | 000 | 2 | TAUNTON AVE     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56352698 | 805084 | 4637113 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70888 | 8181 |
| 0998 | 000 | 2 | TAUNTON AVE     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352708 | 805242 | 4637166 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70890 | 8181 |
| 1006 | 000 | 2 | TAUNTON AVE     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56352713 | 805517 | 4637253 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70891 | 8181 |
| 1010 | 001 | 1 | TAUNTON AVE     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56352728 | 805645 | 4637301 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70894 | 8181 |
| 1014 | 000 | 2 | TAUNTON AVE     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352733 | 805802 | 4637347 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70895 | 8181 |
| 1025 | 000 | 2 | TAUNTON AVE     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56352748 | 806182 | 4637476 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70898 | 8181 |
| 1028 | 000 | 2 | TAUNTON AVE     | Overhead    | Distribution    | Luminaire | LUM HPS RWY 100W | Active | 100 | 30  | 7788990006 | 56352753 | 806283 | 4637508 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70899 | 8181 |

|      |     |   |               |          |              |           |                  |        |     |     |            |          |        |         |     |  |       |      |
|------|-----|---|---------------|----------|--------------|-----------|------------------|--------|-----|-----|------------|----------|--------|---------|-----|--|-------|------|
| 1031 | 000 | 2 | TAUNTON AVE   | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56352758 | 806387 | 4637540 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70900 | 8181 |
| 1033 | 000 | 2 | TAUNTON AVE   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352763 | 806462 | 4637563 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70901 | 8181 |
| 1045 | 000 | 3 | TAUNTON AVE   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352773 | 806887 | 4637702 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70903 | 8181 |
| 1046 | 000 | 2 | TAUNTON AVE   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352778 | 806926 | 4637716 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70904 | 8181 |
| 1048 | 000 | 2 | TAUNTON AVE   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352783 | 806995 | 4637740 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70905 | 8181 |
| 1052 | 000 | 2 | TAUNTON AVE   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352798 | 807141 | 4637788 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70908 | 8181 |
| 1053 | 000 | 2 | TAUNTON AVE   | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56352803 | 807181 | 4637799 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70909 | 8181 |
| 1056 | 000 | 2 | TAUNTON AVE   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352808 | 807280 | 4637832 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70910 | 8181 |
| 4822 | 000 | 2 | TOMPSON DR    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352843 | 804716 | 4640964 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70915 | 8221 |
| 0255 | 000 | 2 | TULLSON AVE   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352858 | 803702 | 4639059 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70919 | 8241 |
| 1549 | 000 | 2 | VALLEY ST     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352868 | 804571 | 4637576 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70921 | 8271 |
| 3845 | 000 | 2 | VILLANOVA CIR | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352873 | 806460 | 4632359 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70922 | 8291 |
| 3885 | 000 | 3 | VISTA CT      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352878 | 805184 | 4644705 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70923 | 8301 |
| 1921 | 000 | 2 | WALKER ST     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352883 | 805238 | 4640342 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70924 | 8311 |
| 1927 | 000 | 2 | WALKER ST     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352888 | 805467 | 4640346 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70925 | 8311 |
| 0293 | 000 | 2 | WARREN AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352898 | 806152 | 4632083 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70927 | 8331 |
| 0298 | 000 | 2 | WARREN AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352903 | 806191 | 4631896 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70928 | 8331 |
| 0300 | 000 | 2 | WARREN AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352908 | 806226 | 4631844 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70929 | 8331 |
| 3903 | 000 | 2 | WATER LN      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352918 | 804484 | 4640682 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70931 | 8348 |
| 0004 | 000 | 2 | WEDGEWOOD DR  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352923 | 806327 | 4634329 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70932 | 8361 |
| 1601 | 000 | 2 | WEST AVE      | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56352928 | 803827 | 4638795 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70933 | 8391 |
| 1611 | 000 | 2 | WEST AVE      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352933 | 803858 | 4639107 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70934 | 8391 |
| 1619 | 000 | 2 | WEST AVE      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352938 | 804044 | 4639274 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70935 | 8391 |
| 1630 | 000 | 2 | WEST AVE      | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352943 | 804354 | 4639501 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70936 | 8391 |
| 1638 | 000 | 2 | WEST AVE      | Overhead | Distribution | Luminaire | LUM HPS RWY 250W | Active | 250 | 140 | 7788990006 | 56352948 | 804568 | 4639650 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70937 | 8391 |
| 3154 | 000 | 2 | WHEATON AVE   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352953 | 807015 | 4632976 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70938 | 8431 |
| 0494 | 000 | 2 | WILLARD AVE   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352958 | 806573 | 4633970 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70939 | 8441 |
| 0497 | 000 | 2 | WILLARD AVE   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352963 | 806598 | 4633878 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70940 | 8441 |
| 0510 | 000 | 2 | WILLARD AVE   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352968 | 807080 | 4634033 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70941 | 8441 |
| 0513 | 001 | 2 | WILLARD AVE   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352973 | 807188 | 4633868 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70942 | 8441 |
| 0517 | 000 | 2 | WILLARD AVE   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352978 | 807428 | 4633620 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70943 | 8441 |
| 3665 | 000 | 2 | WILLIAM AVE   | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352983 | 804611 | 4644130 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70944 | 8451 |
| 2929 | 000 | 3 | WILLIS AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56352998 | 804923 | 4644303 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70947 | 8461 |
| 3590 | 001 | 2 | WILLIS AVE    | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20  | 7788990006 | 56353003 | 805254 | 4644213 | S-1 | TOWN OF SEEKONK-TOWN<br>HALL STREET LIGHTS | 70950 | 8461 |

|      |     |   |              |          |              |           |                  |        |     |    |            |          |        |         |     |   |       |      |
|------|-----|---|--------------|----------|--------------|-----------|------------------|--------|-----|----|------------|----------|--------|---------|-----|---|-------|------|
| 4074 | 000 | 3 | WINTHROP ST  | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56353008 | 806014 | 4633195 | S-1 | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70951 | 8501 |
| 2993 | 000 | 3 | WOODLAND AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56353018 | 805759 | 4643870 | S-1 | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70953 | 8521 |
| 3196 | 050 | 2 | WOODLAND AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 100W | Active | 100 | 30 | 7788990006 | 56353023 | 805816 | 4643882 | S-1 | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70954 | 8521 |
| 2508 | 000 | 2 | WOODWARD AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56353038 | 804667 | 4639275 | S-1 | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70957 | 8531 |
| 2530 | 000 | 2 | WOODWARD AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56353048 | 805465 | 4639490 | S-1 | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70959 | 8531 |
| 3251 | 000 | 2 | WOODWARD AVE | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56353053 | 805627 | 4639658 | S-1 | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70960 | 8531 |
| 3995 | 000 | 2 | WYNNE ST     | Overhead | Distribution | Luminaire | LUM HPS RWY 50W  | Active | 50  | 20 | 7788990006 | 56353063 | 804226 | 4639282 | S-1 | TOWN OF SEEKONK-TOWN HALL STREET LIGHTS | 70962 | 8541 |

Town of Seekonk

Inventory of Eligible Inactive Street Lights for LED Conversion as of October 19, 2017

| Pole No | Pole Suffix | Light Seq. No | Street Name  | Source Type | Pole Use        | Component Type | Bill Print and Tarrif Description | Billing Status | Wattage | Customer LED Choice By Wattage | Account | ID_GIS   | X-Coordinate | Y-Coordinate | Rate Class | Customer Name | Ngrid Location Id | Ngrid Line No |
|---------|-------------|---------------|--------------|-------------|-----------------|----------------|-----------------------------------|----------------|---------|--------------------------------|---------|----------|--------------|--------------|------------|---------------|-------------------|---------------|
| 5042    | 000         | 2             | ARROWHEAD DR | Overhead    | Distribution    | Luminaire      | LUM HPS RWY 50W                   | Red Cap Perm   | 50      |                                | 0       | 0        |              |              | S-1        |               | 70283             | 6071          |
| 1971    | 001         | 2             | CENTRAL AVE  | Overhead    | Distribution    | Luminaire      | LUM HPS RWY 100W                  | Red Cap Perm   | 100     |                                | 0       | 56714843 | 804165       | 4643929      | S-1        |               | 70321             | 6401          |
| 5106    | 000         | 3             | COUNTY ST    | Overhead    | Distribution    | Luminaire      | LUM HPS RWY 100W                  | Red Cap Perm   | 100     |                                | 0       | 56350108 | 805170       | 4635462      | S-1        |               | 70392             | 6551          |
| 2286    | 000         | 2             | EDWARDS AVE  | Overhead    | Distribution    | Luminaire      | LUM HPS RWY 50W                   | Red Cap Perm   | 50      |                                | 0       | 56350153 | 804237       | 4644087      | S-1        |               | 70402             | 6661          |
| 2289    | 000         | 1             | EDWARDS AVE  | Overhead    | Distribution    | Luminaire      | LUM HPS RWY 50W                   | Red Cap Perm   | 50      |                                | 0       | 56725392 | 804137       | 4644165      | S-1        |               | 70403             | 6661          |
| 2661    | 000         | 2             | HAIG AVE     | Overhead    | Distribution    | Luminaire      | LUM HPS RWY 50W                   | Red Cap Perm   | 50      |                                | 0       | 56350997 | 804299       | 4644133      | S-1        |               | 70555             | 6961          |
| 4437    | 000         | 2             | HILL RD      | Overhead    | Distribution    | Luminaire      | LUM HPS RWY 50W                   | Red Cap Perm   | 50      |                                | 0       | 56351072 | 805652       | 4636984      | S-1        |               | 70570             | 7031          |
| 1728    | 000         | 2             | JACOB ST     | Overhead    | Distribution    | Luminaire      | LUM HPS RWY 50W                   | Red Cap Perm   | 50      |                                | 0       | 56351346 | 807464       | 4638554      | S-1        |               | 70621             | 7171          |
| 4094    | 000         | 2             | KENT DR      | Overhead    | Distribution    | Luminaire      | LUM HPS RWY 50W                   | Red Cap Perm   | 50      |                                | 0       | 56351356 | 804191       | 4641765      | S-1        |               | 70623             | 7271          |
| 0845    | 000         | 2             | LINCOLN ST   | Overhead    | Distribution    | Luminaire      | LUM HPS RWY 50W                   | Red Cap Perm   | 50      |                                | 0       | 56351511 | 807015       | 4637301      | S-1        |               | 70655             | 7351          |
| 3642    | 000         | 2             | NEWMAN AVE   | Overhead    | Distribution    | Luminaire      | LUM HPS RWY 100W                  | Red Cap Perm   | 100     |                                | 0       | 56351973 | 804249       | 4643041      | S-1        |               | 70744             | 7581          |
| 3827    | 000         | 2             | OLIN AVE     | Overhead    | Distribution    | Luminaire      | LUM HPS RWY 50W                   | Red Cap Perm   | 50      |                                | 0       | 56352118 | 804603       | 4635220      | S-1        |               | 70774             | 7681          |
| 4610    | 000         | 4             | TAUNTON AVE  | Overhead    | Street Lighting | Luminaire      | LUM MV RWY 400W                   | Red Cap Perm   | 400     |                                | 0       | 0        |              |              | S-1        |               | 70912             | 8181          |
| 2523    | 000         | 2             | WOODWARD AVE | Overhead    | Distribution    | Luminaire      | LUM HPS RWY 100W                  | Red Cap Perm   | 100     |                                | 0       | 56353043 | 805164       | 4639506      | S-1        |               | 70958             | 8531          |

Massachusetts Electric Company d/b/a National Grid  
Illustrative cost per unit comparison between existing HPS roadway luminaires and potential LED luminaire replacements  
Town of Seekonk

1. This estimator is to be used as a guidance tool only. The replacement LED fixture option is the customer's choice and should be based on roadway classification needs.  
2. Rates are based on the current approved tariff rates (August 2017) and are subject to change at any time  
\* Lower wattage offering for customer if they chose this option  
\*\* Basic Service is the Fixed Price option offered by National Grid. This may vary depending on the Customer's choice of energy provider.

| Existing Wattage  | # of Units to Convert | Annual Kwh Per Year | Total Annual Kwh Per Year | Basic Service Rate Per Kwh | Delivery Service Rate Per Kwh | Combined Delivery and Service | Annual Billed ( Basic and Delivery) | Annual Luminaire Charge | Total Luminaire Charge | Total Annual Charges( Delivery and Luminaire) | Proposed LED Replacement Luminaire | Annual Kwh Per Year | Total Annual Kwh Per Year | Basic Service Rate Per Kwh | Delivery Service Rate Per Kwh | Combined Delivery and Service | Annual Billed ( Basic and Delivery) | Annual Luminaire Charge | Total Luminaire Charge | Total Annual Charges( Delivery and Luminaire) | Annual Savings ( ) or Cost per Year |
|-------------------|-----------------------|---------------------|---------------------------|----------------------------|-------------------------------|-------------------------------|-------------------------------------|-------------------------|------------------------|---|------------------------------------|---------------------|---------------------------|----------------------------|-------------------------------|-------------------------------|-------------------------------------|-------------------------|------------------------|---|-------------------------------------|
| LUM HPS RWY 50W   | 361                   | 255                 | 92055                     | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 13,392.16                        | \$ 70.66                | \$ 25,508.26           | \$ 38,900.42                                  | LUM LED RWY 30W                    | 130                 | 46930                     | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 6,827.38                         | \$ 91.34                | \$ 32,973.74           | \$ 39,801.12                                  | \$ (900.70)                         |
| LUM HPS RWY 50W*  | 0                     | 255                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 70.66                | \$ -                   | \$ -  | LUM LED RWY 20W                    | 88                  | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 91.63                | \$ -                   | \$ -  | \$ -                                |
| LUM HPS RWY 70W   | 0                     | 359                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 86.86                | \$ -                   | \$ -  | LUM LED RWY 30W                    | 130                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 91.34                | \$ -                   | \$ -  | \$ -                                |
| LUM HPS RWY 70W*  | 0                     | 359                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 86.86                | \$ -                   | \$ -  | LUM LED RWY 20W                    | 88                  | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 91.63                | \$ -                   | \$ -  | \$ -                                |
| LUM HPS RWY 100W  | 34                    | 493                 | 16762                     | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 2,438.54                         | \$ 94.79                | \$ 3,222.86            | \$ 5,661.40                                   | LUM LED RWY 60W                    | 255                 | 8670                      | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 1,261.31                         | \$ 101.97               | \$ 3,466.98            | \$ 4,728.29                                   | \$ 933.10                           |
| LUM HPS RWY 150W  | 0                     | 722                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 106.27               | \$ -                   | \$ -  | LUM LED RWY 60W                    | 255                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 101.97               | \$ -                   | \$ -  | \$ -                                |
| LUM HPS RWY 250W  | 79                    | 1269                | 100251                    | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 14,584.52                        | \$ 142.16               | \$ 11,230.64           | \$ 25,815.16                                  | LUM LED RWY 140W                   | 589                 | 46531                     | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 6,769.33                         | \$ 160.17               | \$ 12,653.43           | \$ 19,422.76                                  | \$ 6,392.40                         |
| LUM HPS RWY 400W  | 4                     | 1962                | 7848                      | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 1,141.73                         | \$ 202.95               | \$ 811.80              | \$ 1,953.53                                   | LUM LED RWY 275W                   | 1153                | 4612                      | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 670.95                           | \$ 209.03               | \$ 836.12              | \$ 1,507.07                                   | \$ 446.45                           |
| LUM HPS RWY 400W  | 0                     | 1962                | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 202.95               | \$ -                   | \$ -  | LUM LED RWY 140W                   | 589                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 160.17               | \$ -                   | \$ -  | \$ -                                |
| LUM HPS RWY 1000W | 0                     | 4618                | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 326.78               | \$ -                   | \$ -  | LUM LED RWY 275W                   | 1153                | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 209.03               | \$ -                   | \$ -  | \$ -                                |
| LUM MV RWY 100W   | 1                     | 543                 | 543                       | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 79.00                            | \$ 70.20                | \$ 70.20               | \$ 149.20                                     | LUM LED RWY 20W                    | 88                  | 88                        | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 12.80                            | \$ 91.63                | \$ 91.63               | \$ 104.43                                     | \$ 44.76                            |
| LUM MV RWY 175W   | 0                     | 881                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 85.67                | \$ -                   | \$ -  | LUM LED RWY 30W                    | 130                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 91.34                | \$ -                   | \$ -  | \$ -                                |
| LUM MV RWY 250W   | 0                     | 1282                | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 114.44               | \$ -                   | \$ -  | LUM LED RWY 60W                    | 255                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 101.97               | \$ -                   | \$ -  | \$ -                                |
| LUM MV RWY 400W   | 1                     | 1991                | 1991                      | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 289.65                           | \$ 156.65               | \$ 156.65              | \$ 446.30                                     | LUM LED RWY 140W                   | 589                 | 589                       | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 85.69                            | \$ 160.17               | \$ 160.17              | \$ 245.86                                     | \$ 200.44                           |
| LUM MV RWY 1000W  | 0                     | 4572                | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 305.88               | \$ -                   | \$ -  | LUM LED RWY 275W                   | 1153                | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 209.03               | \$ -                   | \$ -  | \$ -                                |
| LUM INC RWY 105W  | 0                     | 438                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 67.20                | \$ -                   | \$ -  | LUM LED RWY 20W                    | 88                  | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 91.63                | \$ -                   | \$ -  | \$ -                                |
| LUM INC RWY 205W  | 0                     | 856                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 91.76                | \$ -                   | \$ -  | LUM LED RWY 20W                    | 88                  | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 91.63                | \$ -                   | \$ -  | \$ -                                |
| LUM HPS POST 50W  | 0                     | 255                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 158.50               | \$ -                   | \$ -  | LUM LED POST 60W                   | 255                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 148.88               | \$ -                   | \$ -  | \$ -                                |
| LUM HPS POST 100W | 0                     | 493                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 166.40               | \$ -                   | \$ -  | LUM LED POST 60W                   | 255                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 148.88               | \$ -                   | \$ -  | \$ -                                |
| LUM MV POST 100W  | 0                     | 543                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 80.45                | \$ -                   | \$ -  | LUM LED POST 60W                   | 255                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 148.88               | \$ -                   | \$ -  | \$ -                                |
| LUM MV POST 175W  | 0                     | 881                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 111.91               | \$ -                   | \$ -  | LUM LED POST 60W                   | 255                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 148.88               | \$ -                   | \$ -  | \$ -                                |

|              |     |  |        |  |  |  |              |  |              |              |  |  |        |  |  |  |              |  |              |              |             |
|--------------|-----|--|--------|--|--|--|--------------|--|--------------|--------------|--|--|--------|--|--|--|--------------|--|--------------|--------------|-------------|
| GRAND TOTALS | 480 |  | 219450 |  |  |  | \$ 31,925.59 |  | \$ 41,000.41 | \$ 72,926.00 |  |  | 107420 |  |  |  | \$ 15,627.46 |  | \$ 50,182.07 | \$ 65,809.53 | \$ 7,116.46 |
|--------------|-----|--|--------|--|--|--|--------------|--|--------------|--------------|--|--|--------|--|--|--|--------------|--|--------------|--------------|-------------|

|                         |
|-------------------------|
| LED Available Offerings |
| LUM LED RWY 20W         |
| LUM LED RWY 30W         |
| LUM LED RWY 60W         |
| LUM LED RWY 140W        |
| LUM LED RWY 275W        |
| LUM LED POST 60W        |

Program Summary

|  | HPS          | LED          | Cost / (Savings) |
|--|--------------|--------------|------------------|
| Total number of units to be converted          | 480          | 480          |                  |
| Annual Billed ( Basic and Delivery)            | \$ 31,925.59 | \$ 15,627.46 | \$ (16,298.12)   |
| Total Luminaire Charge                         | \$ 41,000.41 | \$ 50,182.07 | \$ 9,181.66      |
| Total Charges ( Basic, Delivery and Luminaire) | \$ 72,926.00 | \$ 65,809.53 | \$ (7,116.46)    |

Massachusetts Electric Company d/b/a National Grid  
Illustrative cost per unit comparison between existing HPS roadway luminaires and potential LED luminaire replacements  
Town of Seekonk

1. This estimator is to be used as a guidance tool only. The replacement LED fixture option is the customer's choice and should be based on roadway classification needs.  
2. Rates are based on the current approved tariff rates (August 2017) and are subject to change at any time  
\* Lower wattage offering for customer if they chose this option  
\*\* Basic Service is the Fixed Price option offered by National Grid. This may vary depending on the Customer's choice of energy provider.

| Existing Wattage  | # of Units to Convert | Annual Kwh Per Year | Total Annual Kwh Per Year | Basic Service Rate Per Kwh | Delivery Service Rate Per Kwh | Combined Delivery and Service | Annual Billed ( Basic and Delivery) | Annual Luminaire Charge | Total Luminaire Charge | Total Annual Charges( Delivery and Luminaire) | Proposed LED Replacement Luminaire | Annual Kwh Per Year | Total Annual Kwh Per Year | Basic Service Rate Per Kwh | Delivery Service Rate Per Kwh | Combined Delivery and Service | Annual Billed ( Basic and Delivery) | Annual Luminaire Charge | Total Luminaire Charge | Total Annual Charges( Delivery and Luminaire) | Annual Savings ( ) or Cost per Year |
|-------------------|-----------------------|---------------------|---------------------------|----------------------------|-------------------------------|-------------------------------|-------------------------------------|-------------------------|------------------------|---|------------------------------------|---------------------|---------------------------|----------------------------|-------------------------------|-------------------------------|-------------------------------------|-------------------------|------------------------|---|-------------------------------------|
| LUM HPS RWY 50W   | 0                     | 255                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 70.66                | \$ -                   | \$ -  | LUM LED RWY 30W                    | 130                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 91.34                | \$ -                   | \$ -  | \$ -                                |
| LUM HPS RWY 50W*  | 361                   | 255                 | 92055                     | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 13,392.16                        | \$ 70.66                | \$ 25,508.26           | \$ 38,900.42                                  | LUM LED RWY 20W                    | 88                  | 31768                     | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 4,621.61                         | \$ 91.63                | \$ 33,078.43           | \$ 37,700.04                                  | \$ 1,200.38                         |
| LUM HPS RWY 70W   | 0                     | 359                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 86.86                | \$ -                   | \$ -  | LUM LED RWY 30W                    | 130                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 91.34                | \$ -                   | \$ -  | \$ -                                |
| LUM HPS RWY 70W*  | 0                     | 359                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 86.86                | \$ -                   | \$ -  | LUM LED RWY 20W                    | 88                  | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 91.63                | \$ -                   | \$ -  | \$ -                                |
| LUM HPS RWY 100W  | 34                    | 493                 | 16762                     | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 2,438.54                         | \$ 94.79                | \$ 3,222.86            | \$ 5,661.40                                   | LUM LED RWY 60W                    | 255                 | 8670                      | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 1,261.31                         | \$ 101.97               | \$ 3,466.98            | \$ 4,728.29                                   | \$ 933.10                           |
| LUM HPS RWY 150W  | 0                     | 722                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 106.27               | \$ -                   | \$ -  | LUM LED RWY 60W                    | 255                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 101.97               | \$ -                   | \$ -  | \$ -                                |
| LUM HPS RWY 250W  | 79                    | 1269                | 100251                    | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 14,584.52                        | \$ 142.16               | \$ 11,230.64           | \$ 25,815.16                                  | LUM LED RWY 140W                   | 589                 | 46531                     | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 6,769.33                         | \$ 160.17               | \$ 12,653.43           | \$ 19,422.76                                  | \$ 6,392.40                         |
| LUM HPS RWY 400W  | 0                     | 1962                | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 202.95               | \$ -                   | \$ -  | LUM LED RWY 275W                   | 1153                | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 209.03               | \$ -                   | \$ -  | \$ -                                |
| LUM HPS RWY 400W  | 4                     | 1962                | 7848                      | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 1,141.73                         | \$ 202.95               | \$ 811.80              | \$ 1,953.53                                   | LUM LED RWY 140W                   | 589                 | 2356                      | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 342.75                           | \$ 160.17               | \$ 640.68              | \$ 983.43                                     | \$ 970.10                           |
| LUM HPS RWY 1000W | 0                     | 4618                | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 326.78               | \$ -                   | \$ -  | LUM LED RWY 275W                   | 1153                | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 209.03               | \$ -                   | \$ -  | \$ -                                |
| LUM MV RWY 100W   | 1                     | 543                 | 543                       | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 79.00                            | \$ 70.20                | \$ 70.20               | \$ 149.20                                     | LUM LED RWY 20W                    | 88                  | 88                        | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ 12.80                            | \$ 91.63                | \$ 91.63               | \$ 104.43                                     | \$ 44.76                            |
| LUM MV RWY 175W   | 0                     | 881                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 85.67                | \$ -                   | \$ -  | LUM LED RWY 30W                    | 130                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 91.34                | \$ -                   | \$ -  | \$ -                                |
| LUM MV RWY 250W   | 0                     | 1282                | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 114.44               | \$ -                   | \$ -  | LUM LED RWY 60W                    | 255                 | 0                         | \$0.08791                  | \$0.05757                     | \$0.14548                     | \$ -                                | \$ 101.97               | \$ -                   | \$ -  | \$ -                                |

|                   |   |      |      |           |           |           |    |        |    |        |    |        |    |        |                  |      |     |           |           |           |    |       |    |        |    |        |    |        |    |        |
|-------------------|---|------|------|-----------|-----------|-----------|----|--------|----|--------|----|--------|----|--------|------------------|------|-----|-----------|-----------|-----------|----|-------|----|--------|----|--------|----|--------|----|--------|
| LUM MV RWY 400W   | 1 | 1991 | 1991 | \$0.08791 | \$0.05757 | \$0.14548 | \$ | 289.65 | \$ | 156.65 | \$ | 156.65 | \$ | 446.30 | LUM LED RWY 140W | 589  | 589 | \$0.08791 | \$0.05757 | \$0.14548 | \$ | 85.69 | \$ | 160.17 | \$ | 160.17 | \$ | 245.86 | \$ | 200.44 |
| LUM MV RWY 1000W  | 0 | 4572 | 0    | \$0.08791 | \$0.05757 | \$0.14548 | \$ | -      | \$ | 305.88 | \$ | -      | \$ | -      | LUM LED RWY 275W | 1153 | 0   | \$0.08791 | \$0.05757 | \$0.14548 | \$ | -     | \$ | 209.03 | \$ | -      | \$ | -      | \$ | -      |
| LUM INC RWY 105W  | 0 | 438  | 0    | \$0.08791 | \$0.05757 | \$0.14548 | \$ | -      | \$ | 67.20  | \$ | -      | \$ | -      | LUM LED RWY 20W  | 88   | 0   | \$0.08791 | \$0.05757 | \$0.14548 | \$ | -     | \$ | 91.63  | \$ | -      | \$ | -      | \$ | -      |
| LUM INC RWY 205W  | 0 | 856  | 0    | \$0.08791 | \$0.05757 | \$0.14548 | \$ | -      | \$ | 91.76  | \$ | -      | \$ | -      | LUM LED RWY 20W  | 88   | 0   | \$0.08791 | \$0.05757 | \$0.14548 | \$ | -     | \$ | 91.63  | \$ | -      | \$ | -      | \$ | -      |
| LUM HPS POST 50W  | 0 | 255  | 0    | \$0.08791 | \$0.05757 | \$0.14548 | \$ | -      | \$ | 158.50 | \$ | -      | \$ | -      | LUM LED POST 60W | 255  | 0   | \$0.08791 | \$0.05757 | \$0.14548 | \$ | -     | \$ | 148.88 | \$ | -      | \$ | -      | \$ | -      |
| LUM HPS POST 100W | 0 | 493  | 0    | \$0.08791 | \$0.05757 | \$0.14548 | \$ | -      | \$ | 166.40 | \$ | -      | \$ | -      | LUM LED POST 60W | 255  | 0   | \$0.08791 | \$0.05757 | \$0.14548 | \$ | -     | \$ | 148.88 | \$ | -      | \$ | -      | \$ | -      |
| LUM MV POST 100W  | 0 | 543  | 0    | \$0.08791 | \$0.05757 | \$0.14548 | \$ | -      | \$ | 80.45  | \$ | -      | \$ | -      | LUM LED POST 60W | 255  | 0   | \$0.08791 | \$0.05757 | \$0.14548 | \$ | -     | \$ | 148.88 | \$ | -      | \$ | -      | \$ | -      |
| LUM MV POST 175W  | 0 | 881  | 0    | \$0.08791 | \$0.05757 | \$0.14548 | \$ | -      | \$ | 111.91 | \$ | -      | \$ | -      | LUM LED POST 60W | 255  | 0   | \$0.08791 | \$0.05757 | \$0.14548 | \$ | -     | \$ | 148.88 | \$ | -      | \$ | -      | \$ | -      |

|              |     |        |  |  |    |           |  |    |           |    |           |  |       |  |    |           |  |    |           |    |           |    |          |
|--------------|-----|--------|--|--|----|-----------|--|----|-----------|----|-----------|--|-------|--|----|-----------|--|----|-----------|----|-----------|----|----------|
| GRAND TOTALS | 480 | 219450 |  |  | \$ | 31,925.59 |  | \$ | 41,000.41 | \$ | 72,926.00 |  | 90002 |  | \$ | 13,093.49 |  | \$ | 50,091.32 | \$ | 63,184.81 | \$ | 9,741.19 |
|--------------|-----|--------|--|--|----|-----------|--|----|-----------|----|-----------|--|-------|--|----|-----------|--|----|-----------|----|-----------|----|----------|

|                         |
|-------------------------|
| LED Available Offerings |
| LUM LED RWY 20W         |
| LUM LED RWY 30W         |
| LUM LED RWY 60W         |
| LUM LED RWY 140W        |
| LUM LED RWY 275W        |
| LUM LED POST 60W        |

| Program Summary                                |              |              |                  |
|--|--------------|--------------|------------------|
|  | HPS          | LED          | Cost / (Savings) |
| Total number of units to be converted          | 480          | 480          |                  |
| Annual Billed ( Basic and Delivery)            | \$ 31,925.59 | \$ 13,093.49 | \$ (18,832.10)   |
| Total Luminaire Charge                         | \$ 41,000.41 | \$ 50,091.32 | \$ 9,090.91      |
| Total Charges ( Basic, Delivery and Luminaire) | \$ 72,926.00 | \$ 63,184.81 | \$ (9,741.19)    |

### Policies that Affect Fleet Gas and Diesel Usage

|   |            |  |
|---|------------|--|
| <b>Anti-Idling Policy</b>   |            |  |
| All FY 2017 Gasoline Usage (Gallons)  | 48,665     |  |
| All FY 2017 Diesel Usage (Gallons)  | 21,480     |  |
| Percent Savings   | 3%         | Idling vehicles contribute significantly to air pollution and waste fuel, increasing fleet management costs. Municipalities across the Commonwealth and the nation have seen significant cost and greenhouse gas emission reductions since implementing Town-wide “no-idling” policies for municipal vehicles. In many cases this has been as much as a 3% decrease. |
| Gallons of Gasoline Saved per Year  | 1,460      |  |
| Gallons of Diesel Saved per Year  | 644        |  |
| <b>MMBTUs Saved per Year</b>  | <b>272</b> |  |
|   |            |  |
| <b>Closely Monitor Tire Air Pressure, Use 100% Synthetic Oil &amp; Use Fuel Efficient Tires</b> |            |  |
| All FY 2017 Gasoline Usage (Gallons)  | 48,665     |  |
| All FY 2017 Diesel Usage (Gallons)  | 21,480     |  |
| Percent Savings   | 3%         | Maintaining appropriate air pressure in vehicle tires, using 100% synthetic oil and using fuel efficient tires can decrease a vehicles fuel consumption by as much as 3%.  |
| Gallons of Gasoline Saved per Year  | 1,460      |  |
| Gallons of Diesel Saved per Year  | 644        |  |
| <b>MMBTUs Saved per Year</b>  | <b>272</b> |  |
| <b>Total MMBTUs Saved</b>   | <b>544</b> |  |

## MMBtu Conversion Chart

*Fuel Energy Content of Common Fossil Fuels per DOE/EIA*

**BTU Content of Common Energy Units – (1 million Btu equals 1 MMBtu)**

- 1 kilowatt hour of electricity = 0.003412 MMBtu
- 1 therm = 0.1 MMBtu
- 1 ccf (100 cubic foot) of natural gas = 0.1028 MMBtu (based on U.S. consumption, 2007)
- 1 gallon heating oil = 0.139 MMBtu
- 1 gallon of propane = 0.091 MMBtu
- 1 cord of wood = 20 MMBtu
- 1 gallon of gasoline = 0.124 MMBtu (based on U.S. Consumption, 2007)
- 1 gallon of E100 ethanol = 0.084 MMBtu
- 1 gallon of E85 ethanol = 0.095 MMBtu
- 1 gallon of diesel fuel = 0.139 MMBtu
- 1 gallon of B100 biodiesel = 0.129 MMBtu
- 1 gallon of B20 biodiesel = 0.136 MMBtu
- 1 gallon of B10 biodiesel = 0.137 MMBtu
- 1 gallon of B5 biodiesel = 0.138 MMBtu
- 1 barrel of residual fuel oil = 6.287 MMBtu