

# STREET & AREA LIGHTING

February 6, 2023

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## DECORATIVE LIGHT OPTIONS



### Holophane Arlington LED

#### Available with:

- 14-foot pole.
- 6,500 lumen lantern-style fixture.
- 4,000K color temperature.
- Black finish.



### Holophane Granville II LED

#### Available with:

- 14-foot pole.
- 7,000 lumen acorn-style fixture.
- 4,000K color temperature.
- Black finish.



### Holophane Esplanade LED Pendant

#### Available with:

- 30-foot pole.
- 19,700 lumen hour drop-style fixture.
- 4,000K color temperature.
- Black finish.

### Pole options

Lighting is provided with the following pole options.

- A 14-foot pole option is available for pole-top mounted fixtures.
- A 30-foot pole option is available for pendant fixtures and includes a decorative arm.
- Each pole has a "twist-lock" 120 volt receptacle for adding plug-in style decorations.
- Poles are tapered, fluted aluminum tubes.
- Poles include decoration hooks and banner arms.
- Black powder-coated finish.

### Decorative LED lighting monthly rate

As of September 30, 2021, the following rates apply per fixture.

| Decorative lights | Drift sheet | DLEDA7 Arlington | DLEDG7 Granville | DLEDE17 Esplanade |
|-------------------|-------------|------------------|------------------|-------------------|
| Minnesota         | 11 07       | \$87.77          | \$86.11          | \$110.56          |
| North Dakota      | 11 07       | \$87.77          | \$86.11          | \$110.56          |
| South Dakota      | 11 07       | \$87.77          | \$86.11          | \$111.27          |

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## DECORATIVE LIGHTING OPTIONS

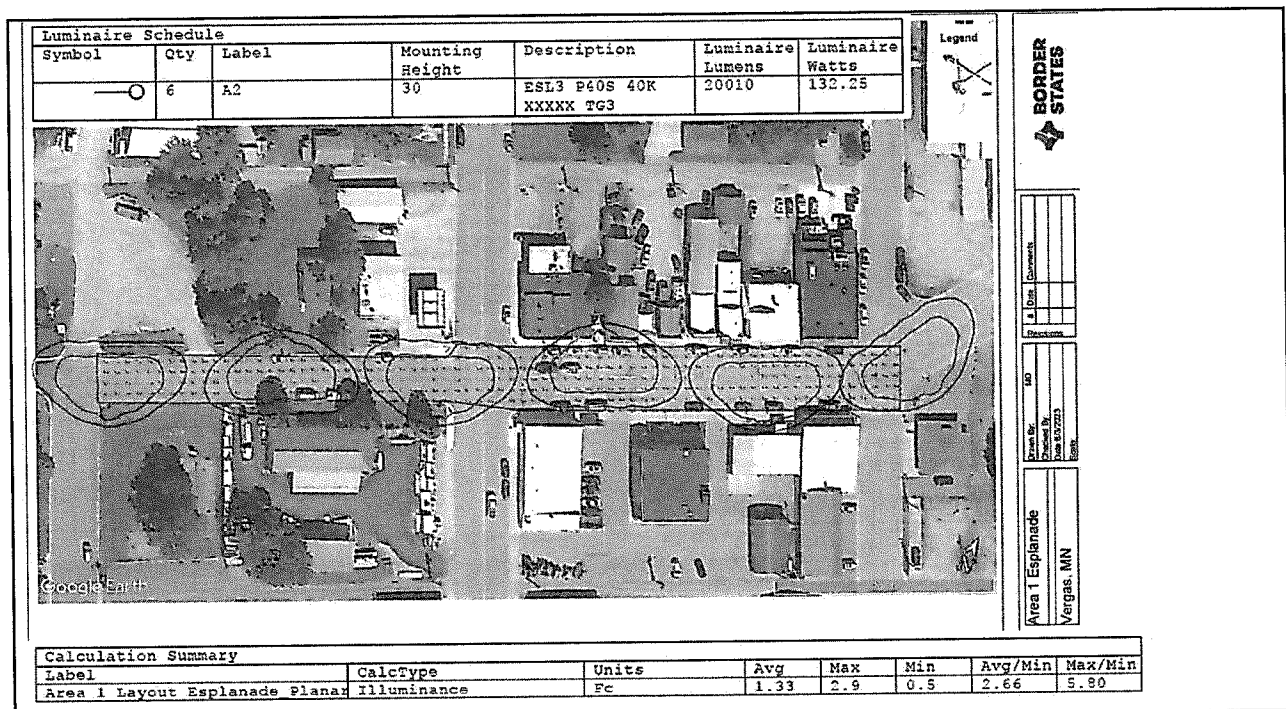
Maintain a safer environment for your community with professionally-designed lighting



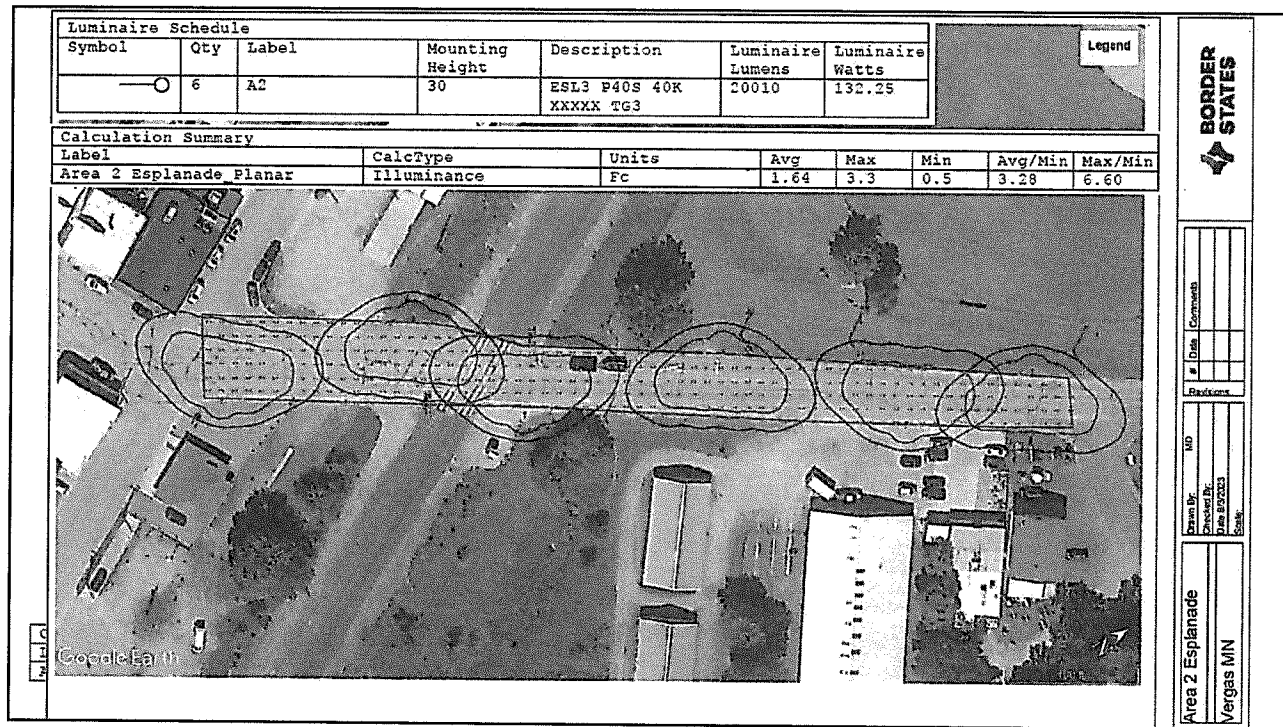
Our decorative LED lighting program offers several benefits to city leaders, administrators, and business managers including:

- A fixed-fee format that simplifies annual budgeting.
- Little to no capital investment.
- Reduced or eliminated need for maintenance staff and equipment.
- An attractive and turn-key lighting system designed by a lighting-design professional.

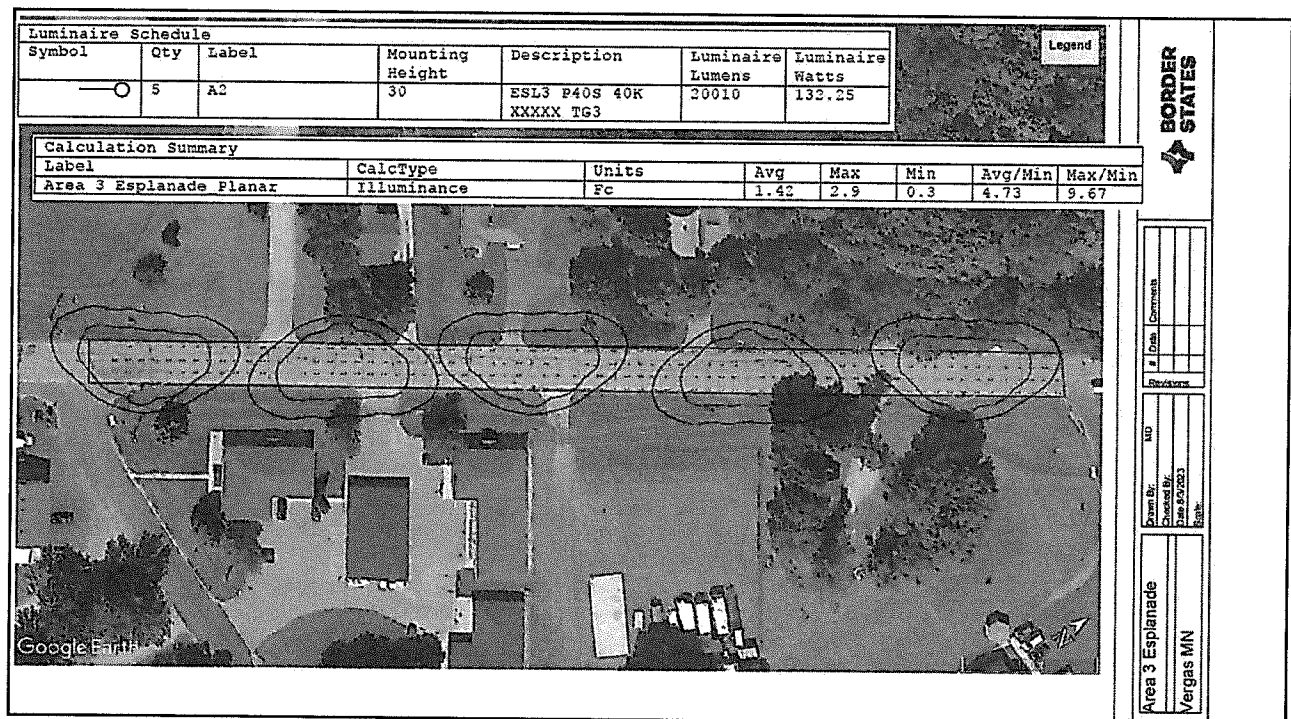
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| Luminaire Schedule |     |       |                 |                            |                  |                 |
|--------------------|-----|-------|-----------------|----------------------------|------------------|-----------------|
| Symbol             | Qty | Label | Mounting Height | Description                | Luminaire Lumens | Luminaire Watts |
| —○                 | 4   | A2    | 30              | ESL3 P40S 40K<br>XXXXX TG3 | 20010            | 132.25          |

| Calculation Summary     |             |       |      |     |     |         |
|-------------------------|-------------|-------|------|-----|-----|---------|
| Label                   | CalcType    | Units | Avg  | Max | Min | Avg/Min |
| Area 4 Esplanade Planar | Illuminance | Fc    | 1.46 | 2.9 | 0.3 | 4.87    |

| BORDER STATES    |           |
|------------------|-----------|
| Area 4 Esplanade | Vergas MN |

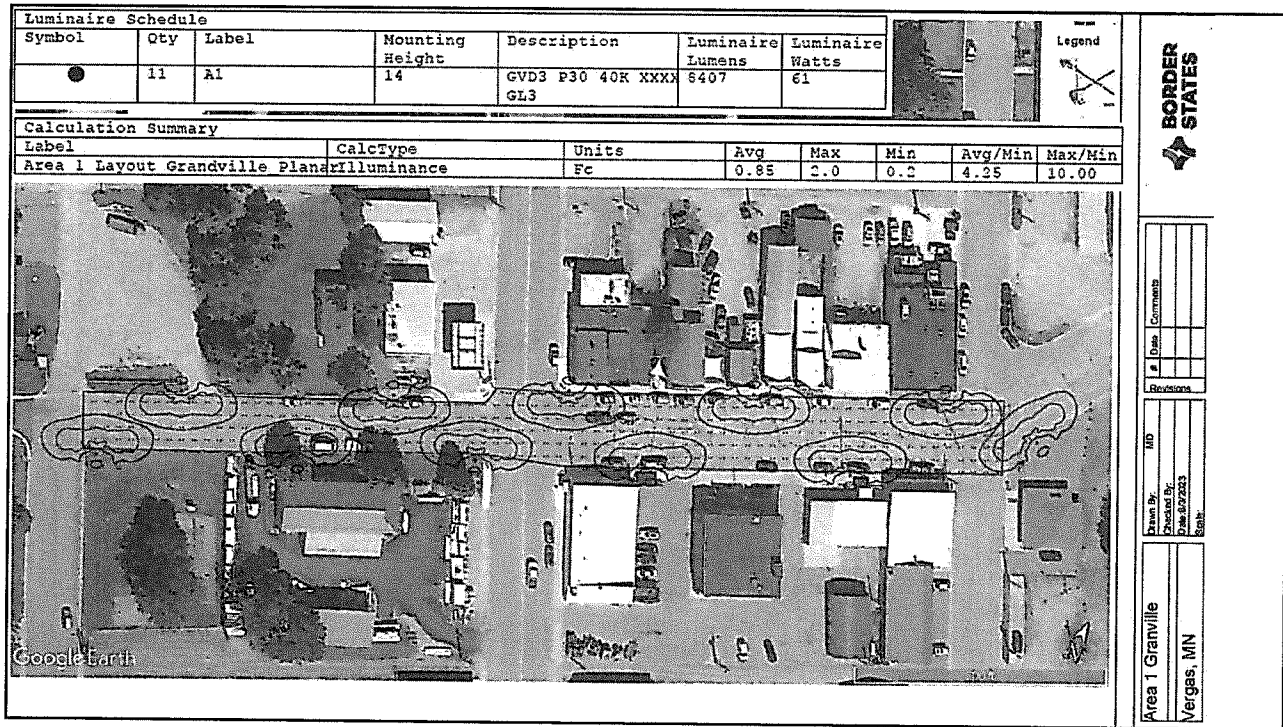
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## 30' DECORATIVE WITH ESPLANADE

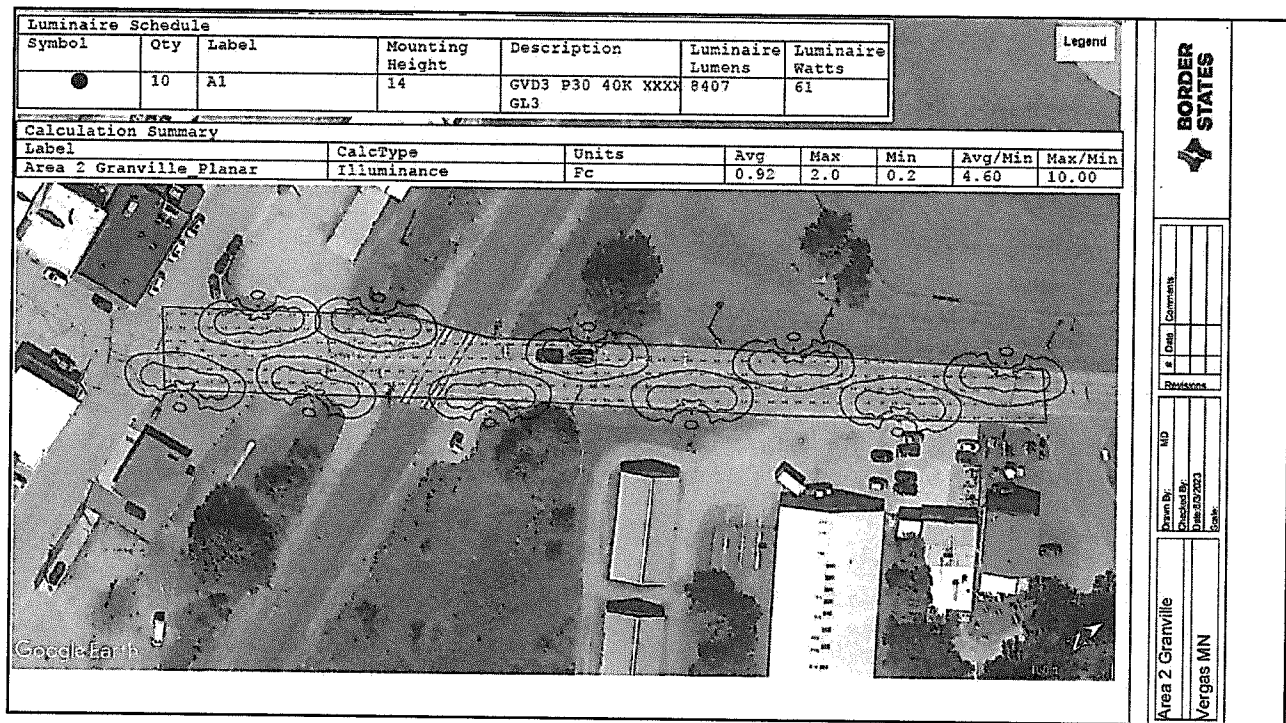
| AREA #1                            |           |     |           |  | AREA #2                            |           |     |           |  | AREA #3                            |           |     |           |  | AREA #4                            |           |     |           |  |
|------------------------------------|-----------|-----|-----------|--|------------------------------------|-----------|-----|-----------|--|------------------------------------|-----------|-----|-----------|--|------------------------------------|-----------|-----|-----------|--|
| 2nd Ave - Parkway                  |           |     |           |  | Ridge - Scharl                     |           |     |           |  | Scharl - Parkway Dr                |           |     |           |  | Parkway Dr - Park                  |           |     |           |  |
| Quantity                           | 6         |     |           |  | Quantity                           | 6         |     |           |  | Quantity                           | 6         |     |           |  | Quantity                           | 6         |     |           |  |
| Overhead Span Length               | 0         |     |           |  | Overhead Span Length               | 0         |     |           |  | Overhead Span Length               | 0         |     |           |  | Overhead Span Length               | 0         |     |           |  |
| Underground Span Length            | 1200      |     |           |  | Underground Span Length            | 1200      |     |           |  | Underground Span Length            | 1000      |     |           |  | Underground Span Length            | 800       |     |           |  |
| LED Type                           | Monthly   | Qty | Monthly   |  | LED Type                           | Monthly   | Qty | Monthly   |  | LED Type                           | Monthly   | Qty | Monthly   |  | LED Type                           | Monthly   | Qty | Monthly   |  |
| Esplanade - 30' Pole               | \$ 110.56 | 6   | \$ 663.36 |  | Esplanade - 30' Pole               | \$ 110.56 | 6   | \$ 663.36 |  | Esplanade - 30' Pole               | \$ 110.56 | 6   | \$ 663.36 |  | Esplanade - 30' Pole               | \$ 110.56 | 6   | \$ 663.36 |  |
| Underground Wire (200 ft included) | \$ 0.11   | 0   | \$ -      |  | Underground Wire (200 ft included) | \$ 0.11   | 0   | \$ -      |  | Underground Wire (200 ft included) | \$ 0.11   | 0   | \$ -      |  | Underground Wire (200 ft included) | \$ 0.11   | 0   | \$ -      |  |
| Esplanade - 30' Pole               | \$ 663.36 |     |           |  | Esplanade - 30' Pole               | \$ 663.36 |     |           |  | Esplanade - 30' Pole               | \$ 552.80 |     |           |  | Esplanade - 30' Pole               | \$ 442.24 |     |           |  |
| Pole Included                      | \$ -      |     |           |  | Pole Included                      | \$ -      |     |           |  | Pole Included                      | \$ -      |     |           |  | Pole Included                      | \$ -      |     |           |  |
| Underground Wire (200 ft included) | \$ -      |     |           |  | Underground Wire (200 ft included) | \$ -      |     |           |  | Underground Wire (200 ft included) | \$ -      |     |           |  | Underground Wire (200 ft included) | \$ -      |     |           |  |
| Monthly Charge                     | \$ 663.36 |     |           |  | Monthly Charge                     | \$ 663.36 |     |           |  | Monthly Charge                     | \$ 552.80 |     |           |  | Monthly Charge                     | \$ 442.24 |     |           |  |

Total monthly cost for all 4 areas with total of 21 poles and fixtures : \$2321.76

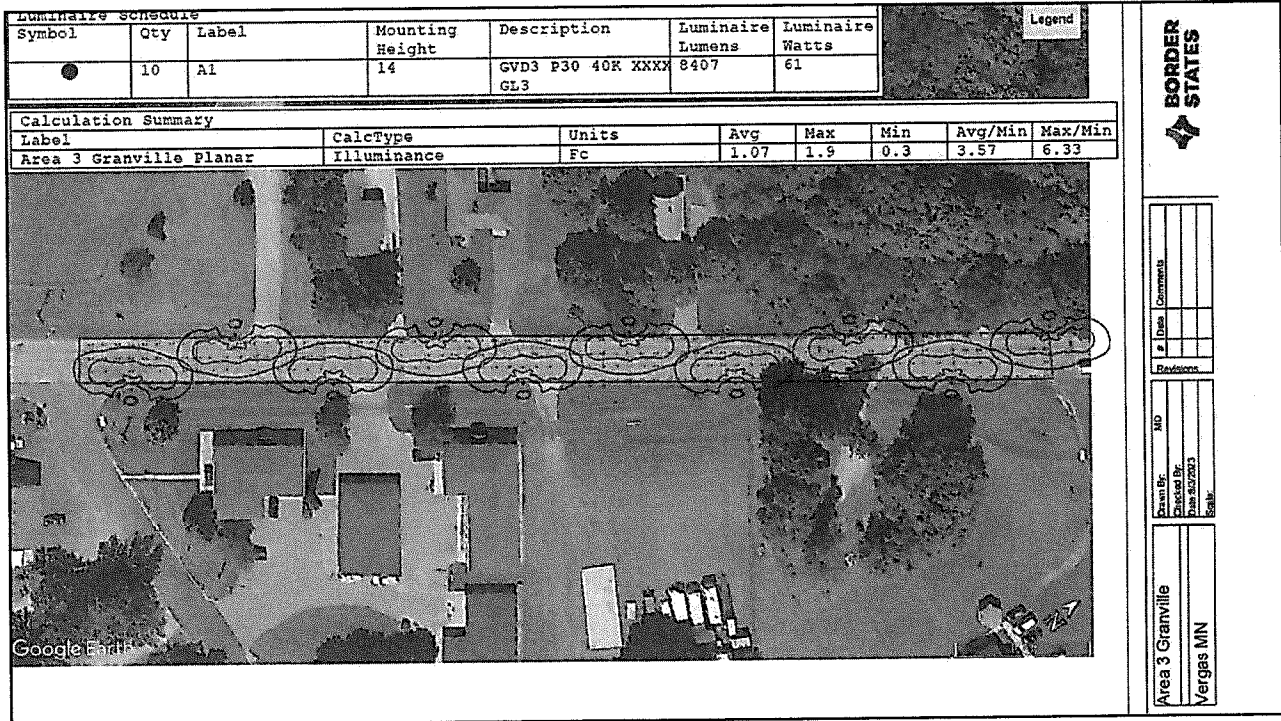
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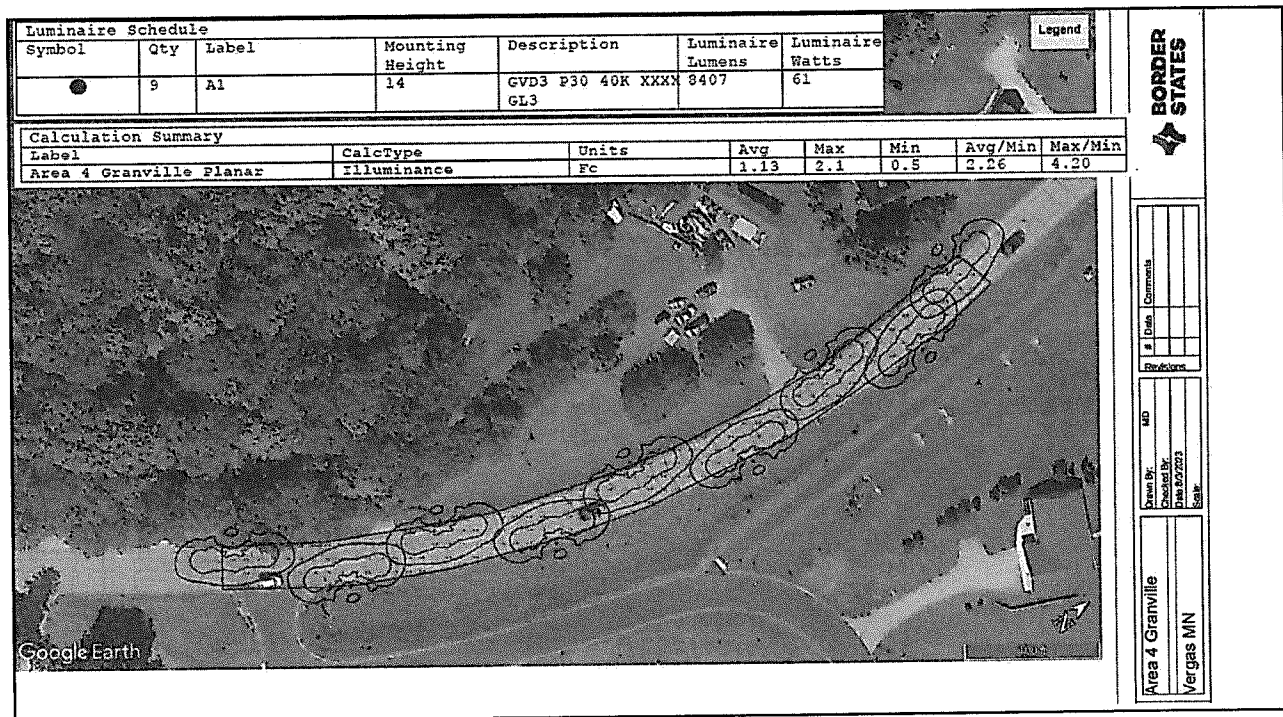
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## GRANVILLE ON 14' POLES

| AREA #1                            |           |     |           |  | AREA #2                            |           |     |           |  | AREA #3                            |           |     |           |  | AREA #4                            |           |     |           |  |
|------------------------------------|-----------|-----|-----------|--|------------------------------------|-----------|-----|-----------|--|------------------------------------|-----------|-----|-----------|--|------------------------------------|-----------|-----|-----------|--|
| 2nd Ave - Hudson                   |           |     |           |  | Hudson - Schell                    |           |     |           |  | Schell - Parkway Dr                |           |     |           |  | Parkway Dr - Park                  |           |     |           |  |
| Quantity                           | 11        |     |           |  | Quantity                           | 10        |     |           |  | Quantity                           | 10        |     |           |  | Quantity                           | 9         |     |           |  |
| Overhead Span Length               | 0         |     |           |  | Overhead Span Length               | 0         |     |           |  | Overhead Span Length               | 0         |     |           |  | Overhead Span Length               | 0         |     |           |  |
| Underground Span Length            | 2100      |     |           |  | Underground Span Length            | 2000      |     |           |  | Underground Span Length            | 2000      |     |           |  | Underground Span Length            | 1800      |     |           |  |
| LED Type                           | Monthly   | Qty | Monthly   |  | LED Type                           | Monthly   | Qty | Monthly   |  | LED Type                           | Monthly   | Qty | Monthly   |  | LED Type                           | Monthly   | Qty | Monthly   |  |
| Granville - 14' Pole               | \$ 86.11  | 11  | \$ 947.21 |  | Granville - 14' Pole               | \$ 86.11  | 10  | \$ 861.10 |  | Granville - 14' Pole               | \$ 86.11  | 10  | \$ 861.10 |  | Granville - 14' Pole               | \$ 86.11  | 9   | \$ 774.99 |  |
| Underground Wire (200 ft included) | \$ 0.11   | 0   | \$ -      |  | Underground Wire (200 ft included) | \$ 0.11   | 0   | \$ -      |  | Underground Wire (200 ft included) | \$ 0.11   | 0   | \$ -      |  | Underground Wire (200 ft included) | \$ 0.11   | 0   | \$ -      |  |
| Granville - 14' Pole               | \$ 947.21 |     |           |  | Granville - 14' Pole               | \$ 861.10 |     |           |  | Granville - 14' Pole               | \$ 861.10 |     |           |  | Granville - 14' Pole               | \$ 774.99 |     |           |  |
| Pole Included                      | \$ -      |     |           |  | Pole Included                      | \$ -      |     |           |  | Pole Included                      | \$ -      |     |           |  | 30' Pole                           | \$ -      |     |           |  |
| Underground Wire (200 ft included) | \$ -      |     |           |  | Underground Wire (200 ft included) | \$ -      |     |           |  | Underground Wire (200 ft included) | \$ -      |     |           |  | Underground Wire (200 ft included) | \$ -      |     |           |  |
| Monthly Charge                     | \$ 947.21 |     |           |  | Monthly Charge                     | \$ 861.10 |     |           |  | Monthly Charge                     | \$ 861.10 |     |           |  | Monthly Charge                     | \$ 774.99 |     |           |  |

Total monthly cost for all 4 areas with total of 40 poles and fixtures : \$3444.40

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## COMBINATION OF ESPLANADE AND GRANVILLE ON 2 BLOCKS

| AREA #1                            |           |     |           |  | AREA #2                            |           |     |           |  | AREA #3                            |           |     |           |  | AREA #4                            |           |     |           |  |
|------------------------------------|-----------|-----|-----------|--|------------------------------------|-----------|-----|-----------|--|------------------------------------|-----------|-----|-----------|--|------------------------------------|-----------|-----|-----------|--|
| 2nd Ave - Hudson                   |           |     |           |  | Hudson - Schell                    |           |     |           |  | Schell - Parkway Dr                |           |     |           |  | Parkway Dr - Park                  |           |     |           |  |
| Quantity                           | 11        |     |           |  | Quantity                           | 6         |     |           |  | Quantity                           | 5         |     |           |  | Quantity                           | 4         |     |           |  |
| Overhead Span Length               | 0         |     |           |  | Overhead Span Length               | 0         |     |           |  | Overhead Span Length               | 0         |     |           |  | Overhead Span Length               | 0         |     |           |  |
| Underground Span Length            | 2100      |     |           |  | Underground Span Length            | 1200      |     |           |  | Underground Span Length            | 1000      |     |           |  | Underground Span Length            | 800       |     |           |  |
| LED Type                           | Monthly   | Qty | Monthly   |  | LED Type                           | Monthly   | Qty | Monthly   |  | LED Type                           | Monthly   | Qty | Monthly   |  | LED Type                           | Monthly   | Qty | Monthly   |  |
| Granville - 14' Pole               | \$ 86.11  | 11  | \$ 947.21 |  | Granville - 14' Pole               | \$ 86.11  | 5   | \$ -      |  | Granville - 14' Pole               | \$ 86.11  | 5   | \$ -      |  | Granville - 14' Pole               | \$ 86.11  | 4   | \$ -      |  |
| Esplanade - 30' Pole               | \$ 110.56 | 5   | \$ -      |  | Esplanade - 30' Pole               | \$ 110.56 | 5   | \$ 552.80 |  | Esplanade - 30' Pole               | \$ 110.56 | 5   | \$ 552.80 |  | Esplanade - 30' Pole               | \$ 110.56 | 4   | \$ 442.24 |  |
| Underground Wire (200 ft included) | \$ 0.11   | 0   | \$ -      |  | Underground Wire (200 ft included) | \$ 0.11   | 0   | \$ -      |  | Underground Wire (200 ft included) | \$ 0.11   | 0   | \$ -      |  | Underground Wire (200 ft included) | \$ 0.11   | 0   | \$ -      |  |
| Granville - 14' Pole               | \$ 947.21 |     |           |  | Esplanade - 30' Pole               | \$ 552.80 |     |           |  | Esplanade - 30' Pole               | \$ 552.80 |     |           |  | Esplanade - 30' Pole               | \$ 442.24 |     |           |  |
| Pole Included                      | \$ -      |     |           |  | Pole Included                      | \$ -      |     |           |  | Pole Included                      | \$ -      |     |           |  | 30' Pole                           | \$ -      |     |           |  |
| Underground Wire (200 ft included) | \$ -      |     |           |  | Underground Wire (200 ft included) | \$ -      |     |           |  | Underground Wire (200 ft included) | \$ -      |     |           |  | Underground Wire (200 ft included) | \$ -      |     |           |  |
| Monthly Charge                     | \$ 947.21 |     |           |  | Monthly Charge                     | \$ 552.80 |     |           |  | Monthly Charge                     | \$ 552.80 |     |           |  | Monthly Charge                     | \$ 442.24 |     |           |  |

Total monthly cost for all 4 areas with total of 11 Granville and 15 Esplanades: \$2605.61

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## SERVICES INCLUDED

**UNDERGROUND SERVICE SUPPLIED BY THE COMPANY:** If the Customer requests underground service to a new outdoor lighting unit for which overhead service is otherwise available, the Company will supply up to 200 feet of wire and add an additional \$2.52 to the monthly rate specified above. This applies to the following lights: LED5, LED8, LED10, LED20-Flood, and LED30-Flood.

If overhead service is not available, there is no additional charge for new underground service, up to 200 feet. This applies to the following lights: LED5PT, LED3PT, DLEDA7, DLEDG7, DLEDE17, or fixtures mounted on Aluminum Alloy Standards.

For any new installation requiring an underground conductor extended over 200 feet per fixture, the customer will be charged a monthly rate of \$0.11 per foot. If there are multiple fixtures installed, any additionally installed length of conductor shall be combined in one monthly charge.

**EQUIPMENT AND OVERHEAD SERVICE SUPPLIED BY THE COMPANY:** The light shall be mounted on a suitable new or existing Company-owned pole. Any extension beyond an average installation length of 150 feet of wire will be at the expense of the Customer.

The Company will install, own and operate, and have discretion to replace or upgrade an LED light including suitable reflector or a flood light including a lamp, or a bracket for mounting on wood poles with overhead wiring and photo-electric or other device to control operating hours. Customers provided with pole top fixtures on fiberglass poles and fixtures mounted on Aluminum Alloy Standards will not receive overhead power supply. The light shall operate from dusk to dawn. The Company will supply the necessary electricity and maintenance for the unit.

**SERVICE CONDITIONS:** Lighting will not be mounted on Customer-owned property. The light shall be mounted upon a suitable new or existing Company-owned facility. The Company shall own, operate, and maintain the lighting unit including the pole, fixture, lamp, photoelectric control, mounting brackets, fixture arrester, LED driver and all necessary wiring using the Company's standard street lighting equipment as described herein. The Company shall furnish all electric Energy required for operation of the unit.

In cases of vandalism or damages, the Company has the discretion to discontinue service and remove Company equipment.