

**VILLAGE OF ORLAND PARK**  
**APPEARANCE IMPROVEMENT GRANT AGREEMENT**

**THIS AGREEMENT**, entered into this 11<sup>th</sup> day of December, 2018, between the Village of Orland Park, Illinois (hereinafter referred to as "Village") and the following designated Owner/Lessee:

Owner's Name:	Macy's Inc.
Lessee's Name:	N/A
Petitioner's Name:	Nadia Seniuta, Property Manager Simon Property Group
Name of Business:	Macy's
Tax ID# / Social Security #:	16386361
Address of Property to be Improved:	1 Orland Square Drive <i>(15 Orland Square Drive per Cook County Tax Records)</i>
PIN Number:	27-10-300-009-0000

**Legal Description:**

A TRACT OF LAND IN THE SOUTHWEST 1/4 OF SECTION 10, TOWNSHIP 36 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: COMMENCING ON THE NORTH LINE OF SAID SOUTHWEST 1/4, A DISTANCE OF 572.71 FEET EAST OF THE WEST LINE OF SAID SOUTHWEST 1/4; THENCE SOUTH 89 DEGREES 58 MINUTES 30 SECONDS EAST 108.95 FEET ALONG THE NORTH LINE OF SAID SOUTHWEST 1/4; THENCE SOUTH 00 DEGREES 00 MINUTES 20 SECONDS WEST 106.95 FEET; THENCE SOUTH 89 DEGREES 58 MINUTES 30 SECONDS EAST 19.32 FEET; THENCE SOUTH 00 DEGREES 00 MINUTES 20 SECONDS WEST 223.05 FEET; THENCE SOUTH 89 DEGREES 58 MINUTES 30 SECONDS EAST 506.59 FEET; THENCE SOUTH 00 DEGREES 01 MINUTES 30 SECONDS WEST 507.58 FEET; THENCE DUE EAST 49.79 FEET TO A POINT OF CURVE; THENCE EASTERLY ON A CURVE CONVEX TO THE NORTH HAVING A RADIUS OF 20 FEET, AN ARC DISTANCE OF 15.71 FEET AND A CHORD BEARING OF SOUTH 67 DEGREES 30 MINUTES EAST TO A POINT OF TANGENT; THENCE SOUTH 45 DEGREES EAST 10.72 FEET; THENCE SOUTH 45 DEGREES WEST 191.98 FEET; THENCE NORTH 89 DEGREES 50 MINUTES 01 SECONDS EAST 4.07 FEET; THENCE SOUTH 00 DEGREES 25 MINUTES 32 SECONDS EAST 7.26 FEET; THENCE SOUTH 44 DEGREES 59 MINUTES 20 SECONDS WEST 34.71 FEET; THENCE NORTH 89 DEGREES 38 MINUTES 34 SECONDS WEST 7.28 FEET; THENCE NORTH 00 DEGREES 05 MINUTES 27 SECONDS WEST 4.05 FEET; THENCE SOUTH 45 DEGREES WEST 167.84 FEET; THENCE SOUTH 86

DEGREES 51 MINUTES 03 SECONDS WEST 36.68 FEET; THENCE DUE WEST 520.69 FEET; THENCE NORTH 30 DEGREES EAST 31.75 FEET; THENCE DUE WEST 131.24 FEET TO A POINT OF CURVE; THENCE NORTHERLY ON A CURVE CONVEX TO THE WEST HAVING A RADIUS OF 811.16 FEET, AN ARC DISTANCE OF 189.54 FEET AND A CHORD BEARING OF NORTH 6 DEGREES 39 MINUTES 58 SECONDS WEST TO A POINT OF TANGENT; THENCE NORTH 00 DEGREES 01 MINUTES 40 SECONDS EAST 310.24 FEET TO A POINT OF CURVE; THENCE NORTHEASTERLY ON A CURVE CONVEX TO THE NORTHWEST HAVING A RADIUS OF 227.50 FEET, AN ARC DISTANCE OF 357.35 FEET AND A CHORD BEARING OF NORTH 45 DEGREES 01 MINUTES 35 SECONDS EAST TO A POINT OF TANGENT; THENCE SOUTH 89 DEGREES 58 MINUTES 30 SECONDS EAST 36.12 FEET; THENCE NORTH 00 DEGREES 01 MINUTES 30 SECONDS EAST 12.50 FEET TO A POINT ON CURVE; THENCE NORTHEASTERLY ON A CURVE CONVEX TO THE SOUTHEAST HAVING A RADIUS OF 40 FEET, AN ARC DISTANCE OF 62.84 FEET AND A CHORD BEARING OF NORTH 45 DEGREES 00 MINUTES 55 SECONDS EAST TO A POINT OF TANGENT; THENCE NORTH 00 DEGREES 00 MINUTES 20 SECONDS EAST 223.04 FEET; THENCE NORTH 45 DEGREES WEST 47.07 FEET; THENCE NORTH 00 DEGREES 01 MINUTES 30 SECONDS EAST 73.68 FEET TO THE PLACE OF BEGINNING, ALL IN COOK COUNTY, ILLINOIS.

**WITNESSETH:**

**WHEREAS**, the Village of Orland Park has established an Appearance Improvement Grant for application within the Village of Orland Park and the Old Orland Historic District ("Historic District"); and

**WHEREAS**, said Appearance Improvement Grant is administered by the Village with the advice of the Historic Preservation Review Commission in cases of Contributing Structures and Buildings (as the same are defined in the Village's Land Development Code) and designated Landmarks for the purposes of helping property Owners and Lessees of Contributing Structures and Buildings within the District to restore, preserve and maintain these unique local resources; and

**WHEREAS**, pursuant to the Appearance Improvement Grant the Village, subject to its sole discretion, will reimburse Owners/Lessees for the cost of eligible exterior improvements to Commercial Structures Village-wide, to Contributing Structures and Buildings within the Historic District and to designated Landmark structures up to a maximum of one-half (1/2) of the Village approved contract cost of such improvements or \$50,000.00, whichever is less;

**WHEREAS**, pursuant to the Appearance Improvement Grant the Village, subject to its sole discretion, will waive the permit fees associated with eligible exterior improvements (excluding signage) to commercial structures Village-wide, to contributing structures and buildings within the Historic District and to designated landmark structures.

**WHEREAS**, the Owner/Lessee's property is located within the Village or the Historic District, and the Owner/Lessee desires to participate in the Appearance Improvement Grant program pursuant to the terms and provisions of this Agreement.

**NOW, THEREFORE**, in consideration of the mutual covenants and agreements contained herein, the Village and the Owner/Lessee do hereby agree as follows:

## **SECTION 1**

With respect to Appearance Improvements, the Village shall reimburse an Owner/Lessee for the cost of improvements to the Owner/Lessee's property not to exceed fifty percent (50%) of such cost.

The actual total reimbursement amounts per this Agreement shall not exceed **\$21,128.82**. The improvement costs that are eligible for Village reimbursement include all labor, materials, equipment, and other contract items necessary for the proper execution and completion of the scope of work as shown on the plans, design drawings, specifications, and estimates approved by the Village. Such plans, design drawings, specifications, estimates, and scope of work are attached hereto as **Exhibit A**.

In addition the Village, subject to its sole discretion, will waive the permit fees associated building permit fees associated with eligible exterior improvements (excluding signage) to commercial and landmark structures Village-wide.

The appearance improvements to be performed pursuant to this Agreement are:

- 1) Replacing twenty (20) luminaires on two (2) existing 120' tall light poles on the Macy's property; and
- 2) Adding twenty (20) nodes to the new luminaires.

### **Appearance Review Conditions:**

- 1) Provide confirmation that the footcandles and lumens per square foot on the Photometric Plan do not exceed the specified maximum limitations within Section 6-315.A.2.a.1. or revise the Photometric Plan to comply with said requirements;
- 2) Meet all Building and Land Development Code requirements; and
- 3) Obtain the necessary permits from the Village's Building Division prior to initiating work.

## **SECTION 2**

No improvement work shall be undertaken until its design has been submitted to and approved by the Village. Following approval, the Owner/Lessee shall contract for the work and shall commence and complete all such work within one (1) year from the date of such approval weather permitting. Nothing in this Agreement shall permit any Appearance Improvements to be undertaken except in conformance with applicable Village Codes.

### SECTION 3

The Development Services Director shall periodically review the progress of the contractor's work on the Appearance Improvement pursuant to this Agreement. Such inspections shall not replace any Village Code required permit inspections by the Building Inspectors. All work which is not in conformance with the approved plans, design drawings, and specifications shall be immediately remedied by the Owner/Lessee and deficient or improper work shall be replaced and made to comply with the approved plans, design drawings, specifications, and the terms of this Agreement.

### SECTION 4

Upon completion of the Appearance Improvement and upon final inspection and approval by the Development Services Director or his/her designee, the Owner/Lessee shall submit to the Village:

- A. A properly executed and notarized contractor sworn statement showing the full cost of the work, as well as each separate component amount due to the contractor and each and every subcontractor involved in furnishing labor, materials, or equipment in the work.
- B. Proof of payment of the contract cost pursuant to the contractor's statement and final lien waivers from all contractors, subcontractors, and material suppliers.
- C. A copy of all of the invoices for professional services fees incurred for preparation of plans and specifications.

The Village shall, within thirty (30) days of receipt of the contractor's statement, proof of payment and lien waivers, and the professional services statement, issue a check to the Owner/Lessee as reimbursement for one-half (1/2) of the approved construction cost estimate or one-half (1/2) of the actual construction cost, whichever is less, subject to the limitations set forth in Section 1 hereof.

### SECTION 5

If the Owner/Lessee or his contractor fails to complete the improvement work provided for herein in conformity with the time limitation, approved plans, design drawings, specifications, and the terms of this Agreement, then upon written notice being given by the Development Services Director to the Owner/Lessee, by certified mail to the address listed above, this Agreement shall terminate and the financial obligation on the part of the Village shall cease and become null and void.

### SECTION 6

Upon completion of the Appearance Improvement work pursuant to this Agreement, the Owner/Lessee shall be responsible for properly maintaining such improvements in finished form and without change or alteration thereto, as provided in this Agreement, unless changes are

submitted for review and are approved by the Historic Preservation Review Commission (HPRC) (in the case of Historic District or landmark properties) and/ or the Village Board. Such approval shall not be unreasonably withheld if the proposed changes do not substantially alter the original design concept of the improvements as specified in the plans, design drawings and specifications approved pursuant to this Agreement. In the event the approved Appearance Improvements are not properly maintained or alterations are made to the appearance without prior consent from the Village, the Village reserves the right to terminate this Agreement, hold the Owner/Lessee liable for any architectural design and consultant fees incurred by the Village, and require reimbursement in full for all monies expended towards the project through this Appearance Improvement Grant.

## **SECTION 7**

This Agreement shall be binding upon the Village and upon the Owner/Lessee and its successors, to said property for a period of ten (10) years from and after the date of completion and approval of the Appearance Improvement provided for herein. It shall be the responsibility of the Owner/Lessee to inform subsequent Owner/Lessee(s) of the provisions of this Agreement, and to be aware of the requirement for prior Village approval of any alteration whatsoever to the building facades. In addition, the Village shall cause a memorandum of this Agreement to be recorded with the office of the Cook County Recorder of Deeds.

## **SECTION 8**

The Owner/Lessee releases the Village from, and covenants and agrees that the Village shall not be liable for, and covenants and agrees to indemnify and hold harmless the Village and its officials, officers, employees and agents from and against, any and all losses, claims, damages, liabilities or expenses, of every conceivable kind, character and nature whatsoever arising out of, resulting from or in any way connected directly or indirectly with the Appearance Improvement(s), including but not limited to actions arising from the Prevailing Wage Act (820 ILCS 30/0.01 et seq.) The Owner/Lessee further covenants and agrees to pay for or reimburse the Village and its officials, officers, employees and agents for any and all costs, reasonable attorneys' fees, liabilities or expenses incurred in connection with investigating, defending against or otherwise in connection with any such losses, claims, damages, liabilities, or causes of action. The Village shall have the right to select legal counsel and to approve any settlement in connection with such losses, claims, damages, liabilities, or causes of action. **The provisions of this Section 8, as well as Sections 6 and 7, above, shall survive the completion of said Appearance Improvement(s).**

## **SECTION 9**

Nothing herein is intended to limit, restrict, or prohibit the Owner/Lessee from undertaking any other work in or about the subject premises, which is unrelated to the Appearance Improvement provided for in this Agreement.

**SECTION 10**

This Agreement shall be enforceable by any action at law or in equity, including actions for specific performance and injunctive relief. The laws of the State of Illinois shall control the construction and enforcement of this Agreement. The parties agree that all actions instituted on this Agreement shall be commenced and heard in the Circuit Court of Cook County, Illinois, and hereby waive venue in any other court of competent jurisdiction. Before any failure of any party to perform any obligation arising from this Agreement shall be deemed to constitute a breach, the party claiming the breach shall notify the defaulting party and demand performance. No breach of this Agreement shall be found to have occurred if performance is commenced and diligently pursued to the satisfaction of the complaining party within thirty (30) days of the receipt of such notice.

**IN WITNESS THEREOF**, the parties hereto have executed this Agreement on the date first appearing above.

VILLAGE OF ORLAND PARK, an  
Illinois Municipal Corporation

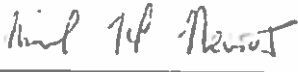
By:   
Village President

ATTEST:

By:   
Village Clerk

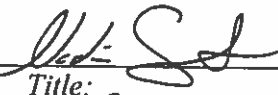
OWNER:

MACY'S, INC.

By:   
Title: District Facility Manager

PETITIONER:

SIMON PROPERTY GROUP

By:   
Title: General Manager



# VILLAGE OF ORLAND PARK

Exhibit A  
AIG Agreement

14700 Ravinia Avenue  
Orland Park, IL 60462  
www.orlandpark.org

## Department Requested Action

File Number: 2018-0774

Agenda Date:

Version: 0

Status: PLACED ON FILE

In Control: Board of Trustees

File Type: MOTION

### Title/Name/Summary

Macy's LED Lighting Upgrade - Appearance Review

### History

#### QUICKFACTS

#### Project

Macy's LED Lighting Upgrade - 2018-0774

#### Petitioner

Nadia Seniuta, General Manager of Orland Square Mall

#### Purpose

The Petitioner proposes to upgrade existing parking lot lighting to LED. Two (2) existing poles in the Macy's parking lots will be converted to LED luminaires with wireless control nodes. The fixture head design will remain the same.

*Requested Actions: Appearance Review*

#### Project Attributes

Address: 1 Orland Square Drive

P.I.N: 27-10-300-009-0000

*Parcel Size: 695,457 sf (15.97 acres)*

*Building Square Footage: 197,529 sf*

*Comprehensive Plan Planning District: Regional Core Planning District*

*Comprehensive Land Designation: Regional Mixed Use*

*Existing Zoning: COR Mixed-Use District*

*Existing Land Use: Retail*

#### *Surrounding Land Uses:*

*North: COR Mixed-Use District (Offices), VCD Village Center District (Institutional)*

*South: COR Mixed-Use District (Restaurants, Retail)*

*East: COR Mixed-Use District (Restaurants, Retail)*

*West: COR Mixed-Use District (Restaurants, Offices)*

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**ATTACHMENTS**

- 1) Final approved Photometric Plan and associated spec sheets (10 pages)
- 2) Location Map
- 3) Various Photos of Existing Parking Lot Lighting at Orland Square Mall

**PROJECT DESCRIPTION & CONTEXT**

The Petitioner proposes to make lighting changes at Macy's to improve safety within the site, increase energy efficiency, and upgrade the existing luminaires to match other Orland Square Mall LED lighting improvements completed in 2016. The existing luminaires project a more yellow light than the LED luminaires, which are closer to white light.

The scope of work includes the following:

- 20 Luminaire replacements (10 per existing light pole) using GE Evolve LED Roadway Lighting High Mast Luminaires (GE-ERHM-01-H-60-F1-7)
- 20 GE LightGrid Nodes (1 per luminaire) to allow remote monitoring and control of the luminaires (ELWN5A5UG5)

Overall, the project conforms to the Village's Comprehensive Plan, Land Development Codes, and policies for this area.

**DETAILED PLANNING DISCUSSION**

The Petitioner submitted a Photometric Plan titled "Simon - Orland Square" by GE Lighting Solutions. The Photometric Plan details the light levels in footcandles (fc) in accordance with the proposed changes. This project relates only to the parking lot light poles directly north of the Macy's store (one pole) and northwest of the Macy's store (one pole). The submitted specification sheets also provide detailed product information on the proposed luminaire and nodes. The fixture heads will be removed, retrofitted with the proposed LED luminaires and nodes, and re-mounted at one hundred twenty feet (120') from grade.

Per Table 6-315.2.a (A) the subject site is classified as Lighting Class 1 because the overall building square footage of the Orland Square Mall is greater than 500,000 square feet. The subject site is bordered by non-residential land uses on all sides.

The Petitioner has not yet confirmed compliance with the maximum level of footcandles and lumens/sf per Section 6-315.A.2.a.1. of the Land Development Code. Compliance with these regulations is required as a condition of the approval. The proposed Photometric Plan complies with all other regulations for Lighting Class 1.



### **Recommended Action/Motion**

The Appearance Review for the Macy's LED Lighting Upgrade, case number 2018-0774, as shown on the Photometric Plan titled "Simon - Orland Square" by GE Lighting Solutions along with the associated cut sheets/spec sheets, is hereby administratively approved on November 14, 2018, subject to the following conditions:

- 1) Provide confirmation that the footcandles and lumens per square foot on the Photometric Plan do not exceed the specified maximum limitations within Section 6-315.A.2.a.1. or revise the Photometric Plan to comply with said requirements; and
- 2) Meet all Building and Land Development Code requirements; and
- 3) Obtain the necessary permits from the Village's Building Division prior to initiating work.



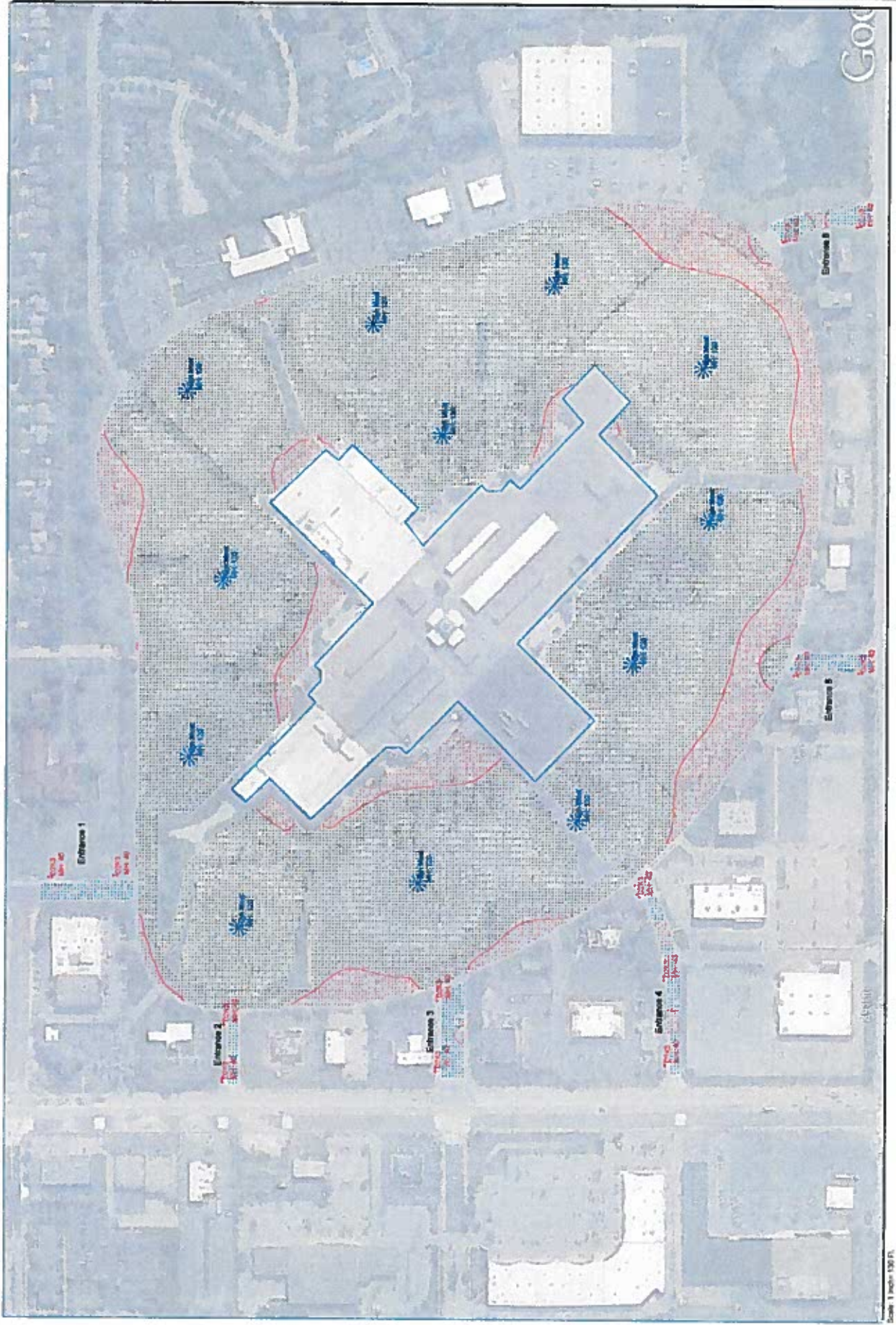
GE LIGHTING SOLUTIONS  
1875 Noble Rd  
East Cleveland, OH 44112

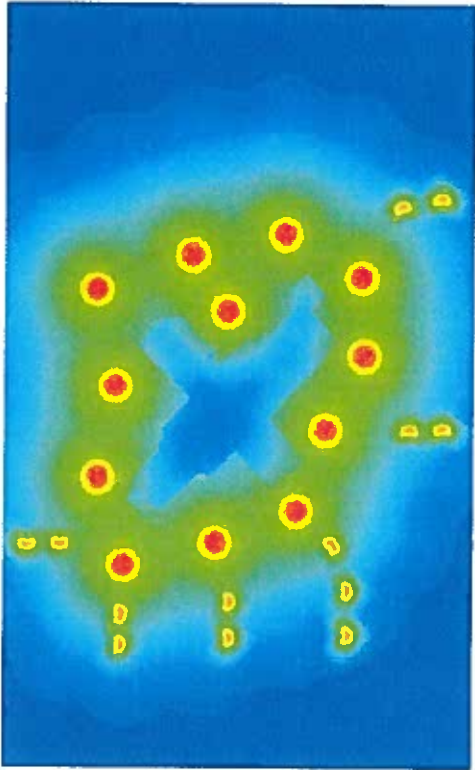
Prepared by:  
Project Manager:  
Date: 8/23/2018  
GE LAYOUT REFERENCE: A161517  
GE Drawing # A161817B2

Designer: Raymond Newman  
Date: 8/23/2018  
GE LAYOUT REFERENCE: A161517  
GE Drawing # A161817B2

Simon - Grand Square  
Featuring Height: 40' x 120'  
Horizontal FC's at Road

For more information, please visit: [www.ge-lighting.com](http://www.ge-lighting.com)





NOTE: PSEUDO-RENDERING AND GRAY SCALE IMAGES ARE NOT TO SCALE

Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Air Watts	Lum. Lumens	LLF Description
12	12	High Mast	10 @ 36 DEGREES	5000	56300	10 - ERM001 60F1740
13	13	D2K3	ROTATED OPTICS	548	32000	0.950 2-EALP01 K3AM740
w/H52-S36-2xxxx HVL mtg bracket						

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	AvailMin
Entrance 1	Illuminance	Fc	3.73	6.1	0.5	7.46
Entrance 2	Illuminance	Fc	4.82	6.7	1.5	3.21
Entrance 3	Illuminance	Fc	3.02	6.4	0.2	15.10
Entrance 4	Illuminance	Fc	3.13	6.4	0.2	15.05
Entrance 5	Illuminance	Fc	3.92	6.1	0.7	5.60
Entrance 6	Illuminance	Fc	3.27	6.1	0.2	18.35
Parking Lot	Illuminance	Fc	1.82	12.7	0.1	18.20
						127.00

- NOTES
- THIS DRAWING WAS TRACED FROM A GOOGLE EARTH IMAGE.
  - THIS DRAWING WAS APPROXIMATED BY A GOOGLE EARTH IMAGE.
  - PLACEMENT OF LUMINAIRES AND LOCATIONS WERE APPROXIMATED.
  - BUILDING INCLUDED AS BLOCKING OBJECTS.
  - FIXTURE HEIGHT: 40' & 120'



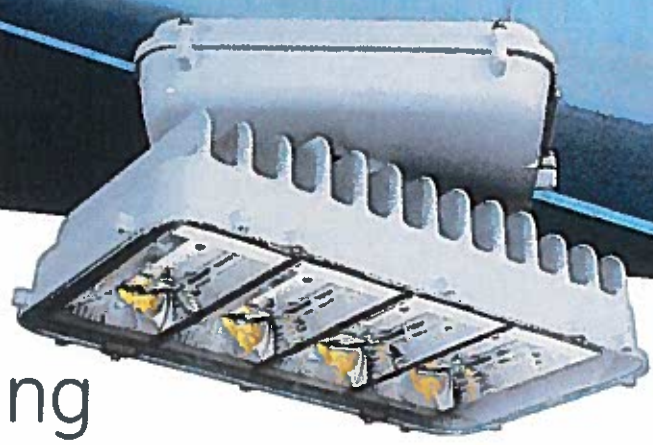
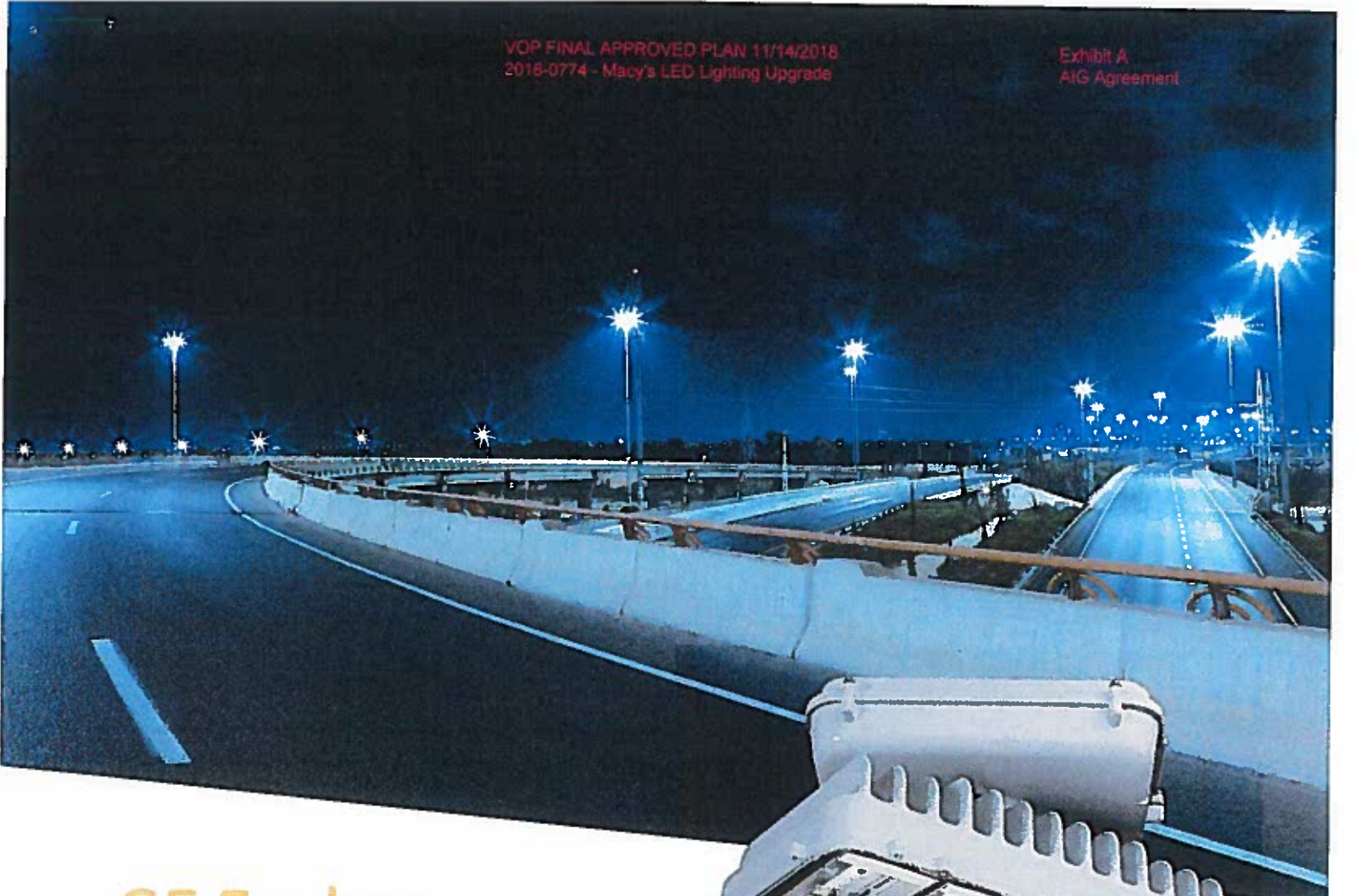
GE LIGHTING SOLUTIONS  
1975 Noble Rd  
East Cleveland, OH 44112

Project Name: 1975 Noble Rd  
Project Location: 1975 Noble Rd  
Project Date: 10/10/2018  
Project Status: In Progress  
Project Manager: [Name]  
Project Engineer: [Name]  
Project Designer: [Name]  
Project Checker: [Name]  
Project Approver: [Name]

GE Drawing #: A161517B2  
Date: 10/10/2018  
GE LAYOUT REFERENCE: A161517  
Designer: Bismark Newman  
Date: 10/10/2018

Simon - Grand Square  
Address: 4000  
Fixture Height: 40' & 120'  
Horizontal FC's at Road





# GE Evolve™

## LED Roadway Lighting

### High Mast Luminaire (ERHM)

**current**  
powered by GE



## Product Features

The Evolve™ LED High Mast is an LED solution for expressway, freeway interchanges and other large area applications. GE's unique reflective optics are designed to optimize application efficiency and minimize glare. This reliable unit has a 100,000-hour design life, significantly reducing maintenance needs and expense over the life of the fixture. The ERHM luminaire is an efficient solution lowering energy consumption as compared to traditional HID fixtures providing additional operating cost savings.

## Applications

- Designed to meet recommended luminance and illuminance requirements for High Mast Applications such as Airport Lighting, Expressway and Freeway Interchanges, Port Facilities, Trailer/Container Yard and Rail Yard Operations.

## Housing

- Cast aluminum optical and electrical housings.
- Meets 3G vibration standards per ANSI C136.31-2010

## LED & Optical Assembly

- Field rotatable optics.
- Evolve™ light engine using reflective technology to optimize application efficiency and minimize glare.
- Utilizes high brightness LEDs, 70 CRI at 3000K & 4000K CCT typical.
- LM-79 tests and reports in accordance with IESNA standards.

## Lumen Maintenance

- Projected L90>60,000 hours per IES TM-21
- Projected Lxx per IES TM-21 at 25°C for reference:

SKU	Lxx (10K)@HOURS		
	25,000 HR	50,000 HR	100,000 HR
ERHM	L95	L93	L88


NOTES: 1) Projected Lxx based on LM-80 (10,000 hour testing).  
2) DOE Lighting Facts Verification Testing Tolerances apply to initial luminous flux and lumen maintenance measurements.

## Lumen Ambient Temperature Factors:

LUMEN AMBIENT TEMPERATURE FACTORS:	
AMBIENT TEMPERATURE (°C)	INITIAL FLUX FACTOR
10	1.02
20	1.01
25	1.00
30	0.99
40	0.98
45	0.97

## Ratings

- UL/cUL listed, suitable for wet locations per UL 1598.
- IP66 rated optical enclosure per ANSI C136.25-2009.
- Temperature rated at -40° to 45°C.
- Upward Light Output Ratio (ULOR) = 0
- Compliant with the material use restrictions of RoHS.

-  Please refer to the DLC QPL website for the latest and most complete information. [www.designlights.org/QPL](http://www.designlights.org/QPL)

## Mounting

- 4 Bolt Slipfitter with +/- 5 degree of adjustment
- Integral mounting pipe stop
- 2 in. (2.375" OD) mounting pipe

## Finish

- Corrosion resistant polyester powder painted, minimum 2.0 mil. thickness.
  - Standard color: Gray.
  - RAL & custom colors available.
  - Coastal Finish option\*
- \* Check with manufacturer for availability

## Electrical

- 120-277 volt and 347-480 volt
- System power factor is >90% and THD<20%
- Class "A" sound rating
- Surge protection per ANSI C136.2-2015:
  - Standard: 6kV/3kA "Basic": (120 strikes)
  - Optional: 10kV/5kA "Enhanced": (40 Strikes)
- Photo electric sensors (PE) available
- ANSI C136.41 PE receptacle
- Analog 0-10V or optional DALI dimming
- Optional single and double fusing
- EMI: Title 47 CFR part 15 class A

## Warranty

- 5 Year standard
- 10 Year option

## Suggested HID Replacement Lumen Levels

- ~28,800 -42,700 lm to replace 400W HID luminaires.
- ~46,500 -53,400 lm to replace 750W HID luminaires.
- ~50,900 -58,300 lm to replace 1000W HID luminaires.

# Ordering Number Logic

## Evolve LED High Mast Luminaire



ERHM 01

4 B

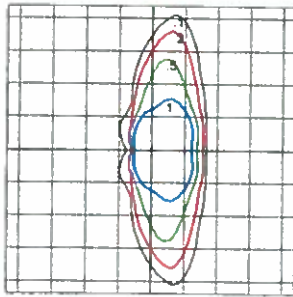
PROD. ID	GENERATION	VOLTAGE	LUMEN OUTPUT	DISTRIBUTION	CRI	CCT	DIMMING	CONTROLS	MOUNTING	COLOR	OPTIONS
E = Evolve R = Roadway H = High M = Mast	01 = 1st Gen	0 = 120-277* 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 H = 347-480V*	30 40 50 60 See Data Table for more information.	E1 = Type II Asym Med F1 = Type IV Asym Wide G1 = Type III Asym Extra Wide VS = Type V Short* VM = Type V Medium*	7 = 70* * 70 CRI Typical	30 = 3000K 40 = 4000K Select 3000 CCT for IGA approved units	N = No Dimming Control Wiring D = Dimming Control Wiring Included*  * Dimming control wiring included to connect dimming control external to the fixture.  Note: Dimming controls wired for 0-10V standard unless DALI option "U" requested.	1 = None A = ANSI C136.41 7-Pin Receptacle D = ANSI C136.41 7-Pin Receptacle with Shorting Cap E = ANSI C136.41 7-Pin Receptacle with Non-Dimming PE control*  * PE Control Only available for 480V Discrete. Not available for 347-480V or 347V Discrete.  Note: Dimming controls wired for 0-10V standard unless DALI option "U" requested.	4B = 4 Bolt (std)	GRAY = GRAY BLACK = BLACK	F = Fusing R = Secondary Enhanced Surge Protection (10kV/5kA) U = DALI Programmable* Y = Coastal Construction* XXX = Special Options  * Not available in 347V 480V or 347-480V.  * Recommended for installations within 1 mile from the coast. Contact Manufacturer for Availability.

LUMEN OUTPUT	DISTRIBUTION	TYPICAL INITIAL LUMENS		TYPICAL SYSTEM WATTAGE	BUG RATINGS		IES FILE NUMBER	
		3000K	4000K		3000K	4000K	3000K	4000K
30	E1	28,800	30,000	253	B4-U0-G3	B4-U0-G3	ERHM01_30E1730__IES	ERHM01_30E1740__IES
	F1	28,800	30,000	253	B4-U0-G4	B4-U0-G4	ERHM01_30F1730__IES	ERHM01_30F1740__IES
	G1	28,800	30,000	253	B4-U0-G4	B4-U0-G4	ERHM01_30G1730__IES	ERHM01_30G1740__IES
40	E1	37,500	39,000	320	B4-U0-G3	B4-U0-G3	ERHM01_40E1730__IES	ERHM01_40E1740__IES
	F1	37,500	39,000	320	B4-U0-G4	B4-U0-G4	ERHM01_40F1730__IES	ERHM01_40F1740__IES
	G1	37,500	39,000	320	B4-U0-G4	B4-U0-G4	ERHM01_40G1730__IES	ERHM01_40G1740__IES
	VS	41,000	42,700	350	B5-U0-G3	B5-U0-G3	ERHM01_40VS1730__IES	ERHM01_40VS1740__IES
	VM	38,400	40,000	350	B5-U0-G4	B5-U0-G4	ERHM01_40VM1730__IES	ERHM01_40VM1740__IES
50	E1	46,500	48,400	402	B4-U0-G4	B5-U0-G4	ERHM01_50E1730__IES	ERHM01_50E1740__IES
	F1	46,500	48,400	402	B4-U0-G5	B5-U0-G5	ERHM01_50F1730__IES	ERHM01_50F1740__IES
	G1	46,500	48,400	402	B4-U0-G5	B5-U0-G5	ERHM01_50G1730__IES	ERHM01_50G1740__IES
	VS	51,300	53,400	445	B5-U0-G3	B5-U0-G3	ERHM01_50VS1730__IES	ERHM01_50VS1740__IES
	VM	48,100	50,000	445	B5-U0-G4	B5-U0-G4	ERHM01_50VM1730__IES	ERHM01_50VM1740__IES
60	E1	56,000	58,300	501	B5-U0-G4	B5-U0-G4	ERHM01_60E1730__IES	ERHM01_60E1740__IES
	F1	56,000	58,300	501	B5-U0-G5	B5-U0-G5	ERHM01_60F1730__IES	ERHM01_60F1740__IES
	G1	56,000	58,300	501	B5-U0-G5	B5-U0-G5	ERHM01_60G1730__IES	ERHM01_60G1740__IES
	VS	54,400	56,600	475	B5-U0-G4	B5-U0-G4	ERHM01_60VS1730__IES	ERHM01_60VS1740__IES
	VM	50,900	53,000	475	B5-U0-G4	B5-U0-G4	ERHM01_60VM1730__IES	ERHM01_60VM1740__IES

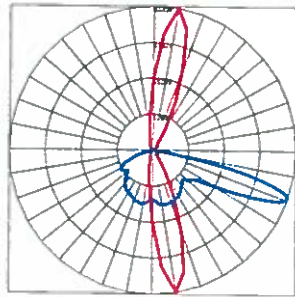


## Photometrics

**ERHM Type II - Asymmetric Medium (E1)**  
58,300 Lumens, 5000K (ERHM\_60E1740\_\_IES)

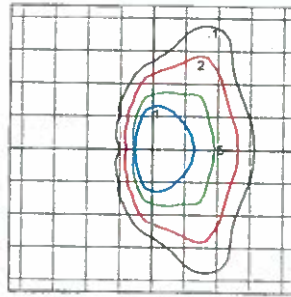


Grid Distance in Units  
of Mounting Height at 60° Initial  
Footcandle Values at Grade

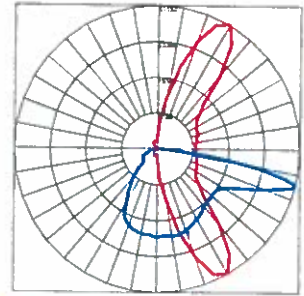


— Vertical plane through horizontal angle  
of maximum candlepower at 45°  
— Horizontal cone through vertical angle of 72.5°

**ERHM Type IV - Asymmetric Wide (F1)**  
58,300 Lumens, 5000K (ERHM\_60F1740\_\_IES)

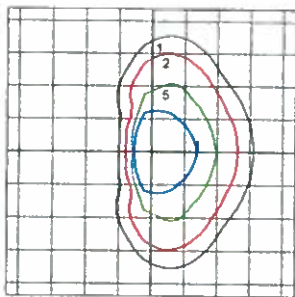


Grid Distance in Units  
of Mounting Height at 60° Initial  
Footcandle Values at Grade

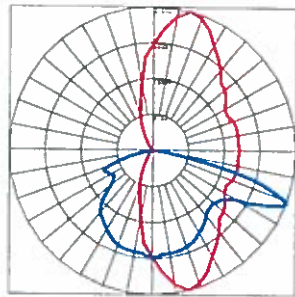


— Vertical plane through horizontal angle  
of maximum candlepower at 45°  
— Horizontal cone through vertical angle of 72.5°

**ERHM Type III - Asymmetric Extra Wide (G1)**  
58,300 Lumens, 5000K (ERHM\_60G1740\_\_IES)

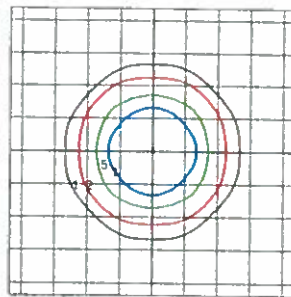


Grid Distance in Units  
of Mounting Height at 60° Initial  
Footcandle Values at Grade

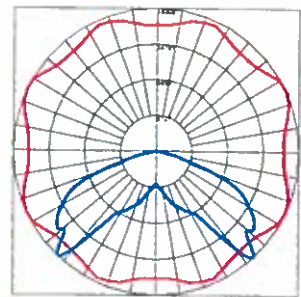


— Vertical plane through horizontal angle  
of maximum candlepower at 45°  
— Horizontal cone through vertical angle of 72.5°

**ERHM Type V - Short (VS)**  
56,600 Lumens, 5000K (ERHM\_60VS740\_\_IES)

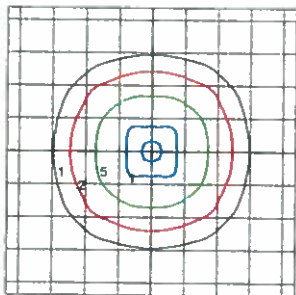


Grid Distance in Units  
of Mounting Height at 60° Initial  
Footcandle Values at Grade

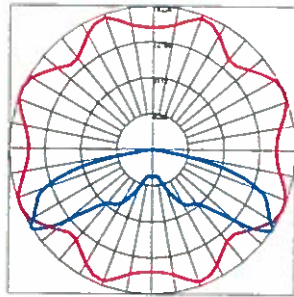


— Vertical plane through horizontal angle  
of maximum candlepower at 45°  
— Horizontal cone through vertical angle of 72.5°

**ERHM Type V - Medium (VM)**  
53,000 Lumens, 5000K (ERHM\_60VM740\_\_IES)



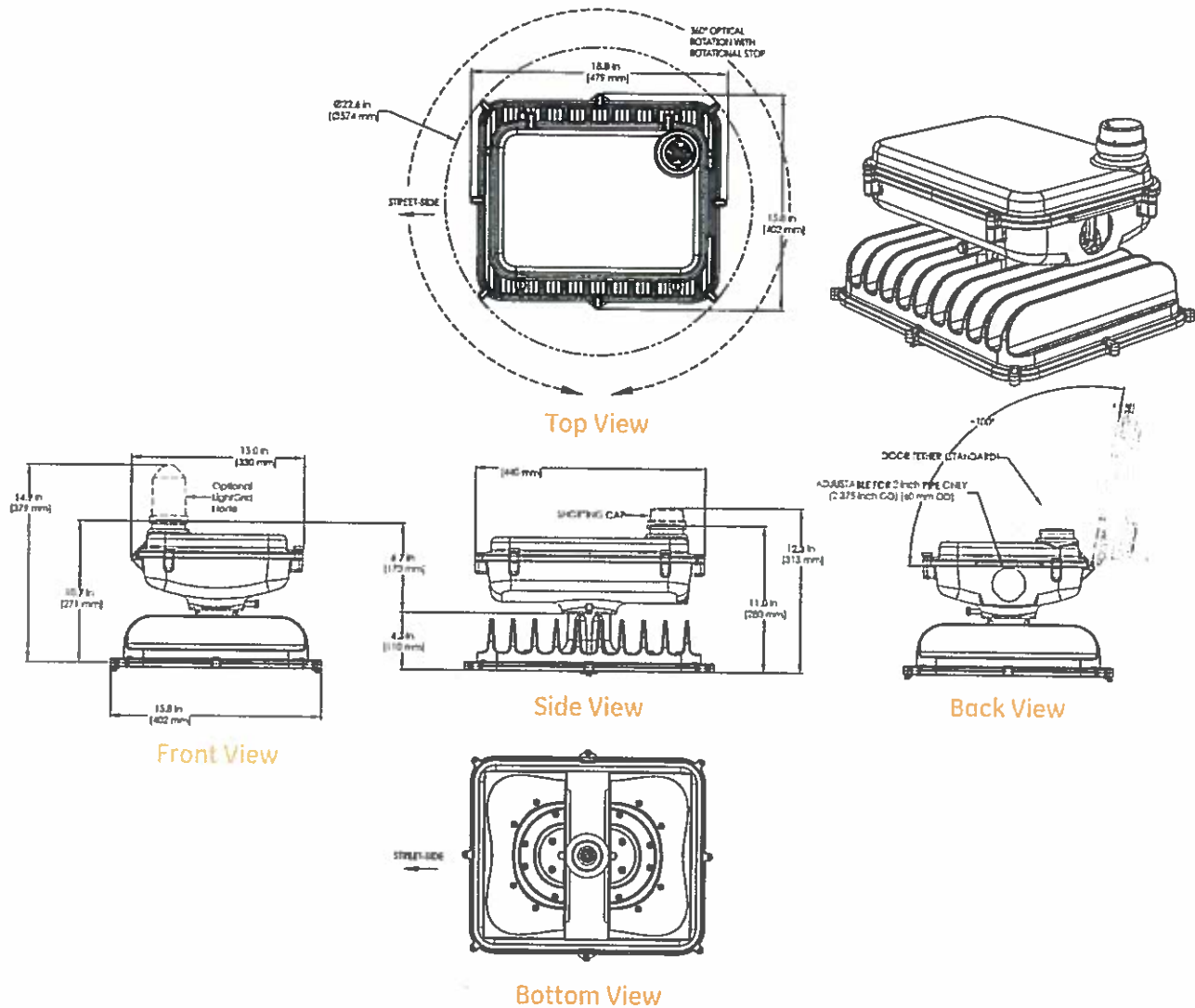
Grid Distance in Units  
of Mounting Height at 60° Initial  
Footcandle Values at Grade



— Vertical plane through horizontal angle  
of maximum candlepower at 45°  
— Horizontal cone through vertical angle of 72.5°

## Product Dimensions

Evolve LED High Mast Luminaire • ERHM (For Distributions VS & VM)



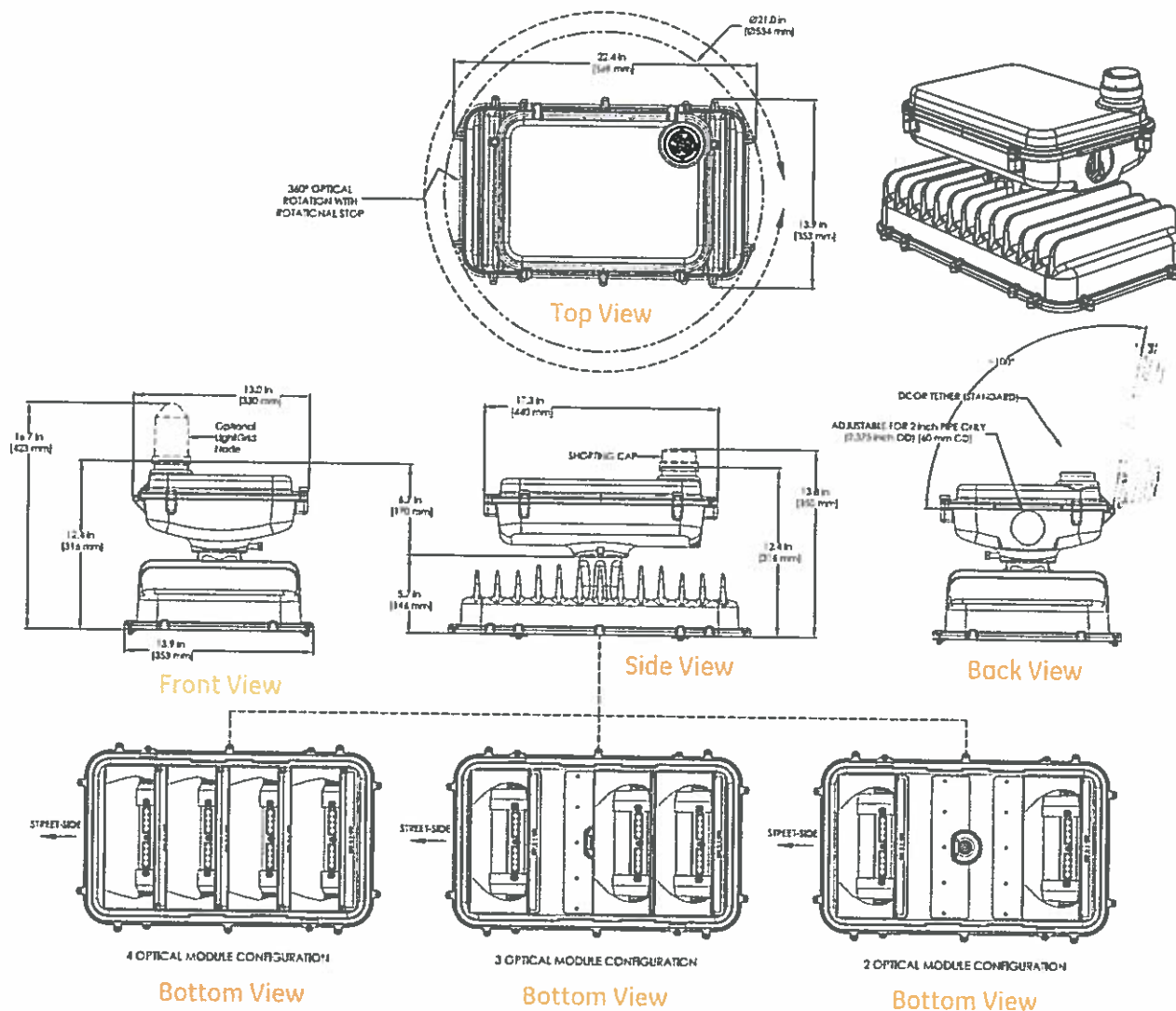
### DATA

- Weight: 54 lbs (max.)
- Effective Projected Area: 2 ft<sup>2</sup> (max.)



## Product Dimensions

Evolve LED High Mast Luminaire • ERHM (For Distributions E1, F1 & G1)



### DATA

- Weight: 54 lbs (max.)
- Effective Projected Area: 2 ft<sup>2</sup> (max.)

# LightGrid™ Node

## Outdoor Wireless Control System 2.0



### Description

LightGrid™ Outdoor Wireless Control System from GE allows remote monitoring and control, utility-grade energy measurement and GPS mapping of streetlights.

### Applications

- Street Lighting
- Area Lighting



### Product Features

- Integrated GPS in Each Node for Real Time Asset Reporting
- DALI Interface for Asset Management and Dimming
- Near Field Communication as Additional Commissioning option
- Inrush Current Limiting Circuit
- Utility Grade Measurement up to 0.5% Accuracy
- IR Communication for Metering Verification
- Self-Forming & Self-Restoring Mesh Network
- Static IPV6 Data Addressing and Routing
- Industry Standard Secure Encrypted Communications
- Nodes, Gateway spacing up to 1000ft apart depending on installation
- Energy Consumption Reporting as Frequent as 15 Minutes
- Full Autonomous Photocell Functionality (No wireless network required)
- Node Programable for Autonomous Time Based Schedules
- Flexible Output Level Control through Control Software
- Real Time Measurement and Storage of Voltage, Current, Wattage, Power Factor, and Hours of Operation



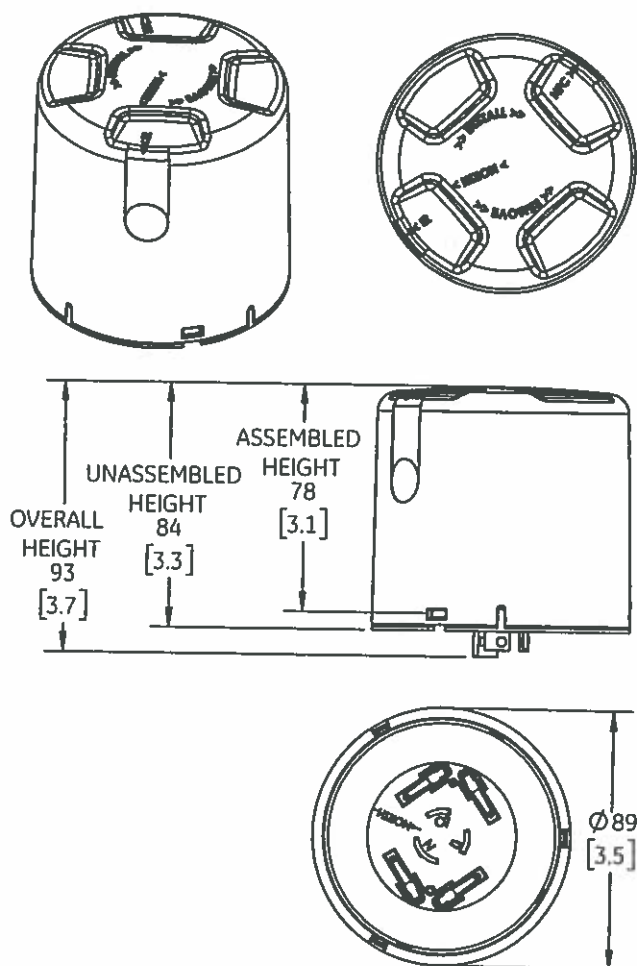
**current**  
powered by GE



## Product Specifications

- Input Voltage: 120-277V
- Radio Frequency: 915 MHz ISM Band, FCC CFR 47 15.247 Intentional Radiators, ICES-005
- Network Communication: IEEE 802.15.4, 6LoWPAN, 50 Channel FHSS
- Addressing: IPv6 Protocol
- Dimming: Automatically Detected 0-10V/DALI (GE Patent)
- Operating Temperature: -40 to +50C
- Surge: ANSI C136.2 2015, 6KV/3KA Combination Wave
- Power Consumption: 2W 120-277V
- Photocell: Complies with ANSI C136.10-2006
- GPS Accuracy: +/- 3m in Clear Open Sky
- Near Field Communication for Additional Commissioning
- IR(optical) Output for Utility Meter Calibration Validation
- Digital In/Out and Analog Inputs
- Configurable Serial In/Out Digital Communication
- Supports up to 1000W Load
- Inrush Current Limiting at Turn On
- Security: AES Encryption and Certificate Based Authentication
- Utility Grade Energy Measurement: Complies with Relevant Sections of ANSI C12.20
- EMI: Complies with FCC CFR 47 15.208, 15.209 and ICES-005 (B) /NMB-005 (B)
- Ingress Protection: Class IP65
- Complies with ANSI C136.41-2013 (ANSI Dimming)
- Weight: 0.51 lbs
- Warranty: 5 Years Standard, 10 Year Extended Available

## Product Dimensions



## Ordering Number Logic

ID	VOLTAGE	CONFIGURATION	METERING TYPE	METERING PRECISION	COMMISSIONING	MAXIMUM LOAD	NETWORK	LOCATION OPTIONS	DIMMING	OPTIONS
ELWN	0 = 120-277	A = ANSI socket (External node)	B = Load + Node	U = 0.5% Utility Grade	B = GPS+NFC	A = 1000 Watt	A = Network A	XX = Default	AD = 0-10V/DALI	None = Default
							B = Network B			
							C = Network C			

## Examples:

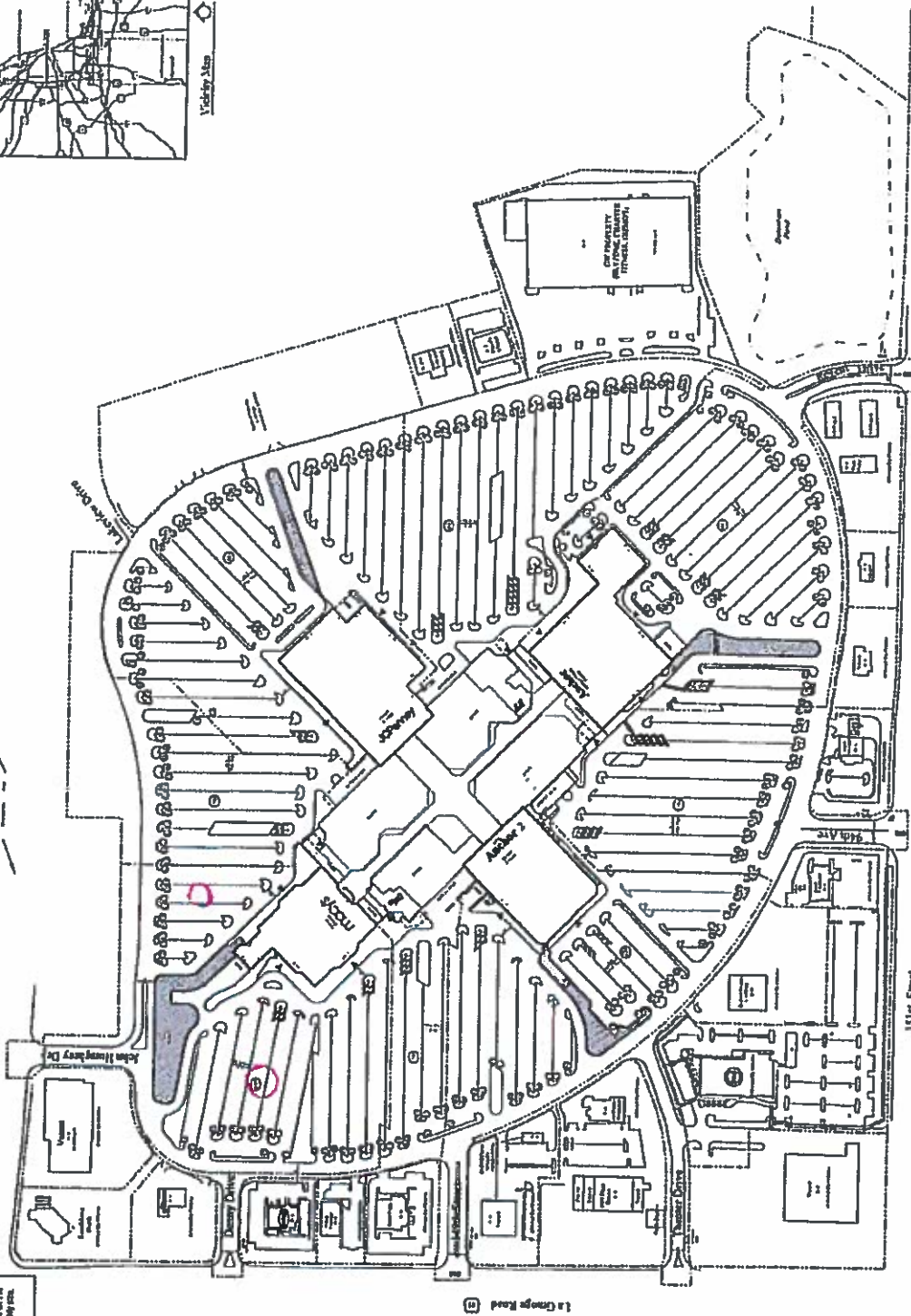
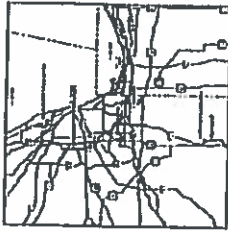
ELWN0A8UBAAXXAD: 120-277V, ANSI Socket, Load and Node Metering, Utility Grade, GPS and NFC Commissioning, 1000W Load, Network A, DALI/0-10V Dimming

**current**  
powered by GE

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www.currentbyge.com | CTRL014 (Rev 03/07/18)





**Orland Square**  
288 Orland Square  
Orland Park, IL 60462  
CORP # 4870

**SIMON**

Site Plan  
0 150 300

Legend:  
--- Existing Roadway  
--- Proposed Roadway  
--- Proposed Parking Area  
--- Proposed Building Footprint  
--- Proposed Land Use  
--- Proposed Access

This sketch is prepared for illustrative purposes only, and does not constitute a final engineering or architectural drawing. It is not to be used for construction or for any other purpose without the written consent of the Engineer. The Engineer assumes no responsibility for the accuracy or completeness of the information provided herein, and the user of this sketch assumes all liability for any errors or omissions. The Engineer's only obligation is to provide the services specified in the contract.

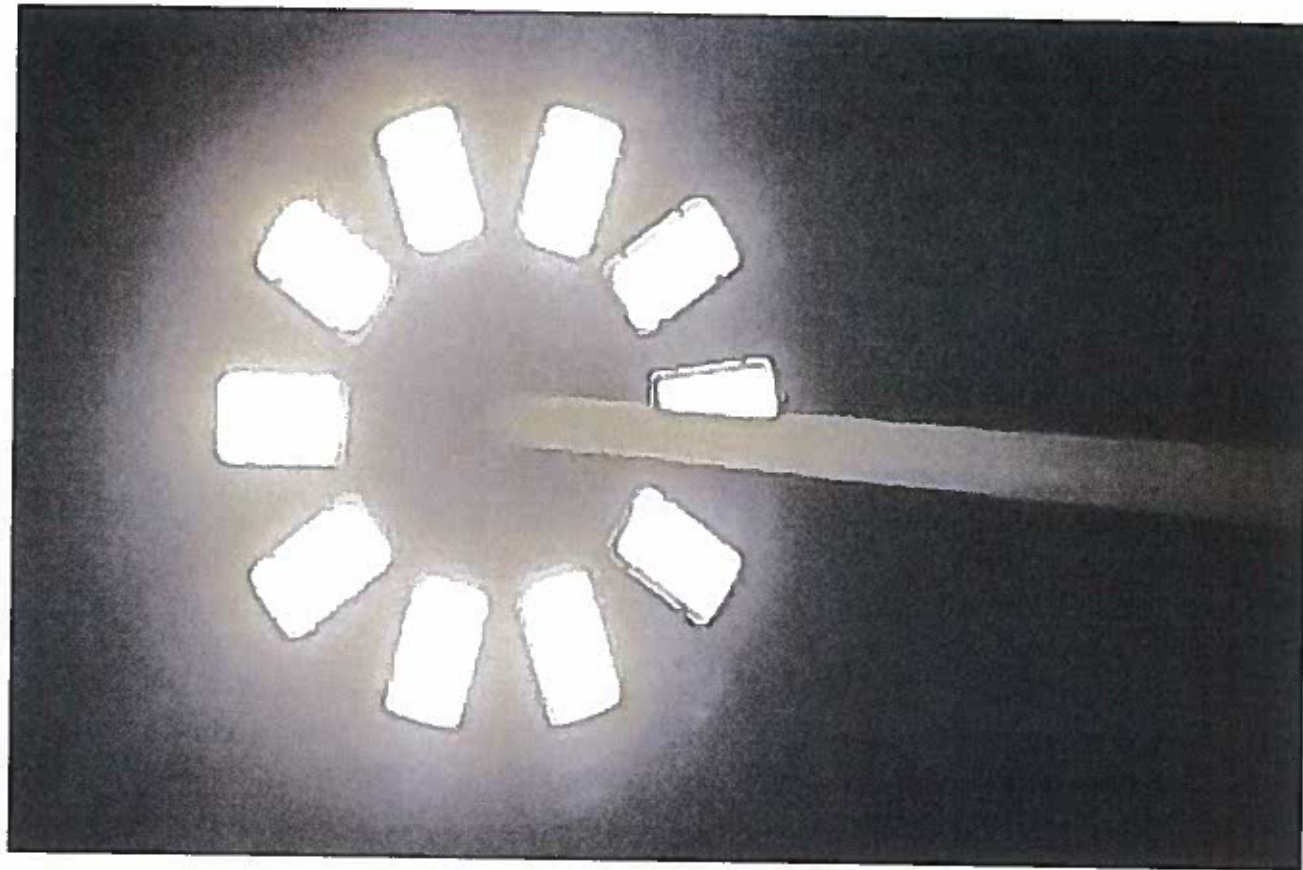
**Project Data**

ESTIMATE	204,024
AUGUST 2	203,174
AUGUST 2	193,025
AUGUST 2	185,000
Total Dependent Items GLA	772,236
Level 01	214,024
Level 02	185,000
Total Street Driveway GLA	411,024
Total GLA	1,253,260
TOTAL AMOUNT OF PAVING 1,023	
PAVING RATE \$ 1.75	
Modular August 20, 2016	





Existing Luminaires

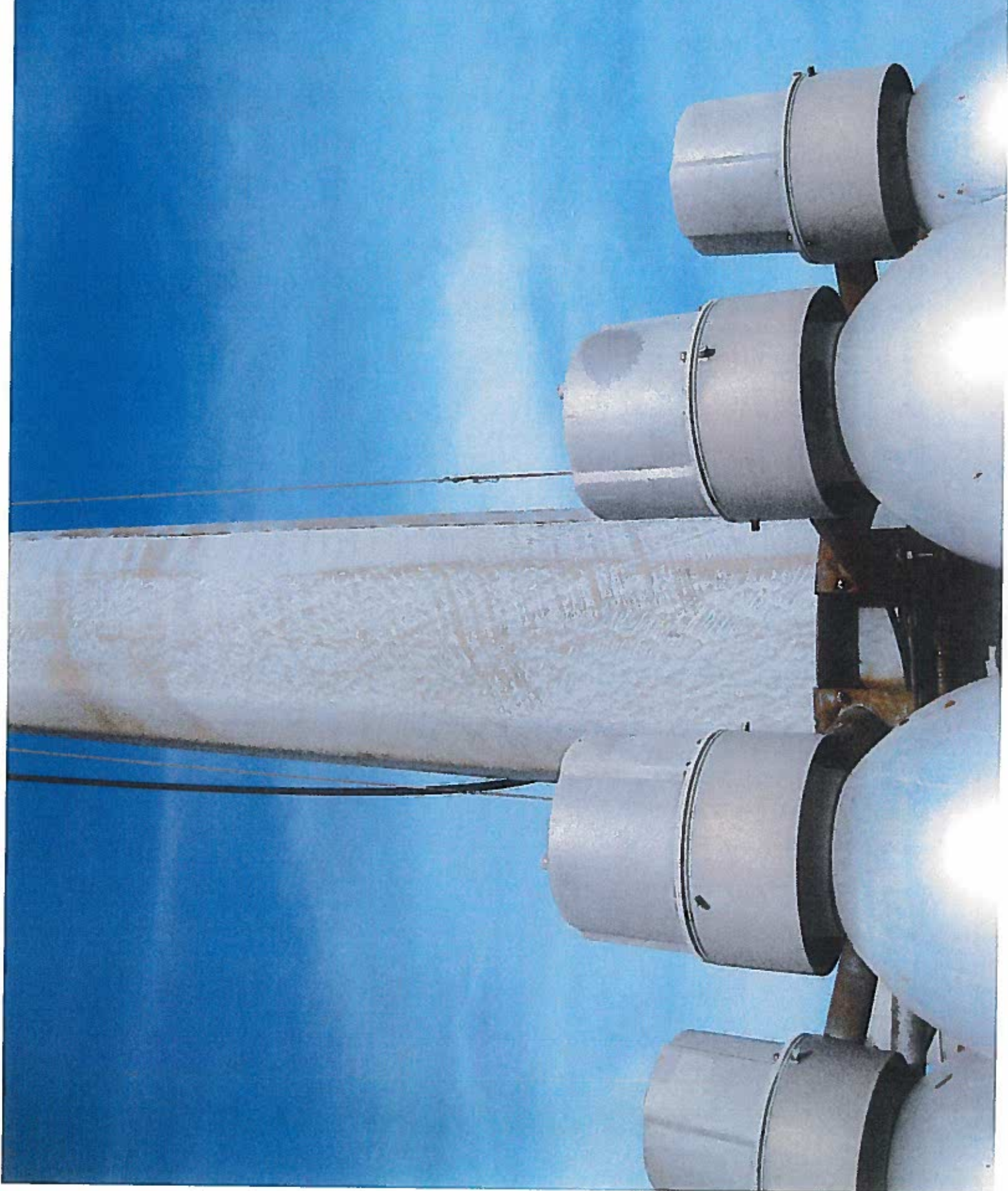


New LED Luminaires



Subject Light Poles  
(Photo Taken Facing West)











**FACILITY SOLUTIONS group** -- Inside Sales  
1045 Entry Drive Bensenville, IL 60106

Quote# 4651898-00

Cust# : 717491-4670

Ship to: Orland Square

Attn: Simon Mall Mgt Office

288 Orland Square

Orland Park, IL 60462

Orland Square

Mail Stop ID - 4670

PO Box 31600

Salt Lake City, UT 84131-9917

Invoice Date	Due Date	Terms	Page
		net 30	1
Placed By	Customer P.O.#		PO Date
MANAGER	SIMON QUOTE		05/03/18

On all sums due FSG which have not been paid, Customer agrees to promptly pay a calculated service charge of 1.5% per month (not exceeding the highest amount lawfully allowed by contract in this state). If FSG commences litigation to collect payment of any amounts due, Customer agrees to pay reasonable attorneys' fees which may be due.

VIA	SHIPPED	SHIP #
Grnd-Commerce		

Ship order complete only

Shipped from: FSG MDC MidWest

LN	PRODUCT AND DESCRIPTION	QUANTITY ORDERED	QUANTITY B.O.	QUANTITY SHIPPED	QTY U/M	UNIT PRICE	PRICE U/M	AMOUNT
1	GE ERHM 01 H 60 F1 7 W12UM GE ERHM 01 H 60 F1 7 40N D 4B GRAY	20			EA	1391.30	EA	27,826.00
2	ELWN5A5UG5 V5219 ELWN5A5UG5	20			EA	150.72	EA	3,014.40
2	Lines Total	Qty Shipped Total		40		Total		30,840.40
						Taxes		2,467.23
						Invoice Total USD		33,307.63

## Special Order / Non-stock Acknowledgement

This order contains special order items which may not be returnable to the manufacturer or may require restock fees upon return. By signing this quote, customer verifies that this order contains complete specifications, options and accessories. Customer authorizes Facility Solutions Group to place the order and agrees to pay all freight charges incurred from the manufacturer as well as any restock fees and freight charges incurred if returned.

Signature

Printed Name

Date

All Quotes are valid for 30 days from date of issue.  
quotation is subject to FSG Standard Terms and Conditions:  
available upon request

\*\*\* NEW REMIT TO: Facility Solutions Group, Inc. P.O. Box 896508 Charlotte, NC 28289-6508 \*\*\*

Invoice delivery is now available to your email address. It's fast, easy and environmentally responsible. To arrange for invoicing by email to one or more email addresses, email our Customer Support team at [creditdept@fsg.com](mailto:creditdept@fsg.com).