EXISTING LIGHTING FIXTURE SCHEDULE

| SYMBOL | DESCRIPTION | QUANTITY | LLF | MOUNTING | CONFIG. |
|---|---|---|---|---|---|
| | EXISTING GE EVOLVE COBRA HEAD LED STREET LIGHT, 4000K, TYPE 3 DISTRIBUTION, 58 WATTS, GRAY, 30'-0" MOUNTING HEIGHT | 4 | 0.9 | EXISTING 30'-0" ALUMINUM POLE, EXISTING 12'-0" MAST ARM, EXISTING CONCRETE FOUNDATION | 1 FIXTURE |

PROPOSED LIGHTING FIXTURE SCHEDULE

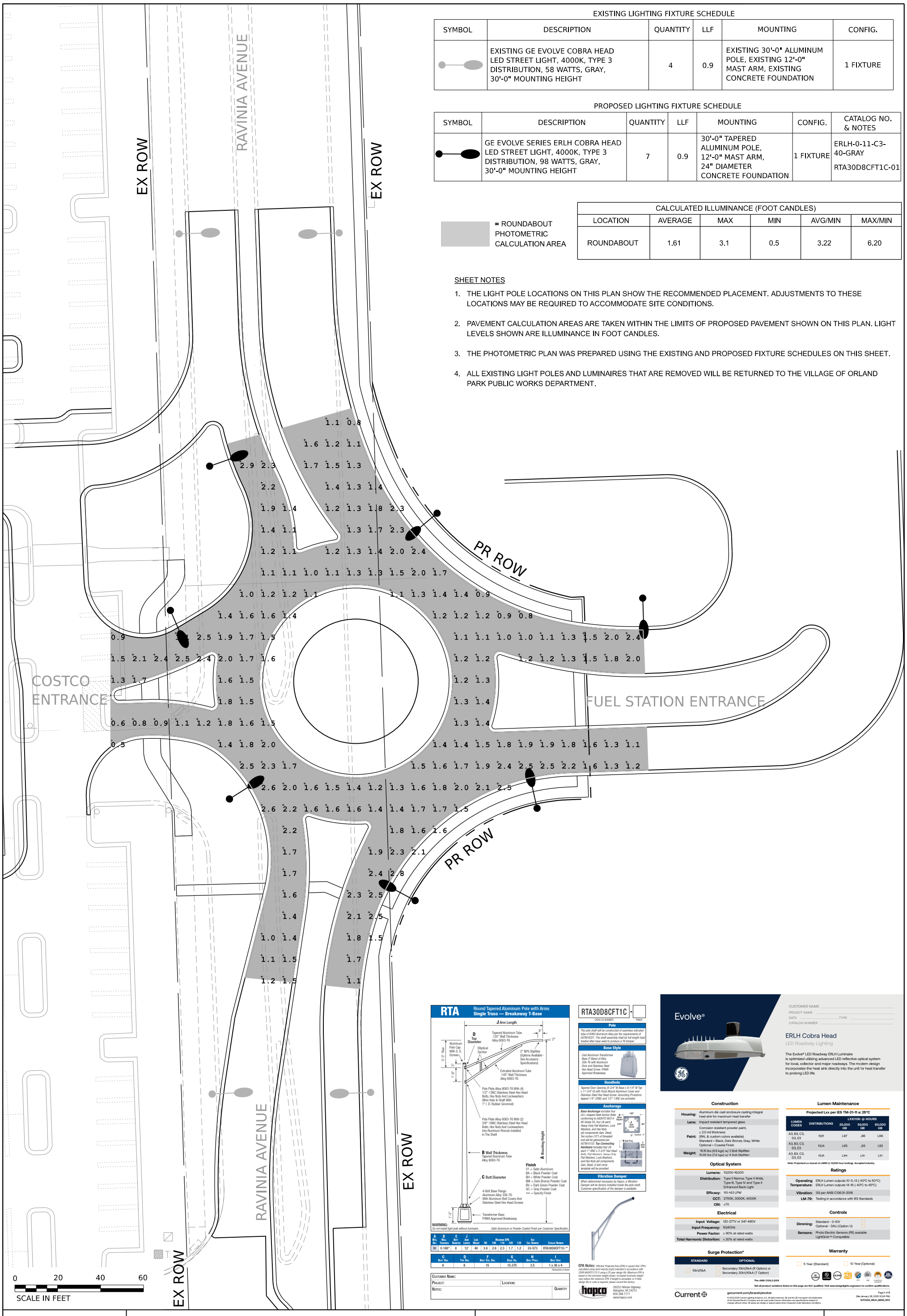
| SYMBOL | DESCRIPTION | QUANTITY | LLF | MOUNTING | CONFIG. | CATALOG NO. & NOTES |
|---|---|---|---|---|---|---|
| | GE EVOLVE SERIES ERLH COBRA HEAD LED STREET LIGHT, 4000K, TYPE 3 DISTRIBUTION, 98 WATTS, GRAY, 30'-0" MOUNTING HEIGHT | 7 | 0.9 | 30'-0" TAPERED ALUMINUM POLE, 12'-0" MAST ARM, 24" DIAMETER CONCRETE FOUNDATION | 1 FIXTURE | ERLH-0-11-C3-40-GRAY<br>RTA30D8CFT1C-01 |

= ROUNDABOUT PHOTOMETRIC CALCULATION AREA

| CALCULATED ILLUMINANCE (FOOT CANDLES) | | | | | |
|---|---|---|---|---|---|
| LOCATION | AVERAGE | MAX | MIN | AVG/MIN | MAX/MIN |
| ROUNDABOUT | 1.61 | 3.1 | 0.5 | 3.22 | 6.20 |

SHEET NOTES

1. THE LIGHT POLE LOCATIONS ON THIS PLAN SHOW THE RECOMMENDED PLACEMENT. ADJUSTMENTS TO THESE LOCATIONS MAY BE REQUIRED TO ACCOMMODATE SITE CONDITIONS.
2. PAVEMENT CALCULATION AREAS ARE TAKEN WITHIN THE LIMITS OF PROPOSED PAVEMENT SHOWN ON THIS PLAN. LIGHT LEVELS SHOWN ARE ILLUMINANCE IN FOOT CANDLES.
3. THE PHOTOMETRIC PLAN WAS PREPARED USING THE EXISTING AND PROPOSED FIXTURE SCHEDULES ON THIS SHEET.
4. ALL EXISTING LIGHT POLES AND LUMINAIRES THAT ARE REMOVED WILL BE RETURNED TO THE VILLAGE OF ORLAND PARK PUBLIC WORKS DEPARTMENT.







| A Wall Thickness | B Butt Diameter | C Arm Length | J Lbs. Weight | Maximum EPA 90 | 100 | 110 | 120 | 130 | Old Cat. Number | Catalog Number |
|---|---|---|---|---|---|---|---|---|---|---|
| .30 | 0.188" | 8 | 12' | 40 | 3.6 | 2.6 | 2.3 | 1.7 | 1.2 | 33-573 | RTA30D8CFT1C-** |

| C Butt Dia. | D Top Dia. | F Base Cir. Dia. | G Base Sq. | H Base Proj. | I Base Size |
|---|---|---|---|---|---|
| 8 | 6 | 15 | 15.375 | 3.5 | 1 x 36 x 4 |

Dimensions in inches

| CUSTOMER NAME: | |
|---|---|
| PROJECT: | LOCATION: |
| NOTES: | QUANTITY: |

RTA30D8CFT1C - [ ]
CATALOG NUMBER — FINISH

**Pole**
*The pole shaft will be constructed of seamless extruded tube of 6063 Aluminum Alloy per the requirements of ASTM B221. The shaft assembly shall be full-length heat treated after base weld to produce a T6 temper.*

**Base Style**
*Cast Aluminum Transformer Base (T-Base) of Alloy 356-T6 with Aluminum Door and Stainless Steel Hex Head Screw. FHWA Approved Breakaway.*

**Handhole**
*Tapered Door Opening (9-3/4" W Base x 9-1/4" W Top x 11-3/4" H) with Flush Mount Aluminum Cover and Stainless Steel Hex Head Screw. Grounding Provisions tapped 1/4"-20NC and 1/2"-13NC are provided.*

**Anchorage**
*Base Anchorage includes four (4) L-shaped Steel Anchor Bolts conforming to AASHTO M314 Gr.55, four (4) each Heavy-Duty Flat Washers, Lock Washers, and Hex Nuts (all components Galv. Steel). Ten inches (10") of threaded end will be galvanized per ASTM A153. Top Connecting Hardware includes four (4) each 1"-8NC x 3-3/4" Hex Head Bolts, Flat Washers, Heavy-Duty Flat Washers, Lock Washers, and Hex Nuts (all components Galv. Steel). A bolt circle template will be provided.*

**Vibration Damper**
*When determined necessary by Hapco, a Vibration Damper will be factory-installed inside the pole shaft. Customer specification of the damper is available.*



EPA Notes: *Effective Projected Area (EPA) in square feet. EPA's calculated using wind velocity (mph) indicated in accordance with 2009 AASHTO LTS-5 using a 25 year design life. Maximum EPA is based on the luminaire weight shown. Increased luminaire weight may reduce the maximum EPA. If weight is exceeded, or if other design life or code is required, please consult the factory.*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Abingdon, VA 24210
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CUSTOMER NAME
PROJECT NAME
DATE TYPE
CATALOG NUMBER

ERLH Cobra Head
LED Roadway Lighting

The Evolve® LED Roadway ERLH Luminaire is optimized utilizing advanced LED reflective optical system for local, collector and major roadways. The modern design incorporates the heat sink directly into the unit for heat transfer to prolong LED life.

**Construction**

| | |
|---|---|
| Housing: | Aluminum die cast enclosure casting integral heat sink for maximum heat transfer |
| Lens: | Impact resistant tempered glass |
| Paint: | Corrosion resistant powder paint, ≥ 2.0 mil thickness (RAL & custom colors available) Standard = Black, Dark Bronze, Gray, White Optional = Coastal Finish |
| Weight: | 15.15 lbs (6.9 kgs) w/ 2 Bolt Slipfitter 15.35 lbs (7.2 kgs) w/ 4 Bolt Slipfitter |

**Optical System**

| | |
|---|---|
| Lumens: | 10000-16000 |
| Distribution: | Type II Narrow, Type II Wide, Type III, Type IV and Type II Enhanced Back Light |
| Efficacy: | 110-143 LPW |
| CCT: | 2700K, 3000K, 4000K |
| CRI: | ≥70 |

**Electrical**

| | |
|---|---|
| Input Voltage: | 120-277V or 347-480V |
| Input Frequency: | 50/60Hz |
| Power Factor: | ≥ 90% at rated watts |
| Total Harmonic Distortion: | ≤ 20% at rated watts |

**Surge Protection***

| STANDARD | OPTIONAL |
|---|---|
| 10kV/5kA | Secondary 10kV/5kA (R Option) or Secondary 20kV/10kA (T Option) |

*Per ANSI C136.2-2018

**Lumen Maintenance**

Projected Lxx per IES TM-21-11 at: 25°C

| LUMEN CODES | DISTRIBUTIONS | LXX(10K) @ HOURS 25,000 HR | 50,000 HR | 60,000 HR |
|---|---|---|---|---|
| A3, B3, C3, D3, E3 | 10,11 | L97 | L96 | L96 |
| A3, B3, C3, D3, E3 | 13,14 | L95 | L93 | L92 |
| A3, B3, C3, D3, E3 | 15,16 | L94 | L91 | L91 |

Note: Projected Lxx based on LM80 (≥ 10,000 hour testing). Accepted Industry

**Ratings**

| | |
|---|---|
| Operating Temperature: | ERLH Lumen outputs 10-11, 13 (-40°C to 50°C) ERLH Lumen outputs 14-16 (-40°C to 45°C) |
| Vibration: | 3G per ANSI C136.31-2018 |
| LM-79: | Testing in accordance with IES Standards |

**Controls**

| | |
|---|---|
| Dimming: | Standard - 0-10V ☐ Optional - DALI (Option U) ☐ |
| Sensors: | Photo Electric Sensors (PE) available LightGrid+™ Compatible |

**Warranty**

☐ 5 Year (Standard) ☐ 10 Year (Optional)

Not all product variations listed on this page are DLC qualified. Visit www.designlights.org/search to confirm qualifications.

Current

gecurrent.com/brands/evolve


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# COSTCO WHOLESALE

ORLAND PARK ILLINOIS

# PHOTOMETRIC PLAN

EXH 1