

SECTION 16530
SITE LIGHTING

PART 1 GENERAL

1.1 SECTION INCLUDES:

- A. Exterior luminaries and accessories.
- B. Poles.

1.2 REFERENCES

- A. ANSI C78.379 - Electric Lamps - Incandescent and High-Intensity Discharge Reflector Lamps - Classification of Beam Patterns.
- B. ANSI C82.1 - Ballasts for Fluorescent Lamps-Specifications.
- C. ANSI C82.4 - Ballasts for High-Intensity-Discharge and Low-Pressure Sodium Lamps (Multiple-Supply Type).
- D. ANSI/NFPA 70 - National Electrical Code.
- E. ANSI/IES RP-8 - Recommended Practice for Roadway Lighting.
- F. ANSI/IES RP-20 - Lighting for Parking Facilities.
- G. Section 02310 – Earthwork, for all underground installations.

1.3 DESIGN REQUIREMENTS

- A. Roadway: ANSI/IES RP-8, classification as indicated on Drawings.
- B. Parking Lot: ANSI/IES RP-20, [low] [medium] [high] activity level.

1.9 COORDINATION

- A. Furnish bolt templates and pole mounting accessories to installer of pole foundations.

PART 2 PRODUCTS

2.1 LUMINAIRES

- A. Furnish Gardco Gullwing G18 Area Luminaires – with Pulse Start Metal Halide (MH) Magnetic Ballast.
- B. Substitutions: Under provisions of Section 01600.
- C. LED Fixtures may be considered on a case by case basis.

2.2 LAMPS

- A. Lamp Manufacturers:
 - 1. General Electric
 - 2. Sylvania
 - 3. Philips Lighting Company
 - 4. Substitutions: Under provisions of Section 01600.
- B. Provide lamp type specified for luminary.
- C. Reflector Lamp Beam Patterns: ANSI C78.379.

2.3 POLES

- A. Height: As indicated on Drawings.
- B. Material: Poles to be Whatley composite poles or equal.
- C. Hand hole:

minimum above base. Install poles on bases plumb; provide double nuts for adjustment. Grout around pole base. Provide manufacturer's covers for bolts at base.

G. Use belt slings or non-chafing ropes to raise and set pre-finished luminary poles.

H. Provide one weatherproof fuse per ballast, dual fuse holders for two fixture poles. Install fuse(s) in the cast-in hand hole. No fuses shall be permitted in the fixture head.

I. All conductor splices shall be installed in the cast-in hand hole. If required the hand hole will be permitted to be extended outward using a weatherproof junction box.

J. Coat the attachment bolts or set screws with an anti-seizing / lubricating compound.

3.3 FIELD QUALITY CONTROL

A. Operate each luminary after installation and