

SECTION 265613
LIGHTING POLE BASES

PART 1 - GENERAL

1.1 SUMMARY

- A. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section including the following.
 - 1. Intelligent lighting pole bases.
 - 2. Accessories.
- B. Related Sections: Coordinate with the following specification sections as applicable to the project:
 - 1. Section 033000 - Cast-in-Place Concrete.
 - 2. Section 265600 - Exterior Lighting.

1.2 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Design lighting pole bases, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.
- B. Structural Performance of Lighting Pole Bases: Provide lighting pole bases capable of withstanding the effects of loads and stresses within limits and under conditions specified in ASCE 7.

1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's literature including product characteristics and accessories.
- B. Shop Drawings: Show fabrication and installation details for lighting pole bases. Include plans, elevations, sections, and details of lighting pole bases and their connections. Show anchorage and accessory items.
- C. Delegated-Design Submittal: For installed products indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.4 QUALITY ASSURANCE

- A. Engineering Responsibility: Preparation of Shop Drawings, design calculations, and other structural data by a qualified professional engineer.

- B. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in the jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of metal fabrications that are similar to those indicated for this Project in material, design, and extent.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials and products in unopened factory labeled packages. Store and handle in strict compliance with manufacturer's instructions and recommendations.

1.6 WARRANTY

- A. Manufacturer's Warranty: Provide manufacturer's standard limited warranty.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Basis-of-Design Manufacturer: Intelligent Pole Base, 16 Technology Dr., Suite 114, Irvine, CA 92618. Tel: 714-471-7747, 866-679-7101. sale@intelligentpolebase.com, www.intelligentpolebase.com.

2.2 INTELLIGENT LIGHTING POLE BASES

- A. Basis of Design: Intelligent Pole Base; RD Round Series.
- B. Dimensions:
 1. Outside Dimensions: [Diameter 18 inches (457 mm) x Height 22 inches (559 mm)] [Diameter 24 inches (610 mm) x Height 28 inches (711 mm)].
 2. Light Pole Bolt Pattern Diameter: [7 to 8 inches (178 to 203 mm)] [8 to 9 inches (203 to 229 mm)] [9 to 10 inches (229 to 254 mm)] [10 to 11 inches (254 to 279 mm)] [11 to 12 inches (279 to 305 mm)].
 3. Light Pole Bolt Size: [5/8 inches (16 mm)] [3/4 inches (19 mm)] [7/8 inches (22 mm)] [1 inch (25 mm)] [1-1/4 inches (32 mm)] [1-1/2 inches (38 mm)].
 4. Light Pole Height: [Less than 30 feet (9144 mm)] [30 to 40 feet (9144 to 12,192 mm)] [Greater than 40 feet (12,192 mm)].
- C. Finish:
 1. Base or Primer Coat: Hot dipped galvanization.
 2. Finish: [Factory primed for field painting] [Powder coat finish] [Custom finish, _____].
 3. Color: [PR-Primer] [BL-Black] [WH-White] [BZ-Bronze] [CT-Concrete] [Custom, _____].
- D. Lock: ANSI/BHMA A156.11, Grade 1.
 1. Deadbolt: Schlage interchangeable core deadbolt.

2. Cylinder Length: 1-7/16 inches (438 mm).
 3. Barrel Diameter: 1-1/8 inches (343 mm).
 4. Keyway: [Standard] [Restricted key].
 5. Finish: [US26D] [US3] [US10B].
- E. Venting: [None] [With venting].
- F. Internal Receptacle: [None] [Duplex 20A] [Double duplex 20A] [120/250 V 50 A].
- G. External Receptacle: [None] [Duplex 20A WP] [120/250 V 50 A WP].
- H. Additional Components:

Intelligent Pole Bases can be customized with these additional components. Delete any components not required.

1. Charging stations for electric vehicles.
2. Fans for cooling
3. Monitor displays for advertising, directions, or security purposes.
4. Mass notification system storage [located in] [located on] intelligent pole base.
5. Battery storage for pole mounted components.
6. Inverters, chargers, and batteries for power-outage protection and emergency lighting.
7. Lighting control [switches,] [timers,] [relays,] [transformers,] [ballasts,] and [drivers].
8. Fiber optic media converters with splice and termination protection.
9. Network [switches,] [routers,] [modems,] and [patch panels].
10. Charging stations for scooters, bikes, phones, and other devices.
11. Equipment storage for pole-mounted security cameras.
12. Ventilation holes customized to match brand logos or specific design.
13. Storage for music and PA system connected to pole-mounted speakers.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine openings for compliance with requirements for installation tolerances and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.
- B. Test components for proper operation. Adjust until satisfactory results are obtained.

3.4 CLEANING

- A. Clean in accordance with the manufacturer's recommendations.
- B. Leave installation area clean, free of residue and debris resulting from work of this Section.

END OF SECTION