

26 5600 EXTERIOR LIGHTING

A. All exterior lighting systems are designed and installed to comply with the local lighting ordinance, if applicable.

B. Pole Mounted Yard Lights:

1. Lighting shall be designed and installed to provide a minimum maintained illumination level of 1.0 foot-candle at 36" above grade for all paved areas (including gravel and stone pavement; including auto parking) and for a five-foot wide area behind all parked trailers.
2. Exterior LED lighting shall be provided for all paved areas with commercial quality flood or cut-off style luminaries, mounted either on the building or on Class 3 wood light poles as permitted by local requirements. Provide LED fixtures with light output equivalent to 400 and 1000 metal halide watt floodlights mounted at approx. 33' and 42' above grade respectively. Refer to pole detail on drawings. 250 watt metal halide equivalent floodlights may be used in or along non-parking entrance drive lanes at a 33' mounting height. Wall mounted lights may be used on building walls except where canopies exist. Galvanized tapered steel poles may be used at Lessor/Lessor's Agent option.
3. If cut-off fixtures are used it will be necessary to install building mounted fixtures on the wall above load/unload doors at approximately 26'-0" AFG with a pipe mast extending 10'-0" out from building to provide adequate lighting in drive lane. Provide all necessary mounting hardware, backing plate, etc. to building structure as required for adequate support. Additionally, a 6'-0" horizontal arm extension will be required on pole mounted cut-off fixtures behind trailers on perimeter of yard.
4. Yard lighting installed on steel poles shall incorporate a 5'-0" tall concrete base.

C. Canopy Lighting:

1. Provide LED lighting with light output equivalent to a 70 watt metal halide surface mounted Type 4 (forward throw) canopy fixtures at trailer doors on, both, the load and unload side of the building. These fixtures must be mounted "between" every other trailer door. Mounting above the trailer doors is prohibited.
2. In Manual stations these fixtures shall be controlled by an electronic astronomic time controller.
 - a. Acceptable Manufacturers: Paragon #EL71 Series, or Tork.
 - b. In Automated and OTP Stations fixtures shall be controlled by yard lighting control, panel as indicated in section 260943. Refer to detail on drawings.

D. Special Yard Lighting Requirements:

1. Provide a lighting level of 20-foot candles as measured 36-inches above the finished grade at the location of the emergency generator connection cabinet for purposes of connecting the portable generator.
 - a. Final fixture location and quantity as required by design.
 - b. Fixture(s) shall be connected to “life-safety” circuit with battery backup.
 - c. Fixture(s) shall be equipped with an internal photocell
 2. Provide a yard lighting level of 5-foot candles as measured 36-inches above the finished grade at the following locations:
 - a. Facility entrance gate (overhead truss gate): 50’-0” as measured on, both, the secured side and the unsecured side of the gate, for a minimum width of two times the entrance roadway.
 - b. Personnel entrance/exit gate at the Automobile Parking Area: 50’-0” as measured on both sides of the portal arrangement, extended along the striped path all the way to the Main Distribution Center Entrance as identified on the FXG Drawings.
 - c. Free Standing Security Buildings and Gate Houses: 50’-0” as measured on both the Inbound and the outbound sides of the building, and for a minimum width of two times the traffic lanes on both sides of the building, extended along the striped path all the way to the Main Distribution Center Entrance as identified on the FXG Drawings
 - d. Gateway Buildings, Security Wing: 50’-0” minimum as measured on the three (3) exposed sides of this portion of the Gateway Building, extended along the striped path all the way to the Main Distribution Center Entrance as identified on the FXG Drawings
 - e. Paved areas extending 75’ from face of building at the concrete aprons of dock doors.
- E. Pedestrian Door Lighting:
1. Exterior pedestrian doors located in all buildings shall be illuminated by an LED fixture with light output equivalent to a 42 watt compact fluorescent wall pack type light fixture with photocell for automatic dusk-to-dawn lighting.
- F. Photometrics
1. Prior to installation provide FedEx Ground with a Site Plan showing design photometric data indicating that the exterior lighting meets the specified illumination requirements. The furnished Site Plan shall show the locations of trailer and tractor parking. The photometric study shall be based on all parking spaces being occupied by 13’-6” tall by 28’ or longer trailers along the perimeter spaces and 28’ trailers at the building Load/Unload doors. Foot - candle levels shall be noted on 15’-0” centers maximum.

2. Provide FedEx Ground with “as-built” photometric documents incorporating final locations of all exterior fixtures installed. These documents shall confirm that the lighting installation meets the specified foot-candle requirement with the trailers in place as noted.

G. Final Yard Lighting Review:

1. Upon completion of the installation the performance of the system shall be reviewed and verified at night with a FedEx Ground representative. (Inspection shall be completed during a dry weather period).

H. Exterior Building Mounted Signage:

1. All exterior building mounted signage shall operate on 120 VAC.
2. Refer to Section 101423.16 for additional signage information.

END OF SECTION