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# Special Provision to Special Specification 6000

## Illumination Maintenance

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Special Specification 6000, "Illumination Maintenance," is amended with respect to the clauses cited below. No other clauses or requirements of this Item are waived or changed.

**Article 5., "Work Methods,"** is supplemented by the following.

- 5.72. **Convert Z-Pattern High Mast Illumination Assembly to LED.** Modify existing Z-Pattern High Mast Assemblies.
1. Lower the high mast ring and remove existing floodlight fixtures. Remove existing counterweights.
  2. Fabricate and install fixture mounting tenons as shown on the plans or provide an available product and associated shop drawings for approval.
  3. Replace or install wiring and electrical devices on the high mast assembly ring, including conductors, flexible conduit, transformer, terminal boards, cord connectors, connector bodies, plugs, flanged inlets, and junction boxes necessary to accommodate six new LED high mast fixtures.
  4. Reuse the existing 8/3 Type W cable except for the cable from the new disconnect on the high mast pole to the lower pin and sleeve connector. Provide a new cable from the disconnect to the lower pin and sleeve connector of the type shown on the plans (HMID-03).
  5. Replace and relocate the circuit breaker and enclosure as shown on the plans (HMID-03), including drilling holes in the pole for conduit entry and installing liquidtight flexible metal conduit.
  6. Install six equally spaced TxDOT Standard Type A high mast luminaire fixtures oriented in the same direction toward the freeway or as directed. (See [DMS-11020](#), "High Mast LED Light Fixtures.")
  7. Replace the obstruction light assembly, including new internal wiring and LED lamps; ensure the safety chain is working properly.
  8. Balance the ring after installing the equipment and wiring.
  9. Drill a hole in the pole for a 3/4-in. shoulder eye bolt and attach a new safety lanyard as shown on the plans (HMID 03).
  10. Do not replace the winch, winch cable, and cable attachment plate, unless required and as directed (paid for separately). Adjust the winch brake according to the manufacturer's specifications.
  11. If the high mast assembly is not grounded, drill and tap the high mast pole base plate, and install new grounding electrode connectors to accommodate new grounding electrode conductors. Drive two ground rods, 180° from each other, 1 ft. outside maintenance pad. Connect new pole grounding electrode connectors to ground rods using a #2 AWG bare stranded copper grounding electrode conductor and proper ground rod connectors. Install the grounding electrode conductor in a surface-mounted, 3/4-in. rigid metallic conduit. Properly bond conduit at both ends and properly strap conduit.
  12. If the high mast assembly was previously modified for grounding, perform a ground resistance test to ensure that the ground is functioning effectively. If a ground fault is found after testing, repair the grounding system, including replacing #2 AWG bare stranded copper grounding electrode conductors, rigid metallic 3/4-in. conduit, and grounding rods as needed until the ground fault is eliminated.
  13. The Department will furnish a power drive assembly for raising and lowering the high mast assembly ring on loan to the Contractor, if needed. The Contractor is responsible for any damage to the power drive assembly while in their care.
  14. Raise the high mast ring and adjust the tension on the springs to seat the stabilizers.

**Article 6., "Measurement,"** is supplemented by the following.

6.72. **Convert Z-Pattern High Mast Illumination Assembly to LED.** By each location specified on the plans.

**Section 6.11., "Replace High Mast Luminaires,"** is supplemented by the following.

(The cost of removing, salvaging, disassembling, and stockpiling existing luminaires; furnishing and installing new luminaires, connections, conductors, and conduit on the ring; rewiring circuits on the ring; replacing damaged components; disposing of unsalvageable materials; conducting system performance testing; and materials, equipment, labor, tools, and incidentals will be subsidiary to this bid item.)

**Article 7., "Payment."** The second paragraph is voided and replaced by the following.

7.1. **High Mast Luminaries.** The cost of removing, salvaging, disassembling, and stockpiling existing luminaires; furnishing and installing new luminaires, connections, conductors, and conduit on the ring; rewiring circuits on the ring; replacing damaged components; disposing of unsalvageable materials; conducting system performance testing; and materials, equipment, labor, tools, and incidentals will be subsidiary to this Item.

7.2. **Convert Z-Pattern High Mast Illumination Assemblies to LED.** The cost of removing, salvaging, disassembling, and stockpiling existing luminaires; furnishing and installing mounting tenons, new luminaires, connections, conductors, and conduit on the ring; rewiring circuits on the ring; furnishing and installing transformer, terminal boards, cord connectors, connector bodies, plugs, flanged inlets, junction boxes, and circuit breakers and enclosure; removing counterweights and balancing the ring; furnishing and installing grounding system components; replacing damaged components; disposing of unsalvageable materials; conducting system performance testing; and materials, equipment, labor, tools, and incidentals will be subsidiary to this Item.