

# Special Specification 6150

## Solar LED Guardrail Marker



### 1. DESCRIPTION

Furnish and install Solar LED Guardrail Markers. Furnish LED that is powered by built in solar panel and will operate during low ambient light conditions, typically dusk till dawn.

### 2. MATERIALS

Furnish and construct materials in accordance with the following:

- Item 445, "Galvanizing,"
- Item 447, "Structural Bolting,"
- Item 540, "Metal Beam Guard Fence," and
- Item 658, "Delineator and Object Marker Assemblies".

Provide solar panel constructed to be weather proof and allow for workability in all conditions. Provide marker body constructed with UV resistant plastic.

### 3. CONSTRUCTION

Provide solar LED guardrail marker designed to install on existing guardrail by loosening existing bolts on guardrail support, slide on LED marker with solar panel facing up to sunlight, and retighten bolts.

Repair damaged galvanizing in accordance with Item 445, "Galvanizing," Section 3.5., "Repairs."

Provide solar panel that contains internal Ni-MH battery.

- 3.1. **Warranty.** Marker will operate with at least a 1/2 mile of visibility for 3 yr. without need for repair or replacement unless damaged by outside force. Manufacture will ship replacement markers, at no expense, that cease to function within 3 yr. of installation.

### 4. MEASUREMENT

This Item will be measured by each marker installed. When removal is specified on the plans to be a pay item, it will be measured by each marker assembly removed.

### 5. PAYMENT

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Install Solar LED Guardrail Marker" of the types and colors specified and for "Remove Solar LED Guardrail Marker."

**Installation.** This price is full compensation for furnishing, fabricating, installing, and testing the solar LED guardrail marker including adhesives, mounting assemblies, equipment, labor, tools, and incidentals.

**Removal.** When removal is shown on the plans as a bid item, this price is full compensation for removal and disposal of marker assemblies and for equipment, labor, tools, and incidentals.