

Payment is full compensation for furnishing and installing the complete lighting standard or tower, including the bracket arm(s) or high mast luminaire support and lowering assembly, and associated hardware and connections; furnishing grounding material; furnishing backfill materials; backfilling; reshaping to proper contours; and repairing seeded or sodded areas.

Appurtenances for lighting standards and towers will be paid for as follows:

- a. When lighting towers are designed for the use of a service car, normally one unit is required for each project and will be paid for at the Contract Unit Price per each. Payment is full compensation for furnishing the complete service car, including the drive motor and required accessories.
- b. If specified as a separate payment Item, the power supply unit will be paid for at the Contract Unit Price per each. Payment is full compensation for furnishing the complete power supply unit, including transformer, if required, and required accessories.
- c. Foundations for lighting standards are considered an integral part of the lighting standard and will not be paid for separately.

For lighting tower foundations only, the Class A concrete, reinforcement steel, and piling will be paid for separately according to the applicable sections.

5. Luminaires

Luminaires will be paid for at the Contract Unit Price per each. Payment is full compensation for furnishing and installing the complete luminaire. Installation includes ballast(s), lamp(s), glare shields where required, and associated hardware and wiring.

6. Transformer Bases

When shown on the Plans as a separate payment Item, transformer bases will be paid for by the Unit for each specific size shown on the Plans.

7. Service Pole Risers

These will be paid for at the Contract Unit Price per each. Payment is full compensation for furnishing and installing the complete service pole riser as shown on the Plans. Installation includes the wood pole, metallic conduit riser, weatherproof circuit breaker(s), weatherhead, enough wire to connect to the power source, and other required accessories.

Payment will be made under Sections 681, 682, and 683.

8. Seed and Sod Repair

Include the costs incurred in reseeding, resodding, and otherwise restoring the areas to their original condition in the Contract Price for other Items. These will not be paid for separately.

9. Energy Cost During Testing

The Contractor is responsible for the energy cost of each circuit or part of a circuit during the test period.

The cost of energy consumed after the successful completion of the 30-day test period will be borne by others.

Payment Items related to this section are described in the following sections:

Lighting standards and luminaires	Section 681
Electrical wire, cable, and conduit	Section 682
High level lighting systems	Section 683

680.5.01 Adjustments

General Provisions 101 through 150.

Section 681—Lighting Standards and Luminaires

681.1 General Description

This work includes furnishing and installing lighting standards and luminaires for roadway and highway structure lighting systems, either complete or as indicated on the Plans.

681.1.01 Definitions

General Provisions 101 through 150.

681.1.02 Related References**A. Standard Specifications**

Section 680—Highway Lighting

Section 920—Lighting Standards and Towers

Section 921—Luminaires

B. Referenced Documents

General Provisions 101 through 150.

681.1.03 Submittals

Refer to Subsection 680.1.03.

681.2 Materials

Use materials that meet the requirements of Subsection 680.2 and the following:

Material	Specification
Lighting Standards and Towers	Section 920
Luminaires	Section 921

681.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.

681.3 Construction Requirements**681.3.01 Personnel**

General Provisions 101 through 150.

681.3.02 Equipment

General Provisions 101 through 150.

681.3.03 Preparation

General Provisions 101 through 150.

681.3.04 Fabrication

General Provisions 101 through 150.

681.3.05 Construction

Perform construction according to Subsection 680.3.05.

681.3.06 Quality Acceptance

Refer to Subsection 680.3.06.

681.3.07 Contractor Warranty and Maintenance

General Provisions 101 through 150.

681.4 Measurement

Measurement and payment will conform to Subsection 680.4.

681.4.01 Limits

General Provisions 101 through 150.

681.5 Payment

Payment will be made under:

Item No. 681	Lighting standard—aluminum ____ MH post top	Per each
Item No. 681	Lighting standard—aluminum ____ MH ____ arm	Per each
Item No. 681	Lighting standard—steel ____ MH post top	Per each
Item No. 681	Lighting standard—steel ____ MH ____ arm	Per each
Item No. 681	Lighting standard—prestressed concrete ____ MH post top	Per each
Item No. 681	Lighting standard—prestressed concrete ____ MH ____ arm	Per each
Item No. 681	Lighting standard _____ MH post top	Per each
Item No. 681	Lighting standard _____ MH ____ arm	Per each
Item No. 681	Transformer base—aluminum ____ in (mm)	Per each
Item No. 681	Luminaire (description)	Per each

681.5.01 Adjustments

General Provisions 101 through 150.

Section 682—Electrical Wire, Cable, and Conduit

682.1 General Description

This work includes furnishing and installing wire, cable, and conduit for roadway and structure lighting systems, complete or as indicated on the Plans.

682.1.01 Definitions

General Provisions 101 through 150.

682.1.02 Related References

A. Standard Specifications

Section 680—Highway Lighting

Section 922—Electrical Wire and Cable

Section 923—Electrical Conduit

B. Referenced Documents

General Provisions 101 through 150.

682.1.03 Submittals

Refer to Subsection 680.1.03.

682.2 Materials

Use materials that meet the requirements of Subsection 680.2 and the following:

Material	Specification
Electrical Wire and Cable	Section 922
Electrical Conduit	Section 923

682.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.