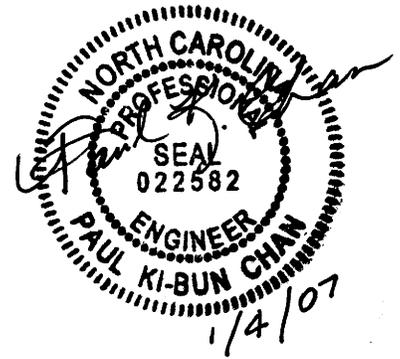


U-3601
December 21, 2006

PROJECT SPECIAL PROVISIONS
Roadway Lighting



1.00 DESCRIPTION

The work covered by this section consists of furnishing, installing, connecting, and placing into satisfactory operating condition roadway lighting at locations shown on the plans. All work shall be performed in accordance with these Special Provisions, the Plans, the National Electrical Code, and North Carolina Department of Transportation "Standard Specifications for Roads and Structures" (Standard Specifications).

All work shall be in conformance with Division 14 of the Standard Specifications except as modified or added to by these Special Provisions.

In addition to the requirements of Section 1400, other specific sections of the Standard Specifications applicable to the work on this project are listed below.

Section 1401	High Mount Standard and Portable Drive Unit
Section 1402	High Mount Foundation
Section 1403	High Mount Luminaires
Section 1405	Standard Foundation
Section 1407	Electric Service Pole and Lateral
Section 1408	Light Control System
Section 1409	Electrical Duct
Section 1410	Feeder Circuits
Section 1411	Electrical Junction Boxes

2.00 RELOCATE LIGHT STANDARDS

2.10 DESCRIPTION

The work covered by this section consists of providing all equipment, labor and materials necessary to move an existing light standard to a new foundation at locations shown on the plans. It also includes storage of the standard and removal of the existing foundation. It does not include construction of a new foundation.

2.20 MATERIALS

Existing materials, which include the light standard shaft and arm, breakaway device, luminaire and lamp shall be reused. New anchor bolts with nuts and washers shall be provided. Existing materials which are to be reused, which are damaged by the Contractor, shall be replaced by the Contractor without additional cost to the Department. Materials furnished by the Contractor shall be new.

Materials removed by the Contractor which are to be reused shall be stored by the Contractor and will remain his responsibility for protection against loss or damage.

2.30 CONSTRUCTION METHODS

The light standards shall be dismantled from the existing foundation and reinstalled on a new foundation. All hoisting and lifting shall be with rope or web slings fastened in such a manner as to prevent damaging or marking any part of the light standard. If the light standards are to be stored for a period of time between dismantling and installing, the Contractor shall provide proper transportation and supports so that the standard will not be warped, and shall provide protection so that the luminaire and circuitry will not be damaged by rain, etc.

The Contractor shall remove existing concrete light standard foundation. The removed concrete, reinforcing steel, and anchor bolts shall be disposed of in waste areas to be furnished by the Contractor. The holes shall be backfilled with suitable material and compacted as required. The existing underground circuits shall be abandoned or removed as required by construction. Any salvage value of the copper conductors shall be reflected in the bid prices for the contract item "Relocate Light Standards".

All conductors in the pole from the breakaway transformer base to the ballast shall be replaced. See Section 1406-1 of the Standard Specifications.

Careful attention shall be given to the breakaway device to assure that it is installed in accordance with the manufacturer's original installation instructions.

2.40 MEASUREMENT AND PAYMENT

The quantity of relocated light standards to be paid for will be the actual number which have been installed at proposed location in a satisfactory manner and have been accepted by the Engineer.

Relocated standards measured as provided above will be paid for at the contract unit bid price per each "Relocate Light Standard". Such price and payment will be considered full compensation for all disconnecting circuitry, disassembly, transportation, storage, reassembly and connection of circuitry, removal of foundation, disposing of concrete, backfilling, compacting and all incidentals necessary to complete the work.

Payment will be made under:

RELOCATE LIGHT STANDARD.....Each

3.00 REMOVE CONTROL SYSTEM

3.10 DESCRIPTION

The work covered by this section consists of the removal of an existing lighting control system and concrete foundation.

The control system consists of electrical components mounted inside a weatherproof enclosure, a photocell, feeder circuits in conduit and a concrete foundation.

3.20 MATERIALS

No materials are required for this work except such miscellaneous items as terminal devices to seal openings in the weatherproof enclosure after all conduits have been removed.

3.30 CONSTRUCTION METHODS

The existing lighting control system shall be left in operation until the new proposed lighting system can be used to maintain the normal nightly operation of the roadway lights.

The Contractor shall coordinate his work with DOT Traffic Services Supervisor to assure that circuits can be de-energized where and when necessary.

The Contractor shall conduct his work so those portions of the lighting system, which are not in conflict with construction, will be maintained in continuous nighttime operation.

The weatherproof enclosure shall be removed from its concrete pad with all internal electrical components intact. All conduit and wiring entering the enclosure shall be removed, and all resulting holes in the enclosure shall be sealed with stainless steel hole seals. The enclosure shall be delivered in good condition to the Division 13 Traffic Services Maintenance Complex.

The wood service pole, service lateral, conduit and internal wire shall become the property of the Contractor and shall be removed from the project or abandoned as approved by the Engineer.

All hoisting and lifting shall be with rope or web slings fastened in such a manner as to prevent damaging or marking any of the salvaged materials. The Contractor shall provide proper transportation and supports so that salvaged materials will not be damaged, and he shall provide protection so that the electrical components and circuitry will not be damaged by rain, etc. He shall furnish equipment, labor, and blocking materials to unload and properly store all salvaged materials at the Division 13 Traffic Services Maintenance Complex.

The Contractor shall remove existing concrete lighting control system foundation. Dispose the removed concrete, reinforcing steel, and anchor bolts in waste areas furnished by the Contractor. Backfill the holes with suitable material and compact the material as required.

3.40 MEASUREMENT AND PAYMENT

The work covered by this provision will be paid for at the contract lump sum price for "Remove Control System".

Such price and payment will be considered full compensation for disassembly and delivery of the stainless steel enclosure and photocell to the DOT warehouse. It also includes the removal, disposal and backfilling associated with the concrete foundation, support pole and electrical service pole.

Payment will be made under:

REMOVE CONTROL SYSTEM.....Each

4.00 REMOVE HIGH MAST FOUNDATION

4.10 DESCRIPTION

The work covered by this section consists of the removal of an existing High Mast concrete foundation inside Loop A of the NC191/I-26 Interchange as shown on the plans.

4.20 MATERIALS

No materials are required for this work except such miscellaneous items as tape and terminal devices to dead-end circuits serving the light standards.

4.30 CONSTRUCTION METHODS

Remove existing concrete High Mast foundations. Dispose of the removed concrete, reinforcing steel, and anchor bolts in waste areas furnished by the Contractor. Backfill the holes with suitable material and compact the material as required.

Abandon or remove the conductors and the conduit for the removed High Mast as shown on the plans. Refer to Standard Specifications Section 1400-10.

Careful attention shall be given to the existing conduits and conductors where they exit under the foundation. These conduits and conductors may be intercepted and reused as shown in the plans.

4.40 MEASUREMENT AND PAYMENT

The quantity of removed High Mast Foundations to be paid for will be the actual number which have been removed.

Payment will be made under:

REMOVE HIGH MAST FOUNDTION.....Each