



*T. J. Williams*  
*10/17/07.*

**Project Special Provisions**  
*(Version 06.5)*  
**Signals and Intelligent Transportation Systems**

Prepared By: \_\_\_\_\_  
 17-Oct-07

**Contents**

**1. 2006 STANDARD SPECIFICATIONS FOR ROADS & STRUCTURES .....2**

1.1. GENERAL REQUIREMENTS (1098-1) .....2

1.2. LOOP LEAD-IN CABLE (1098-8) .....2

1.3. UNDERGROUND CONDUIT-CONSTRUCTION METHODS (1715-3) .....2

1.4. INDUCTIVE DETECTION LOOPS – CONSTRUCTION METHODS (1725-3).....2

1.5. LOOP LEAD-IN CABLE – MEASUREMENT AND PAYMENT (1726-4).....2

**2. ELECTRICAL REQUIREMENTS.....3**

## 1. 2006 STANDARD SPECIFICATIONS FOR ROADS & STRUCTURES

*The 2006 Standard Specifications are revised as follows:*

### 1.1. General Requirements (1098-1)

Page 10-268, Subarticle 1098-1(H)

In the first paragraph, revise the second sentence to “Ensure service disconnects are listed as meeting UL Standard UL-489 and marked as being suitable for use as service equipment.”

In the second paragraph, revise the first sentence to “Furnish NEMA Type 3R meter base rated 100 Ampere minimum that meets the requirements of the local utility. Provide meter base with sockets’ ampere rating based on sockets being wired with minimum of 167 degrees F insulated wire.”

In the second paragraph, last item on page, revise to “With or without horn bypass.”

Page 10-269, Subarticle 1098-1(H)

Revise the second line to “Listed as meeting UL Standard UL-414.”

In the first full paragraph on page, remove the first sentence.

Revise the last paragraph to “If meter base and electrical service disconnect are supplied in the same enclosure, ensure assembly is marked as being suitable for use as service equipment. Ensure combination meter and disconnect mounted in a pedestal for underground service is listed as meeting UL Standard UL-231. Otherwise, ensure combination meter and disconnect is listed as meeting UL Standard UL-67.

### 1.2. Loop Lead-in Cable (1098-8)

Page 10-274, Delete article and replace with the following:

Furnish lead-in cable with two conductors of number 14 AWG fabricated from stranded tinned copper that complies with IMSA Specification 50-2 except as follows:

Ensure conductor is twisted with a maximum lay of 2.0 inches, resulting in a minimum of 6 turns per foot.

Provide a ripcord to allow cable jacket to be opened without using a cutter.

Provide length markings in a contrasting color showing sequential feet and within one percent of actual cable length. Ensure character height of the markings is approximately 0.10 inch.

### 1.3. Underground Conduit-Construction Methods (1715-3)

Page 17-10, Subarticle 1715-3(B) Section (1), Revise 1<sup>st</sup> paragraph, 2<sup>nd</sup> sentence to:

Install rigid metallic conduit for all underground runs located inside railroad right-of-way.

### 1.4. Inductive Detection Loops – Construction Methods (1725-3)

Page 17-20, Subarticle 1725-3, In the first paragraph on the page, revise the first sentence to:

“Twist loop conductor pairs a minimum of 5 turns per foot from where conductors leave saw slot to junction box.

### 1.5. Loop Lead-in Cable – Measurement and Payment (1726-4)

Page 17-20, Delete first paragraph and replace with the following:

*Lead-in cable* will be measured and paid as the actual linear feet of lead-in cable furnished, installed, and accepted. Measurement will be made by calculating the difference in length

markings located on outer jacket from start of run to end of run for each run. Terminate all cables before determining length of cable run.

## **2. ELECTRICAL REQUIREMENTS**

Ensure that an IMSA certified, or equivalent, Level II traffic qualified signal technician is standing by to provide emergency maintenance services whenever work is being performed on traffic signal controller cabinets and traffic signal controller cabinet foundations. Stand by status is defined as being able to arrive, fully equipped, at the work site within 30 minutes ready to provide maintenance services.