**REVISION OF SECTION 614**

**TRAFFIC SIGNAL (24 INCH X 24 INCH BLANKOUT LED SIGN)**

**Section 614 of the Standard Specifications is hereby revised for this project as follows:**

**Subsection 614.08 (h) shall include the following:**

*LED Blank-Out Signs:*

LED Blank-out type signs shall conform to the latest *Manual on Uniform Traffic Control Devices* (MUTCD) and the appropriate font and symbol standards specified in *Standard Highway Signs*, 2004 Edition, and Federal Highway Administration.

* “No Right Turn” (Symbol) indications shall conform to sign code R3-1.
* “No Left Turn” (Symbol) indications shall conform to sign code R3-2

LED blank-out enclosures shall be dust and water resistant and meet minimum NEMA 3R standards. Doors shall be front opening, hinged and fully sealed with padlock hasp. Housings shall be marine-grade aluminum, 0.125” thick with a black powder coat finish.

Enclosures shall be ventilated with louvers provided on the back with a washable filter to keep dust and insects from entering the housing.

Window dimensions shall be approximately 24 inches by 24 inches, with an overall cabinet dimension of roughly 28” x 28” x 6” deep (not including visor).

Weight of the blank-out sign assembly shall not exceed 50 lbs.

Housing windows shall be non-glare, high impact, gray acrylic. The housing shall include a detachable sun visor.

LED’s shall be mounted on a modular printed circuit board. LED strings shall be staggered to maintain symbol integrity if one LED should fail. There should be no more than 4 LED’s per string.

Candlepower Distribution shall meet minimum ITE specifications. Intensity shall be measured uniform across the face of the window. Brightness shall be maintained in the event of voltage fluctuations or drops.

Minimum Viewing Angles:

* Red and White LED’s – 23 degrees
* Amber LED’s – 30 degrees

The blank-out sign shall include a solid state power supply with a power consumption range of between 35 to 105 watts, depending on the message.

Operating temperatures shall range between -35° F to 165° F, and humidity from 0 to 95% (non-condensing).

The blank-out sign shall include a photocell and dimming circuitry that allows for the automatic adjustment of the sign’s luminosity for varying environmental conditions.

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**REVISION OF SECTION 614**

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All subassemblies within the housing shall be accessible through a full, front access door, and the assemblies shall be easily removed and replaced with basic tools.

**Subsection 614.13 shall include the following:**

LED blank-out signs shall include the housing, sun visor, LED circuit boards, all internal assemblies and circuitry, mounting hardware, wiring and all work necessary to provide and install a fully operational signal indication.

**Subsection 614.14 shall include the following:**

Payment will be made under:

Pay item Pay Unit

Traffic Signal (24 Inch x 24 Inch Blankout LED Sign) Each