SECTION 00970 - HIGHWAY ILLUMINATION

(Follow all instructions and make all edits with "Track Changes" turned on. If there are no instructions [orange text] above a subsection, paragraph, sentence, or bullet, then include it in the Project. Delete all orange text before preparing the final document. All other modifications to this Section will require ODOT Technical Resource and State Specifications Engineer approval.)

~~***(Use the following lead-in paragraph when none of the following subsections are included in the project.)***~~

~~Comply with Section 00970 of the Standard Specifications.~~

~~***(Use the following lead-in paragraph when any of the following subsections are included in the project.)***~~

Comply with Section 00970 of the Standard Specifications modified as follows:

(Use the following lead-in paragraph and subsection .15 when an LED luminaire is required on a traffic signal support. Substitute other approved product as applicable.)

Add the following subsection:

00970.15 LED Luminaires on Traffic Signal Supports - Furnish one of the following approved models or an approved equal:

- CREE LED - Traveyo Series Large,
  TRVLG-A-HT-3ME-16L-40K7-UL-GY-N

- Signify - LUMEC LED - RoadFocus RFL,
  RFL-135W80LED4K-G2-R3M-UNV-DMG-PH9-GY3

- Current LED - Evolve, ERLH-0-14-C3-40-D-GR

When higher light output is desired, higher wattage luminaires up to 170 watt within the same brand/model listed above, may be furnished.

When furnishing an LED luminaire model that is not specified as approved, the luminaire shall meet the requirements of 02926.54.

(Use the following lead-in paragraph and subsection .16 when an LED luminaire is required on a freeway interchange lighting system. Substitute other approved product as applicable

Replace "(**Voltage Information)" with the voltage information. Check with the Illumination Designer.)***

Add the following subsection:

00970.16 LED Luminaires on Freeway Interchange Lighting Systems - Furnish one of the following models or an approved equal:

- Signify - LUMEC LED - RoadFocus,
  RFL-215W96LED4K-G2-R3M-***(***Voltage Information***)***-DMG-PH9-GY3

- Current LED - Evolve, ERL2-***(***Voltage Information***)***-25-B3-40-D-GR

- CREE LED - Traveyo Series Extra Large,
  TRVXL-A-HT-3ME-25L-40K7-***(***Voltage Information***)***-GY-N

When higher light output is desired, higher wattage luminaires up to 250 watt within the same brand/model listed above, may be furnished.

When furnishing an LED luminaire model that is not specified as approved, the luminaire shall meet the requirements of 02926.54.

00970.47 HDPE Conduit and Connectors – Replace the paragraph that begins "High Density Polyethylene (HDPE) conduit may be used…" with the following paragraph:

High Density Polyethylene (HDPE) conduit may be used for horizontal directional drilling (HDD) applications. Provide HDPE conduit that is gray in color. Join HDPE conduit sections by mechanical fittings that have barbed threads on both ends or by a swedge coupler with two-part conduit adhesive.

(Use the following .90 when refurbishing and reinstalling existing illumination systems.)

00970.90 Payment - Replace the paragraph that begins "Item (e) includes…" with the following paragraph:

Item (e) includes all refurbishing, reinstalling, and other Work as specified or shown.