

EXPECTED IMPLEMENTATION JANUARY 2019

700 HIGHWAY SIGNING. **(REV 5-14-18) (FA 8-15-18) (1-19)**

SUBARTICLE 700-3.2.1.2 is deleted and the following substituted:

700-3.2.1.2 Housing: Ensure that the sign housing is constructed of continuous 5052 or 6063-T5 aluminum. All housing, corners, and door seams must be continuously welded. All exterior surfaces of the assembly must be powder-coat painted in accordance with Military Standard MIL-PRF-24712A or AAMA-2603-02. Finish must meet the requirements of ASTM D3359, ASTM D3363, and ASTM D522. Sign housings with any interior airspace must consist of a box type enclosure and separate hinged door assembly. The sign housing must include provisions to prevent water from entering the sign housing. Drain holes in the sign larger than 0.125 inch must be covered by a screen.

Signs must have removable sign faces. The sign assembly must have one face unless specified otherwise in the Plans. The sign face must be secured by a method that holds the sign face securely in place. Slide-in grooves are allowed to secure the sign face if the sign is edge lit.

The sign face must be a translucent lens constructed of 0.125 inch thick high impact strength polycarbonate or acrylic meeting UL48. Letters must be as detailed in the Contract Documents. Background must be translucent retroreflective sheeting coated with a transparent, pressure-sensitive adhesive film. Color must meet the criteria as detailed in Sections 994. Retroreflective sheeting must meet the requirements of Section 994, and be listed on the APL.

If a door opens upward, it shall have a bracket on each side to secure the door in the open position during maintenance. Doors shall be permanently and continuously sealed with a foam gasket listed to UL157 to prevent the entry of water into the sign housing. Each door must be secured from opening by stainless steel rotary action draw latches as follows:

Signs of 5 feet up to 7 feet in length must have a minimum of three latches for each sign door.

Signs over 7 feet up to 9 feet in length must have a minimum of four latches for each door.

Ensure the rotary action draw latch is captive and does not become detached or allow the door to open when the sign housing is torqued or twisted.

The sign assembly must be designed and constructed to withstand 150 mph wind loads meeting the requirements of the Department's Structures Manual.

SUBARTICLE 700-3.2.6 is deleted and the following substituted:

700-3.2.6 Environmental Requirements: Ensure that the illuminated sign assembly operates properly during and after being subjected to the environmental testing procedures described in NEMA TS 4-2016, Section 2.

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SUBARTICLE 700-5.2.12 is deleted and the following substituted:

700-5.2.12 Environmental Requirements: The EDS assembly must operate properly during and after being subjected to the environmental testing procedures described in NEMA TS 4-2016, Section 2. Fog, frost, or condensation must not form within the dynamic portion of the sign. Electronics must meet FCC Title 47, Subpart B Section 15.

SUBARTICLE 700-6.2.5 is deleted and the following substituted:

700-6.2.5 Environmental Specifications: All electronic assemblies must operate as specified during and after being subjected to the transients, temperature, voltage, humidity, vibration, and shock tests described in NEMA TS 4-2016, Section 2. All electronic equipment must comply with FCC Title 47 Subpart B Section 15.

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